

Associate Director for ESH ADESH P. O. Box 1663, MS K491 Los Alamos, New Mexico 87545 505-667-4218/Fax 505-665-3811

AUG 07 2013

Date:

Symbol: ADESH-13-037

LAUR: 13-25881

New Mexico Environment Department Air Quality Bureau Compliance and Enforcement Section 525 Camino de los Marquez, Suite 1 Santa Fe, NM 87505

Dear Compliance and Enforcement Manager:

SUBJECT: Semi-Annual Monitoring Report for January-June 2013

Air Quality Title V Operating Permit P100-R1-M3 AI No. 856 – Los Alamos National Laboratory (LANL)

Enclosed is Los Alamos National Laboratory's Title V Operating Permit Semi-Annual Monitoring Report for the period **January 1 – June 30, 2013**. This submission is required by permit condition A109.A of Operating Permit P100-R1-M3 and is being submitted on or before August 14, 2013 as specified in the permit condition. No permit deviations occurred during this reporting period.

On April 26, 2013, NMED issued a modification to LANL's Title V Operating Permit. The permit modification, P100-R1-M3, included the removal of four retired boilers from the list of Regulated Sources; the revision of Tables 103.A and 1103.A to reflect actual applicability of 40 CFR 63 Subpart ZZZZ as it applies to Unit TA-33-G-1; and addition of language reflecting previous approval of 40 CFR 63 Subpart ZZZZ compliance date extension for Unit No. TA-33-G-1. This Monitoring Report was completed using the new reporting template provided by NMED.

If you have any questions or comments regarding this submittal or would like to discuss this submittal in greater detail, please contact Steve Story at (505) 665-2169.

Sincerely,

Michael T. Brandt, DrPH, CIH

Associate Director

Environment, Safety, and Health

Enclosure: 1. LANL Title V Monitoring Report (First Half 2013)

Cy: Hai Shen, NA-OO-LA, w/o enc., (E-File)
Elizabeth D. Sellers, DIR, w/o enc., (E-File)
Carl A. Beard, PADOPS, w/o enc., A102
Michael T. Brandt, ADESH, w/o enc., (E-File)
Alison M. Dorries, ENV-DO, w/o enc., (E-File)
Steven L. Story, ENV-CP, w/o enc., (E-File)
Kathleen Gorman, ENV-ES, w/o enc., (E-File)
Cynthia Blackwell, LC-LESH, w/o enc., (E-File)
LASOmailbox@nnsa.doe.gov, w/enc., (E-File)
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ENV-CP Title V Monitoring Report File, J978
ENV-CP Correspondence File, w/enc., K490



# New Mexico Environment Department Air Quality Bureau **Compliance and Enforcement Section** 525 Camino de los Marquez, Suite 1 Santa Fe, NM 87505 Phone (505) 476-4300 Fax (505) 476-4375



Version 05.02.13

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grieggs	st@lanl.gov					story@lar					
	onsible Official: (Title V onlv):	H. Title: Associate Di	rector for E	SH		I. Phone N (505) 667			J. Fax No. (505) 665		
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c. 🗀	NSPS Requirement (40CFR60)	Regulation:		Section	on(s)	•	Descripti	on:			
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After r	easonable inquiry, I	Michael T.			сеп	ity that the	information in	i this submiti	tai is true, a	accurate and	a complete.
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# **Title V Report Certification Form**

I. Report Type						
☐ Annual Compliance Certification						
<b>⊠</b> Semi-Annual Monitoring Report						
☐ Other Specify:						
II. Identifying Information						
Facility Name: Los Alamos National Laboratory				I		
Facility Address: P.O. Box 1663, MS J978, Los Alamos	State: N	M	Zip	: 87545		
Responsible Official (RO): Michael T. Brandt	Phone	: 505-667-42	218	Fax: 505-665-3811		
RO Title: Associate Director, Environmental, Safety, & Health	RO Title: Associate Director, Environmental, Safety, & Health RO e-mail: <a href="mtbrandt@lanl.gov">mtbrandt@lanl.gov</a>					
Permit No.: P100R1M3	Date Per	mit Issued: A	April	1 26, 2013		
Report Due Date (as required by the permit): 08/14/2013	Report Due Date (as required by the permit): 08/14/2013 Permit AI number: 856					
Time period covered by this Report: From: January 1, 201	.3	To: June	30, 2	2013		
III. Certification of Truth, Accuracy, and Comple	eteness					
I am the Responsible Official indicated above. I, (Michael T. Brandt) certification and belief formed after reasonable inquattached Title V report are true, accurate, and complete.  Signature						

# **ENCLOSURE 1**

Los Alamos National Laboratory's Title V Operating Permit Monitoring Report for the Period January 1 – June 30, 2013

ADESH-13-037

LAUR-13-25881

Date: \_\_\_\_\_AUG 07 2013

# Title V Semi - Annual Monitoring Report for Permit P100R1M3

# **Part 1 – Monitoring Activity Reporting Requirements**

A Semi-Annual Report of monitoring activities is due within 45 days following the end of every 6-month reporting period. The six month reporting periods start on **January** 1st and **July** 1st of each year.

A responsible official (as defined in 20.2.70.7.AD NMAC) shall certify the accuracy, truth and completeness of every report and compliance certification submitted to the Department as required by this permit. These certifications shall be part of each document. (20.2.70.300.E NMAC)

Compliance Certification Reports, Semi-Annual monitoring reports, compliance schedule progress reports, and any other compliance status information required by this permit shall be certified by the responsible official and submitted to:

Manager, Compliance and Enforcement Section New Mexico Environment Department Air Quality Bureau 525 Camino de los Marquez, Suite 1 Santa Fe, NM 87505-1816

# B108 General Monitoring Requirements (20.2.70. 302.A and C NMAC)

- A. These requirements do not supersede or relax requirements of federal regulations.
- B. The following monitoring and/or testing requirements shall be used to determine compliance with applicable requirements and emission limits. Any sampling, whether by portable analyzer or EPA reference method, that measures an emission rate over the applicable averaging period greater than an emission limit in this permit constitutes noncompliance with this permit. The Department may require, at its discretion, additional tests pursuant to EPA Reference Methods at any time, including when sampling by portable analyzer measures an emission rate greater than an emission limit in this permit; but such requirement shall not be construed as a determination that the sampling by portable analyzer does not establish noncompliance with this permit and shall not stay enforcement of such noncompliance based on the sampling by portable analyzer.
- C. If the emission unit is shutdown at the time when periodic monitoring is due to be accomplished, the permittee is not required to restart the unit for the sole purpose of performing the monitoring. Using electronic or written mail, the permittee shall notify the Department's Enforcement Section of a delay in emission tests prior to the deadline for accomplishing the tests. Upon recommencing operation, the permittee shall submit any pertinent pre-test notification requirements set forth in the current version of the Department's Standard Operating Procedures For Use Of Portable Analyzers in Performance Test, and shall accomplish the monitoring.
- D. The requirement for monitoring during any monitoring period is based on the percentage of time that the unit has operated. However, to the invoke monitoring period exemptions at B108.D(2), hours of operation shall be monitored and recorded.
- (1) If the emission unit has operated for more than 25% of a monitoring period, then the permittee shall conduct monitoring during that period.
- (2) If the emission unit has operated for 25% or less of a monitoring period then the monitoring is not required. After two successive periods without monitoring, the permittee shall conduct monitoring during the next period regardless of the time operated during that period, except that for any monitoring period in which a unit has operated for less than 10% of the monitoring period, the period will not be considered as one of the two successive periods.
- (3) If invoking the monitoring period exemption in B108.D(2), the actual operating time of a unit shall not exceed the monitoring period required by this permit before the required monitoring is performed. For example, if the monitoring period is annual, the operating hours of the unit shall not exceed 8760 hours before monitoring is conducted. Regardless of the time that a unit actually operates, a minimum of one of each type of monitoring activity shall be conducted during the five year term of this permit.
- E. The permittee is not required to report a deviation for any monitoring or testing in a Specific Condition if the deviation was authorized in this General Condition B108.
- F. For all periodic monitoring events, except when a federal or state regulation is more stringent, three test runs shall be conducted at 90% or greater of the unit's capacity as stated in this permit, or in the permit application if not in the permit, and at additional loads when requested by the Department. If the 90% capacity cannot be achieved, the monitoring will be conducted at the maximum achievable load under prevailing operating conditions except when a federal or state regulation requires more restrictive test conditions. The load and the parameters used to calculate it shall be recorded to document operating conditions and shall be included with the monitoring report.
- G. When requested by the Department, the permittee shall provide schedules of testing and monitoring activities. Compliance tests from previous NSR and Title V permits may be re-imposed if it is deemed necessary by the Department to determine whether the source is in compliance with applicable regulations or permit conditions.
- H. If monitoring is new or is in addition to monitoring imposed by an existing applicable requirement, it shall become effective 120 days after the date of permit issuance. For emission units that have not commenced operation, the associated

new or additional monitoring shall not apply until 120 days after the units commence operation. All pre-existing monitoring requirements incorporated in this permit shall continue to apply from the date of permit issuance. All monitoring periods, unless stated otherwise in the specific permit condition or federal requirement, shall commence at the beginning of the 12 month reporting period as defined at condition A109.B.

# B109 General Recordkeeping Requirements (20.2.70.302.D NMAC)

- A. The permittee shall maintain records to assure and verify compliance with the terms and conditions of this permit. The minimum information to be included in these records is (20.2.70.302.D.1 NMAC):
- (1) equipment identification (include make, model and serial number for all tested equipment and emission controls);
- (2) date(s) and time(s) of sampling or measurements;
- (3) date(s) analyses were performed;
- (4) the company or entity that performed the analyses;
- (5) analytical or test methods used;
- (6) results of analyses or tests; and
- (7) operating conditions existing at the time of sampling or measurement.
- B. The permittee shall keep records of all monitoring data, equipment calibration, maintenance, and inspections, Data Acquisition and Handling System (DAHS) if used, reports, and other supporting information required by this permit for at least five (5) years from the time the data was gathered or the reports written. Each record shall clearly identify the emissions unit and/or monitoring equipment, and the date the data was gathered. (20.2.70.302.D.2 NMAC)
- C. If the permittee has applied and received approval for an alternative operating scenario, then the permittee shall maintain a log at the facility, which documents, contemporaneously with any change from one operating scenario to another, the scenario under which the facility is operating. (20.2.70.302.A.3 NMAC)
- D. The permittee shall keep a record describing off permit changes made at this source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes. (20.2.70.302.I.2 NMAC)
- E. Malfunction emissions and routine and predictable emissions during startup, shutdown, and scheduled maintenance (SSM):
- (1) The permittee shall keep records of all events subject to the plan to minimize emissions during routine or predictable SSM. (20.2.7.14.A NMAC)
- (2) If the facility has allowable SSM emission limits in this permit, the permittee shall record all SSM events, including the date, the start time, the end time, and a description of the event. This record also shall include a copy of the manufacturer's, or equivalent, documentation showing that any maintenance qualified as scheduled. Scheduled maintenance is an activity that occurs at an established frequency pursuant to a written protocol published by the manufacturer or other reliable source. The authorization of allowable SSM emissions does not supersede any applicable federal or state standard. The most stringent requirement applies.
- (3) If the facility has allowable malfunction emission limits in this permit, the permittee shall record all malfunction events to be applied against these limits, including the date, the start time, the end time, and a description of the event.

  Malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to

cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. (40 CFR 63.2, 20.2.7.7.E NMAC) The authorization of allowable malfunction emissions does not supersede any applicable federal or state standard. The most stringent requirement applies. This authorization only allows the permittee to avoid submitting reports under 20.2.7 NMAC for total annual emissions that are below the authorized limit.

# B110 General Reporting Requirements (20.2.70.302.E NMAC)

A. Reports of required monitoring activities for this facility shall be submitted to the Department on the schedule in section A109. Monitoring and recordkeeping requirements that are not required by a NSPS or MACT shall be maintained on-site or (for unmanned sites) at the nearest company office, and summarized in the semi-annual reports, unless alternative reporting requirements are specified in the equipment specific requirements section of this permit.

- B. Reports shall clearly identify the subject equipment showing the emission unit ID number according to this operating permit. In addition, all instances of deviations from permit requirements, including those that occur during emergencies, shall be clearly identified in the reports required by section A109. (20.2.70.302.E.1 NMAC)
- C. The permittee shall submit reports of all deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. These reports shall be submitted as follows:
- (1) Deviations resulting in excess emissions as defined in 20.2.7.7 NMAC (including those classified as emergencies as defined in section B114.A) shall be reported in accordance with the timelines specified by 20.2.7.110 NMAC and in the semi-annual reports required in section A109. (20.270.302.E.2 NMAC)
- (2) All other deviations shall be reported in the semi-annual reports required in section A109. (20.2.70.302.E.2 NMAC).
- D. The permittee shall submit reports of excess emissions in accordance with 20.2.7.110.A NMAC.
- E. Results of emission tests and monitoring for each pollutant (except opacity) shall be reported in pounds per hour (unless otherwise specified) and tons per year. Opacity shall be reported in percent. The number of significant figures corresponding to the full accuracy inherent in the testing instrument or Method test used to obtain the data shall be used to calculate and report test results in accordance with 20.2.1.116.B and C NMAC. Upon request by the Department, CEMS and other tabular data shall be submitted in editable, MS Excel format.
- F. At such time as new units are installed as authorized by the applicable NSR Permit, the permittee shall fulfill the notification requirements in the NSR permit.
- G. Periodic Emissions Test Reporting: The permittee shall report semi-annually a summary of the test results.
- H. The permittee shall submit an emissions inventory for this facility annually. The emissions inventory shall be submitted by the later of April 1 or within 90 days after the Department makes such request. (20.2.73 NMAC and 20.2.70.302.A.1 NMAC)
- I. Emissions trading within a facility (20.2.70.302.H.2 NMAC)
- (1) For each such change, the permittee shall provide written notification to the department and the administrator at least seven (7) days in advance of the proposed changes. Such notification shall state when the change will occur and shall describe the changes in emissions that will result and how these increases and decreases in emissions will comply with the terms and conditions of the permit.
- (2) The permittee and department shall attach each such notice to their copy of the relevant permit.

# **Unit Specific Monitoring Reports:**

# <u>Fuel Requirements – Asphalt Production</u> Asphalt Plant Combustion Sources A605

A. Aspnait Plant Combustion Sources				
<b>Requirement:</b> Combustion sources located at the asphalt plant shall only use propane as fuel.				
Monitoring: N/A				
<b>Recordkeeping:</b> The permittee shall maintain records in accordance with Section B109.				
<b>Reporting:</b> The permittee shall submit reports described in Section A109 and in accordance with Section B110.				
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.				
☐ Yes Date report submitted: Tracking Number:				
No Provide comments and identify any supporting documentation as an attachment.				
Comments:				
Propane was the only fuel used at the Asphalt Plant during this reporting period. No other fuel is currently available at this location. All equipment that combusts fuel at the Asphalt Plant is currently designed to combust Propane only.				
Records are maintained in accordance with Section B109.				
A109.A: The semi-annual monitoring report submitted during this reporting period was submitted within the allowed 45 days. This report was for the period July through December 2012 (submitted on February 12, 2013).				
A109.B: The semi-annual emissions report submitted during this reporting period was submitted within the allowed 90 days. This report was for the period July through December 2012 (submitted on March 26, 2013). The report included a comparison of actual emissions with the allowable emission limits.				
A109.C: The 2012 Annual Compliance Certification Report was submitted to NMED-AQB and EPA within 30 days of the end of the 12-month reporting period. The report was submitted to NMED and EPA on January 25, 2013.				
All reporting requirements are completed and submitted in accordance with Section B110.				

# A607 Asphalt Production - Other

A. Asphalt Plant Baghouse – Differential Pressure

**Requirement:** The baghouse shall be equipped with a device to continually measure the pressure drop across the baghouse.

**Monitoring:** The permittee shall monitor the differential pressure (inches of water) across the filters by the use of a differential pressure gauge. Pressure gauge readings and the time period the rotary dryer drum operates shall be recorded by a datalogger each time the rotary dryer drum is operating. The pressure data shall confirm whether the filter(s) are operating within the unit's specifications.

**Recordkeeping:** The permittee shall maintain records of all baghouse differential pressure readings in accordance with Section B109.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:
⊠ No	Provide comments and identify any	supporting documentation as an attachment.

### **Comments:**

A data logger is in place that monitors the differential pressure across the filters and rotary dryer drum operation. The data is used to confirm proper operation of the baghouse. Recordkeeping conditions are met using the datalogger. The differential pressure readings recorded by the datalogger are provided in **ATTACHMENT A607.A.** 

Records are maintained in accordance with Section B109.

# B. Asphalt Plant Baghouse - Stack Height (Unit TA-60-BDM)

<b>Requirement:</b> The rotary dryer/baghouse exhaust stack shall be no less than 10 meters in height.
Monitoring: N/A
<b>Recordkeeping:</b> The permittee shall maintain records in accordance with Section B109.
<b>Reporting:</b> The permittee shall submit reports described in Section A109 and in accordance with Section B110.
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.
☐ Yes Date report submitted: Tracking Number:
☐ Yes       Date report submitted:       Tracking Number:         ☑ No       Provide comments and identify any supporting documentation as an attachment.
No Provide comments and identify any supporting documentation as an attachment.
No Provide comments and identify any supporting documentation as an attachment.  Comments:  The height of the asphalt plant stack has been measured and is no less than 10 meters. The stack is a

# C. Asphalt Plant Baghouse – Opacity

**Requirement:** Visible emissions from the rotary dryer/baghouse exhaust stack shall not exhibit an opacity of 20% or greater averaged over a (6) minute period. Monitoring: The permittee shall perform six (6) minute opacity readings on the rotary dryer/baghouse stack at least once per month. The observations shall be conducted according to 40 CFR 60, Appendix A, Method 9. Recordkeeping: The permittee shall maintain records of all opacity observations and in accordance with Section B109. Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110. Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below. ☐ Yes **Date report submitted: Tracking Number:** ⊠ No Provide comments and identify any supporting documentation as an attachment. **Comments:** LANL has certified visible emission (opacity) readers on-site who perform monthly six minute readings using 40 CFR Part 60, Appendix A, Reference Method 9 to determine compliance with the opacity limitation. No visible emissions exhibited an opacity of 20% or greater during this reporting period. The plant did not operate during March 2013. Therefore no opacity readings were taken during March. Method 9 opacity reports are provided in ATTACHMENT A607.C. Records are maintained in accordance with Section B109. Emission and monitoring reports are submitted on a 6-month basis and compliance certification on an annual basis in accordance with permit condition A109 and B110. For more information, see comments in Section A605 of this report.

# D. Asphalt Plant Baghouse – Fines Cleanout

<b>Requirement:</b> The permittee shall sequester or remove particulates collected by the control equipment to prevent wind-blown particulate emissions. Recycled baghouse fines shall be recycled into the drum mixer via a closed-loop system.
Monitoring: N/A
<b>Recordkeeping:</b> The permittee shall maintain records in accordance with Section B109.
<b>Reporting:</b> The permittee shall submit reports described in Section A109 and in accordance with Section B110.
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.
☐ Yes Date report submitted: Tracking Number:
☐ Yes       Date report submitted:       Tracking Number:         ☑ No       Provide comments and identify any supporting documentation as an attachment.
No Provide comments and identify any supporting documentation as an attachment.
No Provide comments and identify any supporting documentation as an attachment.  Comments:  Baghouse fines are removed from the baghouse and cyclone by use of a screw conveyor. The removed fines are recycled into the asphalt production process via a closed loop system. Visible emissions from this
No Provide comments and identify any supporting documentation as an attachment.  Comments:  Baghouse fines are removed from the baghouse and cyclone by use of a screw conveyor. The removed fines are recycled into the asphalt production process via a closed loop system. Visible emissions from this system were not observed during this reporting period.

# E. Asphalt Plant Production Rate (Unit TA-60-BDM)

<b>Requirement:</b> Production shall not exceed 13,000 tons per year.
<b>Monitoring:</b> The permittee shall monitor the total daily production rate.
<b>Recordkeeping:</b> The permittee shall calculate a weekly rolling, 12-month total production rate and maintain records in accordance with Section B109.
<b>Reporting:</b> The permittee shall submit reports described in Section A109 and in accordance with Section B110.
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.
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Yes Date report submitted: Tracking Number:
<ul> <li>✓ Yes Date report submitted: Tracking Number:</li> <li>✓ No Provide comments and identify any supporting documentation as an attachment.</li> </ul>
No Provide comments and identify any supporting documentation as an attachment.
No Provide comments and identify any supporting documentation as an attachment.  Comments:  Daily data on asphalt production is monitored on a monthly basis. The weekly rolling 12- month total is calculated and compared against the production limit set in this permit condition. Data on asphalt production is recorded daily on an operation log. The daily operation log and 12-month rolling total are
No Provide comments and identify any supporting documentation as an attachment.  Comments:  Daily data on asphalt production is monitored on a monthly basis. The weekly rolling 12- month total is calculated and compared against the production limit set in this permit condition. Data on asphalt production is recorded daily on an operation log. The daily operation log and 12-month rolling total are provided in ATTACHMENT A607.E.

# F. Asphalt Plant Operations - General

## **Requirement:** The permittee shall:

- 1) Install, operate, and maintain equipment in accordance with standard operating procedures, and
- 2) Equip and operate the asphalt processing equipment such as screens, conveyor belts, and conveyor transfer points with dust control systems to control particulate matter emissions, and
- 3) Operate the Plant in accordance with NSR Permit GCP-3-2195G, Section III, A, B, C, D, E, F, and H.
- 4) Ensure that no visible emissions from the facility are observed crossing the perimeter of the restricted area for no more than 5 minutes during any 2 consecutive hours during facility operations.

Monitoring: The permittee shall perform all monitoring required under NSR Permit GCP-3-2195G.

**Recordkeeping:** The permittee shall maintain records of all standard operating procedures, records of all maintenance and/or replacement of dust control systems, and all records required under NSR Permit GCP-3-2195G, Section IV.B, and including records of actual hours of operation, records of all required monitoring, daily and weekly total asphalt production and the weekly rolling 12 month total production, number of haul truck trips daily including materials delivery and product, frequency of haul road sweeping, and copies of the applicant's proposed maintenance requirements and records demonstrating conformance with said requirements. The permittee shall maintain records of all compliance test results for total suspended particulates (TSP), particulate matter (PM10), nitrogen oxides, carbon monoxide, and records of all opacity/visible emissions observations performed.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

# ☐ Yes Date report submitted:

**Tracking Number:** 

# ⊠ No

Provide comments and identify any supporting documentation as an attachment.

### **Comments:**

- 1) No new equipment has been installed. Operation and maintenance requirements are contained in internal plant procedures that are followed by plant operation staff.
- 2) Dust collection and control systems are in place on screens, conveyor belts, and transfer points to control particulate matter emissions.
- 3) The Asphalt Plant is operated in accordance with NSR Permit GCP-3-2195G.
- 4) Both EPA reference methods 9 and 22 are used at the plant to determine the extent of visible emissions. The asphalt plant did not emit fugitive dust that exceeded the 5 minutes of visible emissions during any 2 consecutive hours of operation.

All monitoring required under NSR Permit GCP-3-2195G was performed during this reporting period.

Recordkeeping conditions are met using the following methods: Standard operating procedures are in place and available on site. Maintenance on the plant is performed periodically and records for this reporting period are provided in **ATTACHMENTA607.F.** The plant operation log contains the start time, stop time and total

hours of operation; production amounts summed daily, weekly, and rolling 12 month total; and number of truck trips. The operation log and rolling 12 month total are provided in **ATTACHMENT A607.E.** Records located at the facility include fuel delivery tickets, frequency of road sweeping, and a procedure that outlines required maintenance.

All compliance test results have been provided to NMED and are available on site.

## G. Asphalt Plant Fugitive Dust

**Requirement:** Fugitive dust emissions from asphalt processing equipment, including the system used to recycle fabric filter fines, shall exhibit no more than five (5) minutes of visible emissions during any two consecutive hours. This condition does not apply to fugitive dust emissions from other support operations such as storage piles, front end loaders, or materials handling around the asphalt process equipment.

**Monitoring:** The permittee shall perform a Method 22 test at least once per month on all screens, conveyor drop points, and hoppers. The duration of the test shall be a minimum of ten (10) minutes. If visible emissions are observed for more than two (2) minutes, the Method 22 test shall continue for two (2) hours or until scheduled operation of the plant ends.

**Recordkeeping:** The permittee shall maintain records of all equipment standard operating procedures, records of all maintenance and/or replacement of dust control systems, results of all visible emissions observations, and all records required under NSR Permit GCP-3-2195G.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

res Date report submitted:		Yes	Date report submitted:	
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No Provide comments and identify any supporting documentation as an attachment.

### Comments:

Both EPA reference methods 9 and 22 are used at the plant to determine the extent of visible emissions. During this reporting period, the asphalt plant did not emit fugitive dust that exceeded 5 minutes of visible emissions during any 2 consecutive hours.

**Tracking Number:** 

Method 22 readings are taken at least once per month. The plant did not operate during the month of March, therefore no Method 22 readings were taken that month. The Method 22 readings for this reporting period are provided in **ATTACHMENTA607.G.** No visible emissions were observed for more than two minutes during any Method 22 test during this reporting period.

The plant standard operating procedure, maintenance and repair records, and visible emission observations are maintained on site. All other records required under the NSR permit are also available on site.

# **A707** Other – Beryllium Activities

A. Operational Requirements – Beryllium Activities

Operating Requirements	Process Limits	Control Equipment Requirements
Beryllium operations will consist of registered polishing, electroplating /chemical milling, and relocated machining, and arc melting/casting sources.	None	Polishing and electroplating /chemical milling operations shall be conducted in aqueous solution or lubricant bath.  Emissions from machining and arc melting/casting operations shall be exhausted through a HEPA filtration system prior to entering the atmosphere.
The continuous emission monitor will be maintained in accordance with the Laboratory's quality program.	Beryllium processed by the facility will not exceed 10,000 pounds per calendar year. Beryllium processed by the facility will not exceed 1000 pounds per day.	All processes shall be exhausted through a HEPA filtration system prior to entering the atmosphere.  Powder operations, other than closed glovebox operations, and machining operations, other than the processes used in metallographic preparation shall be exhausted through a cartridge filtration system then through the HEPA filtration system.  Metallographic preparation activities shall be conducted in lubricating baths or equivalent.
Beryllium operations will consist of only beryllium machining and associated cleanup activities.	None	All processes shall be exhausted through a HEPA filtration system prior to entering the atmosphere.
Regulated beryllium activities will be ducted through the pollution control equipment and out the north or south stack of PF-4. (NSR Permit 1081-M1-R3, Specific Condition 1.b., partial, revised) The electric furnace shall be enclosed in a glove box, have a maximum operating temperature of 1600 degrees centigrade, and an inside volume space less than 1.1 cubic feet. (NSR Permit 1081-M1-R6,	44 pounds of beryllium (20 kg) in any 24 hour period; 1100 pounds/year (500 kg/year) using a rolling total. (NSR Permit 1081- M1-R3, Specific Condition 1.c.)	Weld cutting, weld dressing, metallography, and electric furnace operations shall be controlled with 4 HEPA filters with a control efficiency of 99.95% each. (NSR Permit 1081-M1-R1, Condition 3, partial, revised)  The non-accessible filters shall be replaced when the pressure drop across the filter either falls to levels indicating filter breakthrough or increases to levels indicative of excessive loading. (NSR Permit 1081-M1-R1, Condition 3, partial, revised)
	consist of registered polishing, electroplating /chemical milling, and relocated machining, and arc melting/casting sources.  The continuous emission monitor will be maintained in accordance with the Laboratory's quality program.  Beryllium operations will consist of only beryllium machining and associated cleanup activities.  Regulated beryllium activities will be ducted through the pollution control equipment and out the north or south stack of PF-4.  (NSR Permit 1081-M1-R3, Specific Condition 1.b., partial, revised)  The electric furnace shall be enclosed in a glove box, have a maximum operating temperature of 1600 degrees centigrade, and an inside volume space less than 1.1 cubic feet.	consist of registered polishing, electroplating /chemical milling, and relocated machining, and arc melting/casting sources.  The continuous emission monitor will be maintained in accordance with the Laboratory's quality program.  Beryllium processed by the facility will not exceed 10,000 pounds per calendar year. Beryllium processed by the facility will not exceed 1000 pounds per day.  Beryllium operations will consist of only beryllium machining and associated cleanup activities.  Regulated beryllium activities will be ducted through the pollution control equipment and out the north or south stack of PF-4.  (NSR Permit 1081-M1-R3, Specific Condition 1.b., partial, revised)  The electric furnace shall be enclosed in a glove box, have a maximum operating temperature of 1600 degrees centigrade, and an inside volume space less than 1.1 cubic feet.  (NSR Permit 1081-M1-R6, Specific Condition 1.d., partial,

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

# ☐ Yes Date report submitted:

# Tracking Number:

# No Provide comments and identify any supporting documentation as an attachment.

# **Comments:**

TA-3-66 - Emissions from machining and arc melt/casting operations are exhausted through a HEPA filtration system prior to entering the atmosphere. Polishing and electroplating/ chemical milling operations are conducted in aqueous solution or lubricant bath.

TA-3-141 - The continuous emission monitor is maintained in accordance with the Laboratory's quality program. No process limits were exceeded during this certification period.

All processes are exhausted through a HEPA filtration system prior to entering the atmosphere. Powder operations, other than closed glovebox operations, and machining operations, other than metallographic preparation, are exhausted through a cartridge filtration system then through HEPA filtration. Metallographic preparation activities are conducted in lubricating baths or equivalent.

TA-35-213 - All processes are exhausted through a HEPA filtration system prior to entering the atmosphere.

TA-55-PF4 - All beryllium activities are ducted through the facility's pollution control equipment and out the north or south stack of PF-4. Weld cutting, weld dressing, and metallography operations are controlled using 4 HEPA filters with a control efficiency of 99.95% each. The non-accessible filter is replaced when the pressure differential across the filter indicates breakthrough or excessive loading.

No process limits were exceeded during this reporting period.

The electric furnace did not operate during this reporting period.

# B. Emissions Monitoring Requirements – Beryllium Activities

Source	Monitoring Requirements
Sigma Facility	A log shall be maintained during operations, which shows the number of
TA-3-66	metallographic specimens used in the polishing operation and the weight or volume
	of Be samples processed in the electroplating/chemical milling, machining, and arc
	melting/casting operations.
Beryllium	Facility exhaust stack will be equipped with a continuous emission monitor used to
Technology	measure beryllium emissions.
Facility	
TA-3-141	Cartridge and HEPA filters shall be equipped with differential pressure gauges that
	measure the differential pressure across the cartridge and HEPA filters while the
	exhaust fans are in operation.
Target Fabrication	Records of the stack emission test results (see Condition 2 of NSR Permit No. 632)
Facility	and other data needed to determine total emissions shall be retained at the source
TA-35-213	and made available for inspection by the Department.
Plutonium Facility	The HEPA filtration systems shall be equipped with a differential pressure gauge
TA-55-PF4	that measures the differential pressure (inches of water) across the HEPA filters
	while the exhaust fans are in operation.
	-
	(NSR Permit 1081-M1-R3, Condition 11)
	Control efficiency shall be verified by daily HEPA filter pressure drop tests and
	annual HEPA filter challenge tests of accessible filters.
	(NSR Permit 1081-M1-R1, Condition 3, partial, revised)
	The furnace temperature shall be continuously monitored and the flow rate from
	the glove box containing the furnace shall be measured once during each metal
	melt operation.
	(NSR Permit 1081-M1-R6, Condition 11, revised)
	(115)C 1 CHIIII 1001-W11-ICO, COHOIHOH 11, Tevised)

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

# ☐ Yes Date report submitted: Tracking Number: ☑ No Provide comments and identify any supporting documentation as an attachment.

### **Comments:**

TA-3-66 – Log books are maintained for monitoring the number of metallographic specimens used in the polishing operation and the weight or volume of samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations. Logs are included in **ATTACHMENT A707.B.a.** 

TA-3-141 – The exhaust stack has a built-in sampling system used to continuously sample beryllium emissions. Cartridge and HEPA filters are equipped with differential pressure gauges that measure differential pressure when exhaust fans are in operation.

TA-35-213 - A copy of stack emission test results as well as other data needed to determine total emissions are

retained at the source and are available for inspection. Beryllium processing logs are included in **ATTACHMENT A707.B.b.** 

TA-55-PF4 – The HEPA filtration system contains a differential pressure gauge that measures differential pressure across the HEPA filters while the exhaust fans are in operation. The control efficiency is verified by daily HEPA filter pressure drop tests.

Annual HEPA filter challenge tests are performed to verify filter control efficiency.

The electric furnace did not operate during this certification period.

# C. Recordkeeping Requirements – Beryllium Activities

Source	Recordkeeping Requirements
Sigma Facility	Recordkeeping for this source is specified in Condition A707.B.
TA-3-66	
Beryllium	Generate and maintain beryllium inventory records to demonstrate
Technology	compliance with the 10,000 pounds of beryllium per calendar year and
Facility	the 1000 pounds of beryllium per day processing limit.
TA-3-141	
	Record pressure drop across the cartridge and HEPA filters once per
	day that the exhaust fans are in operation and the facility is occupied.
	Record control equipment maintenance and repair activities.
Target Fabrication	Recordkeeping for this source is specified in Condition A707.B.
Facility	
TA-35-213	
Plutonium Facility	Stack emission test results and facility operating parameters including
TA-55-PF4	a daily record of the pressure drop measured across each appropriate
14-33-114	HEPA plenum filtration stage, when the exhaust fans are operating.
	(NSR Permit 1081-M1-R3, Condition 9, partial, revised)
	(NSK Ferrint 1001-W11-K5, Condition 9, partial, revised)
	A copy of the annual HEPA test, a log of the daily pressure drop
	readings and a control equipment maintenance log shall be kept. This
	documentation shall be provided upon request.
	(NSR Permit 1081-M1-R1, Condition 3, partial, revised)
	(INSK Fermit 1061-W11-K1, Condition 3, partial, revised)
	A log of the filter replacement shall be kept and shall be made
	available to the Department personnel upon request.
	(NSR Permit 1081-M1-R1, Condition 3, partial, revised)
	The permittee shall keep records of the number and weight of
	classified parts processed during a 24-hour period and year using a
	rolling total. Records shall be made available to properly cleared
	Department personnel upon request.
	(NSR Permit 1081-M1-R3, Condition 9, partial, revised)
	The permittee shall for each use of the furnace record the following
	operating parameters:
	metal type, theoretical melting point of the metal, metal melt duration
	once melting is commenced, maximum furnace temperature and glove
	box flow rate. (NSB Powerit 1081 M1 B6 Condition 0, portiol revised)
	(NSR Permit 1081-M1-R6, Condition 9, partial, revised)
	A record of the furnace's internal volume shall be maintained at the
	facility.
	(NSR Permit 1081-M1-R6, Condition 9, partial, revised)
	(135K 1 Gillit 1001-1911-10), Colldition 9, partial, (Cvisca)
es this raporting requirement	have met during this reporting period with a separate report submittal?
is this reporting requirement is swer Yes or No below.	been met during this reporting period with a separate report submittal?
is well tes of the uclow.	
Yes Date report submitte	ed: Tracking Number:

# No Provide comments and identify any supporting documentation as an attachment.

### **Comments:**

TA-3-66 – Recordkeeping for this source is specified in condition A707.B.

TA-3-141– Inventory records are maintained to demonstrate compliance with beryllium process limits. Records of pressure drop across the cartridge and HEPA filters are performed daily when the exhaust fans are in operation and the facility is occupied. In the reporting period, beryllium operations were shutdown from April 1 to May 13, 2013. Control equipment maintenance and repair activities are recorded. HEPA filter differential pressure readings are included in **ATTACHMENT A707.C.a.** 

TA-35-213 – Recordkeeping for this source is specified in condition A707.B.

TA-55-PF4 – A copy of the stack emission test results are retained at the source and available for inspection. HEPA filter challenge tests are performed annually. No challenge tests were performed during this reporting period. Daily differential pressure readings are provided in **ATTACHMENT A707.C.b.** Filter replacement and control equipment maintenance and repair records are kept and available on site for inspection. Process records are available that contain the number and weight of classified parts processed during a 24-hour period and annual rolling total.

The electric furnace did not operate during this reporting period.

# D. Reporting Requirements – Beryllium Activities

Source	Reporting Requirements
Sigma Facility	The permittee shall report in accordance with Conditions A109
TA-3-66	A109.C, and Section B110.
Beryllium	Anticipated date of initial startup of each new or modified source not
Technology	less than thirty (30) days prior to the date.
Facility TA-3-141	Actual date of initial startup of each new or modified source within
1A-3-141	fifteen (15) days after the startup date.
	inteen (13) days after the startup date.
	Provide the date when each new or modified emission source reaches
	the maximum production rate at which it will operate within fifteen
	(15) days after that date.
	National Description of the Control
	Notify the Department within 60 days after each calendar quarter of
	the facility's compliance status with the permitted emission rate from
	the continuous monitoring system.
	Provide any data generated by activities described in the Quality
	Assurance Project Plan (QAPP) that will assist the Air Quality
	Bureau's Enforcement Section in determining the reliability of the
	methodology used for demonstrating compliance with the permitted
	emission rate within 45 days of such a request.
	The permittee shall submit reports described in Section A109 and in
	accordance with Section B110.
Target Fabrication	The permittee shall submit reports described in Section A109 and in
Facility	accordance with Section
TA-35-213	B110.
Plutonium Facility	Stack emission test results and facility operating parameters will be
TA-55-PF4	made available to Department personnel upon request.
	Reports may be required to be submitted to the Department if
	inspections of the source indicate noncompliance with this permit or
	a means of determining compliance.
	The permittee shall submit reports described in Section A109 and in
	accordance with Section B110.
s reporting requirement	been met during this reporting period with a separate report submittal?
r Yes or No below.	been filet during this reporting period with a separate report submittar:
	ed: 01/25/2013 & 04/25/2013 Tracking Number:
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	and identify any supporting documentation as an attachment.
ents:	
rullium Courage Danor	ts are submitted in accordance with permit conditions A109 and B110. For

more information, see Section A605 in this report.

TA-3-141 Quarterly beryllium reports, containing continuous monitoring system data from the Beryllium Technology Facility, are also submitted to NMED. Reports during this reporting period were submitted within 60 days following each calendar quarter. The reports were submitted on January 25, 2013 and April 25, 2013 for this reporting period (January 1, 2013 to June 30, 2013).

# A805 Fuel Sulfur Requirements – External Combustion

A. All Boilers and Heaters (except Units CMRR-BHW-1 through -4)

Requirement: All boilers and heaters, except Units CMRR-BHW-1 through -4 and the Power Plant addressed in Section A1300 shall combust only natural gas containing no more than 2 grains of total sulfur per 100 dry standard cubic feet. Monitoring: None. **Recordkeeping:** The permittee shall demonstrate compliance with the natural gas limit on total sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, or fuel gas analysis, specifying the allowable limit or less. If fuel gas analysis is used, the analysis shall not be older than **one year**. Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110. Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below. ☐ Yes **Date report submitted: Tracking Number:** No No Provide comments and identify any supporting documentation as an attachment. **Comments:** A natural gas transportation contract is in place and states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf. Language on gas quality from the transportation contract is provided in ATTACHMENT A805.A.

## B. Units CMRR-BHW-1 through -4

**Requirement:** Units CMRR-BHW-1 through -4 shall combust either natural gas containing no more than 2.0 grains of total sulfur per 100 dry standard cubic feet or No. 2 fuel oil containing no more than 0.5 wt% total sulfur. (NSR Permit 2195N, Specific Condition 1.b., partial, revised, Specific Condition 1.h., and 40 CFR 60.42c(d))

Monitoring: None.

**Recordkeeping:** The permittee shall demonstrate compliance with the natural gas limit and/or fuel oil limit on total sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the gaseous or liquid fuel, or fuel analysis, specifying the allowable limit or less. If a fuel analysis is used, the analysis shall not be older than one year. (NSR Permit 2195N, Specific Condition 3.b., revised; 40 CFR 60.48c(e)(11); and 40 CFR 60.48c(g)(2)). Alternatively, compliance may be demonstrated by keeping a receipt or invoice from a commercial fuel supplier with each fuel delivery, which shall include the delivery date, the fuel type delivered, and amount of fuel delivered, and the maximum sulfur content of the fuel.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes Date report submitted:

**Tracking Number:** 

No Comments:

A natural gas transportation contract is in place and states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf. Language on gas quality from the transportation contract is provided in **ATTACHMENT A805.A** 

Provide comments and identify any supporting documentation as an attachment.

All fuel oil purchased will have a sulfur content less than or equal to 0.05% sulfur by weight. Delivery receipts are kept and identify the fuel oil as ultra low sulfur diesel or ULSD.

There were no fuel oil deliveries during this reporting period.

# A806 20.2.61 NMAC Opacity – External Combustion A. All Boilers and Heaters (except Units CMRR-BHW-1 through -4)

**Requirement:** Exhaust emissions from any external combustion source shall not exceed 20% opacity averaged over a 10-minute period.

**Monitoring:** Use of natural gas fuel meeting the requirement at Condition A805.A constitutes compliance with 20.2.61 NMAC unless opacity exceeds 20% averaged over a 10-minute period. When any visible emissions are observed during steady state operation and are determined to be not due to condensed water vapor only, opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC.

**Recordkeeping:** The permittee shall record dates of any opacity measurements and the corresponding opacity readings.

**Reporting:** The permittee shall report dates of any opacity measurements and the corresponding opacity readings. The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:	
⊠ No	Provide comments and identify any supporting documentation as an attachment.		

### **Comments:**

LANL has certified visible emission readers on-site who perform observations using 40 CFR 60, Appendix A, Method 9 to determine compliance with the opacity limitation. Opacity did not meet or exceed 20% over a 10-minute period and no visible emissions were observed during steady state operations during this reporting period.

The natural gas combusted by all boilers at LANL meets the requirement at Condition 805.A.

Opacity did not meet or exceed 20% over a 10-minute period, and no visible emissions were observed during steady state operations during this certification period.

A standard form is used for all opacity measurements. The form includes the date of measurement and opacity observed. No opacity readings were needed or required during this reporting period.

## B. Units CMRR-BHW-1 through -4: Natural Gas-Fired

**Requirement:** Exhaust emissions from any external combustion source shall not exceed 20% opacity averaged over a 10-minute period.

**Monitoring:** Use of natural gas fuel meeting the requirement at Condition A805.A constitutes compliance with 20.2.61 NMAC unless opacity exceeds 20% averaged over a 10-minute period. When any visible emissions are observed during steady state operation and are determined to be not due to condensed water vapor only, opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC.

**Recordkeeping:** The permittee shall record dates of any opacity measurements and the corresponding opacity readings.

**Reporting:** The permittee shall report dates of any opacity measurements and the corresponding opacity readings. The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Numbe

No Provide comments and identify any supporting documentation as an attachment.

## **Comments:**

LANL has certified visible emission readers on-site who perform observations using 40 CFR 60, Appendix A, Method 9 to determine compliance with the opacity limitation. Opacity did not meet or exceed 20% over a 10-minute period and no visible emissions were observed during steady state operations during this reporting period.

The natural gas used by these units meets the requirement of Condition A805.A.

A standard form is used for all opacity measurements. The form includes the date of measurement and opacity observed. No opacity readings were needed or required during this reporting period.

## C. Units CMRR-BHW-1 through -4: Fuel Oil-Fired

**Requirement:** Exhaust emissions from any external combustion source shall not exceed 20% opacity averaged over a 10-minute period.

**Monitoring:** The permittee shall perform a least one (1) opacity observation each day that fuel oil is used to fire any of Units CMRR-BHW-1 through -4. Opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC. (NSR Permit 2195N, Specific Condition 3.c., revised)

**Recordkeeping:** The permittee shall record dates of any opacity measurements and the corresponding opacity readings. (NSR Permit 2195N, Specific Condition 4.b., revised)

**Reporting:** The permittee shall report dates of any opacity measurements and the corresponding opacity readings. The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

Yes Date report submitt	ted:
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Tracking Number:

⊠ No

Provide comments and identify any supporting documentation as an attachment.

# **Comments:**

LANL has certified visible emission readers on-site who perform observations using 40 CFR 60, Appendix A, Method 9 to determine compliance with the opacity limitation. Visible emissions did not equal or exceed 20% opacity during this reporting period.

An opacity observation is taken each day fuel oil is used.

A standard form is used for all opacity measurements. The form includes the date of measurement and opacity observed.

Copies of Opacity readings are included in ATTACHMENT A806.C.

### **A807 Other – External Combustion**

A. Natural Gas Fuel Usage (Sources listed in Table 800.A except CMRR-BHW-1 through -4)

**Requirement:** The combined natural gas fuel usage shall be limited to 870 MMscf/y. This limitation shall apply to all boilers and heaters listed in Table 800.A **except** Units CMRR-BHW-1 through -4, but including all other boilers and heaters at the Facility that qualify as Title V Insignificant Activities.

**Monitoring:** The permittee shall monitor the monthly total volumetric flow of natural gas to Units TA-55-6-BHW-1 and TA-55-6-BHW-2 through use of a totalizing flow meter.

## **Recordkeeping:** The permittee shall:

- 1) Calculate the monthly rolling 12-month total natural gas fuel usage for the emission units listed in Table 800.A **except** Units CMRR-BHW-1 through -4.
- 2) Calculate the actual emissions rate for the emission units listed in Table 800.A except Units CMRRBHW-1 through -4. The calculation shall be based on the actual fuel usage of Units equipped with individual flow meters and the Facility-Wide metered or estimated natural gas usage.
- 3) Calculate the semiannual and annual total emissions rate (tons/year) for this source category and compare them to the emission limits in Table 802.A. The permittee shall maintain records in accordance with Section B109.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:	

## No Provide comments and identify any supporting documentation as an attachment.

### **Comments:**

For units listed under this permit condition, a 12-month rolling total of natural gas used is calculated and recorded each month. The rolling total is compared to the fuel use limit each month. Natural gas usage limits were not exceeded during this reporting period. Natural gas usage and rolling total are provided in **ATTACHMENT A807.A.** 

Units TA-55-6-BHW-1 and TA-55-6-BHW2 have volumetric flow meters in place and are used to monitor monthly natural gas use. Fuel use information for the TA-55 units listed in this condition is available in **ATTACHMENT A807.A.** 

The actual emission rate is calculated for the units listed in Table 800.A. This calculation uses actual fuel use data from individual unit flow meters and facility wide metered natural gas. The emission rate is calculated every 6 months and annually for this source category and compared to the limits. Records are maintained in accordance with Section B109.

## B. Natural Gas and Fuel Oil Usage (Units CMRR-BHW-1 through -4)

**Requirement:** The permittee shall comply with the emission limits in Table 802.B for each fuel type.

**Monitoring:** The permittee shall:

- 1) Monitor the monthly total volumetric flow of natural gas to Units CMRR-BHW-1 through -4 using a totalizing flow meter. (NSR Permit 2195N, Specific Condition 3.a., partial, revised and 40 CFR 60.48c(g)(2))
- 2) Monitor the daily fuel oil consumption during which any of the 4 CMRR boilers are fired with this fuel type. (NSR Permit 2195N, Specific Condition 3.a, partial, revised)
- 3) Monitor the hours of operation for each boiler when fired on fuel oil and during non-emergency maintenance and readiness testing.

### **Recordkeeping:** The permittee shall:

- 1) Calculate and record the annual fuel oil usage for Units CMRR-BHW-1 through -4 as a daily rolling 365-day total. (NSR Permit 2195N, Specific Condition 1.c., partial, revised)
- 2) Calculate and record the semiannual and calendar year total emissions rate (tons/year) for each fuel type and for the combination of both fuels compare to the emission limits in Table 802.B.
- 3) Record the annual hours of operation of each boiler when fired on fuel oil during non-emergency maintenance and readiness testing and compare to the limitation at Condition A804.B.
- 4) The permittee shall maintain records in accordance with Section B109.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

			_
☐ Yes	Date report submitted:	Tracking Number:	
⊠ No	Provide comments and identify a	ny supporting documentation as an attachment.	
<u> </u>			_

### Comments:

The initial compliance test was used to show compliance with the emission limits. All concentrations and emission rates were below permitted limits. Vendor data is also used to determine compliance with emission limits.

A totalizing flow meter is in place and measures natural gas used by the CMRR-RLUOB boilers. The fuel use data is provided in **ATTACHMENT A807.A** 

Daily fuel oil consumption is monitored using meters located on each boiler. The fuel use readings are monitored by facility personnel. Fuel oil use data is provided in **ATTACHMENT A807.A**.

The hours of operation of each boiler are recorded by facility personnel each time a boiler is run on fuel oil. The purpose for running the boiler is also monitored. Annual fuel oil usage is recorded on a 365-day rolling total. Hours of operation on fuel oil is included in **ATTACHMENT A807.A**.

The emissions rate is calculated on a 6-month and annual basis for each fuel type and for both fuels combined. Emissions are compared to limits. This data is provided to NMED in accordance with Permit condition A109.

Annual hours of operation for each boiler are recorded when fired on fuel oil during non-emergency use.

The total hours are compared to the hour limit in condition A804.B.

Records are maintained in accordance with condition B109.

C. 40 CFR 60, Subpart Dc (Units TA-55-6-BHW-1, TA-55-6-BHW-2, CMRR-BHW-1 through -4)

**Requirement:** Units TA-55-6-BHW-1, TA-55-6-BHW-2, CMRR-BHW-1 through -4 are subject to 40 CFR 60, Subparts A and Dc, including the initial notification requirements of Subpart A and the specific requirements of Subpart Dc.

**Monitoring:** The permittee shall perform all monitoring required by 40 CFR 60, Subparts A and Dc, including (but not limited to) 40 CFR 60.47c.

**Recordkeeping:** The permittee shall maintain all records required 40 CFR 60, Subparts A and Dc, including (but not limited to) those specified by 40 CFR 60.48c(f)(1), (g), and (i). (NSR Permit 2195N, Specific Condition 4.a., revised)

## **Reporting:** The permittee shall:

- 1) Submit reports described in Section A109 and in accordance with Section B110.
- 2) Submit reports as required by 40 CFR 60, Subparts A and Dc, including (but not limited to) those required by 40 CFR 60.48c(a)(1) (3) and 40 CFR 60.48c(d), (e)(11), (f)(1), and (j). (NSR Permit 2195N, Specific Condition 4.a., revised)

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes Date report submitted:

**Tracking Number:** 

No Provide comments and identify any supporting documentation as an attachment.

### **Comments:**

Units TA-55-6-BHW-1, TA-55-6-BHW-2, and CMRR-BHW-1 through -4 meet the requirements of 40 CFR Part 60, Subparts A and Dc. Notification requirements were met through source startup notifications and initial permit applications. Fuel sulfur requirements and tracking are addressed in a fuel oil purchase contract, delivery receipts, and the natural gas transportation contract (see attachment A805.A). Note that no fuel oil was purchased during this reporting period.

Fuel sulfur content and fuel use records are maintained on site for at least 5 years as required by the operating permit.

## D. Initial Compliance Testing (Units CMRR-1 through -4)

**Requirement:** Initial compliance tests are required for each boiler, Units CMRR-BHW-1 through -4. The tests shall be conducted for NOx and CO for each fuel type. Tests shall be conducted for TSP, PM10, and PM2.5 for fuel oil use only. (NSR Permit 2195N, Specific Condition 6.a., partial, revised)

**Monitoring:** Compliance testing shall be conducted in accordance with Section B111. The reference to initial startup of the source at B111.A(2) shall be defined as initial startup for each fuel type; compliance testing on fuel oil in accordance with B111 is not required until after the source has achieved startup on fuel oil.

**Recordkeeping:** The permittee shall maintain records in accordance with Section B109.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:

No Provide comments and identify any supporting documentation as an attachment.

### **Comments:**

The initial compliance tests for units CMRR-BHW-1 through -3 were conducted on January 18-19, 2012. These tests were conducted using natural gas only. A permit revision was made to the NSR permit to remove the requirement to test using fuel oil. Fuel oil is an emergency fuel and will rarely be used. The revised condition can be found in specific condition 6.a of NSR permit 2195N-R2. This revised condition will be included in the next operating permit renewal.

Unit CMRR-BHW-4 has not been installed.

The compliance tests performed as stated above were conducted in accordance with Section B111 of the operating permit.

The compliance test records are in accordance with Section B109.

#### A907 Other - Chemical Usage

A. Emission calculations (Unit LANL-FW-CHEM)

**Requirement:** The permittee shall comply with the facility-wide VOC and HAP emission limits at Table 106.B.

**Monitoring:** The permittee shall monitor facility-wide chemical purchasing and site location using an electronic chemical tracking system. The quantity of chemicals that are vented to the atmosphere shall be estimated on a semi-annual basis, and categorized as VOC, HAP, or a combination of these categories.

**Recordkeeping:** The permittee shall record the quantity of total VOC emitted and the quantity of each individual and total HAPs on a semi-annual basis. These records shall be maintained in accordance with Section B109.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110. With respect to individual HAPs, reports shall include any HAP emitted in a quantity greater than 0.5 tons per year.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

## No Provide comments and identify any supporting documentation as an attachment.

#### **Comments:**

Facility wide emissions did not exceed the VOC or HAP emission limits listed in Table 106.B.

Facility wide chemical purchase records are collected in LANL's ChemLog database and used to calculate emissions. Chemical emission information is submitted to NMED every 6-months in accordance with permit condition A109.B. The Semi-Annual Emission Report for this reporting period was submitted to NMED on March 27, 2013. Records of chemical purchases are provided in **ATTACHMENT A907.A.** 

Facility wide VOC and HAP emissions are calculated, recorded, and reported on a 6-month basis in accordance with permit condition A109.B, B109, and B110. The semi-annual emission report includes individual HAPs emitted in a quantity greater than 0.5 tons per year.

## B. Emission calculations (Unit CMRR-CHEM)

**Requirement:** The permittee shall comply with the source-specific VOC emission limit at Table 902.A and the facility-wide VOC and HAP emission limits at Table 106.B. (NSR Permit 2195N, Specific Condition 2.a., revised)

**Monitoring:** The permittee shall monitor chemical purchasing for the CMRR-CHEM facility using an electronic chemical tracking system. The quantity of chemicals that are vented to the atmosphere shall be estimated on a monthly basis, and categorized as VOC, HAP, TAP, or a combination of these categories. (NSR Permit 2195N, Specific Condition 4.c., revised)

**Recordkeeping:** The permittee shall record the quantity of total VOC and TAP, each individual HAP, and the total HAPs emitted on a monthly rolling, 12-month total basis. These records shall be maintained in accordance with Section B109. (NSR Permit 2195N, Specific Condition 4.c., revised)

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110. With respect to individual HAPs, reports shall include any HAP emitted in a quantity greater than 0.5 tons per year.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

**☐** Yes **Date report submitted:** 

**Tracking Number:** 

No Provide comments and identify any supporting documentation as an attachment.

#### **Comments:**

The CMRR-RLUOB facility laboratory activities are not yet operational and the facility did not use chemicals in the laboratory portion during this reporting period.

Facility wide chemical purchase records are collected in LANL's ChemLog database and will be used to estimate emissions for unit CMRR-CHEM. Chemical emissions will be estimated monthly and categorized as VOC, HAP, TAP, or a combination of these.

A monthly total VOC, HAP, and TAP emissions will be recorded each month and in a 12-month rolling total. Records are maintained in accordance with Section B109.

Emission and monitoring reports are submitted on a 6-month basis and compliance certification on an annual basis in accordance with permit condition A109 and B110. The semi-annual emission report includes individual HAPs emitted in a quantity greater than 0.5 tons per year. For more information, see comments in Section A605 of this report.

#### A1007 Other - Degreasers

A. Operational Requirements (Degreasers)

**Requirement:** The permittee shall comply with the applicable requirements according to 40 CFR 63, Subpart T, including, but not limited to:

- 1) Ensure the degreaser is closed with a tight fitting cover whenever not in use, and
- 2) Maintain a freeboard ratio of 0.75 or greater, and
- 3) Collect and store all waste solvent and wipe rags in closed containers, and
- 4) Perform flushing within the freeboard area only, and
- 5) Allow cleaned parts to drip for 15 seconds or until dripping stops, and
- 6) Do not exceed the fill line on the solvent level, and
- 7) Wipe up spills immediately, and
- 8) Do not create observable splashing with agitation device, and
- 9) Ensure that the degreaser is not exposed to drafts greater than 40 meters/min, and
- 10) Do not clean sponges, fabric, wood, or paper.

Monitoring: The permittee shall monitor and record the amount of solvent added to the degreaser.

## **Recordkeeping:** The permittee shall:

- 1) Calculate the actual emissions rate (pounds/month) of VOC and HAPs based on the quantity of solvent lost to evaporation on a monthly basis.
- 2) Calculate the semi-annual emissions rate (tons/year) for this source category and add to the facility wide emission rates in Table 106.B.
- 3) Maintain records of the degreaser solvent content and quantity added and work practice checklists.
- 4) The permittee shall maintain records in accordance with Section B109.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:
⊠ No	Provide comments and identify any su	opporting documentation as an attachment.

## **Comments:**

The degreaser is kept closed with a tight fitting cover when it is not being used.

A freeboard ratio of 0.75 or greater is maintained.

All waste solvent and solvent contaminated wipe rags are collected and stored in closed containers.

Flushing operations are performed only within the freeboard area.

Cleaned parts are allowed to drip for 15 seconds or until dripping stops.

The fill line has not been exceeded.

Spills are wiped up immediately.

Administrative controls are in place to prevent observable splashing with an agitation device.

The degreaser is located in a glove box with a set ventilation flow rate. Exhaust flows do not exceed 40 meters/min.

Sponges, fabric, wood, or paper are not cleaned in the degreaser.

A database is used to track the amount of degreaser solvent added, removed, and lost. This system is used to calculate emissions. The "Degreaser Solvent Usage" report for January 1, 2013 through June 30, 2013 is provided in **ATTACHMENT A1007.A.a.** 

The actual emission rate (lb/month) of VOC and HAPs is automatically calculated by the database when data is entered.

The semi-annual emissions (tpy) are also calculated by the database. These emissions are included in the facility wide totals.

Checklists for work practice standards have been completed for this reporting period. Records of solvent content and quantity added are maintained on site. A copy of the work practice checklist is provided in **ATTACHMENT A1007.A.b.** 

Records for this source category are maintained in accordance with Section B109.

A1104 Operational Limitations – Internal Combustion
A. Hours of Operation for Gensets in the Standby Generator Pool

<b>Requirement:</b> The facility Standby Generator Pool is limited to an average of 168 hrs per year per genset.
<b>Monitoring:</b> The permittee shall monitor the hours of operation or each genset that is assigned to the Standby Generator Pool.
<b>Recordkeeping:</b> The permittee shall maintain semi-annual records of the hours of operation in accordance with Section B109.
<b>Reporting:</b> The permittee shall submit reports described in Section A109 and in accordance with Section B110.
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.
☐ Yes Date report submitted: Tracking Number:
1
<ul> <li>✓ No Provide comments and identify any supporting documentation as an attachment.</li> </ul>
No Provide comments and identify any supporting documentation as an attachment.  Comments:  The limit of 168 hr/year average was not exceeded during this reporting period. Standby generator hours of operation for this reporting period are provided in ATTACHMENT A1104.A.
<ul> <li>No Provide comments and identify any supporting documentation as an attachment.</li> <li>Comments:</li> <li>The limit of 168 hr/year average was not exceeded during this reporting period. Standby generator hours of</li> </ul>
No Provide comments and identify any supporting documentation as an attachment.  Comments:  The limit of 168 hr/year average was not exceeded during this reporting period. Standby generator hours of operation for this reporting period are provided in ATTACHMENT A1104.A.  Hours of each stationary standby generator are collected and evaluated twice a year to verify that the
No Provide comments and identify any supporting documentation as an attachment.  Comments:  The limit of 168 hr/year average was not exceeded during this reporting period. Standby generator hours of operation for this reporting period are provided in ATTACHMENT A1104.A.  Hours of each stationary standby generator are collected and evaluated twice a year to verify that the average hours per year limit is not exceeded.

#### B. Hours of Operation and Emission Limits for Unit TA-33-G-1

### **Requirements:**

- 1) Unit TA-33-G-1 is limited to 12,000 kWh/day and 1,350,000 kWh/y. (NSR Permit 2195F-R3, Specific Condition 1.b., partial)
- 2) Unit TA-33-G-1 is limited to eight (8) hours of daily operation at full capacity. Operation shall occur between the hours of 7:00 AM and 5:00 PM. (NSR Permit 2195F-R3, Specific Condition 1.c.)

**Monitoring:** The permittee shall monitor the time(s) of operation each day, and the daily and monthly rolling 12-month total kilowatt-hours of operation for Unit TA-33-G-1 using a non-resettable kilowatt-hour meter. (NSR Permit 2195F-R3, Specific Condition 1.b., partial, revised)

**Recordkeeping:** The permittee shall maintain the following records and in accordance with Section B109:

- The permittee shall keep records of the time(s) of operation each day, and the daily, monthly, and the
  monthly rolling 12-month total kilowatt-hours of operation of the genset listed above, as indicated on
  the non-resettable kilowatt-hour meter. (NSR Permit 2195F-R3, Specific Condition 4.a. and 4.b.,
  revised)
- 2) The permittee shall calculate the annual emissions of all pollutants from Unit TA-33-G-1.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes Date report submitted:

**Tracking Number:** 

No Provide comments and identify any supporting documentation as an attachment.

### Comments:

TA-33-G-1 did not exceed either the daily or annual kWh limit during this reporting period. Hours of generator operation are provided in **ATTACHMENT A1104.B.** 

A run log is maintained at the generator that records start-up, shut-down, and run time. The generator did not run more than 8 hours in any one day and ran between 7am and 5pm during this reporting period.

TA-33-G-1 has a run log to track daily kWh totals and hours of operation, as well as the time operation begins and ends each day. The hour readings are collected and a 12-month rolling kWh total is calculated. The hour meter on the unit is non-resettable.

The emissions of regulated pollutants from Unit TA-33-G-1 are calculated at least annually.

#### C. Hours of Operation and Emission Limits for Units TA-33-G-2 through -4

### **Requirements:**

- 1) Units TA-33-G-2 through -4 are authorized to operate 500 hours per generator per calendar year. (NSR Permit 2195P, Specific Condition 1.b.)
- 2) Units TA-33-G-2 through -4 shall each be certified to be in compliance with applicable non-road emission standards in 40 CFR 89. (NSR Permit 2195P, Specific Condition 1.c.)

**Monitoring:** The permittee shall monitor the total hours of operation for each genset, Units TA-33-G-2 through -4, using a non-resettable hour meter.

#### **Recordkeeping:** The permittee shall:

- 1) Record the total hours operation of the gensets listed above, as indicated on the non-resettable hour meter. (NSR Permit 2195P, Specific Condition 4.a., revised)
- 2) Calculate and record the semi-annual emissions of all pollutants from each genset, Units TA-33-G-2 through -4.
- 3) Maintain a copy of the engine certification to the applicable non road emission standards in 40 CFR 89. (NSR Permit 2195P, Specific Condition 4.c.)

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

**☐** Yes **Date report submitted:** 

**Tracking Number:** 

No Provide comments and identify any supporting documentation as an attachment.

#### **Comments:**

The hour readings are collected twice a year to verify the hour limit is not being approached. The hour limits for these units were not exceeded during this reporting period. Hours of generator operation are provided in **ATTACHMENT A1104.B.** 

Certificates of compliance with applicable non-road emission standards are maintained on site.

The hour meters on these units are non-resettable.

Records of operating hours are kept and used for calculating emissions and reporting. The emissions of regulated pollutants from Units TA-33-G-2 through -4 are calculated and recorded semi-annually.

Certificates of compliance with applicable non-road emission standards are maintained on site.

#### D. Hours of Operation and Emission Limits for Units CMRR-GEN-1 through -3

**Requirements:** Units CMRR-GEN-1 through -3 are authorized to operate 100 hours per generator per calendar year for maintenance checks and readiness testing.

**Monitoring:** The permittee shall monitor the daily and calendar year total hours of operation for each genset, Units CMRR-GEN-1 through -3, using a non-resettable hour meter.

#### **Recordkeeping:** The permittee shall:

- 1) Maintain records of the total hours of operation for the gensets listed above on a semi-annual basis, as indicated on the non-resettable hour meter.
- 1) Calculate and record the annual emissions of all pollutants listed in Tables 102.A and 102.B from each genset, Units CMRR-GEN-1 through -3.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	

Tracking Number:

No Provide comments and identify any supporting documentation as an attachment.

#### **Comments:**

The hour readings are collected twice a year to verify the hour limit is not being approached. The hour limits for these units were not exceeded during this reporting period. The operating logs for the CMRR generators are provided in **ATTACHMENT A1104.D.** 

Daily and semi-annual hour readings are monitored using a non-resettable hour meter.

Records of total operating hours for these gensets are maintained on a semi-annual basis (see attachment A1104.A.).

Emissions from these gensets are calculated and recorded at least annually.

A1105 Fuel Sulfur Requirements – Internal Combustion
A. CI-RICE – Subject to RICE NESHAP Subpart ZZZZ and Non-emergency > 300 hp

<b>Requirement:</b> CI-RICE used at the facility shall combust only diesel fuel containing no more than 500 ppmw total sulfur.
Monitoring: None.
<b>Recordkeeping:</b> The permittee shall demonstrate compliance with the limit on total fuel sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the fuel, or fuel analysis, specifying the fuel grade and certification or allowable sulfur limit. If fuel analysis is used, the analysis shall not be older than <b>one year</b> . Alternatively, compliance may be demonstrated by keeping a receipt or invoice from a commercial fuel supplier with each fuel delivery, which shall include the delivery date, the fuel type delivered, and amount of fuel delivered, and the maximum sulfur content of the fuel. <b>Reporting:</b> The permittee shall submit reports described in Section A109 and in accordance with Section
B110.
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.
☐ Yes Date report submitted: Tracking Number:
No Provide comments and identify any supporting documentation as an attachment.
Comments:
Only one unit, TA-33-G-1 is subject to this Subpart ZZZZ. Only Ultra Low Sulfur Diesel (ULSD) is used in this unit. A purchase contract is in place with the Laboratory to only purchase ULSD, which is 15 ppm sulfur. A copy of the purchase contract is available on site.
Emission and monitoring reports are submitted on a 6-month basis and compliance certification on an annual basis in accordance with permit condition A109 and B110. For more information, see comments in Section A605 of this report.

## A1106 20.2.61 NMAC Opacity – Internal Combustion

A. CI-RICE

**Requirement:** All combustion units shall not exceed 20% opacity.

**Monitoring:** During steady state operation, opacity shall be measured over a 10-minute period in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC. Opacity measurements shall be conducted on a quarterly basis per calendar year as qualified by the Section B108.D monitoring provisions. This requirement excludes Insignificant and Trivial Activities.

**Recordkeeping:** The permittee shall maintain records of all Method 9 observations, and in accordance with Section B109.

**Reporting:** The permittee shall report date, time, and results of all Method 9 observations. The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:

No Provide comments and identify any supporting documentation as an attachment.

#### **Comments:**

No unit that falls under this section exceeded 20% opacity during this certification period.

Section B108.D(2) of the permit allows reduced frequency of opacity monitoring if the unit operates less than 10% of the monitoring period (calendar quarter). The applicable CI-RICE units operated less than 10% of each monitoring period (less than 219 hours each quarter) during this reporting period. If the unit operates greater than 10% of the monitoring period, the unit will have an opacity observation performed on it, otherwise an opacity observation will be performed within 5 years of the issuance date of the operating permit P100-R1-M1issued June 15, 2012 when this requirement was first included.

No Method 9 observations were performed during this reporting period.

Records are maintained in accordance with Section B109.

#### A1107 Other - Internal Combustion

A. NSPS 40 CFR 60, Subpart IIII - General Requirements.

**Requirements:** Any CI-RICE will be subject to 40 CFR 60, Subparts A and IIII if the source is constructed (ordered) and manufactured after the applicability dates in 40 CFR 60.4200 and is not otherwise exempt. Units CMRR-GEN-1 through -3 are subject to Subpart IIII according to 40 CFR 60.4200(a)(2). These engines shall comply with all requirements under Subpart IIII, including, but not limited to the following general requirements:

- 1) The permittee shall install a non-resettable hour meter if one is not already installed (40 CFR 60.4209(a)).
- 2) The permittee shall operate and maintain the stationary CI RICE and control device according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. In addition, the permittee may change only those settings that are permitted by the manufacturer (40 CFR 60.4211(a)).
- 3) Stationary CI RICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel shall use diesel fuel that meets, at a minimum, the following standards of 40 CFR 80.510(b) for nonroad diesel fuel (40 CFR 60.4207(b)):
  - a) Sulfur content.
    - (i) 15 ppm maximum for nonroad (NR) diesel fuel.
  - b) Cetane index or aromatic content, as follows:
    - (i) A minimum cetane index of 40; or
    - (ii) A maximum aromatic content of 35 volume percent.
- 4) Notifications are not required for these units according to 40 CFR 60.4214(b)(5).

Monitoring: None.

**Recordkeeping:** The permittee shall maintain the following records as applicable, all records required by 40 CFR 60, Subparts A and IIII, and in accordance with Section B109:

- 1) Compliance with Requirement 2 shall be demonstrated by maintaining records of the maintenance conducted on the affected stationary CI RICE.
- 2) Compliance with Requirement 3 shall be demonstrated by maintaining the test records, certification, or specification sheet provided by the fuel supplier.

**Reporting:** The permittee shall submit reports described in Section A109, report as required by 40 CFR 60, Subparts A and IIII, and in accordance with Section B110.

Has this reporting requirem	ent been met during	this reporting period	with a separate report su	bmittal
Answer Yes or No below.				

☐ Yes	Date report submitted:	Tracking Number:
ICS	Date report submitted.	Tracking Number.
⊠ No	Provide comments and identify any	supporting documentation as an attachment.
C		

#### **Comments:**

All units that fall under this section have a non-resettable hour meter in place.

Units CMRR-GEN-1 through -3 are new sources under Subpart ZZZZ and are required to meet the requirements of this section (NSPS 40 CFR 60, Subpart IIII). No other requirements in Subpart ZZZZ apply.

The units that fall under this section are maintained and operated according to instructions/procedures developed by the Laboratory generator maintenance staff. The maintenance instruction was developed using

manufacturer data and recommendations. The institutional generator maintenance staff are experts at maintaining generators and they are trained or certified on generator maintenance by the manufacturer. Only those settings that are permitted by the manufacturer have been or will be changed.

Only Ultra Low Sulfur Diesel (ULSD) is used in these units. A purchase contract is in place with the Laboratory to only purchase ULSD, which is 15 ppm sulfur. A copy of the purchase contract is available on site. In addition, receipt and/or invoices from fuel suppliers are kept when deliveries are made (see attachment A805.B.). Fuel purchased meets the minimum cetane requirement.

Maintenance is scheduled and performed using an internal maintenance tracking system. Records of maintenance conducted are available on site.

Records are maintained in accordance with Section B109.

Emission and monitoring reports are submitted on a 6-month basis and compliance certification on an annual basis in accordance with permit condition A109 and B110. For more information, see comments in Section A605 of this report. Reports required under 40 CFR 60, Subparts A and IIII, have been submitted.

#### B. NSPS 40 CFR 60 Subpart IIII - Emission Standards at 40 CFR 60.4205(a) and (c).

**Requirement:** Units CMRR-GEN-1 through -3 are subject to the emission standards in 40 CFR 60.4205.

Monitoring: None.

**Recordkeeping:** The permittee shall maintain the following records as applicable, all records required by 40 CFR 60, Subparts A and IIII, and in accordance with Section B109:

- 1) The permittee shall demonstrate compliance with the emission standard according to one of the methods specified in 40 CFR 60.4211(b)(1) through (5) as follows:
  - (a) The engine shall be certified according to 40 CFR part 89 or 40 CFR 94, as applicable, for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's specifications, or
  - (b) Maintain records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this Subpart, or
  - (c) Maintain records of engine manufacturer data indicating compliance with the standards, or
  - (d) Maintain records of control device vendor data indicating compliance with the standards, or
  - (e) Conduct an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable.

**Reporting:** The permittee shall submit reports described in Section A109, report as required by 40 CFR 60, Subparts A and IIII and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:
⊠ No	Provide comments and identify any	supporting documentation as an attachment.
Commente		

The engines on the units subject to this section are EPA Tier 1 certified. The certification is provided by the engine manufacturer indicating compliance with the standard.

Records are maintained in accordance with Section B109.

Emission and monitoring reports are submitted on a 6-month basis and compliance certification on an annual basis in accordance with permit condition A109 and B110. For more information, see comments in Section A605 of this report. Reports required under 40 CFR 60, Subparts A and IIII, have been submitted.

## C. RICE MACT 40 CFR 63, Subpart ZZZZ

**Requirement:** Any RICE at the facility will be subject to 40 CFR 63, Subparts A and ZZZZ if the source meets the applicability criteria in 40 CFR 63.6585 and 63.6590 and not otherwise exempt. The permittee shall comply with the notification requirements in Subpart A and the specific requirements of Subpart ZZZZ. Unit No. TA-33-G-1 is subject to this requirement and shall be in compliance with Subpart ZZZZ on or before May 3, 2014 rather than the initial compliance date specified in the subpart (from language included in P100-R1-M3 issued 4/26/13).

**Monitoring:** The permittee shall comply with all applicable monitoring requirements of 40 CFR 63, Subpart A and Subpart ZZZZ.

**Recordkeeping:** The permittee shall comply with all applicable recordkeeping requirements of 40 CFR 63, Subpart A and Subpart ZZZZ, including but not limited to 63.6655 and 63.10.

**Reporting:** The permittee shall comply with all applicable reporting requirements of 40 CFR 63, Subpart A and ZZZZ, including but not limited to 63.6645, 63.6650, 63.9, and 63.10.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:

## No Provide comments and identify any supporting documentation as an attachment. Comments:

There is only one process generator at LANL that is subject to Subpart ZZZZ. This is the permitted 1600kW generator located at TA-33, Unit No. TA-33-G-1. NMED approved a one-year compliance extension request for this unit by letter dated March 12, 2013. A permit modification P1100-R1-M3 issued April 26, 2013 incorporated this one year extension into Condition A1107.C. The compliance date for this unit is now May 3, 2014.

## A1207 Other - Data Disintegrator

A. Emission calculations (Data Disintegrator)

**Requirement:** The permittee shall calculate Data Disintegrator emissions based on the records of the number of boxes of media that are destroyed.

**Monitoring:** The permittee shall monitor the quantity of media destroyed on a monthly basis. The total weight shall be based on a previously determined average box weight. This average weight determination shall be maintained as part of the records for this facility.

**Recordkeeping:** The permittee shall calculate the actual emissions rate (tons per reporting period) for the emission units listed in Table 1200.A on a semi-annual basis. The emission rate in tons per year shall be calculated by summing the emissions from the previous reporting period with the current period. Records shall be maintained in accordance with Section B109.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:

No Provide comments and identify any supporting documentation as an attachment.

#### **Comments:**

A log is kept to record the number of boxes of media destroyed monthly and is used to calculate emissions on a semi-annual basis. The number of boxes destroyed is provided in **ATTACHMENT A1207.A**. The average box weight has been determined and is maintained as part of the facility records.

The actual emission rate is calculated for each semi-annual report and for the year. The emissions are compared to the allowable emissions for the unit. These records are maintained on site and provided in the emissions report. Records are maintained in accordance with Section B109.

#### B. Cyclone/Cloth Tube Filters (Data Disintegrator)

Requirement: The permittee shall perform regular maintenance and repair on the cyclone and cloth tube filter(s) per manufacturer's recommendations. (NSR Permit 2195H, Specific Condition 1.d.) **Monitoring:** N/A Recordkeeping: The permittee shall maintain adequate records on site to demonstrate compliance with manufacturer's recommended repair and maintenance schedules for the cyclone and the cloth tube filter(s). (NSR Permit 2195H, Specific Condition 4.a.) Records shall be maintained in accordance with Section B109. **Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110. Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below. ☐ Yes **Date report submitted: Tracking Number:** No No Provide comments and identify any supporting documentation as an attachment. **Comments:** Preventative maintenance and repair is performed on the data disintegrator cyclone and cloth tube filter(s) following manufacturer's recommendations. Records of maintenance performed on the cyclone and cloth tube filter(s) are provided in ATTACHMENT A1207.B. Manufacturer recommended repair and maintenance are also available on site. Records are maintained in accordance with Section B109. Emission and monitoring reports are submitted on a 6-month basis and compliance certification on an annual basis in accordance with permit condition A109 and B110. For more information, see comments in Section A605 of this report.

## C. Compliance Testing (Data Disintegrator)

<b>Requirement:</b> If any compliance testing is required, it shall be conducted in accordance with EPA Reference Methods 1 through 4, Method 5 for TSP, and conducted in accordance with 450 CFR 60, Appendix A. For combined TSP and PM10, testing shall be in accordance with 40 CFR 51, Appendix M, Method 201. Alternative test method(s) may be used if the Department approves the change. (NSR Permit 2195H, Specific Condition 6.b., revised)
Monitoring: N/A
<b>Recordkeeping:</b> The permittee shall maintain records in accordance with Section B109.
<b>Reporting:</b> The permittee shall submit reports described in Section A109 and in accordance with Section B110.
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.
☐ Yes Date report submitted: Tracking Number:
<ul> <li>☐ Yes</li> <li>Date report submitted:</li> <li>Tracking Number:</li> <li>☑ No</li> <li>Provide comments and identify any supporting documentation as an attachment.</li> </ul>
No Provide comments and identify any supporting documentation as an attachment.
<ul> <li>No Provide comments and identify any supporting documentation as an attachment.</li> <li>Comments:</li> </ul>

#### A1305 Fuel Sulfur Requirements - TA-3 Power Plant

A. Boilers (Units TA-3-22-1 through -3)

**Requirement:** External combustion sources at the TA-3 Power Plant shall combust only natural gas containing no more than 2 gr/100 scf total sulfur or No. 2 fuel oil containing no more than 0.05 wt% total sulfur. (NSR Permit 2195B-M2, Specific Condition A110.A)

**Monitoring:** N/A

**Recordkeeping:** The permittee shall demonstrate compliance with the limit on total fuel sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the gaseous or liquid fuel, or fuel analysis, specifying the fuel grade and certification or allowable sulfur limit. If fuel analysis is used, the analysis shall not be older than one year. Alternatively, compliance may be demonstrated by keeping a receipt or invoice from a commercial fuel supplier with each fuel delivery, which shall include the delivery date, the fuel type delivered, and amount of fuel delivered, and the maximum sulfur content of the fuel.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

Yes Date report submitted:

**Tracking Number:** 

No Provide comments and identify any supporting documentation as an attachment.

#### **Comments:**

The natural gas transportation contract states that gas provided to LANL will be pipeline quality with total sulfur content of no more than 3/4 grains of total sulfur per 100 scf (see attachment A805.A.).

Fuel oil is under a purchase contract and only Ultra Low Sulfur Diesel (ULSD) is delivered to the facility. ULSD contains less than 0.0015 wt% total sulfur.

A copy of the transportation contract and purchase contract are kept on site.

## B. Combustion Turbine (Unit TA-3-22-CT-1)

**Requirement:** The combustion turbine at the TA-3 Power Plant shall combust only natural gas containing no greater than 2 gr/100 scf total sulfur. (NSR Permit 2195B-M2, Specific Condition A110.B) Monitoring: N/A Recordkeeping: The permittee shall demonstrate compliance with the limit on total fuel sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, or fuel analysis, specifying the fuel grade and certification or allowable sulfur limit. If fuel analysis is used, the analysis shall not be older than one year. (NSR Permit 2195B-M2, Specific Condition A110.B and 40 CFR 60.334(h)) Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110. Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below. ☐ Yes **Tracking Number: Date report submitted:** Provide comments and identify any supporting documentation as an attachment. ⊠ No **Comments:** The natural gas transportation contract states that gas provided to LANL will be pipeline quality with total sulfur content of no more than 3/4 grains of total sulfur per 100 scf (see attachment A805.A.). Emission and monitoring reports are submitted on a 6-month basis and compliance certification on an annual basis in accordance with permit condition A109 and B110. For more information, see comments in Section A605 of this report.

#### A1306 20.2.61 NMAC Opacity - TA-3 Power Plant

A. Sources Combusting Natural Gas

**Requirement:** All combustion units shall not exceed 20% opacity. (NSR Permit 2195B-M2, Specific Condition A111.A)

**Monitoring:** Use of natural gas fuel meeting the requirement at Condition A1305.A or B constitutes compliance with 20.2.61 NMAC unless opacity exceeds 20% averaged over a 10-minute period. When any visible emissions are observed during steady state operation and are determined to be not due to condensed water vapor only, opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC.

**Recordkeeping:** The permittee shall record dates of any opacity measures and the corresponding opacity readings.

**Reporting:** The permittee shall report dates of any opacity measures and the corresponding opacity readings. The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

	Yes	Date report	submitted:
--	-----	-------------	------------

Tracking Number:

## ⊠ No

Provide comments and identify any supporting documentation as an attachment.

### **Comments:**

LANL has certified opacity readers on-site who perform opacity readings using 40 CFR 60, Appendix A, Method 9 to determine compliance with the opacity limitation. The opacity limit was not exceeded during this reporting period.

Natural gas fuel meets the requirement at Condition A1305.A and B.

No visible emissions were observed during steady state operation during this reporting period.

A standard form is used for all opacity measurements. The form includes the date of measurement and opacity observed. No opacity readings were needed or required during this reporting period.

#### B. Boilers Combusting No. 2 Fuel Oil

**Requirement:** All combustion units shall not exceed 20% opacity. (NSR Permit 2195B-M2, Specific Condition A111.B)

**Monitoring:** During steady state operation, opacity shall be measured over a 10-minute period in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC. Opacity measurements shall be conducted on a quarterly basis per calendar year whenever the boiler(s) are operational during the monitoring period. This requirement is subject to the monitoring provisions of Condition B108.D.

**Recordkeeping:** The permittee shall maintain records of all Method 9 observations, and in accordance with Section B109.

**Reporting:** The permittee shall report date, time, and results of all Method 9 observations. The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:
⊠ No	Provide comments and identify any sup	porting documentation as an attachment.

#### **Comments:**

No fuel oil was combusted during this reporting period.

LANL has certified opacity readers on-site who perform opacity readings using 40 CFR 60, Appendix A, Method 9 to determine compliance with the opacity limitation. The opacity limit was not exceeded during this reporting period.

Opacity is read at least once a quarter when boilers are combusting fuel oil and when required by monitoring provisions in condition B108.D. Opacity readings are measured over a 10-minute period and in accordance with 40 CFR 60, Appendix A, Method 9.

A standard form is used for all opacity measurements. The form includes the date of measurement and opacity observed. Records are maintained in accordance with Section B109.

#### A1307 Other - TA-3 Power Plant

A. Emission calculations (TA-3 Power Plant)

**Requirement:** The permittee shall comply with the hourly and annual emission limits at Table1302.A. and Conditions A1302.B, C, and D for the combustion turbine and boilers. The boiler annual emission limit shall be expressed as the combined emissions from all 3 boilers. (NSR Permit 2195B-M2, Specific Condition A801.A)

**Monitoring:** The permittee shall perform the following calculations on a monthly basis:

- 1) Calculate the average hourly emissions rates (pph) for each emissions unit based on the monthly total fuel consumption and monthly actual hours of operation.
- 2) Calculate the actual annual emissions rates (tpy) for all emissions units based on the monthly rolling 12-month total fuel consumption and the monthly rolling 12-month total hours of operation.
- 3) All NOx emission rates for the boilers shall also be calculated in terms of lb/MMBtu heat input. (NSR Permit 2195B-M2, Specific Condition A801.A)

**Recordkeeping:** The permittee shall maintain records in accordance with Section B109.

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

Yes Date report submitted:

**Tracking Number:** 

No Provide comments and identify any supporting documentation as an attachment.

#### **Comments:**

All emission calculations required by this section are performed for the units listed. The units have not exceeded the hourly and annual emission limits.

Emission spreadsheets are in place that calculate all required emissions and are used for monitoring and reporting purposes. The average hourly emission rates and actual annual emission rates are included in the spreadsheet. Emission rates are provided in **ATTACHMENT A1307.A.** 

Condition A1307.A.3, can't be calculated. The units are based on the emission factor for NOx (lbs/MMscf), which is converted to lbs/MMBtu by dividing by 1020 (standard number of MMBtu in a MMscf). The NOx emission rate will always be 0.057 lbs/MMBtu unless the Btu value of the fuel changes significantly.

Records are maintained in accordance with Section B109.

#### B. Fuel Usage (Boilers, Units TA-3-22-1 through -3)

**Requirement:** Combined boiler operation shall not consume more than 1000 MMscf of natural gas and no more than 500,000 gallons of No. 2 fuel oil in any 12-month period. Volumetric natural gas fuel flow shall be measured using gas flowmeters installed on the natural gas fuel inlet to each respective unit (3 separate gas flowmeters). Fuel oil usage shall be measured using a single inventory meter located at a storage tank that is dedicated for use by the TA-3 power plant boilers. (NSR Permit 2195B-M2, Specific Condition A803.A, revised)

**Monitoring:** The liquid fuel flow rate shall be continuously monitored whenever liquid fuel is combusted. The natural gas fuel flow rate for each boiler shall be continuously monitored whenever natural gas is combusted. The hours of operation of each boiler shall be continuously monitored. (NSR Permit 2195BM2, Specific Condition A803.A, revised)

**Recordkeeping:** The permittee shall record the monthly total of liquid fuel (gallons) for all boilers combined and gaseous fuel (scf) for each boiler on a monthly basis, to include a monthly total. Annual fuel usage shall be calculated and recorded on a monthly rolling 12-month total basis. The permittee shall record the hours of operation of each boiler on a monthly basis, to include a monthly total. The record shall include the monthly rolling 12-month total hours of operation for all 3 boilers combined. The permittee shall maintain records in accordance with Section B109. (NSR Permit 2195B-M2, Specific Condition A803.A, revised)

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:
⊠ No	Provide comments and identify	any supporting documentation as an attachment.

#### **Comments:**

The combined boiler natural gas use did not exceed 1000 MMscf or 500,000 gallons of fuel oil in any 12-month period. All fuel use data is tracked monthly in a spreadsheet used for emission calculations.

Natural gas fuel meters are in place on each of the boilers. Fuel oil is measured using an inventory meter on the storage tank. Both natural gas and fuel oil are continuously monitored when being combusted. A monthly and 12 month rolling total of both natural gas and fuel oil use are recorded and reviewed monthly to verify usage does not exceed allowable limits. The monthly and 12 month rolling totals for each fuel are provided in **ATTACHMENT 1307.B.** 

Total hours of operation of each boiler are recorded monthly and included in a monthly rolling 12-month total hours for all boilers combined. Hours of operation of each boiler are continuously monitored. This data is collected monthly from the power plant operations staff. Monthly and 12 month rolling hours are provided in **ATTACHMENT 1307.B.** 

Records are maintained in accordance with Section B109.

#### C. Fuel Usage (Combustion Turbine, Unit TA-3-22-CT-1)

**Requirement:** The combustion turbine shall not consume more than 1400 MMscf of natural gas in any 12-month period. Volumetric flow shall be measured using a gas fuel flowmeter installed on the fuel inlet of the combustion turbine. (NSR Permit 2195B-M2, Specific Condition A802.A)

**Monitoring:** The natural gas fuel flow rate for the combustion turbine shall be continuously monitored whenever natural gas is combusted. (NSR Permit 2195B-M2, Specific Condition A802.A)

**Recordkeeping:** The permittee shall record the daily total of gaseous fuel (scf) for the turbine on a monthly basis, to include a monthly total. Annual fuel usage shall be calculated and recorded on a monthly rolling 12-month total basis. The permittee shall record the daily hours of operation of the combustion turbine on a monthly basis, to include a monthly total. The record shall include the monthly total hours and monthly rolling 12-month total hours of operation. The permittee shall maintain records in accordance with Section B109. (NSR Permit 2195B-M2, Specific Condition A802.A)

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

Γ	Ves	Date report submitted	
ı	1 1 68	Date report submitted	- 5

**Tracking Number:** 

No No

Provide comments and identify any supporting documentation as an attachment.

### **Comments:**

A 12 month rolling total for natural gas use is maintained and reviewed to verify usage does not exceed 1400 MMscf. The daily and monthly total fuel use is collected and recorded monthly in a spreadsheet used for calculating emissions. The monthly and rolling natural gas total is provided in **ATTACHMENT A1307.C.** 

The natural gas flowmeter is installed on the turbine inlet.

The fuel flowmeter continuously measures natural gas being delivered to the combustion turbine.

Daily hours are also collected monthly and entered into the spreadsheet. A 12-month rolling total hours of operation is calculated using this information. Rolling total hours are provided in **ATTACHMENT A1307.C.** 

Records are maintained in accordance with Section B109.

#### D. Load Requirement (Combustion Turbine, Unit TA-3-22-CT-1)

**Requirement:** The combustion turbine shall be operated at no less than 80% and no greater than 100% load as determined by the manufacturer's supplied algorithm, except for minimal periods during startup and shutdown conditions. The permittee shall follow the manufacturer's recommended startup/shutdown procedures in order to minimize the duration of these events. (NSR Permit 2195B-M2, Specific Condition A802.B)

**Monitoring:** The operating load of the combustion turbine shall be monitored once daily during normal operations of that unit. (NSR Permit 2195B-M2, Specific Condition A802.B)

Recordkeeping: The permittee shall record the daily monitored operating load for the combustion turbine. The permittee shall maintain a record of the manufacturer's recommended startup/shutdown procedure and the manufacturer's criteria for the determination of turbine load. The permittee shall maintain a record for each startup/shutdown or malfunction event for the combustion turbine. The record shall include the date, the start/end time and duration for each event, which is defined as the length of time the combustion turbine is operating at less than 80% or greater than 100% load. For any malfunction event, the record shall also include the nature of the malfunction and any corrective action taken. The permittee shall maintain records in accordance with Section B109. (NSR Permit 2195B-M2, Specific Condition A802.B)

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitte	۸.
1 1 68	Date report submitte	u:

**Tracking Number:** 

## ⊠ No

**Comments:**The combustion turbine load was maintained between 80% and 100% during this reporting period. Load

Provide comments and identify any supporting documentation as an attachment.

range is calculated by the turbine operating system and is manually recorded during each operation. Daily operating logs showing the generator output/load are provided in **ATTACHMENT 1307.D** 

Startup/shutdown procedures are in place and are followed by the unit operators.

The load is recorded at least once daily during normal operations. This data is collected in the daily operating log. Startup/shutdown procedures are in place and are followed by the unit operators.

Each time the unit is started or shut down the data is entered into a daily operating log which is maintained on-site. The record includes the date, start/end times, and duration.

The unit did not operate outside of the required load range during this reporting period. No malfunctions occurred during this reporting period.

Records are maintained in accordance with Section B109.

## E. Control Device Operation (Boilers, Units TA-3-22-1 through -3)

**Requirement:** Each boiler (Units TA-3-22-1 through -3) shall only be operated with a properly operating flue gas recirculation fan (Units F-1 through -3, respectively). Any malfunction of the flue gas recirculation system during boiler operation may be subject to the excess emissions requirements of 20.2.7 NMAC. (NSR Permit 2195B-M2, Specific Condition A803.B)

**Monitoring:** The flue gas recirculating fans shall be inspected for proper operation and maintenance once during each calendar month that the unit was operating. (NSR Permit 2195B-M2, Specific Condition A803.B)

**Recordkeeping:** The permittee shall record all inspections of the flue gas recirculating fans and any event during which a fan malfunctions. The record shall include the date, time, name of operator conducting the inspection, and any discrepancies noted. For malfunction events, the record shall also include the nature and duration of the malfunction, and any corrective action taken. The permittee shall maintain records in accordance with Section B109. (NSR Permit 2195B-M2, Specific Condition A803.B)

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

**☐** Yes Date report submitted:

**Tracking Number:** 

No Provide comments and identify any supporting documentation as an attachment.

#### **Comments:**

When a boiler is in operation, the associated FGR fan is on. A fan speed indicator is located on the control panel in operator control room. This fan speed is monitored and recorded during boiler operation. No malfunctions of the FGR systems have occurred during this certification period.

The FGR fans are inspected for proper operation and maintenance each month the unit is operating. Inspection forms are provided in **ATTACHMENT A1307.E.** 

No malfunctions occurred during this certification period.

All inspection records contain the required data found in this section. Records are maintained in accordance with Section B109.

## F. Control Device Operation (Combustion Turbine, Unit TA-3-22-CT-1)

**Requirement:** The combustion turbine shall be equipped with Rolls-Royce Dry Low Emissions (DLE) control technology (pre-mix, lean-burn series staged combustion system) to control NOx emissions. (NSR Permit 2195B-M2, Specific Condition A802.C) Monitoring: N/A **Recordkeeping:** The permittee shall maintain a record of the DLE system associated with the combustion turbine. The permittee shall maintain records in accordance with Section B109. (NSR Permit 2195B-M2, Specific Condition A802.C) **Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110. Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below. ☐ Yes **Date report submitted: Tracking Number:** No No Provide comments and identify any supporting documentation as an attachment. **Comments:** The Dry Low Emissions (DLE) control technology is an integral part of the combustion turbine design. The DLE control was evaluated during unit start-up and determined to be working as designed. Manufacturer data is available on the DLE system. Records are maintained in accordance with Section B109. Emission and monitoring reports are submitted on a 6-month basis and compliance certification on an annual basis in accordance with permit condition A109 and B110. For more information, see comments in Section A605 of this report.

## G. 40 CFR 60, Subparts A and GG (Combustion Turbine, Unit TA-3-22-CT-1)

**Requirement:** The combustion turbine is subject to 40 CFR 60, Subpart GG and the permittee shall comply with the applicable requirements of 40 CFR 60, Subpart A and Subpart GG. (NSR Permit 2195BM2, Specific Condition A802.D) Monitoring: The permittee shall comply with the monitoring and testing requirements of 40 CFR 60.334 and 60.335. (NSR Permit 2195B-M2, Specific Condition A802.D) **Recordkeeping:** The permittee shall comply with the recordkeeping requirements of 40 CFR 60.334 and 40 CFR 60.7. (NSR Permit 2195B-M1-R2, Specific Condition A802.D) Reporting: The permittee shall comply with the reporting requirements of 40 CFR 60.7. (NSR Permit 2195B-M1-R2, Specific Condition A802.D) Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below. ☐ Yes **Date report submitted: Tracking Number:** ⊠ No Provide comments and identify any supporting documentation as an attachment. **Comments:** The combustion turbine is in compliance with 40 CFR Part 60 Subpart A and 40 CFR Part 60 Subpart GG. The combustion turbine is in compliance with the monitoring and test requirements of 40 CFR 60.334 and 60.335. The combustion turbine is in compliance with the monitoring, notification, and record keeping requirements of 40 CFR 60.334 and 60.7. The combustion turbine is in compliance with the notification and record keeping requirements of 40 CFR 60.7.

## H. Portable Analyzer Testing (Combustion Turbine, Unit TA-3-22-CT-1)

**Requirement:** The permittee shall comply with the allowable emission limits at Table A1302.A, including the NOx ppmv limitation. (NSR Permit 2195B-M2, Specific Condition A802.E)

**Monitoring:** The permittee shall test using a portable analyzer subject to the requirements and limitations of Section B108, General Monitoring Requirements. Periodic testing for NOx and CO shall be carried out as described below. Test results that demonstrate compliance with the NOx and CO emission limits shall also be considered to demonstrate compliance with the VOC, SO<sub>2</sub>, TSP, PM10, and PM2.5 emission limits.

- 1) The test period shall be annually.
- 2) All subsequent monitoring shall occur in each succeeding monitoring period. No two monitoring events shall occur closer together in time than 25% of a monitoring period.
- 3) Monitoring shall be conducted during each monitoring period notwithstanding the Condition B108.D requirements for periods of operation less than 25%.

Follow the General Testing Procedures of Section B111. (NSR Permit 2195B-M2, Specific Condition A802.E)

**Recordkeeping:** The permittee shall maintain records in accordance with Section B109. The permittee shall also record the results of the periodic emissions tests, including the turbine's fuel flow rate and load at the time of the test, and the type of fuel fired (natural gas with the heating value and sulfur content specified).

If a combustion analyzer is used to measure NOx, CO, and/or excess air in the exhaust gas, records shall be kept of the make and model of the instrument and instrument calibration data. If an ORSAT apparatus or other gas absorption analyzer is used, the permittee shall record all calibration results.

The permittee shall also keep records of all raw data used to determine exhaust gas flow and of all calculations used to determine flow rates and mass emissions rates. (NSR Permit 2195B-M2, Specific Condition A802.E)

**Reporting:** The permittee shall submit reports described in Section A109 and in accordance with Section B110.

Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.

☐ Yes	Date report submitted:	Tracking Number:
⊠ No	Provide comments and identify any su	apporting documentation as an attachment.

### Comments:

The emissions testing is required annually. The last annual test for this unit was performed on December 11, 2012, and will be conducted again in the fall of 2013. There was no testing conducted on this unit during this reporting period.

The test is performed as required following the monitoring requirements of Section B108 and general testing procedures found in section B111.

Test results from the test demonstrate compliance with NOx and CO emission limits. No limits were exceeded.

The tests are performed annually and are not conducted within a calendar quarter of each other.

Records of the periodic emissions test include all data required by this section. All data is included in the

final test report which is provided to NMED-AQB as part of this report.

A combustion analyzer is used for this periodic emissions test. Instrument and calibration data is included in the final test report. An ORSAT or other similar gas absorption analyzer is not used.

Records are maintained in accordance with Section B109.

Raw data, and calculations used, are included in the test report. Emission and monitoring reports are submitted on a 6-month basis and compliance certification on an annual basis in accordance with permit condition A109 and B110. For more information, see comments in Section A605 of this report.

## A1407 Other - Open Burning

#### A. Operational

**Requirement:** The permittee shall comply with the applicable requirements of 20.2.60 NMAC and 20.2.65 NMAC, including, but not limited to:

- 1) Prior to initiating a burn consisting of vegetative material, the permittee shall submit to the Department a sampling and analysis plan and upon approval conduct representative sampling of the intended burn material and analyze samples for radionuclides, target analyte list (TAL) inorganic elements, polychlorinated biphenyls (PCBs), and high explosives (HE); and
- 2) The permittee shall submit to the Department a background concentration report for the contaminants listed in Condition A1407.A, Requirement (1). The report shall indicate locations where background concentrations were taken and compare sample results with background concentrations of the constituents; and
- 3) The permittee shall not burn vegetative material which includes any contaminant above the relevant background concentration; and
- 4) Upon receiving Department approval, the permittee shall conduct public notification in a display ad in at least four newspapers: Los Alamos Monitor, Rio Grande Sun, Santa Fe New Mexican, and the Albuquerque Journal, no less than 21 days in advance of a planned burn.

**Monitoring:** The permittee shall monitor all open burning as required by Department regulation or burn approval.

**Recordkeeping:** The permittee shall maintain records of all sampling and analysis plans and any representative sampling conducted. Records shall be kept in accordance with Section B109.

**Reporting:** The permittee shall submit reports as outlined in the Condition 1407.A Requirements, as described in Section A109, and in accordance with Section B110.

-	orting requirement been met dur or No below.	ing this reporting period with a separate report submittal?				
☐ Yes	Date report submitted:	Tracking Number:				
⊠ No	Provide comments and identi	fy any supporting documentation as an attachment.				
Comments:						
No open burning occurred during this reporting period.						

## Part 2

# **Deviation Summary Report**

y deviations reported to the Air Quality Bureau during YES, complete the "Summary of Deviations Previously			☐ Yes	⊠ No					
SUMMARY OF DEVIATIONS PREVIOUSLY REPORTED									
Unit # and description	Date deviation reported	Tracking Number							
	•	•							

	2. Are there any deviations not yet reported? If No, no further information is required on the Deviation Summary Report. If Yes, answer question 3 below and enter the required information in the Deviation Summary Table.									ary	☐ Yes	⊠ No	
	3. Did any of the deviations result in excess emissions? For deviations resulting in excess emissions a completed Excess Emission Form for each deviation must be attached to this report.								☐ Yes	□ No			
Dev	viation Sum	mary Tab	ole for	dev	iation	ıs n	ot yet repoi	ted.					
No.	1 11			Emissi Unit II	~	Caus	Cause of Deviation Corrective Action Taken						
1													
2													
Dev	viation Sum	mary Tal	ole (co	nt.)									
	Deviation Started Deviation Ended								Did you attach an excess emission form?				
No.	Date	Time	Date	e	Time	e	Pollutant	Monitoring Method			Amount of Emissions		
1												☐ Yes	□ No
2												☐ Yes	□ No

## Monitoring Report Attachments

ATTACHMENT A607.A. Asphalt Plant - Differential Pressure Records.

ATTACHMENT A607.C. Asphalt Plant - Method 9 Opacity Reports.

ATTACHMENT A607.E. Asphalt Plant - Daily Operation Log and 12-Month Rolling Production.

ATTACHMENT A607.F. Asphalt Plant Maintenance Records.

ATTACHMENT A607.G. Asphalt Plant - Method 22 Reports.

ATTACHMENT A707.B.a. Beryllium - TA-3-66 Beryllium Logs.

ATTACHMENT A707.B.b. Beryllium - TA-35-213 Beryllium Operating Log.

ATTACHMENT A707.C.a. Beryllium - TA-3-141 Beryllium HEPA Filter Differential Pressure Readings.

ATTACHMENT A707.C.b. Beryllium - TA-55-PF4 HEPA Filtration Differential Pressure Readings.

ATTACHMENT A805.A. External Combustion – Gas Quality Section of Transportation Contract.

ATTACHMENT A806.C. External Combustion -- RLUOB (CMMR) Boilers Method 9 Opacity Reports.

ATTACHMENT A807.A. External Combustion - Natural Gas Usage and Rolling 12-Month Total.

ATTACHMENT A907.A. Chemical Usage - Chemical Purchases (From ChemLog).

ATTACHMENT A1007.A.a. Degreaser - Degreaser Solvent Usage (From Tracking Database).

ATTACHMENT A1007.A.b. Degreaser - Sample Work Practice Checklist.

ATTACHMENT A1104.A. Internal Combustion - Standby Generator Hours.

ATTACHMENT A1104.B. Internal Combustion - TA-33 Generator Hours.

ATTACHMENT A1104.D. Internal Combustion - Operating Logs for the RLUOB (CMRR) Generators.

ATTACHMENT A1207.A. Data Disintegrator - Operating Logs.

ATTACHMENT A1207.B. Data Disintegrator - Maintenance Performed.

ATTACHMENT A1307.A. TA-3 Power Plant – Emission Rate Calculations.

ATTACHMENT A1307.B. TA-3 Power Plant - Boiler Fuel Use and Hours of Operation.

ATTACHMENT A1307.C. TA-3 Power Plant - Turbine Fuel Use and Hours of Operation.

ATTACHMENT A1307.D. TA-3 Power Plant – Turbine Operating Logs.

ATTACHMENT A1307.E. TA-3 Power Plant – FGR Fan Inspection and Maintenance.

# **ATTACHMENT A607.A**

# Asphalt Plant

Differential Pressure Records

		Average Differential		Total Run		
Date	Time	Pressure	Run Time	Time	2:00	Hours
01/10/13	13:20:00	4.34				
01/10/13	13:22:00	8.47				
01/10/13	13:24:00	8.7				
01/10/13	13:26:00	8.82				
01/10/13	13:28:00	8.92				
01/10/13	13:30:00	8.73				
01/10/13	13:32:00	8.53				
01/10/13	13:34:00	8.48				
01/10/13	13:36:00	8.49				
01/10/13	13:38:00	8.78				
01/10/13	13:40:00	8.98				
01/10/13	13:42:00	9.13				
01/10/13	13:44:00	9.3				
01/10/13	13:46:00	9.75				
01/10/13	13:48:00	9.67				
01/10/13	13:50:00	9.62				
01/10/13	13:52:00	9.77				
01/10/13	13:54:00	9.7				
01/10/13	13:56:00	9.62				
01/10/13	13:58:00	9.62				
01/10/13	14:00:00	9.85				
01/10/13	14:02:00	9.67				
01/10/13	14:04:00	9.59				
01/10/13	14:06:00	9.88				
01/10/13	14:08:00	9.67				
01/10/13	14:10:00	9.58				
01/10/13	14:12:00	9.8				
01/10/13	14:14:00	9.8				
01/10/13	14:16:00	9.58				
01/10/13	14:18:00	9.64				
01/10/13	14:20:00	9.75				
01/10/13	14:22:00	9.71				
01/10/13	14:24:00	9.56				
01/10/13	14:26:00	9.6				
01/10/13	14:28:00	9.57				
01/10/13	14:30:00	4.62	1:10:00			
01/25/13	10:16:00	1.12				
01/25/13	10:18:00	9.89				
01/25/13	10:20:00	9.15				
01/25/13	10:22:00	8.72				
01/25/13	10:24:00	7.81				
01/25/13	10:26:00	7.73				

01/25/13	10:28:00	7.53	
01/25/13	10:30:00	7.53	
01/25/13	10:32:00	7.53	
01/25/13	10:34:00	8.04	
01/25/13	10:36:00	9.87	
01/25/13	10:38:00	9.87	
01/25/13	10:40:00	9.87	
01/25/13	10:42:00	9.87	
01/25/13	10:44:00	9.87	
01/25/13	10:46:00	9.87	
01/25/13	10:48:00	9.87	
01/25/13	10:50:00	9.87	19
01/25/13	10:52:00	9.87	
01/25/13	10:54:00	9.87	
01/25/13	10:56:00	9.87	
01/25/13	10:58:00	9.87	
01/25/13	11:00:00	9.87	
01/25/13	11:02:00	9.87	
01/25/13	11:04:00	9.87	
01/25/13	11:06:00	9.48	0:50:00
			2:00

		Average Differential				
Date	Time	Pressure	Run Time	Total Run Time	7:34	Hours:Minutes
4-FEB-2013	9:52:00	7.24				
4-FEB-2013	9:54:00	7.96				
4-FEB-2013	9:56:00	7				
4-FEB-2013	9:58:00	5.86				
4-FEB-2013	10:00:00	5.86				
4-FEB-2013	10:02:00	5.86				
4-FEB-2013	10:04:00	5.86				
4-FEB-2013	10:06:00	5.86				
4-FEB-2013	10:08:00	5.86				
4-FEB-2013	10:10:00	5.86				
4-FEB-2013	10:12:00	6.92				
4-FEB-2013	10:14:00	9.35				
4-FEB-2013	10:16:00	9.56				
4-FEB-2013	10:18:00	9.85				
4-FEB-2013	10:20:00	9.85				
4-FEB-2013	10:22:00	9.82	0:30:00			
4-FEB-2013	12:36:00	1.72				
4-FEB-2013	12:38:00	7.49				
4-FEB-2013	12:40:00	6.22				
4-FEB-2013	12:42:00	6.04				
4-FEB-2013	12:44:00	5.99				
4-FEB-2013	12:46:00	5.79				
4-FEB-2013	12:48:00	5.79				
4-FEB-2013	12:50:00	5.79				
4-FEB-2013	12:52:00	5.79				
4-FEB-2013	12:54:00	5.88				
4-FEB-2013	12:56:00	5.78				
4-FEB-2013	12:58:00	5.78				
4-FEB-2013	13:00:00	5.78				
4-FEB-2013	13:02:00	2.31	0:26:00			
5-FEB-2013	13:08:00	6.74				
5-FEB-2013	13:10:00	6.83				
5-FEB-2013	13:12:00	6.23				
5-FEB-2013	13:14:00	6.17				
5-FEB-2013	13:16:00	6.17				
5-FEB-2013	13:18:00	6.17				
5-FEB-2013	13:20:00	6.17				
5-FEB-2013	13:22:00	6.17				
5-FEB-2013	13:24:00	6.17				
5-FEB-2013	13:26:00	6.17				
5-FEB-2013	13:28:00	6.43				
5-FEB-2013	13:30:00	6.31				
5-FEB-2013	13:32:00	9.34				
5-FEB-2013	13:34:00	9.44				
5-FEB-2013	13:36:00	9.31				
5-FEB-2013	13:38:00	9.19				
5-FEB-2013	13:40:00	9.19	0.24.00			
5-FEB-2013	13:42:00	2.87	0:34:00			
6-FEB-2013	12:56:00	8				
6-FEB-2013	12:58:00	9.61				
6-FEB-2013	13:00:00	9.47				
6-FEB-2013	13:02:00	7.41				
6-FEB-2013	13:04:00	6.42				
6-FEB-2013	13:06:00	6.26				
6-FEB-2013	13:08:00	6.26				
6-FEB-2013	13:10:00	6.26				
6-FEB-2013	13:12:00	6.26				
6-FEB-2013	13:14:00	6.26				
6-FEB-2013	13:16:00	6.26				

6-FEB-2013	13:18:00	6.11	
6-FEB-2013	13:20:00	6.03	
6-FEB-2013	13:22:00	6.26	
6-FEB-2013	13:24:00	7.49	
6-FEB-2013	13:26:00	4.35	0:30:00
			5.55.55
13-Feb-2013	9:14:00	7.77	
13-Feb-2013	9:16:00	10	Maximum
13-Feb-2013	9:18:00	10	Maximum
13-Feb-2013	9:20:00	10	Maximum
13-Feb-2013	9:22:00	10	Maximum
13-Feb-2013	9:24:00	10	Maximum
13-Feb-2013	9:26:00	10	Maximum
13-Feb-2013	9:28:00	10	Maximum
13-Feb-2013	9:30:00	10	Maximum
13-Feb-2013	9:32:00	10	Maximum
13-Feb-2013	9:34:00	10	Maximum
13-Feb-2013	9:36:00	5.69	Maximum
13-Feb-2013	9:42:00	7.09	
13-Feb-2013			Marriani
13-Feb-2013	9:44:00	10	Maximum
	9:46:00	10	Maximum
13-Feb-2013	9:48:00	10	Maximum
13-Feb-2013	9:50:00	10	Maximum
13-Feb-2013	9:52:00	10	Maximum
13-Feb-2013	9:54:00	10	Maximum
13-Feb-2013	9:56:00	10	Maximum
13-Feb-2013	9:58:00	10	Maximum
13-Feb-2013	10:00:00	10	Maximum
13-Feb-2013	10:02:00	10	Maximum
13-Feb-2013	10:04:00	10	Maximum
13-Feb-2013	10:06:00	10	Maximum
13-Feb-2013	10:08:00	6.29	
13-Feb-2013	10:10:00	10	Maximum
13-Feb-2013	10:12:00	10	Maximum
13-Feb-2013	10:14:00	9.86	
13-Feb-2013	10:16:00	7.55	
13-Feb-2013	10:18:00	7.36	
13-Feb-2013	10:20:00	7.1	
13-Feb-2013	10:22:00	7.01	
13-Feb-2013	10:24:00	7.18	
13-Feb-2013	10:26:00	7.03	
13-Feb-2013	10:28:00	6.73	
13-Feb-2013	10:30:00	6.72	
13-Feb-2013	10:32:00	6.72	
13-Feb-2013	10:34:00	6.72	
13-Feb-2013	10:36:00	6.75	
13-Feb-2013	10:38:00	6.99	
13-Feb-2013	10:40:00	6.99	
13-Feb-2013	10:42:00	6.99	
13-Feb-2013	10:44:00	6.99	
13-Feb-2013	10:46:00	6.99	
13-Feb-2013	10:48:00	6.99	
13-Feb-2013	10:50:00	8.46	
13-Feb-2013	10:52:00	9.7	
13-Feb-2013	10:54:00	9.53	
13-Feb-2013	10:56:00	5.35	1:42:00
13-Feb-2013	12:58:00	5.82	
13-Feb-2013	13:00:00	9.94	
13-Feb-2013	13:02:00	9.94	
13-Feb-2013	13:04:00	9.94	
13-Feb-2013	13:06:00	9.94	
13-Feb-2013	13:08:00	6.97	
13-Feb-2013	13:10:00	6.42	
13-Feb-2013	13:10:00	6.42	
13-Feb-2013	13:14:00	6.15	
10   CD-2013	13.17.00	0.13	

13-Feb-2013 13:16:00 6.15 13-Feb-2013 13:18:00 6.15 13-Feb-2013 13:20:00 6.28 13-Feb-2013 13:30:00 6.23 13-Feb-2013 13:30:00 6.23 13-Feb-2013 13:38:00 6.23 13-Feb-2013 13:38:00 6.23 13-Feb-2013 13:38:00 6.23 13-Feb-2013 13:38:00 6.21 13-Feb-2013 13:40:00 6.21 14-Feb-2013 13:00:00 6.87 14-Feb-2013 13:00:00 6.87 14-Feb-2013 13:00:00 6.87 14-Feb-2013 13:00:00 6.47 14-Feb-2013 13:00:00 6.47 14-Feb-2013 13:10:00 6.47 14-Feb-2013 13:20:00 9.95 15-Feb-2013 13:30:00 8.42 14-Feb-2013 13:30:00 8.42 14-Feb-2013 13:30:00 9.95 14-Feb-2013 13:30:00 9.95 15-Feb-2013 13:30:00 9.95 15-Feb-2013 13:30:00 9.95 15-Feb-2013 10:00:00 5.94 15-Feb-2013 10:00:				
13-Feb-2013	13-Feb-2013	13:16:00	6.15	
13-Feb-2013		13:18:00	6.15	
13-Feb-2013				
13-Feb-2013		13:22:00		
13-Feb-2013				
13-Feb-2013 13:36:00 6.47 13-Feb-2013 13:38:00 6.43 13-Feb-2013 13:40:00 6.21 13-Feb-2013 13:40:00 4.79 0:48:00  14-Feb-2013 13:00:00 2.87 14-Feb-2013 13:00:00 6.87 14-Feb-2013 13:00:00 6.87 14-Feb-2013 13:00:00 6.47 14-Feb-2013 13:00:00 6.47 14-Feb-2013 13:00:00 6.47 14-Feb-2013 13:10:00 6.47 14-Feb-2013 13:10:00 6.47 14-Feb-2013 13:10:00 6.47 14-Feb-2013 13:16:00 6.47 14-Feb-2013 13:16:00 6.47 14-Feb-2013 13:18:00 7.8 14-Feb-2013 13:20:00 9.95 14-Feb-2013 13:20:00 9.95 14-Feb-2013 13:20:00 9.95 14-Feb-2013 13:20:00 8.42 14-Feb-2013 13:20:00 8.42 14-Feb-2013 13:20:00 8.42 14-Feb-2013 13:30:00 8.19 14-Feb-2013 13:30:00 8.19 14-Feb-2013 13:30:00 9.55 14-Feb-2013 13:30:00 9.55 14-Feb-2013 13:30:00 9.65 14-Feb-2013 13:40:00 1.26 0:40:00  15-Feb-2013 9:56:00 6.19 15-Feb-2013 10:00:00 5.94 15-Feb-2013 10:00:00 5.94 15-Feb-2013 10:10:00 5.94 15-Feb-2013 10:10:00 5.94 15-Feb-2013 10:12:00 5.94 15-Feb-2013 10:20:00 6.07 15				
13-Feb-2013	13-Feb-2013	13:40:00		
13-Feb-2013	13-Feb-2013	13:42:00	6.21	
14-Feb-2013	13-Feb-2013	13:44:00	6.21	
14-Feb-2013	13-Feb-2013	13:46:00	4.79	0:48:00
14-Feb-2013	44 5-1- 2042	12.00.00	2.07	
14-Feb-2013				
14-Feb-2013				
14-Feb-2013				
14-Feb-2013		13:06:00	6.47	
14-Feb-2013	14-Feb-2013	13:08:00	6.47	
14-Feb-2013	14-Feb-2013	13:10:00	6.47	
14-Feb-2013	14-Feb-2013	13:12:00	6.47	
14-Feb-2013	14-Feb-2013	13:14:00	6.47	
14-Feb-2013	14-Feb-2013	13:16:00	6.47	
14-Feb-2013	14-Feb-2013	13:18:00	7.8	
14-Feb-2013       13:24:00       8.42         14-Feb-2013       13:26:00       8.42         14-Feb-2013       13:28:00       8.33         14-Feb-2013       13:30:00       8.16         14-Feb-2013       13:34:00       8.44         14-Feb-2013       13:36:00       9.51         14-Feb-2013       13:38:00       9.65         14-Feb-2013       13:40:00       1.26       0:40:00         15-Feb-2013       9:52:00       8.82         15-Feb-2013       9:54:00       8.13         15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:58:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:00:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:26:00       5.68         15-Feb-2013	14-Feb-2013	13:20:00	9.95	
14-Feb-2013	14-Feb-2013	13:22:00	9.14	
14-Feb-2013	14-Feb-2013	13:24:00	8.42	
14-Feb-2013	14-Feb-2013	13:26:00	8.42	
14-Feb-2013       13:30:00       8.16         14-Feb-2013       13:32:00       8.19         14-Feb-2013       13:34:00       8.44         14-Feb-2013       13:36:00       9.51         14-Feb-2013       13:38:00       9.65         14-Feb-2013       13:40:00       1.26       0:40:00         15-Feb-2013       9:52:00       8.82         15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:56:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:00:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:11:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:26:00       5.94         15-Feb-2013 <td></td> <td></td> <td></td> <td></td>				
14-Feb-2013       13:32:00       8.19         14-Feb-2013       13:34:00       8.44         14-Feb-2013       13:36:00       9.51         14-Feb-2013       13:38:00       9.65         14-Feb-2013       13:40:00       1.26       0:40:00         15-Feb-2013       9:52:00       8.82         15-Feb-2013       9:56:00       8.13         15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:58:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:00:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:28:00       1.11       0:36:00				
14-Feb-2013       13:34:00       8.44         14-Feb-2013       13:36:00       9.51         14-Feb-2013       13:38:00       9.65         14-Feb-2013       13:40:00       1.26       0:40:00         15-Feb-2013       9:52:00       8.82         15-Feb-2013       9:54:00       8.13         15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:58:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:00:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00				
14-Feb-2013       13:36:00       9.51         14-Feb-2013       13:38:00       9.65         14-Feb-2013       13:40:00       1.26       0:40:00         15-Feb-2013       9:52:00       8.82         15-Feb-2013       9:54:00       8.13         15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:58:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:02:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71				
14-Feb-2013       13:38:00       9.65         14-Feb-2013       13:40:00       1.26       0:40:00         15-Feb-2013       9:52:00       8.82         15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:58:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:02:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:00:00       4.71				
14-Feb-2013       13:40:00       1.26       0:40:00         15-Feb-2013       9:52:00       8.82         15-Feb-2013       9:54:00       8.13         15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:58:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:02:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:00:00       6         <				
15-Feb-2013 9:52:00 8.82 15-Feb-2013 9:54:00 8.13 15-Feb-2013 9:56:00 6.19 15-Feb-2013 9:58:00 6.19 15-Feb-2013 10:00:00 6.17 15-Feb-2013 10:02:00 5.94 15-Feb-2013 10:06:00 5.94 15-Feb-2013 10:08:00 5.94 15-Feb-2013 10:10:00 5.94 15-Feb-2013 10:10:00 5.94 15-Feb-2013 10:10:00 5.94 15-Feb-2013 10:10:00 5.94 15-Feb-2013 10:11:00 5.94 15-Feb-2013 10:12:00 5.94 15-Feb-2013 10:12:00 5.94 15-Feb-2013 10:18:00 5.94 15-Feb-2013 10:18:00 5.94 15-Feb-2013 10:20:00 5.94 15-Feb-2013 10:22:00 5.68 15-Feb-2013 10:22:00 5.68 15-Feb-2013 10:28:00 1.11 0:36:00 15-Feb-2013 13:00:00 4.71 15-Feb-2013 13:00:00 6 15-Feb-2013 13:00:00 6.07 15-Feb-2013 13:06:00 6.07				0.40.00
15-Feb-2013       9:54:00       8.13         15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:58:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:02:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71       15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:04:00       6       6       6         15-F	14-Feb-2013	13:40:00	1.26	0:40:00
15-Feb-2013       9:54:00       8.13         15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:58:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:02:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71       15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:04:00       6       6       6         15-F	15-Feb-2013	9:52:00	8.82	
15-Feb-2013       9:56:00       6.19         15-Feb-2013       9:58:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:02:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:20:00       5.8         15-Feb-2013       10:22:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:00:00       6         15-Feb-2013       13:00:00       6         15-Feb-2013       13:00:00       6         15-Feb-2013 <t< td=""><td></td><td></td><td></td><td></td></t<>				
15-Feb-2013       9:58:00       6.19         15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:02:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71       15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:04:00       6       6       6         15-Feb-2013       13:06:00       6.07       6       6         15-Feb-2013       13:06:00       6.07       6       6         15-Feb-2013       <				
15-Feb-2013       10:00:00       6.17         15-Feb-2013       10:02:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:22:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71       15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:00:00       4.41       15-Feb-2013       13:06:00       6         15-Feb-2013       13:06:00       6.07       15-Feb-2013       13:08:00       6.07				
15-Feb-2013       10:02:00       5.94         15-Feb-2013       10:04:00       5.94         15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71       15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:00:00       4.41       15-Feb-2013       13:06:00       6.07         15-Feb-2013       13:06:00       6.07       15-Feb-2013       13:08:00       6.07				
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15-Feb-2013       10:06:00       5.94         15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71       15-Feb-2013       13:00:00       4.41         15-Feb-2013       13:04:00       6       6       6       15-Feb-2013       13:06:00       6.07         15-Feb-2013       13:06:00       6.07       15-Feb-2013       13:08:00       6.07				
15-Feb-2013       10:08:00       5.94         15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71       15-Feb-2013       13:00:00       4.41         15-Feb-2013       13:04:00       6       6       15-Feb-2013       13:06:00       6.07         15-Feb-2013       13:06:00       6.07       15-Feb-2013       13:08:00       6.07				
15-Feb-2013       10:10:00       5.94         15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71       4.22         15-Feb-2013       13:00:00       4.71       4.41         15-Feb-2013       13:04:00       6       6         15-Feb-2013       13:06:00       6.07       6         15-Feb-2013       13:08:00       6.07       6.07				
15-Feb-2013       10:12:00       5.94         15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:00:00       4.41         15-Feb-2013       13:04:00       6         15-Feb-2013       13:06:00       6.07         15-Feb-2013       13:08:00       6.07				
15-Feb-2013       10:14:00       5.94         15-Feb-2013       10:16:00       5.94         15-Feb-2013       10:18:00       5.94         15-Feb-2013       10:20:00       5.73         15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:02:00       4.41         15-Feb-2013       13:04:00       6         15-Feb-2013       13:06:00       6.07         15-Feb-2013       13:08:00       6.07				
15-Feb-2013     10:16:00     5.94       15-Feb-2013     10:18:00     5.94       15-Feb-2013     10:20:00     5.73       15-Feb-2013     10:22:00     5.68       15-Feb-2013     10:24:00     5.8       15-Feb-2013     10:26:00     5.94       15-Feb-2013     10:28:00     1.11     0:36:00       15-Feb-2013     12:58:00     4.22       15-Feb-2013     13:00:00     4.71       15-Feb-2013     13:02:00     4.41       15-Feb-2013     13:04:00     6       15-Feb-2013     13:06:00     6.07       15-Feb-2013     13:08:00     6.07				
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15-Feb-2013       10:22:00       5.68         15-Feb-2013       10:24:00       5.8         15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       12:58:00       4.22         15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:02:00       4.41         15-Feb-2013       13:04:00       6         15-Feb-2013       13:06:00       6.07         15-Feb-2013       13:08:00       6.07	15-Feb-2013	10:18:00	5.94	
15-Feb-2013 10:24:00 5.8 15-Feb-2013 10:26:00 5.94 15-Feb-2013 10:28:00 1.11 0:36:00 15-Feb-2013 12:58:00 4.22 15-Feb-2013 13:00:00 4.71 15-Feb-2013 13:02:00 4.41 15-Feb-2013 13:04:00 6 15-Feb-2013 13:06:00 6.07 15-Feb-2013 13:06:00 6.07	15-Feb-2013	10:20:00	5.73	
15-Feb-2013       10:26:00       5.94         15-Feb-2013       10:28:00       1.11       0:36:00         15-Feb-2013       12:58:00       4.22         15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:02:00       4.41         15-Feb-2013       13:04:00       6         15-Feb-2013       13:06:00       6.07         15-Feb-2013       13:08:00       6.07	15-Feb-2013	10:22:00	5.68	
15-Feb-2013 10:28:00 1.11 0:36:00  15-Feb-2013 12:58:00 4.22 15-Feb-2013 13:00:00 4.71 15-Feb-2013 13:02:00 4.41 15-Feb-2013 13:04:00 6 15-Feb-2013 13:06:00 6.07 15-Feb-2013 13:08:00 6.07	15-Feb-2013	10:24:00	5.8	
15-Feb-2013 12:58:00 4.22 15-Feb-2013 13:00:00 4.71 15-Feb-2013 13:02:00 4.41 15-Feb-2013 13:04:00 6 15-Feb-2013 13:06:00 6.07 15-Feb-2013 13:08:00 6.07	15-Feb-2013	10:26:00	5.94	
15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:02:00       4.41         15-Feb-2013       13:04:00       6         15-Feb-2013       13:06:00       6.07         15-Feb-2013       13:08:00       6.07	15-Feb-2013	10:28:00	1.11	0:36:00
15-Feb-2013       13:00:00       4.71         15-Feb-2013       13:02:00       4.41         15-Feb-2013       13:04:00       6         15-Feb-2013       13:06:00       6.07         15-Feb-2013       13:08:00       6.07	45.51.5345	42.50.00	4.00	
15-Feb-2013     13:02:00     4.41       15-Feb-2013     13:04:00     6       15-Feb-2013     13:06:00     6.07       15-Feb-2013     13:08:00     6.07				
15-Feb-2013       13:04:00       6         15-Feb-2013       13:06:00       6.07         15-Feb-2013       13:08:00       6.07				
15-Feb-2013 13:06:00 6.07 15-Feb-2013 13:08:00 6.07				
15-Feb-2013 13:08:00 6.07				
15-Feb-2013 13:10:00 7.3				
	15-Feb-2013	13:10:00	7.3	

15-Feb-2013	13:12:00	8.08	
15-Feb-2013	13:14:00	8.08	
15-Feb-2013	13:16:00	8.08	
15-Feb-2013	13:18:00	8.14	
15-Feb-2013	13:20:00	8.06	
15-Feb-2013	13:22:00	7.91	
15-Feb-2013	13:24:00	8.1	
15-Feb-2013	13:26:00	7.87	
15-Feb-2013	13:28:00	7.8	
15-Feb-2013	13:30:00	7.8	
15-Feb-2013	13:32:00	7.85	
15-Feb-2013	13:34:00	7.61	
15-Feb-2013	13:36:00	7.84	
15-Feb-2013	13:38:00	7.84	
15-Feb-2013	13:40:00	7.84	
15-Feb-2013	13:42:00	7.84	
15-Feb-2013	13:44:00	7.84	72
15-Feb-2013	13:46:00	3.26	0.40.00
15-Feb-2015	15:40:00	3.20	0:48:00
19-Feb-2013	12.54.00	F 7	
	12:54:00	5.7	
19-Feb-2013	12:56:00	8.72	
19-Feb-2013	12:58:00	8.4	
19-Feb-2013	13:00:00 13:02:00	8.36	
19-Feb-2013		8.34	
19-Feb-2013	13:04:00	8.33	
19-Feb-2013	13:06:00	8.33	
19-Feb-2013	13:08:00	8.33	
19-Feb-2013	13:10:00	6.12	
19-Feb-2013	13:12:00	5.71	
19-Feb-2013	13:14:00	5.71	
19-Feb-2013	13:16:00	5.71	
19-Feb-2013	13:18:00	5.71	
19-Feb-2013	13:20:00	5.71	
19-Feb-2013	13:22:00	5.71	
19-Feb-2013	13:24:00	5.57	
19-Feb-2013	13:26:00	7.44	
19-Feb-2013	13:28:00	3.05	0:34:00
28-Feb-2013	12:48:00	3.59	
28-Feb-2013	12:50:00	10	
28-Feb-2013	12:52:00	10	
28-Feb-2013	12:54:00	9.93	
28-Feb-2013	12:56:00	9.73	
28-Feb-2013	12:58:00	9.73	
28-Feb-2013	13:00:00	9.57	
28-Feb-2013	13:02:00	9.59	
28-Feb-2013	13:04:00	9.54	
28-Feb-2013	13:06:00	9.22	
28-Feb-2013	13:08:00	9.31	
28-Feb-2013	13:10:00	9.33	
28-Feb-2013	13:12:00	9.03	
28-Feb-2013	13:14:00	6.46	0:26:00

The Asphalt Plant did not operate during the Month of March 2013. No differential pressure readings were taken.

Total Run Time Min.	1004	Hours	16.73
Date	Time	Average Differential Pressure	Run Time
04/02/13	10:36:00	7.06	
04/02/13	10:38:00	8.25	
04/02/13	10:40:00	6.93	
04/02/13	10:42:00	6.44	
04/02/13	10:44:00	6.38	
04/02/13	10:46:00	6.17	
04/02/13	10:48:00	6.17	
04/02/13	10:50:00	6.17	
04/02/13	10:52:00	6.17	
04/02/13	10:54:00	6.17 6.17	
04/02/13 04/02/13	10:56:00 10:58:00	6.17	
04/02/13	11:00:00	6.17	
04/02/13	11:02:00	6.17	
04/02/13	11:04:00	6.17	
04/02/13	11:06:00	6.17	
04/02/13	11:08:00	6.38	
04/02/13	11:10:00	6.43	
04/02/13	11:12:00	6.20	
04/02/13	11:14:00	6.14	
04/02/13	11:16:00	6.14	
04/02/13	11:18:00	6.14	
04/02/13	11:20:00	5.96	
04/02/13	11:22:00	6.06	
04/02/13	11:24:00	5.92	
04/02/13	11:26:00	5.87	
04/02/13	11:28:00	6.01	F.4
04/02/13	11:30:00	3.28	54
04/02/13	12:52:00	5.41	
04/02/13	12:54:00	6.50	
04/02/13	12:56:00	6.24	
04/02/13	12:58:00	6.23	
04/02/13	13:00:00	6.23	
04/02/13	13:02:00	6.23	
04/02/13	13:04:00	5.98	
04/02/13	13:06:00	8.07	
04/02/13 04/02/13	13:08:00 13:10:00	9.29 9.29	
04/02/13	13:12:00	6.03	20
0-1/02/13	13.12.00	5.5.5	20
04/03/13	10:20:00	2.03	
04/03/13	10:22:00	3.08	
04/03/13	10:24:00	2.45	
04/03/13	10:26:00	2.30	
04/03/13	10:28:00	2.30	
04/03/13 04/03/13	10:30:00 10:32:00	2.19 2.05	
04/03/13	10:34:00	2.05	
04/03/13	10:36:00	2.05	
04/03/13	10:38:00	2.05	
04/03/13	10:40:00	2.09	
04/03/13	10:42:00	2.11	
04/03/13	10:44:00	2.11	
04/03/13	10:46:00	2.33	
04/03/13	10:48:00	2.55	
04/03/13	10:50:00	2.74	
04/03/13	10:52:00	2.95	
04/03/13	10:54:00	3.32	
04/03/13	10:56:00	3.32	
04/03/13	10:58:00	3.32	
04/03/13	11:00:00	3.47	
04/03/13	11:02:00	3.26	44
04/03/13	11:04:00	2.37	44
04/04/13	8:54:00	0.22	
04/04/13	8:56:00	3.03	
04/04/13	8:58:00	2.18	
04/04/13	9:00:00	1.93	
04/04/13	9:02:00	1.84	

04/04/13	9:04:00	1.81	
04/04/13	9:06:00	1.80	
04/04/13	9:08:00	1.80	
04/04/13	9:10:00	1.80	
04/04/13	9:12:00	1.80	
04/04/13	9:14:00	1.80	
04/04/13	9:16:00	1.78	
04/04/13	9:18:00	1.85	
04/04/13	9:20:00	2.04	
04/04/13	9:22:00	2.02	
04/04/13	9:24:00	1.98	
04/04/13	9:26:00	1.85	2.4
04/04/13	9:28:00	0.31	34
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04/04/13	13:14:00	2.94	
04/04/13 04/04/13	13:16:00	2.94	
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04/04/13	13:22:00	2.56	44
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		2.71	
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04/08/13	9:28:00	2.16	
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		2.05	
04/08/13	9:32:00		
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		2.32	
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04/12/13	10:56:00	1.97	
04/12/13	10:58:00	1.97	
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04/12/13	11:04:00	1.98	
04/12/13	11:06:00	1.98	
04/12/13	11:08:00	1.93	
04/12/13	11:10:00	1.86	
04/12/13	11:12:00	2.76	
04/12/13	11:14:00	2.80	
04/12/13	11:16:00	2.83	
04/12/13	11:18:00	2.57	48
04/15/13	10:04:00	0.72	
04/15/13	10:06:00	3.16	
04/15/13	10:08:00	3.17	
04/15/13	10:10:00	2.26	
04/15/13	10:12:00	2.23	
		2.00	
04/15/13	10:14:00		
04/15/13	10:16:00	1.86	
04/15/13	10:18:00	1.82	
04/15/13	10:20:00	1.90	
04/15/13	10:22:00	1.71	
04/15/13	10:24:00	1.72	
04/15/13	10:26:00	1.73	
04/15/13	10:28:00	1.70	
04/15/13	10:30:00	1.70	
04/15/13	10:32:00	1.70	
04/15/13	10:34:00	1.82	
04/15/13	10:36:00	2.25	
04/15/13	10:38:00	2.63	
04/15/12	10:40:00	3.60	
04/15/13	10:40:00	2.60	20
04/15/13 04/15/13	10:40:00 10:42:00	2.60 2.22	38
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04/15/13 04/15/13	10:42:00 13:00:00	2.22 2.37	38
04/15/13 04/15/13 04/15/13	10:42:00 13:00:00 13:02:00	2.22 2.37 2.35	38
04/15/13 04/15/13 04/15/13 04/15/13	10:42:00 13:00:00 13:02:00 13:04:00	2.22 2.37 2.35 2.35	38
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04/16/13	9:42:00	2.78	
04/16/13	9:44:00	1.84	24
04/17/13	8:54:00	0.40	
04/17/13 04/17/13	8:56:00 8:58:00	2.60 2.06	
04/17/13	9:00:00	1.86	
04/17/13	9:02:00	1.92	
04/17/13	9:04:00	1.89	
04/17/13	9:06:00	1.69	
04/17/13	9:08:00	1.64	
04/17/13	9:10:00	1.64	
04/17/13	9:12:00	1.64 1.64	
04/17/13 04/17/13	9:14:00 9:16:00	1.64	
04/17/13	9:18:00	1.75	
04/17/13	9:20:00	2.09	
04/17/13	9:22:00	2.51	
04/17/13	9:24:00	2.59	
04/17/13	9:26:00	0.67	32
04/47/43	43.43.00	0.75	
04/17/13 04/17/13	12:42:00 12:44:00	0.75 2.56	
04/17/13	12:46:00	2.30	
04/17/13	12:48:00	2.09	
04/17/13	12:50:00	2.07	
04/17/13	12:52:00	1.84	
04/17/13	12:54:00	1.84	
04/17/13	12:56:00	1.84	
04/17/13	12:58:00	1.84 2.34	
04/17/13 04/17/13	13:00:00 13:02:00	2.55	
04/17/13	13:04:00	2.70	
04/17/13	13:06:00	2.54	
04/17/13	13:08:00	2.45	
04/17/13	13:10:00	0.79	28
	40.44.00		
04/19/13	10:44:00	0.27	
04/19/13 04/19/13	10:46:00 10:48:00	2.51 2.12	
04/19/13	10:50:00	2.12	
04/19/13	10:52:00	2.12	
04/19/13	10:54:00	2.01	
04/19/13	10:56:00	1.84	
04/19/13	10:58:00	1.93	
04/19/13	11:00:00	1.87	
04/19/13 04/19/13	11:02:00 11:04:00	1.87 1.87	
04/19/13	11:06:00	1.85	
04/19/13	11:08:00	1.84	
04/19/13	11:10:00	1.84	
04/19/13	11:12:00	1.84	
04/19/13	11:14:00	1.84	
04/19/13	11:16:00	2.17	
04/19/13 04/19/13	11:18:00 11:20:00	2.66 2.76	
04/19/13	11:22:00	2.76	
04/19/13	11:24:00	1.79	40
04/22/13	9:26:00	2.85	
04/22/13	9:28:00	2.79	
04/22/13	9:30:00	2.79	
04/22/13 04/22/13	9:32:00 9:34:00	2.96 2.80	
04/22/13	9:36:00	2.60	
04/22/13	9:38:00	2.43	
04/22/13	9:40:00	1.98	
04/22/13	9:42:00	1.87	
04/22/13	9:44:00	1.62	
04/22/13	9:46:00	2.06	
04/22/13	9:48:00	2.62	
04/22/13 04/22/13	9:50:00 9:52:00	2.62 2.86	
0-1/22/13	3.32.00	2.00	

04/22/13	9:54:00	1.93	28
04/22/13	12:42:00	0.03	
04/22/13	12:44:00	2.44	
04/22/13	12:46:00	1.99	
04/22/13	12:48:00	1.80	
04/22/13	12:50:00	1.80	
04/22/13	12:52:00	1.72	
04/22/13	12:54:00	1.55	
04/22/13	12:56:00	1.63	
04/22/13	12:58:00	2.42	
04/22/13	13:00:00	2.50	
04/22/13	13:02:00	2.68	
04/22/13	13:04:00	0.31	22
04/23/13	13:04:00	0.41	
04/23/13	13:06:00	2.92	
04/23/13	13:08:00	2.92	
04/23/13	13:10:00	2.17	
04/23/13	13:12:00	2.00	
04/23/13	13:14:00	1.85	
04/23/13	13:16:00	1.70	
04/23/13	13:18:00	1.60	
04/23/13	13:20:00	1.60	
04/23/13	13:22:00	1.60	
04/23/13	13:24:00	1.60	
04/23/13	13:26:00	1.60	
04/23/13	13:28:00	1.60	
04/23/13	13:30:00	1.60	
04/23/13	13:32:00	1.82	
04/23/13	13:34:00	1.87	
04/23/13	13:36:00	1.87	
04/23/13	13:38:00	1.87	
04/23/13	13:40:00	1.87	
04/23/13	13:42:00	1.08	38
04/23/13	13.42.00	1.00	30
0.4/0.4/4.0	40.00.00	4.40	
04/24/13	10:02:00	1.12	
04/24/13	10:04:00	2.51	
04/24/13	10:06:00	2.52	
04/24/13	10:08:00	2.38	
04/24/13	10:10:00	1.84	
04/24/13		1.67	- 1
	10:12:00		
04/24/13	10:14:00	1.45	
04/24/13	10:16:00	1.52	
04/24/13	10:18:00	1.43	
04/24/13	10:20:00	1.43	
04/24/13	10:22:00	1.43	
04/24/13	10:24:00	1.69	
04/24/13		2.05	
	10:26:00		
04/24/13	10:28:00	2.58	
04/24/13	10:30:00	1.15	28
04/24/13	12:48:00	0.72	
04/24/13	12:50:00	2.74	
04/24/13	12:52:00	2.00	
04/24/13	12:54:00	1.83	
04/24/13			
	12:56:00	1.81	
04/24/13	12:58:00	1.78	
04/24/13	13:00:00	1.73	
04/24/13	13:02:00	1.69	
04/24/13	13:04:00	1.71	
04/24/13	13:06:00	1.52	
04/24/13	13:08:00	1.54	
04/24/13	13:10:00	1.53	
04/24/13	13:12:00	1.53	
04/24/13	13:14:00	2.30	
04/24/13	13:16:00	2.80	
04/24/13	13:18:00	2.69	
04/24/13	13:20:00	2.51	
04/24/13	13:22:00	2.75	
04/24/13	13:24:00	2.62	
04/24/13	13:26:00	2.49	
04/24/13	13:28:00	0.52	40
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04/25/13	13:18:00	1.09	
04/25/13	13:20:00	2.36	
04/25/13	13:22:00	1.61	
04/25/13	13:24:00	1.55	
04/25/13	13:26:00	1.55	
04/25/13	13:28:00	1.33	
04/25/13	13:30:00	1.30	
04/25/13	13:32:00	1.29	
04/25/13	13:34:00	1.29	
04/25/13	13:36:00	1.91	
04/25/13	13:38:00	2.61	
04/25/13	13:40:00	2.36	22
04/26/13	12:30:00	2.07	
04/26/13	12:32:00	2.78	
04/26/13	12:34:00	1.51	
04/26/13	12:36:00	1.40	
04/26/13	12:38:00	1.32	
04/26/13	12:40:00	1.16	
04/26/13	12:42:00	1.16	
04/26/13	12:44:00	1.26	
04/26/13	12:46:00	1.19	
		1.42	
04/26/13	12:48:00		
04/26/13	12:50:00	1.44	
04/26/13	12:52:00	1.44	
04/26/13	12:54:00	1.44	
04/26/13	12:56:00	1.44	
04/26/13	12:58:00	1.44	
04/26/13	13:00:00	1.44	
04/26/13	13:02:00	1.44	
04/26/13	13:04:00	1.44	
04/26/13	13:06:00	1.41	
04/26/13	13:08:00	1.20	
04/26/13	13:10:00	1.37	
04/26/13	13:12:00	1.44	
04/36/13			
04/26/13	13:14:00	1.47	
04/26/13	13:16:00	1.69	
04/26/13 04/26/13			
04/26/13	13:16:00	1.69	
04/26/13 04/26/13	13:16:00 13:18:00	1.69 1.69	52
04/26/13 04/26/13 04/26/13	13:16:00 13:18:00 13:20:00	1.69 1.69 1.69	52
04/26/13 04/26/13 04/26/13 04/26/13	13:16:00 13:18:00 13:20:00 13:22:00	1.69 1.69 1.69 0.92	52
04/26/13 04/26/13 04/26/13 04/26/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00	1.69 1.69 1.69 0.92	52
04/26/13 04/26/13 04/26/13 04/26/13 04/29/13 04/29/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00	1.69 1.69 1.69 0.92 0.84 3.07	52
04/26/13 04/26/13 04/26/13 04/26/13 04/29/13 04/29/13 04/29/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00 10:54:00	1.69 1.69 1.69 0.92 0.84 3.07 2.15	52
04/26/13 04/26/13 04/26/13 04/26/13 04/29/13 04/29/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00	1.69 1.69 1.69 0.92 0.84 3.07	52
04/26/13 04/26/13 04/26/13 04/26/13 04/29/13 04/29/13 04/29/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00 10:54:00	1.69 1.69 1.69 0.92 0.84 3.07 2.15	52
04/26/13 04/26/13 04/26/13 04/26/13 04/29/13 04/29/13 04/29/13 04/29/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00 10:54:00 10:56:00	1.69 1.69 1.69 0.92 0.84 3.07 2.15 1.80	52
04/26/13 04/26/13 04/26/13 04/26/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00 10:54:00 10:56:00 10:58:00 11:00:00	1.69 1.69 1.69 0.92 0.84 3.07 2.15 1.80 1.93 1.80	52
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04/26/13 04/26/13 04/26/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00 10:54:00 10:56:00 10:58:00 11:00:00 11:02:00 11:04:00	1.69 1.69 1.69 0.92  0.84 3.07 2.15 1.80 1.93 1.80 1.94 2.35	52
04/26/13 04/26/13 04/26/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00 10:54:00 10:56:00 10:58:00 11:00:00 11:02:00 11:04:00 11:06:00	1.69 1.69 1.69 0.92 0.84 3.07 2.15 1.80 1.93 1.80 1.94 2.35 2.08	52
04/26/13 04/26/13 04/26/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00 10:54:00 10:56:00 10:58:00 11:00:00 11:02:00 11:04:00 11:06:00 11:08:00	1.69 1.69 1.69 0.92 0.84 3.07 2.15 1.80 1.93 1.80 1.94 2.35 2.08 1.87	52
04/26/13 04/26/13 04/26/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00 10:54:00 10:56:00 10:58:00 11:00:00 11:02:00 11:04:00 11:06:00	1.69 1.69 1.69 0.92 0.84 3.07 2.15 1.80 1.93 1.80 1.94 2.35 2.08	52
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04/26/13 04/26/13 04/26/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/30/13 04/30/13 04/30/13 04/30/13 04/30/13 04/30/13 04/30/13 04/30/13 04/30/13 04/30/13 04/30/13	13:16:00 13:18:00 13:20:00 13:22:00  10:50:00 10:52:00 10:54:00 10:58:00 11:00:00 11:02:00 11:04:00 11:06:00 11:10:00 11:12:00 9:00:00 9:02:00 9:04:00 9:04:00 9:06:00 9:08:00 9:11:00 9:12:00 9:14:00 9:16:00 9:18:00 9:20:00	1.69 1.69 1.69 1.69 0.92  0.84 3.07 2.15 1.80 1.93 1.80 1.94 2.35 2.08 1.87 2.12 2.54  0.62 2.62 2.68 1.87 1.67 1.60 1.42 1.48 1.45 1.45 1.54	
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04/26/13 04/26/13 04/26/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/29/13 04/30/13	13:16:00 13:18:00 13:20:00 13:22:00 10:50:00 10:52:00 10:54:00 10:58:00 11:00:00 11:00:00 11:06:00 11:08:00 11:10:00 9:00:00 9:02:00 9:04:00 9:04:00 9:10:00 9:11:00 9:11:00 9:11:00 9:11:00 9:12:00 9:14:00 9:18:00 9:12:00 9:14:00 9:12:00 9:14:00 9:12:00	1.69 1.69 1.69 1.69 0.92  0.84 3.07 2.15 1.80 1.93 1.80 1.94 2.35 2.08 1.87 2.12 2.54  0.62 2.62 2.68 1.87 1.67 1.60 1.42 1.48 1.45 1.45 1.54 1.53 2.10 2.44	
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Time	Average Differential Pressure	Run Time	Total Run Time Min.	666 Hours	11.1
1-MAY-2013	12:54	0.81			
1-MAY-2013	12:56	2.41			
1-MAY-2013	12:58	2.46			
1-MAY-2013	13:00	2.23			
1-MAY-2013	13:02	2.19			
1-MAY-2013	13:04	2.01			
1-MAY-2013	13:06	2.11			
1-MAY-2013	13:08	2.43			
1-MAY-2013	13:10	2.52			
1-MAY-2013	13:12	2.36			
1-MAY-2013	13:14	2.36			
1-MAY-2013	13:16	2.47			
1-MAY-2013	13:18	2.47			
1-MAY-2013	13:20	2.5			
1-MAY-2013	13:22	2.67			
1-MAY-2013	13:24	2.52			
1-MAY-2013	13:26	1.67			
2-MAY-2013	12:54	0.57			
2-MAY-2013	12:56	2.63			
2-MAY-2013	12:58	2.64			
		2.23			
2-MAY-2013	13:00	2.04			
2-MAY-2013	13:02	1.83			
2-MAY-2013	13:04	1.76			
2-MAY-2013	13:06	1.75			
2-MAY-2013	13:08				
2-MAY-2013	13:10	1.72			
2-MAY-2013	13:12	1.72 1.72			
2-MAY-2013	13:14	1.72			
2-MAY-2013	13:16				
2-MAY-2013	13:18	1.71			
2-MAY-2013	13:20	2.07			
2-MAY-2013	13:22	2.47			
2-MAY-2013	13:24	2.41	32		
2-MAY-2013	13:26	1.8	32		
3-MAY-2013	9:00	0.3			
3-MAY-2013	9:02	2.5			
3-MAY-2013	9:04	1.89			
3-MAY-2013	9:06	1.59			
3-MAY-2013	9:08	1.59			
3-MAY-2013	9:10	1.59			
3-MAY-2013	9:12	1.38			
3-MAY-2013	9:14	1.34			
3-MAY-2013	9:16	1.49			
3-MAY-2013	9:18	1.49			
3-MAY-2013	9:20	1.95			
3-MAY-2013	9:22	2.34			
3-MAY-2013	9:24	2.34			
3-MAY-2013	9:26	1.05	26		
6-MAY-2013	13:30	1.53			
6-MAY-2013	13:32	2.17			
6-MAY-2013	13:34	1.83			
6-MAY-2013	13:36	1.83			
6-MAY-2013	13:38	1.8			
6-MAY-2013	13:40	1.58			
6-MAY-2013	13:42	1.58			
6-MAY-2013	13:44	1.58			
6-MAY-2013	13:46	1.58			
6-MAY-2013	13:48	1.58			
6-MAY-2013	13:50	1.65			
6-MAY-2013	13:52	2.39			
6-MAY-2013	13:54	2.39			
	20.0				

6-MAY-2013	13:56	2.39	
6-MAY-2013	13:58	0.81	28
0-141A1-2015	13.50	0.81	20
7-MAY-2013	9:08	0.8	
7-MAY-2013	9:10	1.9	
7-MAY-2013	9:12	1.65	
7-MAY-2013	9:14	1.57	
7-MAY-2013	9:16	1.57	
7-MAY-2013	9:18	1.44	
7-MAY-2013 7-MAY-2013			
	9:20	1.32	
7-MAY-2013	9:22	1.32	
7-MAY-2013	9:24	1.32	
7-MAY-2013	9:26	1.55	
7-MAY-2013	9:28	2.44	
7-MAY-2013	9:30	2.56	22
7 111111 2020	3.00	2.50	
7-MAY-2013	13.44	0.00	
	12:44	0.88	
7-MAY-2013	12:46	2.26	
7-MAY-2013	12:48	2.03	
7-MAY-2013	12:50	2	
7-MAY-2013	12:52	2	
7-MAY-2013	12:54	1.83	
7-MAY-2013	12:56	1.75	
7-MAY-2013	12:58	1.99	
7-MAY-2013	13:00	2.48	
7-MAY-2013	13:02	2.23	18
8-MAY-2013	10:28	0.55	
8-MAY-2013	10:30	2.12	
8-MAY-2013	10:32	1.79	
8-MAY-2013	10:34	1.65	
8-MAY-2013	10:36	1.69	
8-MAY-2013	10:38	1.7	
8-MAY-2013	10:40	1.52	
8-MAY-2013	10:42	1.51	
8-MAY-2013	10:44	1.55	
8-MAY-2013	10:46	1.55	
	10:48		
8-MAY-2013		1.55	
8-MAY-2013	10:50	1.84	
8-MAY-2013	10:52	2.43	
8-MAY-2013	10:54	2.62	
8-MAY-2013	10:56	1.16	28
8-MAY-2013	13:08	2.92	
8-MAY-2013	13:10	2.93	
8-MAY-2013	13:12	2.75	
8-MAY-2013	13:14	3.01	
8-MAY-2013	13:16	2.4	
8-MAY-2013	13:18	1.79	
8-MAY-2013	13:20	1.7	
8-MAY-2013	13:22	1.7	
8-MAY-2013	13:24	1.7	
8-MAY-2013	13:26	1.7	
8-MAY-2013	13:28	1.65	
8-MAY-2013	13:30	0.33	22
10-May-13	9:14	0.33	
10-May-13	9:16	1.59	
10-May-13	9:18	1.48	
•		1.48	
10-May-13	9:20		
10-May-13	9:22	1.48	
10-May-13	9:24	1.47	
10-May-13	9:26	1.47	
10-May-13	9:28	1.47	
	V.=V		
10-May-13	9:30	1.47	

10-May-13	9:32	1.47	
10-May-13	9:34	1.47	
10-May-13	9:36	1.47	
10-May-13	9:38	1.47	
10-May-13	9:40	1.47	
10-May-13	9:42	1.47	
	9:44	1.47	
10-May-13			
10-May-13	9:46	1.47	
10-May-13	9:48	1.47	
10-May-13	9:50	1.47	
10-May-13	9:52	1.47	
10-May-13	9:54	1.47	
10-May-13	9:56	1.47	
10-May-13	9:58	1.4	
10-May-13	10:00	1.22	
10-May-13	10:02	1.45	
10-May-13	10:04	1.9	
10-May-13	10:06	1.99	
10-May-13	10:08	2.18	
10-May-13	10:10	2.18	
10-May-13	10:12		58
10-IVIAY-13	10.12	0.07	30
10.14 12	12:10	3.03	
10-May-13	12:10	2.02	
10-May-13	12:12	1.9	
10-May-13	12:14	1.79	
10-May-13	12:16	1.72	
10-May-13	12:18	1.83	
10-May-13	12:20	1.58	
10-May-13	12:22	1.59	
10-May-13	12:24	1.66	
10-May-13	12:26	1.66	
10-May-13	12:28	1.66	
10-May-13	12:30	1.63	
10-May-13	12:32	1.83	
10-May-13	12:34	1.66	
10-May-13	12:36	1.62	
		1.65	
10-May-13	12:38		
10-May-13	12:40	1.65	
10-May-13	12:42	1.31	
13-May-13	13:00	0.14	
13-May-13	13:02	2.11	
13-May-13	13:04	1.95	
13-May-13	13:06	1.95	
13-May-13	13:08	1.94	
13-May-13	13:10	1.93	
13-May-13	13:12	1.69	
13-May-13	13:14	1.77	
13-May-13	13:16	2.02	
13-May-13	13:18	1.89	
13-May-13	13:20	1.76	
13-May-13	13:22	1.95	
13-May-13	13:24		74
13-IVIAY-13	13.24	0.07	, ,
44.14 42	12:04	1.40	
14-May-13	13:04	1.49	
14-May-13	13:06	2	
14-May-13	13:08	1.83	
14-May-13	13:10	1.74	
14-May-13	13:12	1.77	
14-May-13	13:14	1.76	
14-May-13	13:16	1.76	
14-May-13	13:18	1.76	
14-May-13	13:20	2.26	
14-May-13	13:22	2.67	
14-May-13	13:24	3.07	
14-May-13	13:26		22
,			

15-May-13	12:44	2.31	
15-May-13	12:46	3.06	
15-May-13	12:48	2.52	
15-May-13	12:50	2.27	
15-May-13	12:52	2.26	
	12:54	2.06	
15-May-13			
15-May-13	12:56	2.06	
15-May-13	12:58	2.06	
15-May-13	13:00	2.04	
15-May-13	13:02	2.22	
15-May-13	13:04	2.88	
15-May-13	13:06	2.84	
15-May-13	13:08	0.14	24
	40.04	2.00	
16-May-13	10:34	2.88	
16-May-13	10:36	2.17	
16-May-13	10:38	1.9	
16-May-13	10:40	1.9	
16-May-13	10:42	1.73	
16-May-13	10:44	1.65	
16-May-13	10:46	1.65	
16-May-13	10:48	2.17	
16-May-13	10:50	2.43	
16-May-13	10:52	2.15	
16-May-13	12:38	0.01	
16-May-13	12:40	2.63	
•			
16-May-13	12:42	2.63	
16-May-13	12:44	2.38	
16-May-13	12:46	2.31	
16-May-13	12:48	2.26	
16-May-13	12:50	2.24	
16-May-13	12:52	2.71	
16-May-13	12:54	2.95	
16-May-13	12:56	2.93	
16-May-13	12:58	2.93	
16-May-13	13:00	3.07	
16-May-13	13:02	2.96	
16-May-13	13:04	2.81	
16-May-13	13:06	3.11	
16-May-13	13:08	3.04	
-	13:10	2.89	
16-May-13			
16-May-13	13:12	2.81	160
16-May-13	13:14	2.85	160
20-May-13	10:20	0.06	
20-May-13	10:22	1.4	
20-May-13	10:24	2.91	
20-May-13	10:26	3.12	
20-May-13	10:28	3.27	
•			
20-May-13	10:30	3.37	
20-May-13	10:32	3.37	
20-May-13	10:34	3.37	
20-May-13	10:36	3.37	
20-May-13	10:38	3.37	
20-May-13	10:40	3.37	
20-May-13	10:42	3.62	
20-May-13	10:44	3.62	
20-May-13	10:46	3.62	
20-May-13	10:48	3.62	
20-May-13	10:50	0.44	30
22-May-13	8:56	2.82	
22-May-13	8:58	3.28	
22-May-13	9:00	2.71	

22-May-13	9:02	2.29	
22-May-13	9:04	2.29	
22-May-13	9:06	2.11	
22-May-13	9:08	2.03	
22-May-13	9:10	2.06	
22-May-13	9:12	2.06	
22-May-13	9:14	2.06	
22-May-13	9:16	2.18	
22-May-13	9:18	2.12	
22-May-13	9:20	1.95	
22-May-13	9:22	0.57	26
22-May-13	12:44	1	
22-May-13	12:46	1.29	
		1.29	
22-May-13	12:48		
22-May-13	12:50	1.29	
22-May-13	12:52	1.29	
22-May-13	12:54	1.08	
22-May-13	12:56	1.04	
22-May-13	12:58	1.04	
22-May-13	13:00	1.04	
22-May-13	13:02	1.26	
	13:04	1.93	
22-May-13			
22-May-13	13:06	2.11	
22-May-13	13:08	2.11	
22-May-13	13:10	2.19	
22-May-13	13:12	2.28	
22-May-13	13:14	2.15	
22-May-13	13:16	2.48	
22-May-13	13:18	2.84	
22-May-13	13:20	2.74	
22-May-13	13:22	2.57	40
22-May-13	13:22 13:24	1.68	40
22-May-13	13:24	1.68	40
22-May-13 30-May-13	13:24 10:24	1.68 0.29	40
22-May-13	13:24	1.68	40
22-May-13 30-May-13	13:24 10:24	1.68 0.29	40
22-May-13 30-May-13 30-May-13	13:24 10:24 10:26	1.68 0.29 2.72	40
22-May-13 30-May-13 30-May-13 30-May-13	13:24 10:24 10:26 10:28	1.68 0.29 2.72 2.75	40
22-May-13 30-May-13 30-May-13 30-May-13 30-May-13	13:24 10:24 10:26 10:28 10:30 10:32	1.68 0.29 2.72 2.75 2.68 2.91	40
22-May-13 30-May-13 30-May-13 30-May-13 30-May-13 30-May-13	13:24 10:24 10:26 10:28 10:30 10:32 10:34	1.68 0.29 2.72 2.75 2.68 2.91 2.8	40
22-May-13 30-May-13 30-May-13 30-May-13 30-May-13 30-May-13 30-May-13	13:24 10:24 10:26 10:28 10:30 10:32 10:34 10:36	1.68 0.29 2.72 2.75 2.68 2.91 2.8 2.42	40
22-May-13 30-May-13 30-May-13 30-May-13 30-May-13 30-May-13 30-May-13 30-May-13	13:24 10:24 10:26 10:28 10:30 10:32 10:34 10:36 10:38	1.68 0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99	40
22-May-13 30-May-13 30-May-13 30-May-13 30-May-13 30-May-13 30-May-13 30-May-13 30-May-13	13:24 10:24 10:26 10:28 10:30 10:32 10:34 10:36 10:38 10:40	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91	40
22-May-13 30-May-13	13:24 10:24 10:26 10:28 10:30 10:32 10:34 10:36 10:38 10:40 10:42	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14	40
22-May-13 30-May-13	13:24 10:24 10:26 10:28 10:30 10:32 10:34 10:36 10:38 10:40	1.68  0.29  2.72  2.75  2.68  2.91  2.8  2.42  1.99  1.91  2.14  2.63	40
22-May-13 30-May-13	13:24 10:24 10:26 10:28 10:30 10:32 10:34 10:36 10:38 10:40 10:42	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44	1.68  0.29  2.72  2.75  2.68  2.91  2.8  2.42  1.99  1.91  2.14  2.63	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52  10:54	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52  10:54  10:56	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99	40
22-May-13  30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52  10:54  10:56  10:58	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99	40
22-May-13  30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52  10:54  10:56  10:58  11:00	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.88	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52  10:54  10:56  10:58  11:00  11:02	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.99 1.88 1.74	40
22-May-13  30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52  10:54  10:56  10:58  11:00	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.88	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52  10:54  10:56  10:58  11:00  11:02	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.99 1.88 1.74	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52  10:54  10:56  10:58  11:00  11:02  11:04	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.88 1.74 1.74	40
22-May-13 30-May-13	13:24  10:24 10:26 10:28 10:30 10:32 10:34 10:36 10:38 10:40 10:42 10:44 10:46 10:48 10:50 10:52 10:54 10:56 10:58 11:00 11:02 11:04 11:06	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.88 1.74 1.74	40
22-May-13 30-May-13	13:24  10:24 10:26 10:28 10:30 10:32 10:34 10:36 10:38 10:40 10:42 10:44 10:46 10:48 10:50 10:52 10:54 10:56 10:58 11:00 11:02 11:04 11:06 11:08 11:10	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.99 1.88 1.74 1.74 1.74 1.74	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52  10:54  10:56  10:58  11:00  11:02  11:04  11:06  11:08  11:10  11:12	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.99 1.88 1.74 1.74 1.74 1.74 1.74 1.74	40
22-May-13 30-May-13	13:24  10:24  10:26  10:28  10:30  10:32  10:34  10:36  10:38  10:40  10:42  10:44  10:46  10:48  10:50  10:52  10:54  10:56  10:58  11:00  11:02  11:04  11:06  11:08  11:10  11:12  11:14	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.99 1.88 1.74 1.74 1.74 1.74 1.74 1.74 1.74 1.74	40
22-May-13 30-May-13	13:24  10:24 10:26 10:28 10:30 10:32 10:34 10:36 10:38 10:40 10:42 10:44 10:46 10:48 10:50 10:52 10:54 10:56 10:58 11:00 11:02 11:04 11:06 11:08 11:10 11:12 11:14 11:16	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.99 1.88 1.74 1.74 1.74 1.74 1.74 1.74 1.74 1.75 1.85 1.85	40
22-May-13 30-May-13	13:24  10:24 10:26 10:28 10:30 10:32 10:34 10:36 10:38 10:40 10:42 10:44 10:46 10:48 10:50 10:52 10:54 10:56 10:58 11:00 11:02 11:04 11:06 11:08 11:10 11:12 11:14 11:16 11:18	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.99 1.88 1.74 1.74 1.74 1.74 1.74 1.74 1.74 1.75 1.85 1.85	
22-May-13 30-May-13	13:24  10:24 10:26 10:28 10:30 10:32 10:34 10:36 10:38 10:40 10:42 10:44 10:46 10:48 10:50 10:52 10:54 10:56 10:58 11:00 11:02 11:04 11:06 11:08 11:10 11:12 11:14 11:16	1.68  0.29 2.72 2.75 2.68 2.91 2.8 2.42 1.99 1.91 2.14 2.63 2.84 2.72 2.6 2.83 2.38 1.99 1.99 1.99 1.88 1.74 1.74 1.74 1.74 1.74 1.74 1.74 1.75 1.85 1.85	56

Time	Run Time	Average Differential Pressure	Total Run Time Min.	196	Hours	3.27
3-JUN-2013	9:36:00	0.06				
3-JUN-2013	9:38:00	1.64				
3-JUN-2013	9:40:00	1.89				
3-JUN-2013	9:42:00	1.89				
3-JUN-2013	9:44:00	1.89				
3-JUN-2013	9:46:00	1.89				
3-JUN-2013	9:48:00	1.66				
3-JUN-2013	9:50:00	1.63				
3-JUN-2013	9:52:00	1.65				
3-JUN-2013	9:54:00	1.65				
3-JUN-2013	9:56:00	1.65				
3-JUN-2013	9:58:00	2.29				
3-JUN-2013	10:00:00	2.55				
3-JUN-2013	10:02:00	1.77	r: 26			
3-JUN-2013	12:54:00	2.51				
3-JUN-2013	12:56:00	2.82				
3-JUN-2013	12:58:00	2.82				
3-JUN-2013	13:00:00	2.93				
3-JUN-2013	13:02:00	2.77				
3-JUN-2013	13:04:00	2.68				
3-JUN-2013	13:06:00	2.63				
3-JUN-2013	13:08:00	2.82				
3-JUN-2013	13:10:00	2.64				
3-JUN-2013	13:12:00	2.28	18			
4-JUN-2013	9:18:00	1.82				
4-JUN-2013	9:20:00	2.2				
4-JUN-2013	9:22:00	1.62				
4-JUN-2013	9:24:00	1.57				
4-JUN-2013	9:26:00	1.57				
4-JUN-2013	9:28:00	1.57				
4-JUN-2013	9:30:00	1.35				
4-JUN-2013	9:32:00	1.32				
4-JUN-2013	9:34:00	1.47				
4-JUN-2013	9:36:00	2.19				
4-JUN-2013	9:38:00	2.67				
4-JUN-2013	9:40:00	2.6 0.14	24			
4-JUN-2013	9:42:00	0.14	24			
11-JUN-2013	8:52:00	2.11				
11-JUN-2013	8:54:00	2.44				
11-JUN-2013	8:56:00	2.02				
11-JUN-2013	8:58:00	1.94				
11-JUN-2013	9:00:00	1.99				
11-JUN-2013	9:02:00	1.75				
11-JUN-2013	9:04:00	1.74				
11-JUN-2013	9:06:00	1.74				
11-JUN-2013	9:08:00	1.74				
11-JUN-2013	9:10:00	1.77				
11-JUN-2013	9:12:00	2.37				
11-JUN-2013	9:14:00	2.3				
11-JUN-2013	9:16:00	2.39				
11-JUN-2013	9:18:00	2.97				
11-JUN-2013	9:20:00	2.97				
11-JUN-2013	9:22:00	2.96				
11-JUN-2013	9:24:00	3.03				
11-JUN-2013	9:26:00	3.05				
11-JUN-2013	9:28:00	2.88				
11-JUN-2013	9:30:00	2.89				
11-JUN-2013	9:32:00	1.72	40			
44 11.11.45.5	40.00.00	2.53				
11-JUN-2013	12:38:00	2.57				
11-JUN-2013	12:40:00	3.11				

11-JUN-2013	12:42:00	1.87	
11-JUN-2013	12:44:00	1.68	
11-JUN-2013	12:46:00	1.68	
11-JUN-2013	12:48:00	1.56	
11-JUN-2013	12:50:00	1.43	
11-JUN-2013	12:52:00	1.44	
11-JUN-2013	12:54:00	1.43	
11-JUN-2013	12:56:00	1.76	
11-JUN-2013	12:58:00	2.23	
11-JUN-2013	13:00:00	2.28	
11-JUN-2013	13:02:00	2.3	
11-JUN-2013	13:04:00	2.46	
11-JUN-2013	13:06:00	1.98	
11-JUN-2013	13:08:00	2.74	
11-JUN-2013	13:10:00	2.48	
11-JUN-2013	13:12:00	2.43	
11-JUN-2013	13:14:00	2.57	
11-JUN-2013	13:16:00	2.55	
11-JUN-2013	13:18:00	2.55	
11-JUN-2013	13:20:00	2.63	
11-JUN-2013	13:22:00	1.94	£.
11-JUN-2013	13:24:00	1.7	
11-JUN-2013	13:26:00	1.7	
11-JUN-2013	13:28:00	1.67	
11-JUN-2013	13:30:00	1.67	
11-JUN-2013	13:32:00	1.73	
11-JUN-2013	13:34:00	2.28	
11-JUN-2013	13:36:00	2.27	
11-JUN-2013	13:38:00	0.83	60
12-JUN-2013	9:18:00	0.98	
12-JUN-2013	9:20:00	1.52	
12-JUN-2013	9:22:00	1.42	
12-JUN-2013	9:24:00	1.6	
12-JUN-2013	9:26:00	1.81	
12-JUN-2013	9:28:00	1.8	
12-JUN-2013	9:30:00	1.82	
12-JUN-2013	9:32:00	2.12	
12-JUN-2013	9:34:00	2.1	
12-JUN-2013	9:36:00	2.28	
12-JUN-2013	9:38:00	2.44	
12-JUN-2013	9:40:00	2.52	
12-JUN-2013	9:42:00	2.27	
12-JUN-2013	9:44:00	2.3	
12-JUN-2013	9:46:00	1.71	28
			196

#### **ATTACHMENT A607.C**

Asphalt Plant

Method 9 Opacity Reports

Los Alamos	LOS ALAMOS NATIONAL	LABOR	ATOR	vσ	ANT	<b>)</b>		
	VISIBLE EMISSION OBSERV							
Source Name:	It Bath Plant		25			Start 7	line 46	End Time
Source Location:	It batch Flant	11-	Sec	/ 13		100	776	10.52
TA 60		Min	<u></u>	0	15	30	45	Comments
Type of Source	Type of Control Equipment	1 1		Ø	Ø	Ø	Ø	
Asphalt Plan  Describe Emission Point (Top of		2		Ø	8	0	0	
Baghouse S	tack	3		Ø	6	0	0	
Height Above Ground Level 3 3 Feet	Height Relative to Observer			0	0	Ø	Ó	1.77
Distance From Observer	Direction of Source From Observer	┨ <u>├</u>	.				Ø	
75 Feet	West	5		Ø	Ø	Ø		
Description of Plume (stack exit of ElLofting □Trapping □Loopi	nily) ing □Fanning □Coning	6		Ø	8	Ø	Ø	
ENO Plume Present	i i	. 7						
Emission Color Plume Ty		8						
Water Droplets Present? ☑NO □YES If YES, droplet plu	me is FlAttached - II Detached	9				97. F		
At what point in the plume was op		- 10	0					
2' 90008	top of stack	1	1	DEGREE STATE				
Describe Background (i.e. blue sk		0.0120000000				5.00		
overcast -	261	12	2					
Background Color	Sky Conditions	1	3					
Wind Speed   Wind Dir	ection from/to, i.e. from North to South)	14	1			WEST TO	72.1	
1-2 mm (monate)		(E)(66)(5)(10)	250524/04/0				(26 <u>(26)</u> (26(26)	
Ambient Temperature	Relative Humidity	. 15	)					
40 7	68 %	16	5					
Additional Comments/Information	E	17	7		13/02			
		18						
		19	68001E90524					
		9651976522870	Note and	46 M	EMPER STATE	が設定		
Stack SOURCE I	LAYOUT SKETCH	20	SERVER I					
Plume	Draw Arrow in North Direction	Averag	e 6-Min	ute Op «'	acity		innge o lin.	f Opacity Readings Max.
	nission Point	ODODO	VER (p	2	- 1 10		2	Ø
Wind —	$\mathbf{v}$	Name:	CARK (b	olease j	brant)'	ţ	Thie:	
WIII	$\uparrow$ $\downarrow$	Ch	tt.	(નિષ્ટ	$\iota \wedge \iota$	Sel	6 (	DEP
		Signatu	Å A	1				Dute.
			WI	312	77	U_		1/25/13
		1 1	er Orka					¥
	ODSERVED SOCIETOR		NV	^ E	= >			Contification Det
	OBSERVER'S POSITION	Certifie		^				Certification Date 8/29/12
	140.		T	<u> </u>				0103/10
SUNIOC	ATION LINE							

LOS ALAMOS NATIONAL LABORATORY (LANL) Los Alamos VISIBLE EMISSION OBSERVATION FORM (6 MINUTE) Observation Date Start Time **End Time** Source Name: 2/28/ 13:02 13:08 TAGOAS Sec Source Location: 15 30 Min 45 Comments Ø Type of Squice Type of Control Equipment 1 Ø Ø Ø House Ø 2 Ø Describe Emission Point (Top of stack, etc.) 3 Ø Ø 0 Height Above Ground Level Height Relative to Observer 0 Ø 4 27 0 Feer Feet Distance From Observer 0 Direction of Source From Observer Ø 5 Ø Feet 75 West Ø 0 6 Description of Plume (stack exit only) □Lofting □Trapping □Looping
□No Plume Present □Faming □ Coning 7 ENo Plume Present Emission Color Phune Type 8 □Continuous ☐ Fugitive Disternment N/A Water Droplets Present? 9 **□**Detacked ■ DYES If YES, droplet plume is □ Attached 10 At what point in the plume was opacity determined? above top of 2 11 Describe Background (i.e. blue sky, trees, etc.) clear blue sky 12 Background Color Sky Conditions 13 Wind Speed Wind Direction 14 mph (provide from/to, i.e. from North to South) From NW 15 Relative Humidity Ambient Temperature 4,0 45 34 16 Additional Comments/Information: 17 18 19 20 Stack: SOURCE LAYOUT SKETCH with () Average 6-Minute Opacity Range of Opacity Readings Draw Arrow in Plume Min Max. North Direction Emission ₩ Sim Point OBSERVER (please print) Wind SOW Date FNV-ES Certified by OBSERVER'S POSITION Certification Date 140

SUN LOCATION LINE

The Asphalt plant did not operate during the month of March, 2013. No opacity readings were taken.

LOS ALAMOS NATIONAL VISIBLE EMISSION OBSERV	LABORATO	RY (L	ANL	) TE\		○ <b>©</b> .5
Source Name: A 1 1 0	Observation Da		шч	Start		End Time ,
TA 60 Asphalt Batch Plant	1 4-3-	13		10	: 40	10:46
Source Location:	Min	0	15	30	45	Comments
Type of Source Type of Control Equipment	1	Ø	Ø	Ø	Ø	
Asphalt Plant Bag House Describe Emission Point (Top of stack, etc.)	2	Ø	Ø	0	$ \mathcal{O} $	
Baghewse Stack	3	Ø	0	Ø	0	
Height Above Ground Level Height Relative to Observer  Feet 27 Feet	4	Ø	0	Ø	0	2
Distance From Observer  7 5 Feet Direction of Source From Observer	5	Ø	Ø	Ø	0	
Description of Plume (stack exit only)	6	Ø	Ø	Ø	Ø	
OLoging OTrapping OLooping OFauning OConing	7	M. 1				
Emission Color Plume Type CiNo Plume Present  Continuous	8					
Water Droplets Present?  WYO UYES If YES, droplet plume is Attached Detached	9					
At what point in the plume was opacity determined?  2 Above top of Stack	10 11					
Describe Background (i.e. blue sky, trees, etc.)  Blue Sky	12					
Background Color Sky Sky Conditions Cloudy	13		Indicate and the second			
Wind Speed Wind Direction (provide from/to, i.e. from North to South)	14					
From NE	15					
Ambient Temperature Relative Humidity 42 F \$\frac{45}{3}\text{ %}	16					
Additional Comments/Information:	17					
	18					
	19					
Stack SOURCE LAYOUT SKETCH	20					
with O Draw Arrow in Plume Emission North Direction	Average 6-Mi	nute O	pacity	1	Range of	Opacity Readings Max.
Sun Point	OBSERVER	(please	print)	<u> </u>		
Wind — X	Name: ff	Hei	MS			DEP.
	Signature A	R	A	$\bigcirc$		Date 4-3-13
	Observer Oly	anizati	 			
OBSERVER'S POSITION	Certified by					Certification Date
140'	ET	A				2-27-13
OSUN LOCATION LINE	I I		-			

Source Lecation:   The Control of Source Person Observer   The Control of Source Person Observer   The Control of Plume Canada exist only   The Control of Plume Canada   The Control of Plume Canada exist only   The Control of Plume Canada e	LOS ALAMOS NATIONAL : VISIBLE EMISSION OBSERVA						
Source Lecation:  Type of Source  Type of Sour	Source Name: V 1 1 D D	Observationy D.	ate /	3	Start 1		
Type of Sunger   Type of Control Equipment   Type of Con	Source Location:		0	15			Comments
Describe Emission Point (Top of saych, etc.)    Describe Emission Point (Top of saych, etc.)   Height Above Ground Level     Height Above Ground Level     Height Relative to Observer     3	Type of Source Type of Control Equipment	1	Ø	Ø	0	0	
Background Color   Sky Conditions   Sk		2	8	Ø	d	0	
Height Relative to Observer   3	Baghouse Stack	3	1		1 / 1	8	
Distance From Observer  T 5 Feet  Description of Plume (stack exi culy)  Display   Dis	Height Above Ground Level Height Relative to Observer  7 Feet 2 7 Feet	4	8		-		
Display   Disp		5			Ø	Ø	
Bright   Present   Emussion Color   Phune Type   ENO Plume Peasent   Continuous   Fugitive   Olintemuttent	Description of Plume (stack exit only)		Ø	8	0	Ø	
Stack with   Source Layout sketch   Draw Arrow in   North Direction   Survey   Survey   Stack with   Plume   Source   Stack with   Source   Stack with   Source   Stack   S	E No Plume Present	7					
EMO DYES IF YES, droplet plume is DAtached  At what point in the plume was spacity determined?  Describe Background (cle, blas sky, tree, etc.)  Describe Background (cle, blas sky, tree, etc.)  Describe Background (clore)  Background Colore  Olive  Wind Speed  Wind Direction (provide from/to, i.e. from North to South)  From Wind North Direction (provide from/to, i.e. from North to South)  From Wind North Direction  12  13  14  15  16  17  18  19  Stack with  Town  Source LAYOUT SKETCH  with  North Direction  Point  North Direction  Point  Title:  DEP-  Signature  Date  5/16/13  Observed Organization	N/A □Continuous □ Fugitive □ Intermittent	8			0.00		
Describe Background (i.e. blue sky, trees, etc.)  Background Color  Duce  Wind Speed  3-5 mph  Ambient Temperature  73 F  Relative Humidity  Additional Comments/Information:  Stack with Plume  Flume  Sun  Wind  Source Layout sketch  Draw Arrow in Plume  Sun  Wind  Source Layout sketch  Draw Arrow in Point  X  Draw Arrow in North Direction  Point  North Direction  Point  Title:  DEP-  Signature  Date  5/16/13  Observer Obganization  Date	Water Droplets Present?  BNO DYES If YES, droplet plume is DAttached DDetached						
Describe Background (i.e. bipse sky, trees, etc.)  CRAY DINE Sky Conditions  Background Color Sky Conditions  Wind Speed 3-5 mph Ambieut Temperature 73 *F Relative Humidity 73 *F  Additional Comments/Information:  Stack with Plume Sun		10					
Background Color		11					
Wind Speed 3-5 mph Wind Direction (provide from/to, i.e. from North to South) From Wand North to South)  Ambieut Temperature 73 F Relative Humidity  Additional Comments/Information:  Stack with Plume Plume Sum Draw Arrow in North Direction Point  Wind SOURCE LAYOUT SKETCH  Wind SOURCE LAYOUT SKETCH  Wind SOURCE LAYOUT SKETCH  With Plume Sum Draw Arrow in North Direction Point  Title: DEP-  Signature  Date  5/16/13  Observey Organization  ENV - ES	elear, blue sky	12					
Stack with Plume   Source Layout Sketch   Swind   Sw	blue clear	13		海湖			
Ambieut Temperature 73 F Relative Humidity 76  Additional Comments/Information:  16  18  19  Stack with Plume Sum  Point Wind  X  Stack with Plume Sum  Point  Emission Point  X  Draw Arrow in North Direction Point  X  Draw Arrow in North Direction Point  X  Description  Observe Oganization  ENT  Date  5/16/13	much (amenide Court has in Court to Court)	14					
Additional Comments/Information:    17	From WIDW	15	120	811111			
Stack with Plume Sum Draw Arrow in North Direction Sum Point Wind X  Stack with Draw Arrow in North Direction Point  X  Stack with Draw Arrow in North Direction North Direction Point  X  OBSERVER (please print) Name:  CHO Shap  Date  5/16/13  Observer Organization  ENV - ES		100 Eq. (812 E 812					
Stack with Plume Sum Draw Arrow in North Direction Sum Point Wind Stack with Plume Sum Point Wind Draw Arrow in North Direction North Directio	Additional Comments/Information:	17					
Stack with Plume Sum Draw Arrow in North Direction Sum Point Wind Stack with Plume Sum Point Wind Draw Arrow in North Direction North Directio		18			100000		
with Plume Sim Draw Arrow in North Direction Wind Sim Point  Wind Draw Arrow in North Direction  Average 6-Minute Opacity Range of Opacity Readings Min. Max.  OBSERVER (please print)  Name:  Check Stage of Opacity Readings Min. Max.  OBSERVER (please print)  Name:  Check Stage of Opacity Readings Min. Max.  OBSERVER (please print)  Observer Organization  ENV-ES							
With Plume Sum Point Wind X  Draw Arrow in North Direction  Average 6-Minute Opacity Range of Opacity Rendings Min Max.  OBSERVER (please print)  Name:  C. He in the plume of Opacity Rendings Min Max.  OBSERVER (please print)  Name:  C. He in the plume of Opacity Rendings Min Max.  OBSERVER (please print)  Name:  Observer Organization  ENV - ES	Stack - SOURCE LAVOUT SKETCH	20					
Wind — X  OBSERVER (please print)  Name:  C. Heintstag  Date  Signature  Observer Organization  ENV-ES	with O Draw Arrow in Plume Draw Arrow in North Direction	Average 6-Mi	inute O	pacity			Opacity Rendings Max.
C. Heintstag DEP- Signature Date 5/16/13 Observer Organization ENV-ES	( <del>-)</del> )	OBSERVER	(please	print)		Tides	P
Signature Date 5/16/13 Observed Organization ENV-ES	Wind — X	.,,,,,,	1	th	2	T.me.	DEP-
Observer Organization ENV-ES	L	Signature	AR.	X	M	- 1	/ /
		Observe d	ganizati	on ES	<b>V</b> •		-1(-)
obstitute of the state of the s	OBSERVER'S POSITION	Certified by		7		10	Certification Date
140° ETA 2/27/13	140*		A 7				1 - 1
OSUN LOCATION LINE	SUN LOCATION LINE	Jan and the state of the state					

LOS ALAMOS NATIONA  MATICAL LARGANISMY NAVIOTATIONAL VISIBLE EMISSION OBSEIT						
TA 60 Asphalt Batch Plant	Observation Date	te			Time 33	End Time
TA.60	Min. Sec	0	15	30	45	Comments
Type of Source Asshalt Plant Bac House	1	Ø	Ø	Ø	Ø	
Describe Emission Point (Top of stack, etc.)	2	\$	\$	ø	0	
Height Above Ground Level Height Relative to Observer	$ \frac{3}{}$	0	0	6	Ø	
73 Feet 2.7 Feet Distance From Observer Direction of Source From Observer	4	\$	ø	Ø	Ø	
75 Feet Wast	5	\$	ø	Ø	Ø	<del>-</del>
Description of Plume (stack exit only) □Lofting □Trapping □Looping □Fauning □Coning	7	\$	Ø	Ø	Ø	
Emission Color Plume Type Emo Plume Present	150050 PAROVA 2000		G. Se			
N/A	8			di di		
2NO □YES If YES, droplet plume is □Atrached □Detached	9			I Name		
At what point in the phune was opacity determined?  Z'above top of stack	10					
Describe Background (i.e. blue sky, trees, etc.)	11		200			
Background Color Sky Conditions	12					
blue clear	13					
Wind Speed Wind Direction  5-(0 mph (provide from/to, i.e. from North to South)	14					
From SE	15					
Ambient Temperature Relative Humidity %	16					
Additional Comments/Information:	17					
	18					
	19					
Stack SOURCE LAYOUT SKETCH	20		左 道。			
with O Plume Draw Arrow   Draw Arrow   North Direction		ute O	acity			f Opacity Readings Max.
Sun + Point	OBSERVER (	please	print)			$\rho$ $\varphi$
Wind X	Name: C. Hei		1	١	Title:	DE.P.
	Signature	/\	1	1 0		Date
	Chth	X2r	1			6-11-13
	Observer Orga		on - €.	S		
OBSERVER'S POSITION	Certified by			-		Certification Date
140	ET	Д				2.27-13
SUN LOCATION LINE	L					

#### **ATTACHMENT A607.E**

### Asphalt Plant

Daily Operation Log and 12-Month Rolling Production

2013 TA-60 BDM Asphalt Plant	nalt Plant			Data Reviewed By / Date:	ed By / Date:				
	Data Entry			Data Entry			Annua	Annual Hours	
	Asphalt	12-Month		Asphalt	12-Month				
Month	Produced (Tons)	Rolling Total	Month	Produced (Tons) Rolling Total	Rolling Total	Month	Hours	Month	Hours
January	4	786	July			Jan	8.0	Jul	
February	24	757	August			Feb	8.8	Aug	
March	0	630	September			Mar	0.0	Sep	
April	127	641	October			Apr	16.5	Oct	
May	44	439	November	2		May	9.5	Nov	
June	19	307	December			Jun	3.3	Dec	
6 mo. Total	218		6 mo. Total:	0		Total:	38.9	Total:	0.0
2013 Asphalt Produced (Tons):	218	12-Month Rol	ing Permit Lir	12-Month Rolling Permit Limit is 13,000 Tons		Annual Total (to date): 38.93 Hours	I (to date):	38.93	Hours
						Hours	are Limited	Hours are Limited to 4380 per Year,	er Year.

	¥	Operator Name (Person Taking Readings)		1.05/1.																			
	Propane	Tank Reading	(percent)																				
ADINGS)	house	g	Time	65:01																			
JIRED RE	Pressure Drop Across Baghouse	End	Pressure	4.79																		7	
OG (REQI	re Drop A	T T	Time	10:35																			
ATING LO	Pressu	Start	Pressure	7.57																			
T OPEF	Haul Road	Swept? (check one)	S No																				
PLAN	er Hau		Yes			_	_	-	+	$\downarrow$	┡			_		_		_	-	_	_		-
HALT	Number	⊢ <u>⊢</u>	Plant																				
DAILY TA-60 ASPHALT PLANT OPERATING LOG (REQUIRED READINGS)	Aenhal+	Produced (tons)	,	7.												,					(2)		
DAILY	ion		Total (hrs.)	08.0																			
	Hours of Operation		End Time Total (hrs.)	80:11	-																		
	Hou		Start Time																				
			Date	1-25-13													 -		1				

		Operator Name (Person Taking Readings)	**	1.25/20	168/18	2.7507	1.651.0	681,6	Les/1.e	Les 1.'e	Les 1.2	606116	Less.'e	4.0517.2	45115	)			,							¥3	
	Propane	Tank Reading	(percent)									(40)															
EADINGS)	ghouse	End	Time	02.01	13814	12:27	11.27	1:17	10.49	1334	1:30	10:26	1:30	1.30	1:35												
UIRED RE	Pressure Drop Across Baghouse	ū	Pressure	5.28		5.92	1744	6,31	6.8.3	6.21	8,30	5.89	5.60	5,58	5:75											-	
OG (REQ	ire Drop A	Start	Time	01:01	10:00	125.52	1:20	1:09	10:22	1:14	1:19	10:02	1:12	1:26	1.05												
ATING L	Pressu	ξ	Pressure	5.19	81.5	8.89	th 9	6:38	7.10	6.29	6.46	6.05	5.69	547	6.45												
T OPEF	Haul Road	(check one)	No.		1	/	/			1	1	1	/	1	1												
PLAN			Yes			_			_	_	_	-	_							4	_	-	+	-	4	_	4
PHALT	Number	<u> </u>	Plant	1		_	/			_			\														
DAILY TA-60 ASPHALT PLANT OPERATING LOG (REQUIRED READINGS)	Asphalt	Produced (tons)	(2112)	7	N	K	4	2	N	Ŋ	M	<b>Q</b> 3	4	*	*												
DAILY	tion		Total (hrs.)	0.67	0.52	0.40	0.47	0.53	1.75	0.80	0.65	0.62	0.78	0.75	0.85												
	Hours of Operation		End Time	38,81	10:24	1:03	1:38	1:28	11:00	1,48	11:41	08:01	1:47	1940	1045												
	Hou		Start Time	9:55	7:53	12:39	01:1	12:57	51:6	1:00	1001	9:53	1:00	12:55	12:54												
			Date	3-1-13		6-13	2-5-13	2-6-13	2-13-13	2-13-13	21173	2-12-13	2-15-13	27-61-2	27-82-2												

\* NO ASPHALT PRODUCED

40-20-001.3 (08/2012)

Logistics Division-HERG

	500000000000000000000000000000000000000		Operator Name (Person Taking Readings)																							•
		Propane	Tank Reading	(percent)																						
	ADINGS)	house	þ	Time			¥															1				
	SPHALT PLANT OPERATING LOG (REQUIRED READINGS)	Pressure Drop Across Baghouse	End	Pressure																1						
truction	OG (REQ	re Drop A	art	Time																						
Maintenance Operation Instruction Asphalt Plant Operations	ATING L	Pressu	Start	Pressure																						
ce Oper Ilt Plant	r oper	Road	check one)	<sub>N</sub>											7											
tenan Aspha	LAN	F Hau		Yes					_	_			1	4	_			4	+	+		$\forall$	L		_	
Main	PHALT	Number Haul Road	- F	Plant				18-18-1			/	4		Ŋ	1						1	1				
	DAILY TA-60 AS	Asphalt	Produced (tons)											> / /	ナフご								7			
	DAILY	пс		Total (hrs.)										11/	2 -											
		Hours of Operation		End Time			1							d	7		T C									
		Hours		Start Time										7	5	7 (7)										
				Date	3-1-13	331-13									2		2									•

40-20-001.3 (08/2012)

DAILY TA-60 ASPHALT PLANT OPERATING LOG (REQUIRED READINGS)

Hours of Operation		_ D		Haul Road Swept? (check one)		Pressure Drop Across Baghouse	cross Baghc	house	Propane Tank	Operator Name
End Time To	Total (hrs.)	(tons)	Trips to Plant	Yes No	Pressu	Time	Pressure	Time	(percent)	(reison raking neadings)
125 6	0.42	83	_		6,15	1,06	6.18	1:17		681,10
1:06 6	0.75	0	,		2.16	10.35	2.8%	10:52		0.100
9:30 (	0.57	3	/		1.83	9:10	1.80	181.6		11
0.33	0.37	2	_		2.03	10:20	2,02	10:28		Les/10)
:24 6	0.73	7	1		2,23	12:51	2.00	1:02		Less.'e
-	0.18	0			2,37	51:01	2.34	12:21		1
2:06	0/-/	>>	-		1.86	11:36	1.29	11:57		Lastie
-	0.60	9			1.79	2.28	1072	7:57		(45/1.p
7:55	0.58	h	1		1.97	9.36	1,82	7:45		1681.0
	0.73	2			1.80	42:6	1:85	04.6		6051.4
1:44	.15	78	1		1093	12:50	2:37	1027		405/10
:20	0.80	R			56.1	10:35	1.79	11.05		6211.0
60: 44	0.63	5	1		1.83	61.01	1.72	10:30		Lestie
143	0.70	4 50	1701	\	7.09	1:15	1.89	1:35		7.1507
0)	0.42	d	7		1.80	9:30	1:87	05:6		6.651:0
9:27	0.50	2	~		1066	11:6	1.9.1	81:6		Lestie
11.11	0.43	4	/		1,72	12:59	1.77	1:05		1es/1e
11:26	0.63	9	_		1.84	11:02	1072	11:16		Lesti o
7:56	94.0	7	_		2,05	11:16	1.78	64.6		Lessie
1:06 (	0.35	d	1		1.50	12:56	1.66	1:00		1.05/10
11:45	0.65	9	/		1.65	1:21	120	1:39		405110
16:31	0.45	7	,		1.85	10:11	i. 37	10:20		4/1/597
0	0.65	5			154	1:06	1,50	1:14		405/10
1:43	0.38	4	1		10-11	1:28	1.30	1:56		405112
1:33	0.88	000			1.49	12:49	152	1:29		Jahn
15	0.83	M	1		1.83	85:01	1.85	11:09		Lache
9:32	0.50	u	_		1.35	11.6	1,42	4.54		10011

DAILY TA-60 ASPHALT PLANT OPERATING LOG (REQUIRED READINGS)

Hours of Operation				$\overline{}$	Number	Number Haul Road		Pressur	re Drop A	Pressure Drop Across Baghouse	house		
Asphalt	Asphalt	Asphalt		of Swept	Swept	5-			-			Tank	Operator Name
(tons) Trips to (check one)	Trips to	Trips to	Trips to		(check o	Ĕ I	<u> </u>	Start	ţ	ū	End	Reading	(Person Taking Readings)
Plant Yes	End Time Total (hrs.) Yes	Plant Yes	Plant Yes	Yes		<sub>8</sub>		Pressure	Time	Pressure	Time	(bercent)	
12:56 1:28 0.53 3 1	0.53	.53	3 1/			- III	233	37	01:1	Ch:2	8101		16.5%
12:57 1228 0.52 411	0.52	52	1 /	/			1/6	89	1011	1621	61:1		20.78
; c3 9:28 0.	28 0.42		1/2				-	59	81.12	1.45	61:6		10
1132 1159 0.45 3 1	9 0.45		3 /				1,0	56	1:45	1051	1:51		405110
9510 9523 0.38 2 1	333 0.38		2 /	/			1,	49	81:6	1,26	4:24		2,1/527
13:46 1:05 0.32 / /	050			/			10.	78	12:55	1.69	1:59		4051,0
10 831 10:58 0.45 3 1	:58 0.		3 /	,			12	57	10,44	1254	10:50		6.511.0
11.09 11.31 0.37 1	310	2.37	, ,	,		l I	1,	75	1:20	11.74	1:25		T 19
9:17 10:14 1.03 2st 1	1.03 2	ત	10.0	/			1	42	9:30	1.27	24.62		Lesio
12311 12344 0.55 3 1	; uu 6	0.55 3 1	3 1	)			100	990	12:20	10h 8	CE3C1		N
1:03 1:25 0.37 1 1	1	0.37					in	18	1.11	1.90	1.19		Lestie
1:00 1:28 0.47 2 1	28	1 2 140	7 2	1		. 1		57	1:17	1.69	52:1		68112
13:45 1:09 0.40 2. 1	2 60	0.40 2 /	2. /	/		ı	3	04	12:55	2.05	1:00		6.4811.4
10:35 10:55 0:33 1 1	7	0.33 ( /					10	,56	10.46	1.50	10:49		695/1/2
12:41 1317 0.60 3 to 1	0.60	$\frac{1}{2}$	360	/			7	42,7	12:59	68:2	1:10		1.
5-20-13 10:13 10:52 0.48 Tect	0	0.48 Test	72 ×	1		1	N	3,59	10:48	3.63	15:01		6.45%
8:58 9:24 0.43 2 1	:24 0.43	23	1 2			ı	Ci	2:19	9.07	2013	9:16		1
12:40 1:26 0.67 5 /	60	0.67 5 /	7 7			- 1	1,	10	1:04	20.32	1:14		
11:38 11:50 0.35 2 1	50 0.35		2			- 1	7	7.3	84:11	1.97	1156		Less. P
11.08 11:22 0.40 2 1	22 0.40	0.40	7	,		ı	1	63	11:04	1.87	11:13		Lestie
											EL S		
							_						
							_						
							L						
						-							

		Operator Name (Person Taking Readings)		Les lin	4	1	Les 11'0	Lestin	6,1207												
	Propane	Tank Reading	(percent)									13.									
RED READINGS)	ross Baghouse	End	Pressure Time	1.60 9.57	1 88	1.52 9:37	1.62 9:28	$\overline{}$	1:45 7:39			H 6-30-									
HALT PLANT OPERATING LOG (REQUIRED READINGS)	Pressure Drop Across Baghouse	Start	Pressure Time P	1 67 9:52	7 1:07	13 9:29		1 05:51 79:	60 9:28			3 THROUGH									
ANT OPERA	Haul Road	(check one)	Yes No Pr		2		1/		/			1-81-0									-
PHALT PL	Number of	Truck Trips to			/	/ /	/	1	,			NG									
DAILY TA-60 ASP	Asphalt	Produced (fons)	(come)	2	/	1,	D	5	N	ы	TONS	<b>JUCTIV</b>				1					
DAILY	tion		Total (hrs.)	6,42	0.33	0.38	0.73	00'1	0.48	HE E	HRS.	PROF									
	Hours of Operation		End Time	ho:01	1:15	9:43	9138	1:40	6:48	TOTAL		ASPHALT									
	웃		Start Time	9:39	12:55	02:6	45:8	12:40	9:20			NO A									
			Date	63-13	6-3-13	6-4-13	6-11-13	6-11-13	6-12-13												

# **ATTACHMENT A607.F**

Asphalt Plant

Maintenance Records



# Maintenance & Site Services

Preventative Maintenance Instruction **Asphalt Plant Operation** 

# PM INSPECTION & LUBRICATION

A-UR-13-25881 41-20-001.3 R1

Page 1 of 2

20-001.3 R1	PM DATE:	NEXT SCHEDULED PM DATE:	100
TA-60 BLDG-233	EQUIP. ID: Hot Plant	PM #:	

Place a Checkmark under "S" if the condition is SATISFACTORY or "U" if the condition is UNSATISFACTORY. Note actions required or general remarks in "Comments" as applicable. Mark "N/A" under comments if not applicable. Advise the foreman or supervisor of

STEP	ACTION / DESCIPTION	S	U	Comments
1.0	PRE-MAINTENANCE INSTRUCTIONS	-		
1.1	Before beginning maintenance, follow applicable LO/TO procedures			
	at the main control panel			
2.0	ASPHALT PLANT MAINTENANCE			
2.1	Perform preventative maintenance checks/inspections and lubricate			
	the asphalt plant every 100 hours of operating time or 6 calendar			
	months, whichever occurs first.			7
3.0	LUBE/INSPECTION POINTS			
	FEEDER			
3.1	8 Pillow Blocks			
3.2	1 Gear Box (Check Oil) Add if Necessary	_		
3.3	2 Wheel bearings			
3.4	Clear away stones and dust build up from any moving parts			
	CONVEYOR BELT			
3.5	4 Pillow Blocks	_		*
3.6	1 Gear Box (Check Oil) Add if Necessary			
3.7	Clear away stones and dust build up from any moving parts	_		
	DRIER	_		
Ĭ.	12 Pillow Blocks	_		
	1 Gear Box (Check Oil) Add if Necessary	_		
3.10	Clear away stones and dust build up from any moving parts	_		
3.11	Inspect the drum roller drive chain for mechanical integrity. Replace	_		
	or repair any broken parts			
3.12	Lube chain and idle gear			
	HOT ELEVATOR			
3.13	2 Pillow Blocks	_		
3.14	2 Flat Bearings			
3.15	1 Gear Box (Check Oil) Add if Necessary	_		
3.16	Clear away stones and dust build up from any moving parts			
3.17	Inspect the elevator chain under the buckets for proper tension and			
	mechanical integrity. Ensure no broken parts or damage exists.			
	Adjust/replace if necessary			
3.18	Inspect elevator buckets for aggregate buildup and metal wear.			
	Repair and/or clean parts if necessary.			2
3.19	Inspect elevator bottom for excessive aggregate buildup. Remove			
	and/or clean if evident.			
	SHAKER AND SCREENING PLANT			
3.20	2 Bearing on Electric Motor	/		
5.21	1 Gear Box (Check Oil) Add if Necessary	_		
3.22	Screen Cloth Tension	_		
.23	Inspect even material feed and distribution into screen.	_		
.24	Tighten Loose Bolts	-		
.25	Drive Belt Tension			
-5	Support Springs			
	Clear away stones and dust build up from any moving parts	-		
.28	Inside the screen, inspect the feed and discharge wear plates for			
	excessive buildup and wear. Repair and/or clean as needed			



SUPERINTENDENT NAME:

ERINTENDENT SIGNATURE:

Serna

### Maintenance & Site Services Preventative Maintenance Instruction

# **Asphalt Plant Operation**

LA-UR-13-25881-001.3 R1 Page 2 of 2

# PM INSPECTION & LUBRICATION

A	ASPHALT BATCH PLANT PREVENTATIVE MAINTENANCE INSPECTION AND LUBRICATION						
J TEP	ACTION / DESCIPTION	S	U	Comments			
	PUG MILL						
3.29	4 Pillow Blocks	-					
3.30	1 Gear Box (Check Oil) Add if Necessary	_					
3.31	Clear away stones and dust build up from any moving parts						
3.32	Inside the mill, inspect the 2 paddle assemblies and wear plates						
	under the paddles for excessive buildup and wear. Repair and/or		1				
	clean as needed	,					
	BAG HOUSE						
3.33	3 Flat Bearings	_					
3.34	4 Gear Box (Check Oil) Add if Necessary	-					
	EXHAUST FAN						
3.35	2 Pillow Blocks	-					
3.36	2 Fittings on Electric Motor	_					
	DAMPER CONTROL	1					
3.37	4 Flat Bearings						
	AIR COMPRESSOR						
3.38	Clean Air Filter						
3.39	Check Oil Level Add if Necessary						
	DUST RETURN SCREW						
3.40	1 Gear Box (Check Oil) Add if Necessary	1_					
	HOT ASPHALT PUMP						
3.41	2 Fittings on Electric Motor						
	HOT OIL PUMP AND ELECTRIC MOTOR						
2 12	2 Fittings on Electric Motor						
	PROPANE PUMP						
5.43	2 Fittings						
4.0	POST-MAINTENANCE INSTRUCTIONS						
4.1	After completing maintenance, follow applicable LO/TO procedures						
	at the main control panel						
REMARKS / ACTION REQUIRED:							
CR AFT N	VERIFICATION						
	Mario Maestas	Z-NUM	BER	DATE			
CRAFT SI	GNATURES Masses	228	358	1-25-13			

Z-NUMBER

DATE

# **ATTACHMENT A607.G**

Asphalt Plant

Method 22 Reports

ENV-EAQ-307, R5 Attachment 3, page 1 of 1

Ecology and Air Quality
Los Alamos National Laboratory

Los Alamos National Laboratory METHOD 22 Visual Determination of Fugitive Emissions Form					
A CONTRACTOR OF THE PROPERTY O	Observer Affiliation: ENV - ES				
Representative: Cliff Heintschal	Date of Inspection: 1/25/13				
Sky Conditions: Overcast	Wind Direction: NW to SE				
Precipitation:	Wind Speed: 1-3 mph				
Industry: National Lab	Process Unit: Fugitive Emissions				
Sketch of Process Unit:  Indicate:  * observer position relative to source  * potential emission and/or actual emission points  * sun location	* wind direction * North direction				
Bas House OII	North Direction  Wind Direction				
D 2	II.				
duration	Accumulated Emission (min:sec) Time(min:sec) (100				
Notes:					
This form is used to document fugitive visible emissions from outside air emission sources. If an emission is observed during the Method 22 inspection/observation period (which must be at least 6 minutes for the Asphalt Plant and 10 minutes for all other LANL sources), a Method 9 visible emission test may need to be performed.					
SIGNATURE OF OBSERVER/INSPECTOR:	DATE: 13				

Los Alamos National Laboratory METHOD 22 Visual Determination of Fugitive Emissions Form					
Location: TA 60 Asphalt Batch Plant	Observer Affiliation: モルソーヒュ				
Representative: Ciff Heintschel	Date of Inspection: 2/28/13				
Sky Conditions: Clear	Wind Direction: NW to SE				
Precipitation:	Wind Speed: 1-3 mph				
Industry: Notional Lab	Process Unit: Fugitive EMISSIONS				
Sketch of Process Unit:  Indicate:  * observer position relative to source  * potential emission and/or actual emission points  * sun location	* wind direction * North direction				
Bas House  OII	North Direction  Wind Direction				
	tion period Accumulated Emission (min:sec) Time(min:sec)				
End Observation [3:0]	<u>:00 0:00</u>				
Notes:					
This form is used to document fugitive visible emissions from of during the Method 22 inspection/observation period (which muninutes for all other LANL sources), a Method 9 visible emissi	st be at least 6 minutes for the Asphalt Plant and 10				
SIGNATURE OF OBSERVER/INSPECTOR:	DATE: 2/28/13				

The Asphalt plant did not operate during the month of March, 2013. No opacity readings were taken.

Los Alamos National Laboratory  METHOD 22 Visual Determination of Fugitive Emissions Form				
Location: TAGO Asphalt Batch Plant	Observer Affiliation: ENV - ES			
Representative Cliff Heintschel	Date of Inspection: 4-3-13			
Sky Conditions: Partly Cloudy	Wind Direction: From NE			
Precipitation:	Wind Speed: Z-5 mph			
Industry: National Lab	Process Unit: Fugitive Emissions			
Sketch of Process Unit:  Indicate:  * observer position relative to source  * potential emission and/or actual emission points  * sun location	* wind direction * North direction			
* sun location  Bas House OII	North Direction  Wind Direction			
	ation period Accumulated Emission n (min:sec) Time(min:sec)			
1	Ø:00 Ø:00			
End Observation 10:57	**			
Notes:				
This form is used to document fugitive visible emissions from outside air emission sources. If an emission is observed during the Method 22 inspection/observation period (which must be at least 6 minutes for the Asphalt Plant and 10 minutes for all other LANL sources), a Method 9 visible emission test may need to be performed.				
SIGNATURE OF OBSERVER/INSPECTOR:	DATE: 4-3-13			

ENV-EAQ-307, R5 Attachment 3, page 1 of 1

Ecology and Air Quality
Los Alamos National Laboratory

Los Alamos National Laboratory METHOD 22 Visual Determination of Fugitive Emissions Form					
Location: TA GOASPhalt Batch Plant	Observer Affiliation: ENV-ES				
Representative: C. Heintschel	Date of Inspection: 5/16/13				
Sky Conditions: Clear	Wind Direction: From W-NW				
Precipitation:	Wind Speed: 3-5 mph				
Industry: National Lab	Process Unit: Fugitive Emissions				
Sketch of Process Unit:  Indicate:  * observer position relative to source  * potential emission and/or actual emission points  * sun location    Gas House	* wind direction * North direction				
011	North Direction  Wind Direction				
	ntion period Accumulated Emission n (min:sec) Time(min:sec)				
3	Ø				
Notes:					
/					
This form is used to document fugitive visible emissions from outside air emission sources. If an emission is observed during the Method 22 inspection/observation period (which must be at least 6 minutes for the Asphalt Plant and 10 minutes for all other LANL sources), a Method 9 visible emission test may need to be performed.					
SIGNATURE OF OBSERVERINSPECTOR:	DATE: 5/16/13				

ENV-EAQ-307, R5 Attachment 3, page 1 of 1

Ecology and Air Quality
Los Alamos National Laboratory

Los Alamos National Laboratory METHOD 22 Visual Determination of Fugitive Emissions Form					
Location: TAGO Asphalt Batch Plant	Observer Affiliation: ENV-ES				
Representative: C. Heintschel	Date of Inspection: 6 - 10 - 13				
Sky Conditions: clear	Wind Direction: From SE				
Precipitation:	Wind Speed: 5-10 mgh.				
Industry: Nationa) Lab	Process Unit: Fugitive & mission				
Sketch of Process Unit:  Indicate:  * observer position relative to source  * potential emission and/or actual emission points  * sun location	* wind direction * North direction				
1 Bas Heave	North Direction  Wind Direction				
	ation period Accumulated Emission n (min:sec) Time(min:sec)				
End Observation 9:32	0:00min 1:00min				
Notes:					
This form is used to document fugitive visible emissions from outside air emission sources. If an emission is observed during the Method 22 inspection/observation period (which must be at least 6 minutes for the Asphalt Plant and 10 minutes for all other LANL sources), a Method 9 visible emission test may need to be performed.					
SIGNATURE OF OBSERVER/INSPECTOR:	DATE: 6-11-13				

# ATTACHMENT A707.B.a.

Beryllium

TA-3-66 Beryllium Logs

January 1, 2013 - June 30, 2013

	Date	Number of Metallographic Specimens Used in the Polishing Operation
Metallography		Operation  oles processed during time period.
raphy		

Note: Information required under Title V Operating Permit P100-R1-M3, Section A707.B, Emissions Monitoring Requirements

# January 1, 2013 - June 30, 2013

Е	Date	Weight or Volume of Beryllium Samples Processed	UOM
Electroplating/Chemical Milling	There were no samp	oles processed during time period.	
lating/			
'Chemi			
cal Mil			
lling			

Note: Information required under Title V Operating Permit P100-R1-M3, Section A707.B, Emissions Monitoring Requirements

# January 1, 2013 - June 30, 2013

	Date	Weight or Volume of Beryllium Samples Processed	UOM
	There were no samples processed during time period.		
_			
Machining			
ach			
nin			
in			
Ø			

	Date	Weight or Volume of Beryllium Samples Processed	UOM
	There were no	samples processed during tim	e period.
$\triangleright$			
Arc Melting/Casting			
$\leq$			
elt			
Lin			
/g			
Са			
ıst			
ing 			
04			

Note: Information required under Title V Operating Permit P100-R1-M3, Section A707.B, Emissions Monitoring Requirements

# ATTACHMENT A707.B.b.

# Beryllium

TA-35-213 Beryllium Operating Log

### Beryllium TA-35-213 Hours of Operation January -June, 2013

Janua	ary	Feb	ruary	Mar	ch	Apri	il	May	/	June	9
Date	Hours	Date	Hours	Date	Hours	Date	Hours	Date	Hours	Date	Hours
No Ho	urs	No	Hours	No Ho	ours	4-Apr	7	1-May	6	6-Jun	5
						8-Apr	8	2-May	3	10-Jun	6
						9-Apr	5	15-May	7	14-Jun	6
						17-Apr	7	16-May	7	19-Jun	2
						18-Apr	7	17-May	6	20-Jun	8
						22-Apr	6	20-May	5	24-Jun	7
						23-Apr	8	21-May	7	25-Jun	6
						24-Apr	8	22-May	6		
						25-Apr	7	23-May			
						30-Apr	8	28-May	8		
								29-May	6		
								30-May	8		
					_						
<b>Total Hours</b>	0		0		0		71		75		40

1

Sum Total of hours for January 1 - June 30, 2012: 186

1

# ATTACHMENT A707.C.a.

# Beryllium

TA-3-141 Beryllium HEPA Filter Differential Pressure Readings

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
1/7/2013 4:00:00 AM	1.96	1.39	0.99
1/6/2013 8:00:00 PM	1.94	1.36	1.04
1/6/2013 12:00:00 PM	2.08	1.47	1.00
1/6/2013 4:00:00 AM	1.92	1.38	1.04
1/5/2013 8:00:00 PM	1.99	1.40	0.95
1/5/2013 12:00:00 PM	2.09	1.47	1.02
1/5/2013 4:00:00 AM	1.94	1.37	0.98
1/4/2013 8:00:00 PM	2.11	1.48	1.18
1/4/2013 12:00:00 PM	2.03	1.42	1.12
1/4/2013 4:00:00 AM	1.93	1.37	1.13
1/3/2013 8:00:00 PM	2.12	1.49	0.97
1/3/2013 12:00:00 PM	2.27	1.58	1.07
1/3/2013 4:00:00 AM	2.06	1.46	1.09
1/2/2013 8:00:00 PM	1.98	1.39	1.15
1/2/2013 12:00:00 PM	2.24	1.56	1.01
1/2/2013 4:00:00 AM	2.04	1.45	1.01
1/1/2013 8:00:00 PM	2.06	1.45	1.02
1/1/2013 12:00:00 PM	2.21	1.54	1.16
1/1/2013 4:00:00 AM	1.90	1.36	0.99
12/31/2012 8:00:00 PM	1.89	1.34	1.04
12/31/2012 12:00:00 PM	2.19	1.53	1.16

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
1/14/2013 4:00:00 AM	2.16	1.51	1.01
1/13/2013 8:00:00 PM	2.09	1.46	1.16
1/13/2013 12:00:00 PM	2.10	1.47	1.01
1/13/2013 4:00:00 AM	2.12	1.49	1.17
1/12/2013 8:00:00 PM	2.08	1.46	1.21
1/12/2013 12:00:00 PM	2.19	1.54	1.18
1/12/2013 4:00:00 AM	2.09	1.47	1.24
1/11/2013 8:00:00 PM	2.19	1.54	1.01
1/11/2013 12:00:00 PM	2.13	1.46	1.13
1/11/2013 4:00:00 AM	2.07	1.45	0.99
1/10/2013 8:00:00 PM	2.00	1.41	1.02
1/10/2013 12:00:00 PM	2.00	1.42	1.15
1/10/2013 4:00:00 AM	1.98	1.40	1.00
1/9/2013 8:00:00 PM	1.97	1.38	0.99
1/9/2013 12:00:00 PM	2.06	1.45	0.99
1/9/2013 4:00:00 AM	1.99	1.41	1.03
1/8/2013 8:00:00 PM	1.92	1.37	1.02
1/8/2013 12:00:00 PM	1.98	1.40	1.27
1/8/2013 4:00:00 AM	2.00	1.40	1.00
1/7/2013 8:00:00 PM	1.90	1.36	1.03
1/7/2013 12:00:00 PM	2.00	1.41	0.98

### 1/21/2013 8:00:48 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
1/21/2013 4:00:00 AM	2.06	1.46	1.25
1/20/2013 8:00:00 PM	1.93	1.36	0.97
1/20/2013 12:00:00 PM	2.06	1.45	1.20
1/20/2013 4:00:00 AM	2.01	1.42	1.05
1/19/2013 8:00:00 PM	1.97	1.40	1.08
1/19/2013 12:00:00 PM	2.25	1.56	1.25
1/19/2013 4:00:00 AM	2.07	1.45	1.19
1/18/2013 8:00:00 PM	1.94	1.37	1.05
1/18/2013 12:00:00 PM	2.19	1.52	1.17
1/18/2013 4:00:00 AM	2.06	1.43	1.18
1/17/2013 8:00:00 PM	1.91	1.36	1.00
1/17/2013 12:00:00 PM	2.17	1.50	1.21
1/17/2013 4:00:00 AM	2.15	1.50	1.16
1/16/2013 8:00:00 PM	2.13	1.47	1.23
1/16/2013 12:00:00 PM	2.01	1.42	1.41
1/16/2013 4:00:00 AM	2.04	1.42	1.27
1/15/2013 8:00:00 PM	2.19	1.52	1.30
1/15/2013 12:00:00 PM	2.21	1.54	1.41
1/15/2013 4:00:00 AM	2.04	1.43	1.37
1/14/2013 8:00:00 PM	2.11	1.48	1.33
1/14/2013 12:00:00 PM	2.06	1.47	1.00

### 1/28/2013 8:00:48 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
1/28/2013 4:00:00 AM	1.92	1.35	1.07
1/27/2013 8:00:00 PM	1.98	1.40	1.07
1/27/2013 12:00:00 PM	2.01	1.42	1.03
1/27/2013 4:00:00 AM	1.89	1.35	1.07
1/26/2013 8:00:00 PM	1.94	1.37	1.12
1/26/2013 12:00:00 PM	1.94	1.37	1.07
1/26/2013 4:00:00 AM	1.92	1.36	1.13
1/25/2013 8:00:00 PM	1.92	1.36	1.09
1/25/2013 12:00:00 PM	2.03	1.43	1.20
1/25/2013 4:00:00 AM	1.91	1.35	1.09
1/24/2013 8:00:00 PM	1.87	1.33	1.11
1/24/2013 12:00:00 PM	2.07	1.44	1.14
1/24/2013 4:00:00 AM	1.95	1.38	1.04
1/23/2013 8:00:00 PM	1.92	1.38	1.04
1/23/2013 12:00:00 PM	1.92	1.36	1.14
1/23/2013 4:00:00 AM	1.98	1.40	0.99
1/22/2013 8:00:00 PM	1.98	1.41	1.07
1/22/2013 12:00:00 PM	2.06	1.44	1.14
1/22/2013 4:00:00 AM	2.13	1.47	1.33
1/21/2013 8:00:00 PM	1.90	1.36	1.10
1/21/2013 12:00:00 PM	2.15	1.49	0.97

### 2/4/2013 8:00:48 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
2/4/2013 4:00:00 AM	1.88	1.33	1.00
2/3/2013 8:00:00 PM	1.99	1.41	1.05
2/3/2013 12:00:00 PM	2.05	1.45	1.08
2/3/2013 4:00:00 AM	1.92	1.36	1.05
2/2/2013 8:00:00 PM	2.01	1.41	1.11
2/2/2013 12:00:00 PM	2.05	1.46	1.14
2/2/2013 4:00:00 AM	1.92	1.37	1.02
2/1/2013 8:00:00 PM	1.93	1.36	1.05
2/1/2013 12:00:00 PM	2.00	1.42	1.05
2/1/2013 4:00:00 AM	1.90	1.36	0.96
1/31/2013 8:00:00 PM	1.99	1.41	1.00
1/31/2013 12:00:00 PM	2.07	1.45	1.14
1/31/2013 4:00:00 AM	1.95	1.38	0.96
1/30/2013 8:00:00 PM	2.24	1.54	1.12
1/30/2013 12:00:00 PM	2.01	1.41	1.24
1/30/2013 4:00:00 AM	2.19	1.52	1.12
1/29/2013 8:00:00 PM	2.27	1.57	1.14
1/29/2013 12:00:00 PM	1.94	1.38	1.21
1/29/2013 4:00:00 AM	1.96	1.39	1.01
1/28/2013 8:00:00 PM	2.01	1.41	1.04
1/28/2013 12:00:00 PM	2.03	1.42	1.04

### 2/11/2013 8:00:47 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
2/11/2013 4:00:00 AM	2.05	1.45	1.27
2/10/2013 8:00:00 PM	1.98	1.40	1.05
2/10/2013 12:00:00 PM	2.02	1.42	1.05
2/10/2013 4:00:00 AM	2.09	1.47	1.29
2/9/2013 8:00:00 PM	1.96	1.41	1.00
2/9/2013 12:00:00 PM	2.04	1.44	1.07
2/9/2013 4:00:00 AM	1.91	1.35	1.05
2/8/2013 8:00:00 PM	1.90	1.35	1.06 1.22
2/8/2013 12:00:00 PM	1.96	1.38	0.99
2/8/2013 4:00:00 AM	1.90	1.35 1.35	1.06
2/7/2013 8:00:00 PM	1.91	1.44	1.00
2/7/2013 12:00:00 PM	2.05 1.85	1.33	1.09
2/7/2013 4:00:00 AM	1.93	1.36	1.07
2/6/2013 8:00:00 PM 2/6/2013 12:00:00 PM	1.99	1.41	1.05
2/6/2013 4:00:00 AM	1.95	1.39	0.99
2/5/2013 8:00:00 PM	1.89	1.34	1.08
2/5/2013 12:00:00 PM	1.97	1.39	1.00
2/5/2013 4:00:00 AM	1.97	1.40	0.97
2/4/2013 8:00:00 PM	1.90	1.36	1.10
2/4/2013 12:00:00 PM	1.97	1.41	1.15

### 2/18/2013 8:00:48 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
2/18/2013 4:00:00 AM	1.93	1.36	1.02
2/17/2013 8:00:00 PM	2.00	1.42	1.04
2/17/2013 12:00:00 PM	2.11	1.48	1.08
2/17/2013 4:00:00 AM	1.95	1.38	1.02
2/16/2013 8:00:00 PM	2.06	1.45	1.03
2/16/2013 12:00:00 PM	2.01	1.42	1.12
2/16/2013 4:00:00 AM	1.88	1.34	1.19
2/15/2013 8:00:00 PM	1.92	1.36	1.03
2/15/2013 12:00:00 PM	1.97	1.39	1.12
2/15/2013 4:00:00 AM	2.00	1.39	1.07
2/14/2013 8:00:00 PM	1.92	1.36	1.06
2/14/2013 12:00:00 PM	2.08	1.45	1.04
2/14/2013 4:00:00 AM	2.02	1.42	1.27
2/13/2013 8:00:00 PM	2.03	1.43	1.26
2/13/2013 12:00:00 PM	1.98	1.39	1.17
2/13/2013 4:00:00 AM	2.04	1.43	1.30
2/12/2013 8:00:00 PM	2.13	1.50	1.02
2/12/2013 12:00:00 PM	2.19	1.53	1.18
2/12/2013 4:00:00 AM	1.99	1:40	1.15
2/11/2013 8:00:00 PM	2.05	1.44	1.18
2/11/2013 12:00:00 PM	2.06	1.46	1.14

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
2/25/2013 4:00:00 AM	1.99	1.41	0.20
2/24/2013 8:00:00 PM	2.06	1.44	0.20
2/24/2013 12:00:00 PM	2.12	1.48	0.18
2/24/2013 4:00:00 AM	1.85	1.34	0.05
2/23/2013 8:00:00 PM	1.91	1.37	-0.00
2/23/2013 12:00:00 PM	2.03	1.44	0.23
2/23/2013 4:00:00 AM	2.01	1.44	0.20
2/22/2013 8:00:00 PM	1.99	1.42	0.23
2/22/2013 12:00:00 PM	2.17	1.52	0.18
2/22/2013 4:00:00 AM	1.90	1.36	0.03
2/21/2013 8:00:00 PM	1.91	1.37	-0.04
2/21/2013 12:00:00 PM	2.10	1.48	1.16
2/21/2013 4:00:00 AM	1.98	1.40	1.13
2/20/2013 8:00:00 PM	2.02	1.42	1.17
2/20/2013 12:00:00 PM	2.00	1.43	0.98
2/20/2013 4:00:00 AM	1.98	1.40	1.00
2/19/2013 8:00:00 PM	1.95	1.38	0.99
2/19/2013 12:00:00 PM	2.08	1.46	1.15
2/19/2013 4:00:00 AM	2.05	1.44	1.14
2/18/2013 8:00:00 PM	2.09	1.48	1.01
2/18/2013 12:00:00 PM	2.07	1.45	1.03

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
3/4/2013 4:00:00 AM	2.08	1.45	1.03
3/3/2013 8:00:00 PM	2.03	1.42	1.08
3/3/2013 12:00:00 PM	2.09	1.46	1.10
3/3/2013 4:00:00 AM	2.08	1.46	_1.03
3/2/2013 8:00:00 PM	2.08	1.47	1.05
3/2/2013 12:00:00 PM	2.09	1.47	1.06
3/2/2013 4:00:00 AM	2.09	1.46	0.96
3/1/2013 8:00:00 PM	2.07	1.44	0.97
3/1/2013 12:00:00 PM	2.02	1.42	0.97
3/1/2013 4:00:00 AM	2.00	1.41	1.08
2/28/2013 8:00:00 PM	2.06	1.44	0.91
2/28/2013 12:00:00 PM	2.10	1.46	1.13
2/28/2013 4:00:00 AM	2.06	1.45	0.92
2/27/2013 8:00:00 PM	2.06	1.45	0.88
2/27/2013 12:00:00 PM	2.07	1.47	1.20
2/27/2013 4:00:00 AM	2.03	1.42	1.13
2/26/2013 8:00:00 PM	2.02	1.42	0.92
2/26/2013 12:00:00 PM	2.24	1.55	1.09
2/26/2013 4:00:00 AM	1.89	1.34	0.91
2/25/2013 8:00:00 PM	1.92	1.37	0.97
2/25/2013 12:00:00 PM	2.07	1.46	0.10

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
3/11/2013 4:00:00 AM	2.24	1.54	0.95
3/10/2013 8:00:00 PM	2.24	1.55	0.99
3/10/2013 12:00:00 PM	2.12	1.48	0.91
3/10/2013 4:00:00 AM	2.17	1.52	0.99
3/9/2013 8:00:00 PM	2.23	1.55	1.08
3/9/2013 12:00:00 PM	2.31	1.58	1.01
3/9/2013 4:00:00 AM	2.30	1.58	0.90
3/8/2013 8:00:00 PM	2.28	1.57	0.94
3/8/2013 12:00:00 PM	2.17	1.51	0.10
3/8/2013 4:00:00 AM	2.21	1.54	0.03
3/7/2013 8:00:00 PM	2.17	1.53	0.09
3/7/2013 12:00:00 PM	2.27	1.56	1.22 1.03
3/7/2013 4:00:00 AM	2.20	1.53	
3/6/2013 8:00:00 PM	2.24	1.54	1.07 1.08
3/6/2013 12:00:00 PM	2.24	1.55	0.98
3/6/2013 4:00:00 AM	2.24	1.56	1.05
3/5/2013 8:00:00 PM	2.23	1.54	1.06
3/5/2013 12:00:00 PM	2.24	1.54 1.55	
3/5/2013 4:00:00 AM	2.23	1.52	
3/4/2013 8:00:00 PM	2.20		1.16
3/4/2013 12:00:00 PM	2.05	1.44	1.10

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
3/18/2013 4:00:00 AM	2.23	1.55	0.97
3/17/2013 8:00:00 PM	2.21	1.54	1.08
3/17/2013 12:00:00 PM	2.27	1.57	1.08
3/17/2013 4:00:00 AM	2.25	1.56	1.05
3/16/2013 8:00:00 PM	2.20	1.53	1.13
3/16/2013 12:00:00 PM	2.20	1.52	1.15
3/16/2013 4:00:00 AM	2.20	1.54	1.14
3/15/2013 8:00:00 PM	2.18	1.51	1.25
3/15/2013 12:00:00 PM	2.27	1.55	1.12
3/15/2013 4:00:00 AM	2.25	1.55	1.09
3/14/2013 8:00:00 PM	2.22	1.54	1.17
3/14/2013 12:00:00 PM	2.27	1.56	1.10
3/14/2013 4:00:00 AM	2.24	1.56	1.06
3/13/2013 8:00:00 PM	2.27	1.57	1,15
3/13/2013 12:00:00 PM	2.25	1.56	1.07
3/13/2013 4:00:00 AM	2.27	1.57	1.02
3/12/2013 8:00:00 PM	2.27	1.56	1.14
3/12/2013 12:00:00 PM	2.23	1.54	1.15
3/12/2013 4:00:00 AM	2.25	1.57	1.12
3/11/2013 8:00:00 PM	2.29	1.57	1.13
3/11/2013 12:00:00 PM	2.22	1.54	1,19

### 3/25/2013 8:00:47 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
3/25/2013 4:00:00 AM	2.16	1.51	1.18
3/24/2013 8:00:00 PM	2.08	1.47	1.15
3/24/2013 12:00:00 PM	2.14	1.49	1.22
3/24/2013 4:00:00 AM	2.17	1.50	1.10
3/23/2013 8:00:00 PM	2.12	1.48	1.15
3/23/2013 12:00:00 PM	2.20	1.54	0.88
3/23/2013 4:00:00 AM	2.24	1.56	0.98
3/22/2013 8:00:00 PM	2.23	1.55	1.04
3/22/2013 12:00:00 PM	2.25	1.55	1.07
3/22/2013 4:00:00 AM	2.22	1.53	0.93
3/21/2013 8:00:00 PM	2.22	1.55	1.06 1.02
3/21/2013 12:00:00 PM	2.26	1.57	1.02
3/21/2013 4:00:00 AM	2.21	1.52	1.02
3/20/2013 8:00:00 PM	2.24	1.55	1.03
3/20/2013 12:00:00 PM	2.28	1.59 1.51	0.94
3/20/2013 4:00:00 AM	2.17	1.52	1.05
3/19/2013 8:00:00 PM	2.21	1.56	1.08
3/19/2013 12:00:00 PM	2.23	1.55	0.98
3/19/2013 4:00:00 AM	2.25 2.20	1.53	1.02
3/18/2013 8:00:00 PM	2.20	1.50	1.07
3/18/2013 12:00:00 PM	2.10	1.50	1.07

### 4/1/2013 8:00:44 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
4/1/2013 4:00:00 AM	2.26	1.54	1.06
3/31/2013 8:00:00 PM	2.23	1.54	1.10
3/31/2013 12:00:00 PM	2.23	1.54	1.07
3/31/2013 4:00:00 AM	2.25	1.55	1.02
3/30/2013 8:00:00 PM	2.17	1.51	1.15
3/30/2013 12:00:00 PM	2.24	1.54	1.02
3/30/2013 4:00:00 AM	2.29	1.59	0.99
3/29/2013 8:00:00 PM	2.27	1.56	1.10
3/29/2013 12:00:00 PM	2.22	1.54	1.07
3/29/2013 4:00:00 AM	2.27	1.56	1.08
3/28/2013 8:00:00 PM	2.26	1.55	1.14
3/28/2013 12:00:00 PM	2.22	1.54	1.12
3/28/2013 4:00:00 AM	2.24	1.58	1.03
3/27/2013 8:00:00 PM	2.27	1.57	1.16
3/27/2013 12:00:00 PM	2.24	1.56	1.10
3/27/2013 4:00:00 AM	2.25	1.54	0.98
3/26/2013 8:00:00 PM	2.25	1.55	1.09
3/26/2013 12:00:00 PM	2.27	1.58	1.04
3/26/2013 4:00:00 AM	2.11	1.47	1.24
3/25/2013 8:00:00 PM	2.10	1.47	1.19
3/25/2013 12:00:00 PM	2.19	1.51	1.12

12:00:48 PM Friday, May 03, 2013

# NM STATE REPORTING

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9:02:51 AM Monday, July 08, 2013

# ATTACHMENT A707.C.b.

# Beryllium

TA-55-PF4 HEPA Filtration Differential Pressure Readings

### Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVENIANICE ROUNDS
Procedure no.:	TASS - STP-004 REVIS, IPC-1
Date of issue:	01.01.13
Working copy issued to:	SEYBERT
Working copy issued by:	CHANCE
	Certified Operations Center Operator

Working copy issued by:	CHANCE		
	С	ertified Operations Center Opera	itor
Operations Center Ope		1 2-10-13	
Sig	gnature	D	Pate
Required Reading for this Surv	eillance has been con	npleted.	
Training Checklist			
Workers Perform	ing Surveillance	Applicable Surveilland	ce Training Curren
**************************************		Initials	Date
R BASCOE		BC	1.1.13
B CHANCE		BC	1.1.13
D DUNANY			1-1-13
A DUNSETTH		ВС	1.1.13
P LUM		BC	1.1.13
A ORIZ		BC	1.1.13
F SMBERT		BC	1:1:13
M WITTIMM M		<b>B</b> C	1-1-13
N CHAVEZ		BC	1:1:13
R HOHNER		Bc.	1.1.13
Comments:			
	<del>`</del>		

Comments:

### Attachment B, Surveillance Training Checklist

	(Page 1 of 2)	8	
Procedure title:	SURVEILLANCE	RUVNOS	) <del>)</del>
Procedure no.:	TA55-57P-004	R15.1	
Date of issue:	6-1-13	10 ( ) . 1	
Working copy issued to:	ALONTIL		
Working copy issued by:	R. LVM		
		Operations Center Oper	rator
Operations Center Oper	of	1 7- 3-	/ 3
_	nature		Date
Required Reading for this Surve Fraining Checklist	cillance has been completed.		
		Applicable Surveillar	nce Training Current
Workers Performi	ng Surveillance	Initials	Date
R. BRISCOE		P	6-1-13
B. CHANCE		A	
D DUNGUY	, ( ) <sup>×</sup>	A	
A. DUNSIEITH	<b>4</b> /	D	
R. LUM	3)	D	
A. ORTIZ		0	
F SEYBRT		2	6-1-13
M WITTMAN J SMELTO			
J SMELTZ			
Comments:			
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#### Attachment B, Surveillance Training Checklist (Page 2 of 2)

Training Checklist (continuation sheet)

Training Checklist (continuation sheet)		
Workers Performing Surveillance	Applicable Surveillance	Training Current
	Initials	Date
R. HOHNER	0	6-1-13
Je MARTIMER	A	
T. LANGWORTHY	Ď	3
P. TRUSILLO	D A	
N MONTOUS	DA	
A. SANCHER	D	
G. CORIZ		
M IRISH		
A- HERRENA	P	6-1-13
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Page 23 of 38

Surveillance Rounds

TA55-STP-004, R15.1

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

					L		-			-	-			
		Date:			7					()	6/1/2	1/2013	6-2-17	
Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.	Tue.	M	Wed.	T	Thu.	Fri.		Sat.		Sun.	
whenever possible. Document if		Shift:	AM PM	AM PM		AM PM	AM	PM	AM PM		AM PM		AM P	PM
alternate P.D.Is are used.		Initials:			!					-	Re	9	3	d
Description	Gauge Acce	Acceptance Criteria			SOI	<b>XVEI</b>	SURVEILLANCE RESULTS (in. wc)	ICE F	ESU	-F		,		
200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc¹	· .								10,5-	Ja - Jal		75
100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	<-1.0 in. wc¹	C							-	85.1.	18.1-181-	1-18	357-
300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc¹	<b>S</b>							,	85.1	961-851-	F 961	3
400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	<-1.0 in. wc <sup>1</sup>		NP						1	161-	961-851-	1- 961	367-
200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>								7	Pi. 0-	6		9
100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>								7	5.0	74	3	727
300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc¹								<u> १</u>	た。マ	CC	نا	500
400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	≤-0.05 in. wc¹								9	\$2.0	1,19	9	90
IFIT Facility AP P	PDI-865-4 or PDI-865-5	≤-0.05 in. wc							1	3	Pi, a	2	-1919	9-
North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc								٦	01.0	5	01.01.	
South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc								2	11,0,	012	11-	
IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc								9	51.a	2	Mal. 821. 821.	इ

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					(rag	(rage 2 01 3	(									
;	Note		Date:		$\dashv$				:				6/1/2	1/2013	22-9	~
Readings using FC	Readings should be taken using FCS screens		Weekday:	Mon.		Tue.	W	Wed.	Thu.	u.	Fri.		Sat.		Sun.	ď
FMT#15	FMT#151,152,201LD		Shift:	AM	PM A	AM PM	[ AM	PM	AM	PM	AM	PM	AM	PM ,	AM	PM
and 2021 and local p be used if I	and 202LD. Freid verification and local plenum PDIs may be used if FCS is unavailable.		Initials:										٤	9	3	9
SRs	Description	Readings	Acceptance Criteria				SUR	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	LAN nsat.	CE R (circ	ESU!	LTS	Þ			-
	200 area re- circulation fan/		At least one fan/plenum is in	Sat	Sat	Sat Sat	Sat	Sat	Sat	Sat	Sat	Sat (	(Sa)		Ē	(gaf)
	plenum			Unsat	nsat U1	Unsat	tUnsat	Unsat	Unsat	Jusat	Jnsat C	Insat	Jnsat U.	nsat U	nsat	Jnsat
	100 area re- circulation fan/		At least one fan/plenum is in	Sat	Sat	Sat Sat	Sat	Sat	Sat	Sat	Sat	Sat	(Sat)	Sat	8	
	plenum	FR-804 Icon red and PDT-835 $\Delta P > .050$	service	Unsat U	nsat Or	Unsat	tUnsat	Unsat	Unsat	Jusat	Jusat U	Insat	Jnsat Uı	nsat U	nsat	Insat
4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat (			8	(E)
	plenum	FR-806 Icon red and PDT-837 AP > .050		Jnsat U	nsat Ur	Unsat Unsat Unsat Unsat Unsat	t Unsat	Unsat	Unsat	Jusat	Insat U	nsat [	Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat	nsat U	nsat C	nsat
	400 area re- circulation fan/	FR-807 Icon red and PDT-838 $\Delta P > .050$	At least one fan/plenum is in	Sat	Sat S	Sat Sat	Sat	Sat	Sat	Sat	Sat	Sat (	Sat	(Sa)	8	Sat
	plenum	FR-808 Icon red and PDT-839 △P >.050		Jusat U	nsat Un	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Unsat	Snsat	Insat L	Insat U	nsat	Unsat Unsat Unsat Unsat Unsat Unsat	ısat U	nsat U	nsat
	Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$	At least one	Sat	Sat S	Sat Sat	Sat	Sat	Sat	Sat	Sat	Sat (	Sat	(S)	6	
	fan/ plenum	FR-812 Icon red and PDT-841 AP>.050		Jnsat Uı	ısat Un	Unsat	Unsat	Unsat	Jnsat	Jusat L	fnsat U	nsat U	Insat Ur	ısat Ü	nsat U	nsat

Surveillance Rounds

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#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

,	Sun.	PM	9		8	Sat	Say Unsat	Unsat	Chsat	1932
5127	S	AM	S		(	Sat Unsat	Unsat	Sat Unsat	Saft	12500 (691
6/1/2013	Sat.	PM	d	}		(Sa) Unsat	Sat Unsat	Sat	Sat Unsat	1930
3	Š	AM	Ŝ.			Sat Unsat	Sat	Sat Unsat	Sat Sat Unsat	810
	Fri.	PM		TS	_	Sat Unsat	Sat Unsat	Sat Sat (Sat) (Sat) Unsat Unsat Unsat	Sat Sat Unsat Unsat	
	丘	АМ		SURVEILLANCE RESULTS	Sat. / Unsat. (circle one)	Sat	Sat	Sat Unsat	Sat Unsat	
	Thu.	PM		(CE R	. (circ	Sat Unsat	Sat Unsat	Sat Sat Sat Unsat Unsat Unsat	Sat Sat Sat Sat Unsat Unsat Unsat	
	П	AM		LLAN	Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
	Wed.	PM		RVEI	Sat.	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
	W	AM		SU		Sat Unsat	Sat Unsat	Sat Sat Sat Sat Unsat Unsat Unsat		
	Tue.	PM				Sat Unsat	Sat Unsat	Sat Unsat	Sat Sat Unsat Unsat	
	Tı	AM				Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
	Mon.	PM				Sat Unsat	Sat Unsat		Sat Sat Unsat Unsat	
	Ň	АМ				Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
Date:	Weekday:	Shift:	Initials:	Acceptance	Criteria	PDI-814-2 < PDJ-803- 2 < PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2 PDI-854-2	ion Time
	ck #4 in trib may	rnate		Callog	Sume	PDI-814-2 PDI-803-2 PDI-804-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-870-2 300 Area PDI-853-2 PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2	Completion Time
	iken on ra I equivale	nt any alte		Area		200 Area	100 Area	300 Area	400 Area	
Note	Gauge readings should be taken on rack #4 in the OC when nossible, local PDI equivalents may	be used if necessary. Document any alternate		Description	•	Glovebox exhaust header APs	< laboratory APs < basement APs for areas 100, 200, 300	and 400		
	Gauge read	be used if ne	The man	SRs	1	,	4.1.1.4			

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2. Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc

Completed by: 6/

Date 6.2-19 Time 1930

Reviewed by Bust Course Date: 6-3-13 Time: O'916.

Comments:

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

														•	
	Note		Date:	1/6/9	0	413	16/5/13		66 13	6/1	(3	6/8/	13 61	2//6/	~
Gauge re taken on	Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.		, Tue.	Wed.	- i	Thu.	Т	Fri.	Sat.		Sun.	
whenever	whenever possible. Document if		Shift:	AM P	PM AM	1 PM	AM ]	PM A	AM PM	1 AM	PM	AM	PM A	AM P	PM
alternate P	aliemale PDIs are used.		Initials:	18	130 CE	BABO	Q	Q an	RB	9	990	18	15	18	CAS.
SRs	Description	Gauge Acce	ptance Criteria				SURV	EILI	SURVEILLANCE (in. wc)		RESULTS	<b>)</b>			
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	<-1.0 in. wc <sup>1</sup>	2.8	10.1	70%	2.01	203 230	0.5	10.2.0	62	8.	105	202	00 2
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	<-1.0 in. wc <sup>1</sup>	981	96) B	001	188	- 89-158	1	89	28	86,	8. X	l .	50%
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	ارمه	1.8 A97	35	20.	<u>6</u>	5 F Sb. 1 -	19	85,	8	287	86	1999
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc¹	ab!	16.	8-1	167	1.19	7.	8	15%	6	199/5		951
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>	8107	10°	椞.		30	7): 8	P.O. 3	5/	Pá	P.0, P.	6	5
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	48.0	40, 65	12	72	2	32 -17	1,00,0	\$.	40,	1 -		3
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	≤-0.05 in. wc¹	4.0	1.0° ci	2.	02	P	21	10.0	5.	À.	3.	2,00,0	
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	≤-0.05 in. wc¹	12.0	40. Or.	رح.	8,	(A.	61.	100	2.	000	Of O		3,
	IFIT Facility AP	PDI-865-4 or PDI-865-5	<-0.05 in. wc	1 \	70,0	5.	51.1	2	p r	5,00	5.	87.0	0	5,0	5/
,	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	100	100	0/:		11-01:		0,00	2	0,0	0.0		0.
4.1.1.3	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	< \2\°0'	10,01	7	721'-	C1/21:	115 6	410	4	100	10, 21	7:	4
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc		82) 0' DE	3.	1.65	125	8JL [15)	ST O	12	7	20,0	82%.	6,

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

Substitute   Sub						1 2 2 2 7	,		,			
Screens  (CS screens  (L52,201LD  LLD Field verification labeled beautiful plenum PDIs may lift. 200 area recirculation fan/ plenum ple	;	Note		Date:	6/3/13	5/4/13	10/5/13	000	8/1/13	-	16/9	D
151,152,201LD	Readings using FC	should be taken S screens		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
Initials:  If FCS is unavailable.  Description  Readings  Criteria  200 area re- circulation fan/ plenum  plen	FMT#15	1,152,201LD		Shift:	_	AM PM	AM	AM	AM	AM	AM	PM
Description         Readings         Acceptance           200 area recirculation fan/plenum         FR-801 Icon red and plenum         At least one fan/plenum is in plenum           200 area recirculation fan/plenum         PDT-831 AP >.050         At least one fan/plenum is in plenum           100 area recirculation fan/plenum         PDT-832 AP >.050         At least one fan/plenum is in plenum           300 area recirculation fan/plenum         PDT-835 AP >.050         At least one fan/plenum is in plenum           400 area recirculation fan/plenum         PDT-837 AP >.050         At least one fan/plenum is in plenum           PDT-837 AP >.050         FR-807 Icon red and pDT-837 AP >.050         At least one fan/plenum is in plenum           PDT-837 AP >.050         FR-808 Icon red and pDT-839 AP >.050         At least one fan/plenum is in plenum           PDT-836 AP >.050         FR-807 Icon red and pDT-839 AP >.050         At least one fan/plenum is in plenum           PDT-836 AP >.050         FR-808 Icon red and pDT-830 AP >.050         At least one pDT-830 AP >.050           FR-811 Icon red and pDT-830 AP >.050         FR-812 Icon red and pDT-830 AP >.050         At least one pDT-830 AP >.050	and 2021. and local p	.D. Freid vernication lenum PDIs may PCS is unavailable.		Initials:	17 /	-	9	\$	18		18	<b>1</b> CFC
FR-801 Icon red and   PDT-831 \text{AP} > .050     circulation fan/   FR-802 Icon red and   Service     100 area re-   PDT-832 \text{AP} > .050     100 area re-   PDT-833 \text{AP} > .050     FR-803 Icon red and   PDT-833 \text{AP} > .050     FR-804 Icon red and   PDT-835 \text{AP} > .050     FR-805 Icon red and   PDT-835 \text{AP} > .050     FR-805 Icon red and   PDT-835 \text{AP} > .050     FR-806 Icon red and   Service   PDT-837 \text{AP} > .050     FR-807 Icon red and   PDT-838 \text{AP} > .050     FR-807 Icon red and   PDT-839 \text{AP} > .050     FR-808 Icon red and   Service   PDT-839 \text{AP} > .050     FR-811 Icon red and   PDT-839 \text{AP} > .050     FR-811 Icon red and   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-830 \text{AP} > .050     FR-812 Icon red and   Service   PDT-831 \text{AP} > .050     FR-812 Icon red and   Service   PDT-831 \text{AP} > .050     FR-812 Icon red and   Service   PDT-831 \text{AP} > .050     FR-812 Icon red and   Service   PDT-831 \text{AP} > .050     FR-812 Icon red and   Service   PDT-831 \text{AP} > .050     FR-812 Icon red and   Service   PDT-831 \text{AP} > .050     FR-812 Icon red and   Service   PDT-831 \text{AP} > .050     FR-812 Icon red and   Service   PDT-831 \text{AP} > .050     FR-812 Icon red and   Service   PDT-831 \text{AP} > .050     FR-812 Icon red and   Service   PDT-831 \	SRs	Description	Readings	Acceptance Criteria		7	SURVEI Sat. / U	LLANCE Jusat. (circ	RESULTS:	2		
PDT-832 \( \triangle PDT-832 \( \triangle PDT-832 \) AP > 050		200 area re- circulation fan/	FR-801 Icon red and PDT-831 AP >.050 or	At least one fan/plenum is in	<b>(2)</b>		(3)	Sat	gat	The state of the s	Sat	Sat
FR-803 Icon red and   At least one		plenum	FR-802 Icon red and PDT-832 $\Delta P > .050$	service		UnsatUnsa	tUnsat Unsat	Unsat Unsat	Unsat Unsa	Unsat Unsat		Unsat
FR-804 Icon red and PDT-835 $\Delta P > .050$ FR-805 Icon red and PDT-836 $\Delta P > .050$ FR-806 Icon red and PDT-837 $\Delta P > .050$ FR-807 Icon red and PDT-838 $\Delta P > .050$ FR-807 Icon red and PDT-838 $\Delta P > .050$ FR-808 Icon red and PDT-839 $\Delta P > .050$ FR-811 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$		100 area re- circulation fan/	FR-803 Icon red and PDT-833 AP >.050 or	At least one fan/plenum is in		_	(5)	Sag	-	— <u> </u>	(teg)	(Sat
FR-805 Icon red and circulation fan, plenum is in plenum   FR-805 Icon red and plenum   FR-805 Icon red and plenum   FR-806 Icon red and plenum   FR-806 Icon red and plenum   FR-807 Icon red and plenum   FR-808 Icon red and plenum   FR-808 Icon red and plenum   FR-808 Icon red and plenum   FR-811 Icon red and ppg-815 Icon red and circulation   FR-812 Icon red and fan/plenum is in fan/plenum i		plenum	FR-804 Icon red and PDT-835 $\Delta P > .050$	service	Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat U	nsat
FR-806 Icon red and PDT-837 AP >.050  FR-807 Icon red and PDT-838 AP >.050  FR-807 Icon red and PDT-838 AP >.050  FR-808 Icon red and PDT-839 AP >.050  FR-811 Icon red and PDT-840 AP >.050  FR-812 Icon red and PDT-841 AP >.050	4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in	~	-/-		<del> </del>		(35)	(JEX)	Sat
FR-807 Icon red and FR-808 Loon red and FR-808 Icon red and PDT-839 $\Delta P > .050$ far/plenum is in FR-808 Icon red and PDT-839 $\Delta P > .050$ At least one PDT-840 $\Delta P > .050$ At least one FR-811 Icon red and PDT-840 $\Delta P > .050$ At least one FR-812 Icon red and PDT-840 $\Delta P > .050$ At least one FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and Service Unsat Uns		plenum	FR-806 Icon red and PDT-837 $\Delta P > .050$		Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat U	nsat
FR-808 Icon red and Service Unsat Un	,	400 area re- circulation fan/	FR-807 Icon red and PDT-838 $\Delta P > .050$ or	At least one fan/plenum is in			1/2	7		$\vdash \sim$	<b>S</b>	Sat
FR-811 Icon red and PDT-840 AP > .050 At least one or fan/plenum is in FR-812 Icon red and service PDT-841 AP > .050		plenum	FR-808 Icon red and PDT-839 \( \D\ PDT-839 \( \D\ PDT-839 \)		Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat	Unsat Unsat	Unsat Unsat	Unsat Ur	nsat
FR-812 Icon red and service PDT-841 AP > 050		Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$	At least one	$\sim$	$\sim$		/_			R	Sat
		fan/ plenum	FR-812 Icon red and PDT-841 △P >.050		Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat Unsat	Unsat Ur	ısat

Surveillance Rounds

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#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

Note			Date:	6/3	2//3	3 6/4/13		6/5	113	6/5/13 6/6/13	13	6/1/13	1,7	18/01	1/3	6/9	13
be tal 1 PDI	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	ck #4 in	Weekday:	Ŭ	Mon.	Tue		Wed	Ti	Thu.	ı,	Fri		Sat	:	Sun	
commen	be used if necessary. Document any alternate	mate	Shift:	AM	PM	MA	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			Initials:	131	990	13	0%0	G.	9	38	9	B	969	3	9	R	298
Description	Area	Gauge	Acceptance				*	SUR	VEIL	LAN	CE R	SURVEILLANCE RESULTS	TS				
			Cilieria				(	2	at. / U	Sat. / Unsat. (circle one)	(circle	one;	,	(	i	(	
Glovebox exhaust header APs	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803- 2 < PDI-804-2		(Sat) Unsat	(Sa) (Sa) (Sa) (Sa) (Sa) (Sa) (Sa) (Sa)	Sat Unsat U	Chisat (	Unsat	(Sat) Unsati	Sat Sat Unsat Unsat	X	Sat	Sat	Sat Cursat L	Sat	Sat
< laboratory APs < basement APs for areas 100, 200, 300	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	D isat	Sat	Sat Sat Sat Sat Unsat Unsat	Sat	Unsat (	Chisat (	(Sa) (Sat) (Sa) Unsat Unsat Unsat		Unsati	Sab Unsat	Sat	(Sat) Unsat	Unsat C	(Sat Unsat
, ,		0 000				_	_	1	7	-+	-	-}	1	T		1	1
	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	a se	Sat	Sar (Sat) Sar Unsat Unsat Unsat	Chsat (	Chsat C		Unsat Unsat Unsat	Sat	Chsat	Sat Unsat	Unsat	Sat	Cast C	Sat
<u> </u>	400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852-	Unsat	Sat	S S S S S S S S S S S S S S S S S S S	Sat	Chsat	Onsat C	(Sat Sat Sat Unsat Unsat	Sat		Sat	Sat	Sat	nsat Tagat	Sat
		Completion Time	ion Time								T						
. <u>.</u>				25 90	M34	8659 1934 1835 1935 1930 DESO 1930 25 1942 075 1939 0718	(A)	S733	8	98	930	22	942	>hc	1939	912	SHS

Note: 2 SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2. Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc

Date 6/9/13 Time 1945 Reviewed by: Completed by:

Comments:

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

					,	`									
(	Note		Date:	6-10-13	1	6-11-9	612.13		6.13.13	Ġ	6-14-13	9	45-13	(e/1/e/13	113
Gauge retaken on	Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.	T	Tue.	Wed.		Thu.		Fri.	Sat.	it.	Sun.	· i
whenever	whenever possible. Document if		Shift:	AM PM	1 AM	PM	AM P	PM A	AM PM	1 AM	I PM	AM	PM	AM	PM
allemale	anchair Plus are used.		Initials:	2	9	J	EC EDDO		83	9	3	Þ	J	0	3
SRs	Description	Gauge Acce	Acceptance Criteria				SURVEILLANCE (in. wc)	EIL.I.	ANCE (in. wc)		RESULTS	1			
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	<-1.0 m. wc <sup>1</sup>	Por 10/5	<del></del>	Dog. 2.30	-2012	20,7	2.01 -103	2,02	202	20.2-002-		202,202	87
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	<-1.0 in. wc <sup>1</sup>	LB:1-188.1-		481-881	1.89/1.66.1-		C8.1.88	1.35	<u>69</u>	1,89	-1.87	-1.89	967
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	841-861-		46)	198		198-197	199	33,	1.99		-1.99 1.08	30.
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	<-1.0 in. wc¹	967-867-		161-000	1.89	87/	198 20		34	-2,03-202		-7.6/	7.01
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc¹	61- 81-		82.	:20 -1	81-02			1 11	-0.i8	**	- (%)	61:
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	12: 16:-	15	E-13	12.	23 2	\$	-23	12.7	27.9	772	7.	57:
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	≤-0.05 in. wc <sup>1</sup>	0. 19 -	-32	72,-	z.	7.19	2,7.3	-	平	20.00	or.	-,19	3
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc <sup>1</sup>	02: 81:	132	52.	2.	\(\frac{\tau}{2}\)	27.7	127	6]-	P1.00	or:	-161'-	72:
	IFIT Facility AP	PDI-865-4 or PDI-865-5	<-0.05 in. wc	01-101-	5.6		P1-191-	2. P.	6	10-1	612	91.0	213	5	61,-
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	01- 61	210	01-	.101.		01-60.	01.	80.	50,0	-101:	8	5.
4.1.1.3	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	2): 11	717	111	101:	11.	01'- 60	2,10	-0%	100	-101-	-60-	=
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	B11-811	SIT:	101:	112 119	رک ا	211- 101	بآة	(60 -	80,0	3	JII-140°	5
	L									-	J				]

\* 6-14-13

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

Note by Cartellian   Note					ار ا	(1 uso 2 or 1)	7							
Screens  (CS screens (CS screens (CS screens (CS screens (CS screens (CS screens (CS screens (CS screens (CS screens (CS screens (CS screens (CS screens (CS Scree	:	Note		Date:	6-10-13		$\overline{}$	2-12-13	6.13.13	1-14-9		15-13		6/16/13
Shift: 21.152,201LD	Keadings using FC	s should be taken S screens		Weekday:	Mon.	Tu	e	Wed.	Thu.	Fri.		Sat.	<i>V</i> <sub>2</sub>	Sun.
Initials:  If FCS is unavailable.  Description  Readings  Criteria  200 area re- circulation fan/ plenum pl	FMT#15	1,152,201LD		Shift:		AM			AM	AM		MM PM	I AM	I PM
DescriptionReadingsAcceptance200 area recirculation fan/plenumFR-801 lcon red and plenumFR-802 lcon red and plenumAt least one fan/plenum is in plenum100 area recirculation fan/plenumFR-803 lcon red and plenumFR-804 lcon red and plenumAt least one fan/plenum is in plenum300 area recirculation fan/plenumFR-805 lcon red and plenumAt least one fan/plenum is in plenum400 area recirculation fan/plenumFR-806 lcon red and plenumAt least one fan/plenum is in plenumPPDT-833 ΔP > 050At least one fan/plenum is in plenumFR-807 lcon red and plenumFR-808 lcon red and plenumAt least one fan/plenum is in plenumPFR-808 lcon red and plenumFR-808 lcon red and plenumAt least one fan/plenum is in fan/plenum	and local p be used if I	J.D. Fretu verincation Menum PDIs may FCS is unavailable.		Initials:	3	9		2C @ 30	8	9	<u>۶</u> ج	8	0	্
200 area re- circulation fan/ plenum	SRs	Description	Readings	Acceptance Criteria			<i>y</i> 2	URVEI Sat. / I	LLANCE Jnsat. (cii	RESUL cle one)	TS	-	<b>b</b>	
PR-802 loon red and   Service   U	P	200 area re- circulation fan/	FR-801 Icon red and PDT-831 AP >.050 or				<del></del>			(3)	1	(Sg)	(8)	
100 area re-   circulation fan/ plenum   FR-803 Lon red and plenum   FR-804 Lon red and plenum   FR-805 Lon red and plenum   FR-805 Lon red and plenum   FR-805 Lon red and plenum   FR-807 Lon red and plenum   FR-807 Lon red and plenum   FR-808 Lon red and plenum   FR-808 Lon red and plenum   FR-808 Lon red and plenum   FR-811 Lon red and ppT-834 \(\Delta P\text{P}\)   FR-812 Lon red and ppT-841 \(\Delta P\text{P}\)   FR-841 \(\Delta P\text{P}\)   FR-842 \(\Delta P\text{P}\)   FR-841 \(\Delta P\text{P}\)   FR-841 \(\Delta P\text{P}\)   FR-842 \(\Delta P\text{P}\)   FR-841 \(\Del		plenum	FR-802 Icon red and PDT-832 △P > .050		Unsat Unsa	t Unsat	Jusat U	nsat Unsat	Unsat Unsa	t Unsat Un	isat Ur	ısat Unsa	tUnsa	tUnsa
PDT-835 \text{AP>.050}		100 area re- circulation fan/	FR-803 Icon red and PDT-833 $\Delta$ P > .050 or FR-804 Icon red and	At least one fan/plenum is in	(Sat)	(Eg)		Sat	(at )	S S	(a)	Sat San	(3)	(%)
FR-805 Icon red and   At least one		picinain	PDT-835 AP >.050	2017100	Unsat Unsa	Unsat	Jusat U	nsat Unsat	Unsat Unsa	t Unsat Un	sat Ur	ısat Unsa	tUnsa	t Unsat
FR-806 Icon red and PDT-837 \( \triangle AP > .050 \) FR-807 Icon red and PDT-838 \( \triangle P \) FR-808 Icon red and PDT-839 \( \triangle P \) FR-811 Icon red and PDT-840 \( \triangle P \) FR-812 Icon red and PDT-841 \( \triangle P \) FR-812 Icon red and PDT-841 \( \triangle P \) FR-812 Icon red and PDT-841 \( \triangle P \) FR-812 Icon red and PDT-841 \( \triangle P \) FR-812 Icon red and Service PDT-841 \( \triangle P \) FR-812 Icon red and Service PDT-841 \( \triangle P \)	4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$ or			-/-				(B)		(at) (Saft)	(5)	(88)
FR-807 Icon red and fan/ fan/ fan/ fan/ branch red and FR-808 Icon red and PDT-839 \(\Delta P\) PDT-839 \(\Delta P\) DT-840 \(\Delta P\) DT-840 \(\Delta P\) PDT-841 Icon red and PDT-840 \(\Delta P\) PDT-841 \(\Delta P\)		plenum	FR-806 Icon red and PDT-837 AP > .050	service	Unsat Unsa	Unsat	Insat U	nsat Unsat	Unsat Unsa	t Unsat Un	sat Un	ısat Unsat	Unsai	Unsai
FR-808 Icon red and PDT-839 \( \text{AP} > .050 \) FR-811 Icon red and PDT-840 \( \text{AP} > .050 \) Or FR-812 Icon red and FR-812 Icon red and PDT-841 \( \text{AP} > .050 \) FR-812 Icon red and PDT-841 \( \text{AP} > .050 \)		400 area re- circulation fan/	FR-807 Icon red and PDT-838 $\Delta P > .050$ or					/	$\perp$			(a)	(35)	(8)
FR-811 Icon red and PDT-840 $\Delta$ P > .050 At least one or fan/plenum is in FR-812 Icon red and PDT-841 $\Delta$ P > .050		plenum	FR-808 Icon red and PDT-839 \text{\rm PD} > .050		Unsat Unsat	Unsat	Insat UI	nsat Unsat	Unsat		sat Un	sat Unsat	Unsai	Unsat Unsat
FR-812 Icon red and service PDT-841 $\Delta P > .050$		Vault re-			-	$\vdash$				_		at Sat	(Sat	SS
		circulation fan/ plenum			Unsat Unsat	Unsat	nsat Ur	ısat Unsat	Unsat Unsat	Unsat Uns	sat Un	sat Unsat	Unsat	Unsat

Surveillance Rounds

Page 25 of 38

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

1			1		· · · ·		<b>.</b>	1	1 = 2 :		
	6/13	Sun.	PM	S	A	Onsat	Sat	Chisat			382
	6-1413 6-15-13 6/16/13	Š	AM	7		Unsat	Sak Unsat	San	Unsat		561 pero Jay 1250 Epri 8.30 HA 6510 HAI 270 HAI
	5/3	Sat.	PM	ک		Sat Unsat	Sat	Sat	Sat		F
	6-15	S	АМ	>		Unsat		Christ Unsat	Sat		2510
	-13	·-	PM	८	TS	Chrisat	Sat	Sa) Onsat	TES TEST		1943
	6-69	Fri.	AM	2	ESUI e one)	&at Unsat	Sat Unsat	Unsat			89
		ri.	PM	ξ	CE R	(Sa) (Sa) (Sar) (Sa) (Sa) Unsat Unsat Unsat Unsat Unsat	Sat) Saty (Sat) (Sat Unsat Unsat Unsat	(Sat) (Sat) Unsat Unsat	'Sat Chisat		F. E.
	6.12.13 6.13.13	Thu.	ΑМ	8	SURVEILLANCE RESULTS Sat./ Unsat. (circle one)	Chisat	Sat	ag Legal	Sat Sat		02/20
	52	Ţį.	PM	OF S	RVEII Sat./ I	Sat Sat Sat Unsat Unsat	Cath Cath	Sat	Sat		1941
	21.9	Wed.	AM	80 80	SUI	Unsat	Sisat Sisat	Clisat Clisat	Tage Tage		616
	13	نه	PM	ઇ		Unsat	Sisat Sat	Sat	Sat Sat Sat		256
	6-10-13 6-11-13	Tue.	AM	9			Say (San) Unsat Unsat		Onsat		0630 PHY 0630 1955
	9-13	n.	PM	ડ		Say (Say (Say) Insat Unsat Unsat	Saf Sat Unsat	Sat (Sat )	Sat		मिर्
	9	Mon.	AM	d		Unsat	Chisat Chisat	S S S S S S S S S S S S S S S S S S S	Sat		0690
	Date:	Weekday:	Shift:	Initials:	Acceptance Criteria	PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	PDI-864-2 < PDI-852-		
		ck #4 m	rnate		Gauge	PDI-814-2 PDI-803-2 PDI-804-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-870-2 PDI-853-2 PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2	Completion Time	
		ken on ra I equivale	nt any alte		Area	200 Area	100 Area	300 Area	400 Area		
	Note	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	be used if necessary. Document any alternate		Description	Glovebox exhaust header APs	< laboratory APs < basement APs for areas 100, 200, 300	and 400			
	(	Gauge read the OC when	be used if ne	The magnitude	SRs		4.1.1.4				

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

On-duty Supervisor Reviewed by:

Date 6-143 Time 1952

Comments:

Completed by

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

						,	<b>\</b>		-	-	ŀ				$\mid$			
Note	,		Date:	6-17-13		6-18-13		6/19/13	- 1	1/27/3	13	100	13/	12/27/	13 6	123/13	13	
Gauge readings should be taken on rack #4 in the OC	uld be the OC.		Weekday:	Mon.	ے	Tue.	ai l	Wed.	_:	Thu.		Fri.		Sat.		Sun.		
whenever possible. Document if	ument if		Shift:	AM	PM	AM ]	PM /	AM	PM A	AM	PM /	AM I	PM /	AM P	PM A	AM	PM	
allemate PDIS are used.			Initials:	9	3	0	BC, KB	88 (	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		3	18	<b>8</b>		8	Cyc	'n	
Description	tion	Gauge Acce	Acceptance Criteria				SZ.	SURVEILLANCE (in. wc)	EILI	ANCE (in. wc)	E C	RESULTS	TS			4		
200 area glovebox exhaust header ΔP	glovebox sader AP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc¹	202.1	7.07	202-201-202	203-2	2+(0)	203	202-70,2	28	7.02	1202	707-	7.01	707	.2.02	
100 area glovebox exhaust header ΔP	glovebox eader AP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc	Ž,		1.87-188	8	- <del>2</del>	24	201	187	80	1.88 1.88.1	(a)	887	3337	1.89	
300 area glovebox exhaust header AP	dovebox ader AP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc¹	1 8 7		-147	-1861-	661-13-1-	3	38/1	861	8,	86:1-	1,69,1	65:	8-1	661	
400 area exhaust h	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc¹	-[987.03			70(-85)	\$	22	2027	7.00	10.2	151-661-	<del></del>	2.03	03/	06.1	
200 area labo header ΔP	iboratory 1P	200 area laboratory PDI-803-1 or header AP PDI-803-2	<-0.05 in. wc			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	75		3'	0 81:	5,0	1:	6: 31-	1	5	12	
100 area labora header ∆P	iboratory r AP	100 area laboratory PDI-802-1 or header AP PDI-802-2	<-0.05 in. wc <sup>1</sup>		2	- 32	3		(2)		2:	40,	:23		7, 72.	-	,0	
300 area labora header ∆P	iboratory r AP	300 area laboratory PDI-853-1 or header AP PDI-853-2	<-0.05 in. wc¹		<u> </u>	7	7,	2) 8	-	2	1	40.0	12;	, <u>v</u>	-	3.	,S	
400 area labora header ΔP	boratory r AP	400 area laboratory PDI-852-1 or header AP PDI-852-2	≤-0.05 in. wc¹	7.	20			719 2.19	) \$\frac{1}{2}\cdot		30	Ot O	, si	9. W.	<del>                                     </del>	8/	63:	
IFIT Facility AP		PDI-865-4 or PDI-865-5	<-0.05 in. wc		-	1,		I		51	67	\$0.	9	18 E.		5,	10	
North basement AP	ement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc		60.	: 60:		69-01'			8	50.Q			<del>                                     </del>		8	
South basement AP	ment AP		< 0.00 in. wc		01:	. po.	0.	01: 60:	Ι	€.		500	, 0, 1,	8.		50	2	
IRT Tunnel AP	nnel AP	PDT-901 or PDI-901	< 0.00 in. wc	1, 180'	Pal. 801.		(01,-80) (01).	1 2		7. Va	0, 511:	8),0	-1011-	397.	1	01/	, F	
						1				-	1				,	1		

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					1	(1 uge 7 of )	7									
;	Note		Date:	6-17+3		6-18-13	3 6/14	4/13	6/20/13	13	6/21/17	-	6/22/1	3	123	3
Reading using FC	Readings should be taken using FCS screens		Weekday:	Mon.	n.	Tue.	M	Wed.	Thu.	<u>.</u>	Fri.		Sat.		Sun.	
FMT#15	FMT#151,152,201LD		Shift:	AM	PM A	AM PM	1 AM	PM	AM 1	PM A	AM PM		AM PM		AM P	PM
and local pe used if	and local plenum PDIs may be used if FCS is unavailable.		Initials:	9	28	. %	829	8	) Geo	3	R.	8	8	3		20
SRs	Description	Readings	Acceptance Criteria				SUR	VEIL it./U	RVEILLANCE RESUL Sat. / Unsat. (circle one)	E RI circle	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	S		7	1	4
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 AP >.050 or	At least one fan/plenum is in	(3)		Ear Car	Sat	(Sat	(Seg)	(gg)	\$gay (Sat		Sat	(Sa)		<b>©</b>
	plenum	FR-802 Icon red and PDT-832 AP > .050	service	Unsat U	nsat U.	nsat Uns	Unsat	Unsat	Jusat U	nsat Ur	ısat Uns	at Un	sat Uns	at Uns	at Un	ısat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 AP >.050 or	At least one fan/plenum is in	(3)	(3)		(3)		Sat	(8)	Sat	Sag	at Sat		+	
	plenum	FR-804 Icon red and PDT-835 AP >.050	service	Unsat U	nsat Ui	Unsat Unsat Unsat Unsat	nt Unsat	Unsat	Jusat U	nsat Ur	Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat	at Un	sat Uns	at Uns	at Unsat	sat
4.1.1.6	300 area recirculation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in				(ES)	(E)	Sar	(6)	8at Sai	San	a) Sat	Sat		(g)
<del></del>	plenum	FR-806 Icon red and PDT-837 \( \D P > .050 \)		Unsat U	nsat Ur	ısat Unsa	Unsat	Jusat (	Insat U	nsat Un	sat Uns.	at Un	sat Uns	at Uns	at Un	Sat
	400 area re- circulation fan/		At least one fan/plenum is in	(3)		(S)	(3)	(Egy	Sat	Sat	Say	Sat	at Saf	Sat	ty Sat	(g)
	plenum	FR-808 Icon red and PDT-839 AP > .050		Jnsat U1	nsat Ur	ısat Unsa	Unsat Unsat Unsat Unsat Unsat Unsat	Jusat	Unsat Ur	ısat Un	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	at Uns	sat Uns	at Uns	at Uns	sat
	Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$	At least one			San	(SS)	(%)	Sat	Sat	Sat	(Sat)	it) (Say	Sat	(as)	(Fe
	fan/ plenum	FR-812 Icon red and PDT-841 AP >.050	service	Jnsat Ur	ısat Un	sat Unsa	Unsat	Jnsat U	nsatUr	ısat Un	sat Uns	at Uns	sat Uns	at Uns	at Uns	sat /
				-					$\left  \right $	$\frac{1}{2}$					_	

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

Date: 6-17-13 6-18-13 6/1-(13 6/20/13 6/21/13 6/2/13 6/23/13	Weekday: Mon. Tue. Wed. Thu. Fri. Sat. Sun.	Shiff: AM PM	Initials: 9 8C 9 8C K6 C 1840 0 5 5 500 8C 1840 8C	SURVEILLANCE RESULTS Sat / Unsat (circle one)	Sail Sail Sail Sail Sail Unsat Unsat Unsat Unsat	PDF-802 (Sat) (Sat	PDI-853. (Sat) (Sa	PDI-852- Unsat Uns	0700 1925 1972 1370 1395 COTIS 1952 COTIS 1970 135 1970
			Initials	Area Gauge Acceptance	200 Area PDI-813-2 PDI-814-2 PDI-803- PDI-803-2 2 PDI-804-2	100 Area PDI-820-2 PDI-820-2 < PDI-802- PDI-804-2 2 < PDI-804-2	300 Area PDI-853-2 PDI-870-2 < PDI-853- PDI-854-2 2 < PDI-854-2	400 Area PDI-864-2 PDI-864-2 PDI-852-PDI-854-2 PDI-854-2 PDI-854-2	Completion Time
Note	Cauge readings should be taken on rack #4 in the OC when possible local PDI equivalents may	be used if necessary. Document any alternate		SRs Description Ar	Glovebox exhaust header APs	Ps for 300	and 400	400 /	

Note: \* Mode 2 acceptance criteria is < 0.00 in. wc Note: \* SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Completed by: Will Value Date 06 13.13 Time 1971

Reviewed by: But Buty Supervisor

Comments:

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

						(2.10.								
į	Note		Date:	6-24-13		6-25-13	177/23	136	6/22/3		6-28-13	6-2943		6/30/13
Gauge re taken on	Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.	T	Tue.	Wed.	_:	Thu.	4	Fri.	Sat.		Sun.
whenever	whenever possible. Document if		Shift:	AM PM	1 AM	PM	AM	PM A	AM PM	AM	PM	AM PM	M AM	M PM
allenialer	alicatiale r Dis are used.	7	Initials:	8	9	3	SAC RO	8	181	9	Y	4	1	3
SRs	Description	Gauge Acce	Acceptance Criteria	)			SURV	EEL	SURVEILLANCE RESULTS (in. wc)	RESI	STA			0
	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc¹	202-203	3.6	20.2.202	70.7	201, 20	107-101	2,0	-2.0)	2012.01	_	100-1.01
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	<-1.0 in. wc <sup>1</sup>	8 8 -	88.1- rs.	-1.58-1.88	0):/~	08.1.	\$6.1.		1.87	1.89-1.85	24-1-88	1-89
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	8-1-1 8-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	1.89	26:1-	7,90	198 Jan	1.98 -1.98	87-18	-1,98-2.00	84.1-0ac=	18~197	17-1-98
	400 area glovebox exhaust header ∆P	PDI-864-1 or PDI-864-2	≤-1.0 in. wc¹	Ob: \ 41-	761-001	161	1837	86), 19	86-1-8t	-1.9	194.49	194-198	8 -1-8	86-1-8
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>	6:00	0	75	11	l .	10.W	1.	Si.ac	91	ا ا	7,0-
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	12.00 16-	22	22:-	3	0.027	81.0.	200	57.0	12,0-16-		1.0.19
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc <sup>1</sup>	20°0′ 06°		12.	E.		0.0°	, ·	. 30 D. 73	20,00	225 Y	7-0-7
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc <sup>1</sup>	V.0 6)	200-	Ø.	, 2°.	<i>Y</i>	00		ام يو	04.0,00	2,	07.0-
	IFIT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	P1.0 P1-	9:	61-	5/1	0. 91.	Ø. 0.	71,	21.0	61.07 61	2	97.0-
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	Par 90-	14	9:	10.			1 %	40.0	010 60-	T	-,16-0-10
4.1.2.3	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc		8	2.10	10.		01.	Bi	10.a	01,00,00	7.	01,0-
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	-80'0 POL	12.	-100	(5)	20°0'	511.5 1.11.5	12	101:0	2110 EDI.	5),	P111.0.

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					(ra	(Fage 2 of 3	3									
÷	Note		Date:	6-24-13	43	6-25-13	3	(26/13	12/2	27	6-28-19		6-2913	13	(1/0E/01	21/0
Keadings using FC	Keadings should be taken using FCS screens		Weekday:	Mon.	'n.	Tue.		Wed.	), , , , ,	Thu.	Fri.		Sat.	i.	Sun.	n.
FMT#15	FMT#151,152,201LD		Shift:	AM	PM	AM P	PM A	AM PM	AM	PM	AM	PM.	AM	PM	AM	PM
and local r be used if I	and local plenum PDIs may be used if FCS is unavailable.		Initials:	9		. Q	1	CAS .	13	8	9	5	Ò	6	Co	1
SRs	Description	Readings	Acceptance Criteria				SI	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	LAN	CE R (circ	ESUI le one	SLIC				
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 \( \D\ \text{PD} > .050 \) or	At least one fan/plenum is in	<b>©</b>	Sat	(S)	Sat	(E)	(g)	(3)	(Fig)	(tegs)			(3)	(%)
	plenum	FR-802 Icon red and PDT-832 ΔP >.050		Unsat	Jusat	Insat Un	sat Uns	Unsat	Unsat	Unsat	Jnsat U	nsat U	Insat U	Insat	Jusat	Jnsat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 AP >.050 or	At least one fan/plenum is in	(Sa	(3)	<b>®</b>	Sat	TT)	(Sal	Sat	6			3	(SS)	(Sat)
	plenum	FR-804 Icon red and PDT-835 $\Delta P > .050$	service	Unsat	Jnsat C	nsat Un	sat Uns	Unsat	Unsat	Unsat	Jnsat U	nsat U	nsat U	Insat U	Insat	Jnsat
4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 AP >.050 or	At least one fan/plenum is in	<b>S</b>	(Sall)	<b>S</b>	(3)		Say	(3)	(Sat)	Sat	(Sat)	(Sat)	(E)	(Sa)
	plenum	FR-806 Icon red and PDT-837 $\Delta P > .050$	service	Unsat	Jusat U	Unsat Unsat Unsat Unsat	at Unsar	at Unsat	Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Jusat	Insat U	nsat U	nsat U	nsat U	Insat	Jnsat
	400 area re- circulation fan/		At least one fan/plenum is in	<b>S</b>	8	8	Sat		(S)	<b>3</b>	Sat		(Sat)	(Sat	(%)	Sat
	plenum	FR-808 Icon red and PDT-839 \text{\alpha}P > .050		Unsat	Insat U	nsat Uns	at Uns	Unsat Unsat Unsat Unsat Unsat Unsat	Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Jusat	Insat U	nsat U	nsat U	nsat U	nsat	Insat
	Vault re-	FR-811 Icon red and PDT-840 AP > .050 or	At least one fan/nlenum is in	<u></u>	Sat	(3) (3)	Sat	Sat	(3)		18	(Sat			(Sat)	(Sat
	fan/ plenum	FR-812 Icon red and PDT-841 \( \D\ PD\)		Unsat U	Insat U	nsat Uns	at Uns	Unsat	Unsat	Jusat	nsat U	nsat U	nsat U	nsat U	nsat C	nsat
										1	$\left  \right $	-	1	1	1	7

Surveillance Rounds

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ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

ſ			Γ_			# #	L ta	∓ ta	a te	~
	130/13	Sun.	PM	Ž		Sat Unsat	Cusat	(Sat Unsat	Sat Unsat	1936
	16/2	- "	AM	V		(Sa) Unsat	Sab	(Sat) (Sat Unsat Unsat	Chisat Chisat	220
	9-13	Sat.	PM	ķ	P	Sal Unsat	(Sat) Unsat		(Sat) (Sah) Unsat Unsat	1613.1
	6-2	Š	AM	4		(Sa) Unsat	Sa Unsat	Sa) Unsat	Cnsat	073
	0/27/15 G-2813 G-29-13	Fri.	PM	×	LIS	(Sat) (Sat) Unsat Unsat	Sat Unsat	Sat Unsat	Sat	PEP16250 1841 & 10 0441 bETO 8291
	6.2	五	АМ	9	ESUI e one	Sat	Sat Unsat	Sait	Sat Unsat	0730
	/15	'n.	PM	8	CE R (circl	Sat Sat	Sat		a sa	6261
	6/27	Thu.	AM	A	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	Sat Sat Sat Unsat Unsat	Say (Sat (Sa) (Say (Sat) Unsat Unsat Unsat Unsat	Cirsat	Sat	
	113	jg.	PM	1	RVEII Sat. / U	Cast Unsat	Chrsat		e las	PBI 10733
	6/20	Wed	AM	CARSI	SUI	(Sat	Sat	Sat Sat Unsat Unsat	Sat	3
	6-25-13 6/26/13	ej.	PM	3		(Sat) (Sat) (Sat) Unsat Unsat Unsat	Sat	Sat		8
	2-9	Tue.	АМ	9		Cusat	S C D S S S S S S S S S S S S S S S S S	Christ (	Sat Sat Unsat Unsat	26,50
Ī		'n.	PM	N	0	Sat Unsat	Sat Sat	Sat Unsat	Sath	1Hb
	6-2413	Mon.	AM	9		Sat Unsat	Sat	Sat	nsat	141 0590 1461 0590
	Date:	Weekday:	Shift:	Initials:	Acceptance Criteria	PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-820-2 < PDI-802-	PDI-870-2 < PDI-853- 2 < PDI-854-2	PDI-864-2 < PDI-852-	
		ck #4 in	rnate		Gauge	PDI-814-2 PDI-803-2 PDI-804-2	PDI-820-2 PDI-802-2 PDI-804-2	300 Area PDI-853-2 PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2	Completion Time
		ken on ra I equivale	nt any alte		Area	200 Area		300 Area	400 Area	
	Note	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	be used if necessary. Document any alternate		Description	Glovebox exhaust header APs	< laboratory APs < basement APs for areas 100, 200, 300	and 400		
		Gauge read the OC when	be used if ne	T Dis used.	SRs		4.1.1.4			

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2. Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc

Date 6/30/13 Time 1939 Completed by: Mase

Reviewed by:

Comments:

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:						6/1/13	6-2-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:						1	3
	Description / Gauge	Acceptance Criteria	1	97	SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)		
·	Flammable Gas Channel								
SR	DET-305-3 (LCD Reading)	AZ	)					600	<b>(30)</b>
4411	CP-305-H (LED								
	Reading)							800	(500)
	(DET-305-3) – (CP-305H)	Record Calculated Value			<u> </u>			(00)	(SO)
	(LCD Reading) (LED Reading)	> -0.1; <+0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat. Sat. / Unsat.	1	Sat (Unsat.
		Completion Time.			>				) {
		Completion time.						050	0220

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 2 of 4)					
			Date:						6-1-13	2+2-7
			Weekday:	Mon.	Tue.	Wed.	Thu	Fri.	Sat.	Sun
			Initials:						4	તુ
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 \text{ & > 0}^{1} \text{ in. wc}$						1.0	75,
	(HVP-841) AP	PDI-894-2	$\leq 2.0 & > 0^1 \text{ in. wc}$						p. 0	33
	South Corridor supply (HVP-	1-568-IQd <sub>1</sub>	≤ 2.0 & > 0' in. wc						0.7	%0
4.1.3.4	810) AP	PDI-895-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						1.1	01.1
		1-718-10d <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY
4.1.3.4	300 area glovebox	PDI-817-2	<2.0 & > 01 in. wc						57.87	STAY
	exhaust niter plenum (FF854) AP	PDI-817-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						STBY	YOUS
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$						STBY	STBY
	300 area special	PDI-81 9-1	<2.0 & > 01 in. wc			7			STBY	STBY
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$						STBY	STOX
	(FF858) AP	PDI-819-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc			O			87.87	STBY
		<sup>1</sup> PDI-818-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						6.74	ائد. الحر
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$				7		0.3	02'
	exnaust niter plenum (FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$				/		0.3	\$23
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$						8.0	(30
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$						6.4	217"
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 & > 0^{1} \text{ in. wc}$						0.3	78
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$						0.3	7.6

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 3 of 4)					
			Date:						6.1.13	6-2-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:						४	ઠ
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-822-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STRY
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \text{ &> } 0^1 \text{ in. wc}$			-			STRY	stBY
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \text{ &> } 0^4 \text{ in. we}$						sr8y	YOUS
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$						srBy	STIBL
		¹PDI-823-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	\$					8.0	98'
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$						h.0	lh′
	(FF857) AP	PDI-823-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						0.5	3
		PDI-823—5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						5.0	25'
	South Basement exhaust	<sup>1</sup> PDI-830-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						0.25	,23
4.1.3.4	filter plenum	PDI-830-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc			7			0.7	on'
		PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			Ö			2.0	. [3
	300 area re-circulation	<sup>1</sup> PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$						0.88	188
	filter plenum	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$				7		0.5	751
4.1.1.7	(600 - 111)	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$				/		0.5	.Si
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$						0.62	79,
	filter plenum	PDI-837-2	<2.0 & > 01 in. wc						0.5	08'
		PDI-837-3	≤2.0 & > 01 in. wc						0.5	.45

Surveillance Rounds

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### ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				(rage	(rage 4 01 4)					
			Date:						6-1-13	6-2-13
			Weekday:	Mon.	Tue.	Wed	Thu.	Fri.	Sat.	Sun.
			Initials:						4	ડ
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	1-828-IQd <sub>1</sub>	$\leq 2.0 &> 0^1 \text{ in. wc}$		25				0.30	121
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$						4.0	90,
4.1.1.7	15 (100-1411)	PDI-838-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$						4.0	Z
	400 area re-circulation	<sup>1</sup> PDI-839-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$						0.32	, 52
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	~					6.0	1/5
	157 (000-3-11)	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$						6.0	94,
	South Bleed off filter	'PDI-810-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		\natherefore				2.0	ķi.
4.1.3.4	plenum (FF-822A) AP	PDI-810-2	<20.0 & > 01 in. wc						0.5	25'
		PDI-810-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$						0.5	25,
	South Bleed off filter	¹PDI -811 - 1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						OFF	OFF
4.1.3.4	plenum	PDI -811 -2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc			C			J 30	OFF
	15 (4770-11)	PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$						OFF	OFF
			Completion Time				7		0530	OSIS
00	OC Operator Review and Page Count Complete	age Count Compl	lete (initials)				>/		6.2	1900

<sup>1</sup>Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Date 61-13 Time 0813 Reviewed by: Brat Charles Completed by:

800 system das Comments Flammable

Date: 6-3-13 Time: 0917

# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1). The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage

					8				
		Date:	6/3/13	6-4-13	6-5-13	6-5-13 6-6-13 6/2/13	6/1/13	6-8-13	6-9-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	an	74	Hee	10	gw	27	74
	Description / Gauge	Acceptance Criteria	1	92	SURVEILLAN	SURVEILLANCE RESULTS (percentage)	(percentage)		
	Flammable Gas Channel								
SR	DET-305-3 (LCD Reading)	N	000	000	(500)	(500)	600	600	(005)
	CP-305-H /I ED				)				)
4.4.1.1	Reading)		(500)	Ges	(500)	(200)	600	(800)	(500)
	(DET-305-3) – (CP-305H)	Record Calculated Value	809	500	(500)	(500)	000	600	100
	(LCD Reading) (LED Reading)	> <b>-0.1</b> ;	Sat / Chasat.	1 02	Sat / Unsat.	të:	Sat. Ilmsat.	Sat. / Unsat. Sat. / Unsat.	Sat /Unsat.
		Completion Time:	r i	0830	0843	0	HICO	0751	0754

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 2 of 4)					
			Date:	6/3/13	6-4-13	6-2-13	6-6-13	6/1/13	£1-8-9	6.9-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	J.W.	79	Bee	74	\$	74	25
SRs	Description	Gauge	Acceptance Criteria	•		SURVI	SURVEILLANCE RESULTS (in. wc)	SOLTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	<2.0 &> 0 in. wc	90:	101	20-	70.	<i>.</i> 0.	10.	7 4.
	(HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,50	15,	15.	15'	05.	04.	
	South Corridor	1-895-I	$\leq 2.0 \& > 0^4 \text{ in. wc}$	80,	80.	60.	60,	80.	60.	
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	i.a.	1.1	1.1	1.1	607	1.09	1.1
		<sup>1</sup> PDI-817-1	≤2.0 & > 0¹ in. wc	27.8 /	5 7 8 4	57.84	5 734	STBy	5 - 8 4	STRV
4.1.3.4	300 area glovebox	PDI-817-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	5781	57.137	5781	STBY	V878	STRV
	cxhaust niter plenum (FF854) AP	PDI-817-4	≤2.0 & > 0¹ in. wc	STBV	1878	51.87	5787	STBY	5784	STBY
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5787	5 TB y	2787	5184	STBY	5784	STRY
,	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBV	SrBY	57.34	5781	STB Y	\$7.84	5 T.BV
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	≤2.0 & > 0¹ in. wc	3737	57.87	राक्ष	578%	STBY	STBV	STRU
	(FF858) AP	PDI-819-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	4914	5181	2734	5 T RU	STRY
		<sup>1</sup> PDI-818-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	42.	. 24	7 E.	.24	.24	124	. 24
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	,30	.30	,30	.30	3.0	.30
	exhaust filter plenum (FF855) AP	PDI-818-4	$\leq 2.0 \text{ &> } 0^1 \text{ in. wc}$	38	.31	. 31	18.	.3(	.31	, N
		PDI-818-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	72'	.28	.23	28	<i>C</i> 2.	200	. 28
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.39	.39	, 39	140	04.	.39	. 39
4.1.3.4	exhaust filter	PDI-821-3	<2.0 & > 01 in wc	.42	٠ ۲ ۶	<i>.</i>	745	42	, 45	.45
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1$ in. wc	.39	. 39	96 .	5 2.	39	45.	.39

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)
(Page 3 of 4)

				(Fage	(I age 3 01 4)					
			Date:	6/3/13	6-4-13	6-5-13	6-6-13	6/2/13	6-8-13	6-9-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	an	74	Bec	A	-W	7¢	74
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-822-1	$\leq 2.0 & > 0^1 \text{ in. wc}$	STBV	5 T.B. 4	57.0-7	5r B4	57737	STBY	57.84
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \text{ & > 0}^1 \text{ in. wc}$	87.84	5789	51151	57.84	STBV	STBV	STBY
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	57.81	5 TBV	57.18-1	57.84	STBY	5781	5787
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	, STBY	37.34	STBV	STBY	5787	Srav
		<sup>1</sup> PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.82	. 29	-86	,86	.87	28.	, 89
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	hh.	54.	.45	16,	44	145	2,
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	64"	8 7.	87.	64.	64,	56.	64.
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,50	051	.50	, 50	,50	051	.50
	South Basement exhaust	¹PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	42,	,23	1.24	.24	,24	124	. 24
4.1.3.4	filter plenum	PDI-830-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.10	611	.20	414	.20	610	. 19
		PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.12	۲۱.	.(2)	. 12	77,	.12	412
	300 area re-circulation	<sup>1</sup> PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	68	.93	.93	. 95	.92	, 93	. 92
	filter plenum	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	53	. 58	85.	, 58	.58	.59	, 58
4.1.1.7	15 (COO 3.11)	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.51	.57	<u>ځ</u> .	. 52	.53	, 52	. 5 %
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	19"	ئ ھ	٠ يج	85.	.37	.37	. 37
	filter plenum	PDI-837-2	<2.0 & > 01 in. wc	.50	, 3, 5,	. 36	,35	,36	, 36	38.
		PDI-837-3	$\leq 2.0 & > 0^1 \text{ in. wc}$	94.	.31	18,	~ ~	.31	.31	131

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

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				202	(100000					
			Date:	6/3/13	6.4.13	6-5413	6-6-13	6/2/13	6.8.13	6-9-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	4	PF	gee	7.4	Ow	7 &	
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	'PDI-838-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	.3.1	18.	18.	.3)	131	18.
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	04.	05,	05.	03.	04.	( 1/1 )	17,
4.1.1.7		PDI-838-3	$\leq 2.0 \& > 0^1 \text{ in, wc}$	,39	.38	, 38	.39	.39	. 29	.39
	400 area re-circulation	<sup>1</sup> PD <b>I</b> -839-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	15.	, 3/	,3/	.30	.30	18,
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	lh.	44.	th:	243	117	2 /1.	.42
	TV (000-1411)	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ly.	- 42	.42	.72	.42	26,	42
	South Bleed off filter	'PDI-810-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	61.	67.7	6).	19	.19	61.	119
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 & > 0^1 \text{ in. wc}$	.s.	. 51	75,	,53	.57	152	.52
		PDI-810-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15.	19.	151	15.	15.	151	151
	South Bleed off filter	<sup>1</sup> PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	££0	240	110	OFF	OF #	OFF	OFF
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	930	OFF	770	6 A F	<b>स</b> र	OFF	OFF
	(FF-024B) M	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	#	OFF	Ofx	OFF	0.55	OFF	OFF
			. Completion Time	0830	0826	0819	0922	5400	0746	6740
20	OC Operator Review and Page Count Complete (initials)	age Count Comp		B zc.	Re In	Con KB	1	The sale	Brok	18 BC
Non TSR requirement:	sment:				A	€ V			1)	

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 asstated in LCO 3.1.3.

Completed by: Land Landle Date 6 9 + 3 Time 0749 Reviewed by: D.

Comments

Date: 6-10-BTime: 9716

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

			-						
		Date:	6.10-13	6-11-13	6/11/13	6.12:13	8//4//9	6-15-13	6-16-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
		Initials:	1	M	MP	75	The	4	7 4
- 22.22	Description / Gauge	Acceptance Criteria	1		SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)		
SR	Flammable Gas Channel Check DET-305-3 (LCD Reading)	7	(a)				(	(	
	G 200 11 11 300 a0	2010		A-00	(40)	500	600	608	(005)
4.4.1.1	Cr-303-H (LED Reading)		9	(200)	600	500	600	( S S S S S S S S S S S S S S S S S S S	000
	(DET-305-3) – (CP-305H)	Record Calculated Value		(500)	200	600	(20%)	800	(500)
	(LCD Reading) (LED Reading)	≥ <b>-</b> 0.1; ≤+0.1	Sat. / Unsat.	Sat / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat./Unsat. Sat./Unsat.	Sat / Unsat.	Sat. / Unsat.
		Completion Time:	bilo	6110	080	G	coro	000	110

				)						
TA55-STI	TA55-STP-004, R15.1		Surve	Surveillance Rounds	spur	:			Page 27 of 38	of 38
		ATTACHM	HMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)	aily Surv (Page	Surveillance 1 (Page 2 of 4)	Rounds (	PF-4 Sou	th Side)		
			Date:	9	6-11-13	6/11/3	1-13-13	6/1/13	6-15-13	1-16-13
			Weekday:	Mon.	Tue.	Wed.	1		Sat.	
			Initials:	ww	MY	Jan Jan	74	Ch.	79	70
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	ESULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	10.	70.	60.	. 07	59.	70.	70,
	(HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	.50	.50	.50	.50	87.	8/1.
	South Corridor supply (HVP-	<sup>1</sup> PD <b>1-</b> 895-1	$\leq 2.0 \ \& > 0^4 \ in. \ wc$	01.	01.	ol.	011	, 16	011	11 '
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 & > 0^1 \text{ in. wc}$	D.1	1.1	1.1	1,1	1.09	1,0	0.7
		<sup>1</sup> PDI-817-1	<2.0 & > 0 in. wc	STEY	. 28	.29	, 28	67.	77	22,
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	1.6.	15,	.3/	12	.3/	1 25 0
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	516/	.5)	.31	131	3/	. 3/	.31
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ST&Y	30	.30	-30	.30	130	. 20
	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	0h-	ih	16.	74.	14.	17.
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	٠٠٠	14.	.47	.47	74,	, 41
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	.34	.35	,33	.36	38.	25.
		<sup>1</sup> PDI-818-1	$\leq 2.0 \text{ & > 0}^{-1} \text{ in. wc}$	H2.	STBY	57.84	Srav	STIBY	STBY	STRV
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	15;	STBY	STBY	57.84	STBY	\$789	STBY
	exhaust filter plenum (FF855) AP	PDI-818-4	\$2.0 & > 01 in. wc	.31	STBY	\$7.87	5784	STBV	STBY	5 7 13 4
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	82.	STEN	STBY	57.84	57134	57.64	STRY
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	۴٤.	518	STBY	5784	STOV	5784	8784
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 45	5167	STBY	5784	STBY	5781	5.7.87
	(FF859) AP	PDI-821-4	<2.0 & > 01 in. wc	92.	STBY	\$7.0%	STBY	YOYS	5184	5784

Surveillance Rounds TA55-STP-004, R15.1

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

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				(Page	(Page 3 of 4)					
			Date:	6-10-13	6-11-13	6/12/13	6-13-13	6/14/13	6-15-13	6-16-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	~~w~	mv	am	PT	J	79	7 0
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SSULTS		
		<sup>1</sup> PDI-822-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	5167	.71	10.	. 72	Ø.	44.	. 72
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	(5)	15.	18,	15.	18.	.51
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	57.64	íh.	£h.	.42	ch."	47.	, 42
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in, wc}$	518	.50	05'	64'	6h°	.50	. 50
		<sup>1</sup> PD <b>I-8</b> 23-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	68.	STBY	87.67	5 70 %	4878	5784	STBV
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Sh.	57.67	\$787	5734	27.34	STBV	57.84
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	91.	ST&Y	878	STBY	87.07	STBY	5784
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<b>ος</b> .	डाक्र	STBY	5784	37.84	STRV	\$ 1.8 %
	South Basement exhaust	<sup>1</sup> PDI-830-1	≤2.0 & > 0 <sup>1</sup> in. wc	न्त्र.	)42°	72.	,24	42.	77.	. 24
4.1.3.4	filter plenum	PDI-830-2	≤2.0 & > 0¹ in. wc	61.	.13	14	. /3	41.	nı '	ħ,
		PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.11	41		(1)	111	177	, 1,
	300 area re-circulation	1-928-IQ4 <sub>1</sub>	<2.0 & > 0 in. wc	.43	35.	.94	. 95	.94	561	hb.
	filter plenum	PDI-836-2	<2.0 & > 01 in. wc	.58	38	85°	. 59	.58	, 58	, 58
4.1.1.7	15 (COO 111)	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	55.	98.	358	. 58	,56	. 59	, 58
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.37	.38	36	85,	رن م	. 38	. 38
	filter plenum	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.37	.36	.35	. 35	.34	,3 y	75.
	157 (000-1411)	PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	.31	.3)	.31	.31	.3/	18.	. 3
							-			

Surveillance Rounds

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### ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				Age 1)	(I age + 01 +)					
			Date:	6 10-13	€-11-13	t/n/i3	6-13-13	6/14/13	6-15-13	6-16-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	ww	7. 4	J.M.	7	(A)	7 4	+ 4
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	i-888-IQd,	$\leq 2.0 & > 0^1 \text{ in. wc}$	.31	.31	12.	.31	.3.	13.	,31
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.31	<del>1</del> .	1.17	14.	74.	677	ŀ
4.1.1.7	15 ( 100-1111 )	PDI-838-3	<2.0 & > 0 in. wc	.38	<u>ئ</u>	.39	.39	95.	PT-39 WE	
	400 area re-circulation	<sup>1</sup> PDI-839-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	.30	.31	16.	,3		1
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	2 h	7h.	7.7	74.	745	. 42	142
	M (000-1711)	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	24	2h.	747	. 112	74.	77.	. 42
	South Bleed off filter	1-018-IOd <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	8).	0,16	ci.	71.	CI.	71.	. 17
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc	15.	6h:	bh°	, 50	<i>6</i> 5,	. 50	15,
		PDI-810-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.51	. મુછ	6.5	64,	64.	6h ·	05.
	South Bleed off filter	¹PDI -811 - 1	$\leq 2.0 & > 0^1 \text{ in. wc}$	00	OFF	0,95	OFF	off	740	OFF
4.1.3.4	plenum	PDI -811 -2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	90年	OPF	John	0 7.7	<b>350</b>	OFF	ار از ق از از ق
	15 (4770-11)	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	<b>340</b>	200	\$50	OFF	oft	OFF	のテド
			Completion Time	1510	0750	0815	#80	MACO	0 8 12	0730
OC	OC Operator Review and Page Count Complete (initials)	age Count Comp	lete (initials)	D'SC	R.	~	138	00	A.0	1 3

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3 X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Completed by: four Trunil Date de 13 Time or so Reviewed by: Barth Elica

Comments

Date: 6-17-13Time: 1423

# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Data	177			, ,,			, ,
2		Date	6/11/13	6/18/13	6-19-13 6/20/13	6/20113	5/1/2/0	6/22/13	6/23/13
		Weekday:	Mon.	Tue.	Wed.	. Thu.	Fri.	Sat.	Sun.
		Initials:	Jan Jan	250	7.A	Z	2 da	(M)	try !
	Description / Gauge	Acceptance Criteria		<i>S</i> 2	URVEILLAN	SURVEILLANCE RESULTS (percentage)	(percentage)		
ž	Flammable Gas Channel Check					0.0	0		Ó
}	DET-305-3 (LCD Reading)	Y X	100 JX	605	(००८)	100	5	0.0	8
4.4.1.1	CP-305-H (LED Reading)		603	300	500	0.0 m	0.0	0:0	න හ
	(DET-305-3) – (CP-305H)	Record Calculated Value	003	(500	(500)	0.0 Min	0.0	0.0	8.0
	(LCD Reading) (LED Reading)	> <b>-0.1</b> ; <-+0.1	Sat. / Unsat.	Sat / Linsat.	Sat. / Unsat.	(Sar. Uhsal.)	Sat Unsat.	Sat / Unsat.	Sat. / Unsat.
		Completion Time:	08/7	0826	0 8/1	1080	0803	1080	946

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

				(I ago	(rage 2 01 4)					
			Date:	ellalla	C118/13	19-19-13	6/20/13	5/11/13	8/22/13	6/23/13
			Weekday:	Mon.	Tue.	Wed	Thu.	Fri.	Sat.	Sun.
			Initials:	O.M	AL	27	79	He.	M	13/2
SRs	Description	Gauge	Acceptance Criteria	,		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 \text{ & > 0}^{1} \text{ in. wc}$	90.	9	,00	70.	30.	70.	±0.
	supply filter plenum (HVP-841) AP	PDI-894-2	≤2.0 & > 0¹ in. wc	87	&h.	85,	84.	64.	5.	生
	South Corridor	<sup>1</sup> PDI-895-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	oJ.	07.	ω).	// -	".	. 11	=
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in wc}$	0.1	0.7	0.7	0.,	0.7	2.7	1.8
		<sup>1</sup> PDI-817-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	28	.27	50	. 7.8	.29	28	800
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	3	98,	.3/	18,	.32	71.	45
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.32	7.31	.31	× *	.31	.32	13/
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.34	70	30	,30	38.	30	R
	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	16.	ah.	. 40	04.	04.	04	QH.
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	14: 75-41	04.	141	14.	٥٨٠	141	Øh.
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.36	. 32	33	.33	.32	35	35
		<sup>1</sup> PDI-818-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	5187	STRY	STRV	57.84	<b>.</b>	Stay
4.1.3.4	300 area glovebox	PDI-818-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	\$7.0%	5787	57.34	57.84	5184		A K
	exhaust filter plenum (FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.84	5797	57.00	STRY	est thy		手
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	1272	STRV	3761	3104		\A.S.
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5784	57.57	5784	STB Y	ST 18-7		\ \frac{1}{4}
4.1.3.4	exhaust filter	PDI-821-3	≤2.0 & > 0 <sup>1</sup> in. wc		25 to 1	3+84	5 T B Y	57.03		Stev
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1$ in. wc		18te	STRV	STBY	4184	57-134	35

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

				Agn I)	(+ 10 C 29n +)					
			Date:	6/17/3	C[181]3	1-19-13	6/20/13	6/21/13	6/22/3	6/13/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat	Sun.
			Initials:	Jan	25%	PT	T G	Ha	Z	And of
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.72	87.	69.	, 68	.70	01:	35,
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1$ in. wc	15.	.50	.51	,50	05.	15	15.
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	14.	٠٧٤	. 42	٠ ٧٤	י תג	1h:	F.
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	64.	. 49	64.	64.	05.	64,	91
		¹PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5787	s TBV	8704	5787	STBY	矛
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STIBY	1414	5784	5 18 4	4015	5734	Kats.
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ST BY	2104	STBY	5-78 4	STBY	5731	¥.
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	518	STRY	STRY	STBY	57.87	× × × × × × × × × × × × × × × × × × ×
	South Basement exhaust	¹PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,24	.24	,24	, 2 4,	.25	,23	(J.)
4.1.3.4	filter plenum	PDI-830-2	$\leq 2.0 \& > 0^4 \text{ in. wc}$		.15	1,43	. 13	٠١٤	, 14	4
	15 (77-11)	PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	51.	)1.		11	)).	.12	Ġ
	300 area re-circulation	<sup>1</sup> PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	46.	42	. 93	.93	.93	.93	95
	filter plenum	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.58	.58	. 58	.58	. 58	5	, 57
4.1.1.7	TT (COO 1411)	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	95	٠ ۍ کړ	٠, ٢٠	. 55	. 55	.55	.55
	300 area re-circulation	¹PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	00	44.	148	148	.47	24.	九十
	filter plenum	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.34	٠,٢٥	, بر 1	141	. رره	14,	Ŧ.
		PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	.31	.34	. 39	, 39	62'	96.	£.

Surveillance Rounds TA55-STP-004, R15.1

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

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					,			The second secon		-
			Date:	6/15/13	41181B	4-19-13	5/10/13	4/21/18	6/22/13	6/23/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	m	Bec	PT	La	32.60	dr.	13
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
- 1890	400 area re-circulation	1-888-IQd <sub>1</sub>	$< 2.0 & > 0^1 \text{ in. wc}$	.31	.3(	1,5	2	18'	(6)	10
	filter plenum	PDI-838-2	$\leq 2.0 & > 0$ in. wc	74.	ית(	(4)	Ę	Ιħ·	14.	Ī
4.1.1.7	M ( 11 V F - 00 / ) AL	PDI-838-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.39	۵۶.	92,	3.39	. 39	.39	86
	400 area re-circulation	1-628-IOd1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	30	131	.31	. 31	16.	18,
	filter plenum	PDI-839-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Ly.	ኛ አ	74.	, 42	۲۸٠	zh.	T.
	187 (000-1411)	PDI-839-3	$\leq 2.0 \ \& > 0^1 \ \text{in. wc}$	. 42	£h.	74,	. 42	.42	24.	£
	South Bleed off filter	1 <b>-</b> 01 <b>8-I</b> 041	$\leq 2.0 & > 0^4 \text{ in. wc}$	81.	217	217	1.	11.	7/.	Z,
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc	.50	1.56	,50	.50	. 50	65.	200
		PDI-810-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.50	25	, 50	.50	64.	677	6H
	South Bleed off filter	¹PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Sign off	ofk	OFF	OFF	046	1.	と
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ofs	770	OFF	075	740	4	Ht.
	AE (4270-11)	PDI -811 -3	$\leq 2.0 \& > 0^4 \text{ in. wc}$	OFF.	140	OR	OFF	270		ST.
			Completion Time	0850	1480	0824	7180	2180	5	0134
00	OC Operator Review and Page Count Complete (initials)	age Count Comp	lete (initials)	8	8		4	OB 16	04° 240	7 Sep. 1990

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3

Reviewed by: Dorg Completed by: Michael Land Date Ole Orle Time 6735

Comments \_

Date 6-24-19 Time: 0702

Oh-duty Supervisor

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:
The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:	6/24/13	6-25-13	6/20/13	6-25-13 4/20/13 6-27-13 6-38-13 6-29-13 1.30-13	6-28-13	6-29-13	4.36.73
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	de	A. C.	TA	74	24	7¢	74
	Description / Gauge	Acceptance Criteria	1	92	SURVEILLAN	SURVEILLANCE RESULTS (percentage)	(percentage)		
	Flammable Gas Channel Check								
SR	DET-305-3 (LCD Reading)	NA AN	0.0	0,0	0.0	0:0	0.0	0.0	0,0
4.4.1.1	CP-305-H (LED Reading)		9		0.0	C	0.0	(	6
	(DET-305-3) – (CP-305H)	Record Calculated Value	0.0	0.0	o o		6.0	0.0	0.0
	(LCD Reading) (LED Reading)	> -0.1; <+0.1	Sal / Unsat.	Sal / Unsat. (Sat) / Unsat. (Sat) / Unsat	Sat)/Unsat	ısat.	Sat/Unsat. Sat/Unsat. Sat.) Unsat.	Sat / Unsat.	Sat.) Unsat.
		Completion Time: 0815	5180	1180	0/00	0833	9080	2080	0758

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

	E 6			(Page	(Page 2 of 4)	,				
			Date:	6/14/13	4/25/13	4/2413	62743	428/13	6-29-13	6-30-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.		Sun.
			Initials:	(hr	E	Th	F G	356	70	7.6
SRs	Description	Gauge	Acceptance Criteria	_		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	<2.0 & > 0 in. wc	90.	10.	80.	00,	20.	80,	000
	(HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	CH.	. 48	64.	bh ·	.50	54.	67.
9	South Corridor supply (HVP-	1-895-I	$\leq 2.0 \& > 0^{4} \text{ in. wc}$	""	),.	//-	11.	0).	11.	
4.1.3.4	810) AP	PDI-895-2	$\leq$ 2.0 & > 0 <sup>t</sup> in. wc	1.0	7.0	97	.92	76.	.92	. 42
		<sup>1</sup> PDI-817-1	$\leq 2.0 \ \& > 0^1 \ in. \ wc$	29	62.	52'	57.84	4184	5780	STRV
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.3/	.31	.3	STRV	27.04	STRV	27.87
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	32	7.31	.3/	5187	5167	57.8 %	STRY
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Æ.	.30	.30	5787	787	5.78%	STRV
	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 41	一,	H	5787	YOY.	STBY	787
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	04.	.+.	141	STBY	57.84	1872	5 7.87
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	35,	.34	734	8784	57.MY	5784	57.8 %
		¹PDI-818-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.84	5.45y	SIBN	7.24	.45	. 24	. 24
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	87.134	54by	573cm	30	.30	020	. 30
	exhaust filter plenum (FF855) AP	PDI-818-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	57.37			77 322 25	.32	.3)	īn.
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5781		Story	. 31	.28	2,00	2.00
,	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		546 of	Spr	345	.99	. 39	05.
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			Stow	. 42	۲۵:	.42	. 42
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1$ in. wc	57.87	Stor	/h9t>	,39	.39	39	. 39

TA55-ST	TA55-STP-004, R15.1		Surve	Surveillance Rounds	spui				Page 28 of 38	of 38
		ATTAC	ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)	Daily Surv	eillance	Rounds (1	F-4 Sout	th Side)		
				(Fage	(rage 5 or 4)	10				
			Date:	6/14/13	6/25/13	6/25/13	6-27-13	428/13	6-29-13	6-20-12
			Weekday:	Mon.	Tue.	physoli	3 Thu.	Fri.		Sun.
		11 m	Initials:	Pm-	RH.	đ	79	Hoe	pt	75
SRs	Description	Gauge	Acceptance Criteria	1		SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS		
		<sup>1</sup> PDI-822-1	$<2.0 &> 0^{4} \text{ in. wc}$	83.	63.	69.	STRY	1818	57.87	STBV
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	15:	.51	.5(	5781/	707	ST BY	STBY
	exhaust filter pienum (FF856) AP	PDI-822-4	≤2.0 & > 0 <sup>1</sup> in we	.42	. 42	.42	5 7.04	57.34	STBY	ST.8 %
		PDI-822-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	646	.50	. 50	5 +134	2004	STRY	STBY
		<sup>1</sup> PDI-823-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STREY	SHOW	Star	,89	78.	189	. 89
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		Stby	5464	. 45	5h.	1 45	. 45
	(FF857) AP	PDI-823-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	57.8%	Stby	Stby	. 49	gh.	. 49	64.
		PDI-823—5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	57.84	SIBLY	4 by	, 50	. 50	.50	. 50
	South Basement exhaust	<sup>1</sup> PDI-830-1	$\leq 2.0 \& > 0^{3} \text{ in. wc}$	.23	₩Z .	42.V	.24	.25	724	. 23
4.1.3.4	filter plenum	PDI-830-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	9/.	.16	21.	hi	91.	, 75	51,
	15 (750-11)	PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	17	111.		11.	)).	111	111
	300 area recirculation	<sup>1</sup> PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.92	.92	.92	. 93	76.	: 93	. 93
	filter plenum	PDI-836-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc.	.56	. 58	. 58	- 58	86.	, 59	00 V1
4.1.1.7	(600 ****)	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	54	. 55	.55	, 55	.55	.55	. 55
	300 area re-circulation	¹PDI-837-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	84.	. 48	.48	. 48	. 49	646	.49
	filter plenum	PDI-837-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	14.	14.	14.	14:	03.	, 4 <i>j</i>	14.
		PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	.39	. 39	.39	39	05.	.39	.39
			62		**************************************					

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

	700000000000000000000000000000000000000	S. Carlo		(I age	1 age + 01 +)				Company of the company of	
			Date:	6/24/13	6/24/13 6/25/13	d24/3	6-27-13	6/38/13	b 29-13	4-30-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	1,1	PSH.	78	44	year	74	76
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	'PDI-838-1	$\leq 2.0 & > 0^1 \text{ in. wc}$	.31	.3/	18.	131	. 31	131	.3/
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	<i>z</i> h:	14.	77	26:	7h.	1777	. 42
4.1.1.7	187 (100-1411)	PDI-838-3	$\leq 2.0 \& > 0^4 \text{ in. wc}$	.39	. 39	30	523	. 39	3.5	39
- 2370	400 area re-circulation	1-683-IOd <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	18:	.30	.30	.30	• 31	· ·	.3/
- 10	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	42	74.	.42	. 42	.42	7 h.	. 42
	15 (000-1-11)	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	it.	2h.	745	. 42	.42	747	. 42
	South Bleed off filter	1-018-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<i>L!</i> ·	87.0	LI.	91.	3).	21.	./7
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc	.50	150	. 50	, 50	0 <b>L</b>	, 50	05.
		PDI-810-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	64.	. 50	95.	64,	٠49	660	64.
	South Bleed off filter	<sup>1</sup> PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	0.65	oft	oft	OFK	014	OFF	OFF
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	\$50	200	( Die	OFF	240	OFF	OFF
	( FF-022B) AF	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	मु	270	Sto	BFF	ort	OFF	OFF
	24		Completion Time	0840	2845	6880	£480	,0831	0757	0738
00	OC Operator Review and Page Count Complete	age Count Comp	lete (initials)	Ca A	1 88	St. Otto	800	M K6	4	Ca 4
				1	1.1/		1111			-

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Reviewed by: May Supervisor Completed by: Part Truit Date 6 30.13 Time 0738

Comments

Date: 13-19 Time: 1041

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 1 of 4)

				(Page	(Page 1 of 4)					
			Date:						6-1-13	6/2/9
			Weekday:	Mon.	Tue.	Wed.	Thu.	Ŧ.	Sat.	Sun.
			Initials:	58					ર્	Dr
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS	22	3
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$						81.0	. 16
	filter plenum (HVP-811) AP	PDI-840-2	$\leq 2.0 \& > 0 \text{ in}^{1} \text{ wc}$						0.5	757
		PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$						0.5	15
4.1.1.7	Vault re-circulation	¹PDI-841-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STOY
	filter plenum (HVP_812) AP	PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc	3					s7BY	rais
		PDI-841-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBV
	200 area re-circulation	<sup>1</sup> PDI-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$						0.32	.32
	filter plenum	PDI-831-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						6.0	141
		PDI-831-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc			1			h.0	,35
	200 area re-circulation	¹PDI-832-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						42.0	.24
	filter plenum	PDI-832-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc			5			5.0	.51
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$						6.5	64.
•		<sup>1</sup> PDI-807-1	<2.0 & > 01 in. wc				1		0.70	11.
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		_				0.8	.80
	(FF-820A) $\Delta P$	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$						6.5	.50
,	North Blood off filter	1-608-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$						OFF	540
4.1.3.4	plenum (FF-820B) AP	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$						OFF	054
	2	PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$						OFF	350

ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 2 of 4) TA55-STP-004, R15.1

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				(Page	(Page 2 of 4)					
			Date:		890				6-1-13	6/2/3
			Weekday:	Mon.	Tue.	Wed	Thu.	Fri,	Sat.	Sun.
			Initials:						4	/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	G I	¹-629-1	$\leq 2.0 \& > 0^1 \text{ in wc}$						6.2	1.
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 &> 0^{1} \text{ in wc}$						2.0	Cr.
		PDI-829-3	≤2.0 & > 0¹ in wc						0.3	3,4
-	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$						26.0	.92
	filter plenum	PDI-833-2	≤2.0 & > 0¹ in. wc						0.8	60,
4.1.1.7		PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$						0.5	Sh.
	100 area re-circulation	<sup>1</sup> PDI-835-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc						6.14	13
	filter plenum	PDI-835-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$			4			0.5	45
	(100-111)	PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			1			5.0	04.
		<sup>1</sup> PDI-815-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$						2.0	61.
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$			5			6.5	lh.
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$				,		b.0	38
	22.	PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$						b.0	oh.
		<sup>1</sup> PDI-816-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$				/		Y872	57 BV
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$						57.87	STB 4
	exhaust fifter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc.}$						STBY	STBY
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$					¥!	STBY	STBL

																Γ	Г	П		Γ
of 38		6/1/13	Sun	Art		87.8 1	SYBY	STBY	STBY	STBY	G	29	97.	.30	21	40.	.35	15	500	
Page 32 of 38		6-1-13	Sat.	4		STBY	STBY	STRY	STRY	STBY	۵۲.0	6.3	6.3	0.2	6.3	1.0	6.3	2.0	0.1	
	th Side)		Fri.		SULTS											=				
	F-4 Nort		Thu.		SURVEILLANCE RESULTS (in. wc)															
	Rounds (F		Wed.		SURVE											1		Ö		
spu	Surveillance F (Page 3 of 4)		Tue.										7	<b>X</b> //						
Surveillance Rounds	aily Surv (Page		Mon.																	
Surve	MENT B	Date:	Weekday:	Initials:	Acceptance Criteria	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<2.0 & > 0 in. wc	≤2.0 & > 01 in. wc	<2.0 & > 0 in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<2.0 & >01 in. wc
	ATTACH				Gauge	<sup>1</sup> PDI-812-1	PDI-812-2	PDI-812-3	PDI-812-4	PDI-812-5	<sup>1</sup> PDI-813-1	PDI-813-2	PDI-813-3	PDI-813-4	PDI-813-5	'PDI-865-1	PDI-865-2	PDI-865-3	¹PDI-863-1	PDI-863-2
-004, R15.1	8		161		Description	200 area glovebox	exhaust filter plenum (FF850) ΔP				200 area glovebox	exhaust filter plenum (FF851) $\Delta$ P				IFIT exhaust	(FF-865) AP		IFIT supply filter plenum	(HVP-863) AP
TA55-STP-004, R15.1		·	<b>70</b>		SRs		7 1 3 7	*:C11:				70	4.1.3.4				4.1.3.4			4.1.3.4

2 Sun. 0826 SA 20 8 2 Page 33 of 38 6.1.13 Z 0.0 03.20 しせい ۲.0 SAT 0. Sat. ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) Ē SURVEILLANCE RESULTS 8120 Thu. Date: 6-3-75 Time: Wed. (Page 4 of 4) Tue. Surveillance Rounds Mon. Reviewed by: Olders designated exclusion area 0 lb/ft2 combustibles in rooms, whichever is less Weekday: Initials: (within 15 feet of fans) OC Operator Review and Page Count Complete (initials) between gloveboxes, or Completion time  $\leq 2.0 \& > 0^1 \text{ in. wc}$ ≤2.0 & > 01 in. wc ≤2.0 & > 01 in. wc perpendicular from the face of the PMMA, the up to the walls of the Acceptance Criteria 0 lb/ft2 combustibles width of the aisles within 3.5 feet  $\leq 2.0 \text{ &> } 0^1 \text{ in}.$ Date 6/2/13 Time 0826 Note: SR 4.1.3.4 applies during mode 1 and mode 2. PDI-857-1 PDI-857-2 Gauge PDI-856-1 PDI-856-2 Combustible exclusion area FE820B, FE820C, FE822A, around basement exhaust North Basement supply Rooms 201, 204, 206, & fans FE828, FE829 and bleed-off fans FE820A, North corridor supply FE822B, FE822C (HVP-840) △P (HVP-809) AP filter plenum filter plenum Description TA55-STP-004, R15.1 Non TSR requirement Completed by: 🚄 Comments: 4.1.3.4 4.3.2.2 4.1.3.4 SRS YN,

SRs Description  Vault re-circulation filter plenum (HVP-811) ΔP  filter plenum (HVP-812) ΔP  200 area re-circulation filter plenum (HVP-801) ΔP  (HVP-801) ΔP  (HVP-801) ΔP  (HVP-801) ΔP	ALTACE			0000					
Vault re-circulation filter plenum (HVP-811) ΔP filter plenum (HVP-812) ΔP filter plenum (HVP-801) ΔP filter plenum (HVP-801) ΔP filter plenum (HVP-802) ΔP		(Page 1 of 4)	aily Surv (Page	Page 1 of 4)	Rounds (1	F-4 Nor	th Side)	į	
Vault re-circulation filter plenum (HVP-811) ΔP filter plenum (HVP-812) ΔP filter plenum (HVP-801) ΔP filter plenum (HVP-801) ΔP filter plenum (HVP-801) ΔP filter plenum (HVP-802) ΔP		Date:	6/3/13	6-4-13	4/5/13	6-6-13	6/2/13	6-8-13	6-9-13
Vault re-circulation filter plenum (HVP-811) ΔP [HVP-812) ΔP [HVP-801) ΔP [HVP-801) ΔP [HVP-801) ΔP [HVP-801) ΔP [HVP-802) ΔP [HVP-802) ΔP [HVP-802) ΔP [HVP-802) ΔP		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Vault re-circulation filter plenum (HVP-811) ΔP  Vault re-circulation filter plenum (HVP-812) ΔP  200 area re-circulation filter plenum (HVP-801) ΔP  (HVP-801) ΔP  (HVP-801) ΔP  (HVP-802) ΔP		Initials:	an	27	古	7 ¢	gr	74	e-
Vault re-circulation filter plenum (HVP-811) $\Delta P$ Vault re-circulation filter plenum (HVP-812) $\Delta P$ 200 area re-circulation filter plenum (HVP-801) $\Delta P$ (HVP-801) $\Delta P$ Worth Place of filter	Gauge	Acceptance Criteria	,		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
HVP-811) ΔP  Vault re-circulation filter plenum (HVP-812) ΔP  100 area re-circulation filter plenum (HVP-801) ΔP  100 area re-circulation filter plenum (HVP-802) ΔP	¹PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	51.	51.	77.	9/8	91.	9/	. 15
Vault re-circulation filter plenum (HVP-812) $\Delta P$ 200 area re-circulation filter plenum (HVP-801) $\Delta P$ 200 area re-circulation filter plenum (HVP-802) $\Delta P$	PDI-840-2	≤2.0 & > 0 in¹ wc	.53	, 52	.52	,52	£8.	.52	5.2
Vault re-circulation filter plenum (HVP-812) ΔP  200 area re-circulation filter plenum (HVP-801) ΔP  200 area re-circulation filter plenum (HVP-802) ΔP	PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.51	. 51	15.	15.	15	15.	Į v
filter plenum (HVP-812) ΔP  200 area re-circulation filter plenum (HVP-801) ΔP  200 area re-circulation filter plenum (HVP-802) ΔP  North Place of filter	¹PDI-841-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	5787	2164	5734	3184	57.1211	STRU
200 area re-circulation filter plenum (HVP-801) ΔP  200 area re-circulation filter plenum (HVP-802) ΔP	PDI-841-2	≤2.0 &c > 0¹ in. wc	57.87	s ray	3454	çrBy	8184	STAV	4.780
200 area re-circulation filter plenum (HVP-801) ΔP  200 area re-circulation filter plenum (HVP-802) ΔP	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	XBTS	ST 84	Stoy	5784	YOYS	1815	5 727
filter plenum (HVP-801) ΔP  200 area re-circulation filter plenum (HVP-802) ΔP	¹PDI-831-1	<2.0 & > 01 in. wc	.32	.33	.32.	.32	.33	557	. 33
200 area re-circulation filter plenum (HVP-802) $\Delta P$	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	14.		04.	1 7.	141	16.	177.
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	. 3.5 5.	.35	.75	.36	, 7 (	, 36
filter plenum (HVP-802) ΔP	<sup>1</sup> PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	23	. 24	.z.k	, 24	hz.	24	17.71
Total Annual Ann	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15.	, 5 /	.51	, 5.	15'	15.	18,
Noveth Place	PDI-832-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	64.	647	49	54.	64.	.49	, 49
_	¹PDI-807-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	410	111	11.	1	117		
-,	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	08	/ &s ·	. 60	/ 8 1	\$0	18.	8,
√∇ (44-820A)	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	64.	05.	64.	05.	64.	64,	. 50
North Riced off Giter	<sup>1</sup> PDI-809-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	off	07.	ofic	770	g f f	OFF	677
	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	550	07.7	afte	のドド	0.F.F	OFF	OF F
-,-	PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ofs.	0 8 6	ST.	の圧だ	OFF	970	OFF

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 2 of 4)					
			Date:	6/3/13	6-4-13	46/5/13	6-6-13	8/2/13	6-8-13	21-6-9
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				7/1	D 7.	772	,	0	,	(
SD.			THITINES	5	, ,	,	1	,	14	77
ores	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	North Rosement	¹PDI-829-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	01.	1/3	117	1).	11.	// 4	
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32	.32	78.	25.4	35	22.	. 8.1
		PDI-829-3	≤2.0 & > 01 in. wc	.29	130	18.	15.	37	02.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.92	. 92	.92	.92	.92	.92	. 93
	filter plenum (HVP-803) AP	PDI-833-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	845	84.	14	. 48	84,	84 .	\$\$ \$\tau_{\text{``}}
4.1.1.7		PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	45	.45	34.	٠ ۵ ٠	Ht	7 3	'את
	100 area re-circulation	¹PDI-835-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	4.97 .13	7.78	٠/3	51.	.13	+ /3	۲.
	filter plenum (HVP-804) AP	PDI-835-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	44.	4.4	. 45	. 45	Sh	44.	nh.
		PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.40		14.1	115.	lħ'	140	("
		<sup>1</sup> PDI-815-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Pi.	. 19.	62.	61.	67.	,20	.20
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	14.	1 %;		16:	14.	115 *	1 %.
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.38	38	.38	.38	:38	,38	,39
		PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.40	0 % .	. to	0 5	,40	04.	0 7.
		¹PDI-816-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5784	5H5.y	STBY	STBY	STBV	5.7.34
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5784	545m	STBY	57.84	57.8%	5787
	exhaust fifter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc.}$	V872	STRY	2454	5 T.B.Y	\$7.87	5187	STBV
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	57.84	464	STRY	YEIZS	5784	\$ T.BY

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 3 of 4)

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				(Fage	(rage 5 01 4)					
			Date:	6/3/13	6-4-13	Le(5/13 6-4-13	6-4-13	6/2/13	6-8-13	6 9 13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri	Sat.	Sun.
			Initials:	3	25	B	7 6	3	75	Dir
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS	SULTS		
	200 area glovebox	¹PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	多方	5704	ملك	5+011	29.7
7137	exhaust filter plenum (FF850) $\Delta P$	PDI-812-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBy	5.7.84	2454	STBY	\$7.84	<7.R11	STRI
*:C:1:+		PDI-812-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBV	5 7.8%	Stly	5734	STBV	8780	C T R U
		PDI-812-4	<2.0 & > 01 in. wc	STBY	5704	Stoy	STRY	STBV	STRU	5784
		PDI-812-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STAY	35	5180	2787	S 7.8 V	S TRU
	200 area glovebox	¹PDI-813-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	19.	101.	107	14.	Ġ,	990	0 66
	exhaust filter plenum (FF851) ΔP	PDI-813-2	≤2.0 & > 0¹ in. wc	. 29	, 29	.30	.30	,29	.29	. 29
4.1.3.4		PDI-813-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.25	1,25	62.	22.0	.28	2,28	90
		PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	62'	. 29	67.	. 29	,29	.29	29
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	71	12	.22	.22	27.	22	22
	IFIT exhaust	1-598-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.03	€0'	.03	70.	3	10.	7.0
4.1.3.4	(FF-865) AP	PDI-865-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.33	.33	. 33	.35	34	. 34	. 32
		PDI-865-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	lh.	17.	[ <del>1</del> ]	. 42	â	17.	3
	IFIT supply filter plenum	¹PDI-863-1	$\leq 2.0 \text{ &> } 0^1 \text{ in. wc}$	40.	40.	. o.s	201	8	.0.5	20.
4.1.3.4	(HVP-863) AP	PDI-863-2	<2.0 & >01 in. wc	.45	. 43	. 43	.43	677	142	, 4, 1

O 172 541 'n Page 33 of 38 0807 00 00 3 Sat 54 A 17/13 ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) F 0233 SURVEILLANCE RESULTS 9×11 90. 5 Ŋ 27 Date:6-10-PTime: 172 YAY 9560 0 SAT サイ 3 Z 6/2/13 5 o C 72 TAN なな Wed. 200 Z 0818 TA SAT (Page 4 of 4) 4 Surveillance Rounds /3/13 Mon. 3 6817 Ġ SA ट्रम् इस 4 ज Reviewed by: Date: designated exclusion area (within 15 feet of fans) 0 lb/ft2 combustibles in Weekday: Initials: up to the walls of the rooms, whichever is less between gloveboxes, or Completion time OC Operator Review and Page Count Complete (initials) perpendicular from the face of the PMMA, the  $\leq 2.0 \& > 0^1 \text{ in. wc}$ \$2.0 & > 01 in. wc ≤2.0 & > 01 in. wc <2.0 & > 0 in. wc 0 lb/ft2 combustibles Acceptance Criteria width of the aisles within 3.5 feet Lygill Date 6-9-13 Time 0759 Note: SR 4.1.3.4 applies during mode 1 and mode 2. PDI-857-1 PDI-857-2 PDI-856-2 Gauge PDI-856-1 Combustible exclusion area FE820B, FE820C, FE822A, North Basement supply around basement exhaust fans FE828, FE829 and Rooms 201, 204, 206, & bleed-off fans FE820A, North corridor supply FE822B, FE822C (HVP-840) ∆P (HVP-809) AP filter plenum filter plenum Description TA55-STP-004, R15.1 Non TSR requirement Completed by: fand Comments: 4.1.3.4 4.3.2.2 4.1.3.4 SRS ₹ Z

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 1 of 4)					
~			Date:	6-10-13	6-11-13	6-12-13	6/13/13	6/14/9	2/5/90	4-16-12
			Weekday:	Mon.	Tue.	Wed.	Thu.	ŦĨ.	Sat.	Sun
			Initials:	- W-1	\$	\$	1	1/4		} (
SRs	Description	Gauge	Acceptance Criteria		,	SURV	SURVEILLANCE RESULTS	SULTS	- ANN N	7
,	Vault re-circulation	<sup>1</sup> PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	25.	.15	15	.15	. 16	يي	,
	filter plenum (HVP-811) AP	PDI-840-2	<2.0 & > 0 in! wc	.52	.52	5.00	.52	.52	2 65	2 0
10		PDI-840-3	≤2.0 & > 01 in wc	.52	.52	.51	15	57	52	
4.1.1.7	Vault re-circulation	<sup>1</sup> PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	\$181	उत्धर	STBY	YOLS	37.B.Y	S. J.	5784
	filter plenum (HVP-812) AP	PDI-841-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	4 D.1.5	7.8 V	Ĵ	7 4 4
	(	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	YGT.S	STBY	STBY	% N.W.	7.4	- A + V
	200 area re-circulation	¹PDI-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.33	.33	.33	.33	,33	ري.	\$ 2.
	filter plenum (HVP-801) AP	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Öh:	7	12.	. 41	77.	ī	7 .
		PDI-831-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.35	38	.38	98	39	37	2.
	200 area re-circulation	¹PDI-832-I	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.ያሓ	k2.	25	47.	7.7.	¥	, 24
	filter plenum (HVP-802) AP	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.51	15.	525.	15,	ري	15,	15.
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	94.	94	bh.	53	耄	67.
	,	<sup>1</sup> PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.44	.11	.4.4	1	11.	C.	
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 81	18:	20	\ <del>d</del> .	£,	Ş	10
	(FF-820A) △P	PDI-807-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.50	.50	ŵ	٥	14	P.T.	25
	North Bleed off filter	<sup>1</sup> -809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	五0	OF	ORF	OFF	££0	40	7 7 6
4.1.3.4	plenum (FF-820B) $\Delta P$	PDI-809-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	40	OFF	の子	0 FF	OFF	ij	0 7.7
		PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	0所	OFF.	0 5-7-0	o FF	570	F	OFF

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				-		C 25 C C C C C C C C C C C C C C C C C C	10000000			
			Date:	6-10-13	61-11-0	4-12-13	6/13/13	6/14/13	06/15/13	21-11-9
		2	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri,	Sat.	Sun.
			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80,00	W		92	(Jan	الم الم	0
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS	ESULTS		7 /
		<sup>1</sup> PDI-829-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$				(III. #C)			
4.1.3.4	North Basement exhaust filter plenum (FF-828)	PDI-829-2	<2.0 & > 01 in. wc	2	V 6	b).	£1.	2	?	, 13
	AV.	PDI-829-3	<2.0 & >01 in wc	28	F	25	-55	35	35	W 1
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	26	26.	56.	92	.92	20	55,
	filter plenum	PDI-833-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	į.	747	8H.	8/3	ch.	( F.	7 7
4.1.1.7	15 (200-141)	PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ड्रीय:	1	1, 00	47	S	Z	84'
	100 area re-circulation	1-835-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.13	(3	.13	.13	.13	57:	\$ /·
	filter plenum	PDI-835-2	$\leq 2.0 \& > 0^4 \text{ in. wc}$	345	45	.415	44.	643	, Ki	777
	(100-111)	PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	lb'		14.1	3.	ih.	Ŧ	(4)
	<u> </u>	<sup>1</sup> PD <b>I-8</b> 15-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	02.	STBY	STE	STBV	STRV	F	7 7 8 7
4.1.3.4	100 area glovebox	PDI-815-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	(h:	STBY	STR	STBV	S7By	- <del>3</del>	STRY
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.87	STBY	STBY	STBV	STBW	5#5	5 +81
		PDI-815-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	0H.	SIBY	STEY	8739	457.72	£.	STRU
		<sup>1</sup> PDI-816-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	.39	.37	.39	.39	.27	, n
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	SURY	દ્દીત.	.45	:43	84.	Z,	.43
	exbaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc.}$	STBY	91ત.	.45	.45	Sir.	,HZ	742
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	٢.	4	545	.47	SH.	5 h ·

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1A33-51F	1A33-51F-004, K13.1		Surve	Surveillance Rounds	nds				Page 32 of 38	of 38	
		ATTACE	ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)	aily Surv	eillance I	Sounds (F	F-4 Nor	th Side)			
				(Page	(Page 3 of 4)		:				
			Date:	6.40-13	6-11-13	61-21-3	8/18/13	8//1//9	S/S//90	6-11-13	
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat	Sun	
			Initials:	mu	Jun.	3	9	an	25	10	
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS			
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ST&Y	¥	4	3.	7,	3	""	
	exhaust filter plenum (FF850) AP	PDI-812-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	.31	.31	9.2	3.2	30	31.75	Ŷ
4.1.3.4		PDI-812-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	.3.1	18,	.92	32	Ę		)
		PDI-812-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	18.	(8)	[2]	i	12	, ,	
		PDI-812-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	57.6%	25.	92.	29	. 60	24	0,	
	200 area glovebox	<sup>1</sup> PDI-813-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	(3	STRY	\$1.8×	orna.	STREE		7 7 7	
	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	02	S TBY	STRY	67/34	78.25	7 7	767.5	
4.1.3.4		PDI-813-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	82.	STGY	7.877	CTRU	CTRY	T A	5.70 V	
		PDI-813-4	<2.0 & > 01 in. wc	67.	57.64	ST&Y	87.84	CTRV	7	CYBU	
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.22	STEV	STBY	0.000	STIN	5	Vary	
	IFIT exhaust	<sup>1</sup> PDI-865-1	$\leq 2.0 \text{ & > } 0^1 \text{ in. wc}$	.03	20.	104	no.	7	020	200	
4.1.3.4	(FF-865) AP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	.37	25	.35	2	2,2	. 25	
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<u>ئ</u> ج	9	Ç	.42	177	7 1	. 4.3	
	IFIT supply filter plenum	¹PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	) <del>,</del> 0.	70,	, C	40	75.	5	300	
4.1.3.4	(HVP-863) ΔP	PDI-863-2	<2.0 & >01 in. wc	.42	24.	24.	.42	64.	CH	. 42	

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 4 of 4)

				19m r)	(1 age + 01 +)					
			Date:	6-10-13	6-11-13	6.12.13	6/13/13	E//h//9	EVSV90	6-16-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri	Sat.	Sun.
			Initials:	***	W.74	4.4	9	4	#1	9
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS	SULTS		
7.5	North Basement supply filter plenum	<sup>1</sup> PDI-857-1	$\leq 2.0 \text{ & > 0}^1 \text{ in. wc}$	91.	.18	81	51.	77	5	11.
4.1.3.4	(HVP-840) ΔP	PDI-857-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.52	.52	.52	15	C	5	
4.1.3.4	North corridor supply filter plenum	'PDI-856-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	90.	90.	.0.	,06	70	96	7
	(HVP-809) AP	PDI-856-2	<2.0 & > 0 in. wc	21.	21.	35	70	7.	.70	7.7
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	SAR	P. P.	Ş	) T	Irs	ま	74.2
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	, S	SAT	S	5	7	东	74%
			Completion time	20816	0736	2606	7180	0330	855	0800
	OC Operator Rev	iew and Page Co	OC Operator Review and Page Count Complete (initials)	B EL	B.	Prako	of so.	N B	8	4
I MILL TECH	7			1	J. W.		1			

<sup>1</sup> Non TSR requirement
Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Date: 6-17-13 Time: 1439 Completed by: Jaco Ling Date 6-16-23 Time 2800 Reviewed by:

Comments:

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 1 of 4)

				0						
<u> </u>			Date:	c)/c//9	6118113	6/19/13	6/26/13	6/21/13	6/21/3	6/13/13
	¥8		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
	.*		Initials:	0,00	34	T RR	5	28	4	An-
SRs	Description	Gauge	Acceptance Criteria	-	a.	SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 & > 0^1 \text{ in. wc}$	.16	7).	4/.	9/,	٠ / رد	91.	910
	filter plenum (HVP-811) $\Delta P$	PDI-840-2	≤2.0 & > 0 in¹ wc	57	٠٢٦	. 52	25	.52	r,	.522
		PDI-840-3	≤2.0 & > 01 in. wc	.5/	15.	. 51	15.	15.	15.	, i
4.1.1.7	Vault re-circulation	¹PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	37134	57.07	Stby	5781	5787	2184	NULS
	filter plenum (HVP-812) AP	PDI-841-2	≤2.0 & > 0¹ in. wc	इन्छ ५	5187	SLOK	57.84	8787	57.84	46145
	(1)	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	278v	St. 64	STBY	7612	5184	7875
	200 area re-circulation	¹PDI-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.22	7.32	. 32	.33	. 33	.33	.33
	filter plenum (HVP-801) AP	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	14,	115.	.41	14.	14.	41	14
		PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.39	.33	.38	38.	.39	00	38
	200 area re-circulation	¹PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.23	.23	724	42.	٠, ٢٧	.24	20.
	filter plenum (HVP-802) AP	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15	15.	.5(	is.	.57	75,	ĵ,
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	64.	٠ ۲٩	. 50	64.	63.	64.	67.
		¹PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			11.	7	//:	11.	- 17
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	080	9 R ·	100.	- <del>-</del>	80	000	2
	(FF-820A) AF	PDI-807-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	64.	. 50	.50	.50	<i>5</i> h.	67	3
	North Bleed off filter	¹PDI-809-1	≤2.0 & > 0¹ in. wc	νŧτ	240	440	950	170	off	the state of the s
4.1.3.4	plenum (FF-820B) ∆P	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	250	110	J.J0	OFF	770	540	OFF
		PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Ş.	440	off	off.	off	9H	off

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 2 of 4)

				Age I)	(1 ago 2 01 7)					
			Date:	धीपी	118/13	419/13	6/20/B	clar (13	Shills	6/13/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	an	326	古	\$	Z.	The state of the s	A
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SSULTS		
	G I	<sup>1</sup> PDI-829-1	$\leq 2.0 R > 0^{1} \text{ in. wc}$	hi*	7	.13	. 63	.13	27	77
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 & > 0^{1} \text{ in. wc}$	,39	.39	.39	82	.39	34	04.
		PDI-829-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.35	.32	. 35	35	.35	.36	.36
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. we}$		16	.92	16.	)6.	/b.	15.
	filter plenum (HVP-803) AP	PDI-833-2	<2.0 & > 01 in. wc.	.43	eh.	A4.	84.	<i>64</i> .	8/7	37.
4.1.1.7		PDI-833-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	th.	sh.	女.	94	٠4٤	94.	94
	100 area re-circulation	<sup>1</sup> PDI-835-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.13	51.7	./3	./3	6).	<i>S</i> )	27
	filter plenum	PDI-835-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	hh	35	440	гн.	43.	η.	77
		PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	16	١,	.42	14.	oh.	/4/	70
		<sup>1</sup> PDI-815-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	51.84	Stay	27.87	57.81	STBY	57.84
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.87	5704	SALA	STBY	57.84	ST BV	SYBY
	exhaust fifter plenum (FF852) AP	PDI-815-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	57.8%	5181		\$7.87	57.84	87.01	SYBV
		PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	57134	/	STBY	5 1787	V872	57.00
		¹-918-IQd₁	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.39	. 53	. 39	98.	.35	95.	.39
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.47	۲ħ.	.45	.45	٠ ٨٤	.45	747
	exhaust fulter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0 <sup>1</sup> in. wc	44.	ري. ري	+4.	.46	34.	94.	34.
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.46	77.	3.	84:	85	34	84

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Surveillance Rounds	ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)	(Page 3 of 4)
TA55-STP-004, R15.1		

			11 agr	(1 age 3 01 4)					
		Date:	0/11/19	6/18/13	6/19/13	6/20/17	clail13	6/11/9	0/23/3
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri	Sat.	Sun.
		Initials:	Jm.	24.00	75	Q/V	24	Ar	1
Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS	ESULTS		
200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	¥,	۲۱۰	#1.	7/	71.	717	וח
exhaust filter plenum (FF850) $\Delta P$	PDI-812-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32	.3(	.32	.33	12:	.32	7.5
	PDI-812-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.34	.30	.34	.32	18'	.33	.33
	PDI-812-4	≤2.0 & > 0¹ in wc	181	,30	. 3	.31	.31	12.	.3/
	PDI-812-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.29	62.	30	.29	.29	.29	29
200 area glovebox	<sup>1</sup> PDI-813-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Yars	37137	54.bu	STBY	2787	5737	57130
exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	84.04	5 1131	र्यमुष्ठ	37.84	5187	reus.	57.30
	PDI-813-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STRY	1415	24Px	STDY	57.12.1	57.0 4	STBV
	PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	57.87	Mays	STBY	5197	V6) T7	8772
	PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	VETTE	1915	Sthon	STRV	7812	3.00	> でんり
IFIT exhaust filter plenum	¹PDI-865-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	40"	ka.	40.	40.	70°	10.	70
(FF-865) AP	PDI-865-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	45,	. 32	724	.34	.35	75.	34
	PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	7.17	٥٨.	14.	4	<u>&gt;</u>	47	ch.
IFIT supply filter plenum	<sup>1</sup> PDI-863-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	40.	ho.	sa.	<b>40.</b>	30.	700	מת
(HVP-863) ΔP	PDI-863-2	≤2.0 & >0¹ in. wc	777	S	.42	5	5	5	1

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

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				0	/					
			Date:	6/17/13	6/18/13	419/13	6/10/13	6(2)113	0/22/9	8/52/3
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	, Sat.	Sun.
		0.00	Initials:	B	740	772	Gw.	24	1.m	
SRs	Description	Gauge	Acceptance Criteria	,		SURV	SURVEILLANCE RESULTS	SULTS		*
4134	North Basement supply filter plenum	<sup>1</sup> PDI-857-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.15	.15	511.	91.	1.15	. K	16
4.1.5.4	(HVP-840) AP	PDI-857-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.50	.50	. 50	.50	.50	8	05
4.1.3.4	North corridor supply filter plenum	1-958-IQd <sub>1</sub>	\$2.0 & > 01 in wc	90.	90.	10.	رة	00	Q <sub>0</sub>	80.
	(HVP-809) AP	PDI-856-2	$\leq 2.0 \& > 0^{1} in. wc$	16.	07.	. 70	16	12.	10	10.
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	186	Sat	SAR	Th'S	sat	Á	5
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	1-4%	SA	345	IF S	T'S
			Completion time	0833	0855	0831	0820	1920	0833	37.50
	OC Operator Rev	view and Page Co	OC Operator Review and Page Count Complete (initials)	8 Pr	E B	1 KS	530 RB	also S	ફ	74.

<sup>1</sup> Non TSR requirement
Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Date 624-13 Time: 0704 Completed by: Same 1/2 Date 6/23/3 Time 0350 Reviewed by:

Comments:

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 1 of 4)					
			Date:	6/24/13	4/25/13	4/24/13/6/27/13	10/27/13	1/38/13	67873	6 30 13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	<u></u>	
			Initials:	4 in	ð	\$t\$	4	nee	27	Dr
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	31.	91.	.14	SIL	Mark	5787	27.87
	filter plenum (HVP-811) ∆P	PDI-840-2	≤2.0 & > 0 m <sup>1</sup> , wc	52	.52	.52	516y	57.87	STBY	STRV
		PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15.	.51	.51	Selen	1828	STRY	S 7.0 V
4.1.1.7	Vault re-circulation	¹PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STRV	st. Sur	Star	· 44·	٠٧٤	. 45	37.
	filter plenum (HVP-812) ∆P	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5784	St. 64	Secon	.51	.52	. 52	. 5.2
		PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	YETS	Stoop	Story	35.	.50	250	. 50
	200 area re-circulation	<sup>1</sup> PDI-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32	. 32	.32	.33	.33	.33	22
	filter plenum (HVP-801) $\Delta P$	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	14.	4	14.	.4(	<i>ነ</i> ሉ:	14.	<i>(h</i> :
		PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.38	.38	38	38	.33	\$0 !~	80
	200 area re-circulation	<sup>1</sup> PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.23	.24	72.	.24	٠٤٠	, 24	. 24
	filter plenum (HVP-802) $\Delta P$	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15.	15.		15.	15.	15,	.5.
	,	PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	49	4.	.49	. 50	65.	, 50	67.
		<sup>1</sup> PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	li.	///	11.	+	"((	. 12	7.
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	96.	.60	. 80	, 9,	\ \&.	10.	.82
	(FF-820A) $\Delta F$	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	66.	5ħ:	64.	.50	.50		. 57
	North Bleed off filter	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	off	oft	JJO	)Jo	770	OFF	0 66
4.1.3.4	plenum (FF-820B) △P	PDI-809-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	550	200	He	The	077	OFF	0 12 6
		PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	550	500	110	उरा	0 40	OFF	OFF

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P-004.
[P-0
TP-0
STP-0
S-STP-0
55-STP-0
.55-STP-0
A55-STP-0

Surveillance Rounds

ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

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				(I age	(1 age 2 01 +)			Control of the Contro		
			Date:	6/24/13	6/25/13	6/24/13	West 13 4/27/13	6/28/13	21-62:7	7-08-7
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	1	
			Initiak	dur	781	ð	772	3	7	,
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS	SULTS		
		<sup>1</sup> PDI-829-1	$\leq 2.0 &c > 0^{1} \text{ in. wc}$	2	/3	6/.	77/	74		
4.1.3.4	North Basement exhaust filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \text{ & > 0}^{1} \text{ in. wc}$	.39	.40	. 40	3	05.	66.	20
		PDI-829-3	$\leq 2.0 \& > 0^1 \text{ in wc}$	.35	.35	.36	.35	35	35	37.
	100 area re-circulation	¹PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	18.	16.	.92	.92	.92	.92	. 92
	filter plenum (HVP-803) AP	PDI-833-2	$\leq 2.0 \& > 0^{1} \text{ in. wc.}$	$bh^*$	84.	84.	49	65.	64.	64.
4.1.1.7		PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	No.	14.	۲4.	34.	Sh.	071	87.
	100 area re-circulation	1 <b>-583-1</b>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	61.	7.33	./3	. /3	£).	2 (3	51.
	filter plenum	PDI-835-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	w.	43	. 43	ð.	٠٧٦.	. 43	Łħ.
		PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.40	) 40°	14.4	7+.	05.	16.	/// .
		1-815-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	3	545W	845-8	1 14 2 1 1 3 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	1 *	000	. 20
4,1.3.4	100 area glovebox	PDI-815-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		546v	3464	.42	0h	OH,	/5.
	exhaust niter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	S70Y		546W	. 39	.39	. 39	6 %.
		PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	516y	Stby	.40	٠ ۲٥	07,	04.
		<sup>1</sup> PDI-816-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	,39	at.	. 39	ABy.	5787	STRY	\$ T.B Y
4.1.3.4	100 area glovebox	PDI-816-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	94.	.47	448	Story	5187	STBY	STBV
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc.	ch.	.48	.47	Story	42134	4872	57.80
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.48	.49	. 49	Starr	12112	STRY	STRY

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

	-	Date:	6/24/13	6/22/13	424/13	6/27/13	6/27/13 6/28/13	6-29-13 6-30-13	6-30-13
10		Weekday:	Mon.	Tue.	Wed.	Thu.	Frii	Sat.	Sun.
		Initials:	45	178	To.	34	Alle	27	76
Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	SULTS		
200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	hi.	+1.	41.	12 July 12 1	5787	STRV	4784
(FF850) $\Delta P$	PDI-812-2	$<2.0 & > 0^1 \text{ in. wc}$	.32	.32	.32	St. bry	71137	K-7 R V	STRV
	PDI-812-3	<2.0 & > 01 in. wc	.32	.32	.32	St. bu	21.0.1	STRY	STAV
	PDI-812-4	≤2.0 & > 01 in. wc	.31	.30	36	St. St.	4418	STRY	STRV
	PDI-812-5	$\leq 2.0 \text{ &c} > 0^1 \text{ in. wc}$	29	.30	62.	1995A	12112	5781	× 7.80
200 area glovebox	<sup>1</sup> PDI-813-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STRV	5/34	2234	90).	3.	,66	79.
(FF851) $\Delta P$	PDI-813-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STRY	Ston	SIBW	.28	32	200	. 2.8
	PDI-813-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	Stery	497S	.24	.25	26	. 26
	PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	51.54	StBy	. 29	96.	, 29	. 29
	PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	27.64	S.754	That	.21	, k	, 2,	12.
IFIT exhaust filter plenum	<sup>1</sup> PDI-865-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	£0.	) sa.	1.93	.03	79.	40.	7 7
(FF-865) AP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.34	.35	.35	. 34	35.	35	3.
	PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	04	14.	7.	÷.	. 42	. 77.3	
IFIT supply filter plenum	<sup>1</sup> PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	₽¢,	50.	50.	50,	3	20.	50
(HVP-863) ΔP	PDI-863-2	≤2.0 & >0¹ in. wc	145	17.	14.	7	57,	137	, 2

6-30-13 6080 145 **K** V Page 33 of 38 21-65-7 S 0808 Ð 1 # X 74 00/: Sat. • 6(28(13 B sat SAT ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) ぞって 25 79 282 SURVEILLANCE RESULTS 42413 Time: 1042 20 0 t 0854 西 446 8 4/20/13 0930 894 古 Wed SAT 20 Date 72 6/25/13 On-duty Supervisor SAT 8 80 (Page 4 of 4) 4 . 7 1160 SAT Surveillance Rounds 6/24/3 6280 Mon. Reviewed by: Duck 70. SAT 50 SAT 5 9 0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans) Date: Initials: Weekday: rooms, whichever is less Completion time OC Operator Review and Page Count Complete (initials)  $\leq 2.0 & > 0^{1} \text{ in. wc}$ perpendicular from the face of the PMMA, the between gloveboxes, or <2.0 & > 01 in. wc <2.0 & > 01 in. wc  $\leq 2.0 \text{ & > 0^1 im. wc}$ 0 lb/ft² combustibles up to the walls of the Acceptance Criteria width of the aisles within 3.5 feet Zanil Date 6-30-13 Time 0801 1-928-IQA<sub>1</sub> Note: SR 4.1.3.4 applies during mode 1 and mode 2. PDI-857-1 PDI-857-2 PDI-856-2 Gauge Combustible exclusion area FE820B, FE820C, FE822A, FE822B, FE822C North Basement supply around basement exhaust fans FE828, FE829 and Rooms 201, 204, 206, & North corridor supply bleed-off fans FE820A, (HVP-840) ∆P (HVP-809) AP filter plenum filter plenum Description TA55-STP-004, R15. Non TSR requirement Completed by: Pand Comments: 4.1.3.4 4.1.3.4 4.3.2.2 SRs N N

F

Sun.

7

9 50

60 0

Page 35 of 38

# ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) (Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
1 1 3 3	Confinement Door DD 244	4000	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	(Sat.) Unsat.			
7.5.7		Southeast	For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).		0800	6-5-13	3
4133	1127 Confinement Door DD 140	North	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	(Sa) / Unsat.	0915	6.5-13	1
7:5:1	Continuental Dool DA-149		For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).		1	)	
			Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	(			
133	Confinement Door DD 102	1	For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door)	Sat// Unsat.	L2 00	6-5-13 NM	Y
		160Million	AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is $\leq 30$ seconds.	Sat)/ Unsat.	6250	6-5-13 WM	1
			S.75 Seconds				



Initials Page 36 of 38 XX 3/3 ડ 6-5-13 OC Operator Review and Page Count Complete 6-5-13 6.5.13 6-5-13 Date: ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) Completi on Time: 2440 0943 09 53 3528 Date: 6/5/13 Time: Sat or Unsat. Sat) Unsat. Sat/ Unsat. Cago Clisat Sat. Unsat. Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is  $\leq 30$  seconds. (Page 2 of 2) Acceptance criteria Surveillance Rounds Reviewed by Seconds Date 6-5-13 Time 0944 1.39 N. Basement Personnel door DR-4 South Basement Door (Tunnel) Location Southwest Note: SR 4.1.3.2 applies during mode 1 and 2. Completed by: Ne Cou Mc Con Confinement Door DR-4 Confinement Door Confinement Door DR-90 TA55-STP-004, R15.1 Equipment On-duty Supervisor Comments: 4.1.3.2 4.1.3.2 4.1.3.2 SRs

Surveillance Rounds TA55-STP-004, R15.1

Page 37 of 38 ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)

(Page 1 of 2)

				(= 0.0 - 0.0			
SR	Desc	Description	Acceptance Criteria	Sat. / Unsat.	Completion Time:	Date:	Initials:
	Channel #	Location					
	-	Rm. 201	> 1 mR/hr	(A. / Unsat.	0000	6-1-9	Ò
	2	Rm. 106	> 1 mR/hr	(Sat)/ Unsat.	0090	6-1-13	Q
4.2.1.1	3	Rm. 305	> 1 mR/hr	(Sa) / Unsat.	0000	6-1-13	0
	4	Rm. 401	> 1 mR/hr	(Sag / Unsat.	0000	6-1-13	Ø
٠	5	Rm. 206	> 1 mR/hr	(Say / Unsat.	0000	6-1-13	6
	9	Rm. 114	> 1 mR/hr	(Sat) / Unsat.	0090	61-1-9	0
	7	Rm. 319 W	> 1 mR/hr	(Sat) / Unsat.	0000	61-1-9	0
	∞	Rm. 409	> 1 mR/hr	(Say / Unsat.	0090	61-1-9	Q
	- 6	Rm. 208	> 1 mR/hr	(Sa) / Unsat.	0090	61-1-9	Q
	10	Rm. 124	> 1 mR/hr	(Sa) / Unsat.	0600	61-1-9	0
	11	Rm. 319 E	> 1 mR/hr	(Sa) / Unsat.	0090	61-1-9	V
	12	Rm. 420	> 1 mR/hr	(Say / Unsat.	0600	61-1-9	0
	13	Rm. 209	> 1 mR/hr	(Sa) / Unsat.	0000	6-1-13	D
	14	Rm. 126	> 1 mR/hr	(Sa). / Unsat.	0600	6-1-13	B
	15	Rm. 327	> 1 mR/hr	Sat / Unsat.	0000	6-1-13	D
	91	Rm. 429	> 1 mR/hr	(Sat) / Unsat.	0600	6-1-13	О
	17	Vault 17	> 1 mR/hr	(Sa) / Unsat.	0000	6-1-13	Ø
4.2.2.1	18	Vault 18	> 1 mR/hr	(和) Unsat.	0000	6-1-13	9
	61	Vault 19	> 1 mR/hr	(Sat) / Unsat.	00000	6-1-13	Ø
	20	Vault 20	> 1 mR/hr	(Sag / Unsat.	0090	6-1-13	9

Note: These readings SHALL be taken on the rate meters in rack RK-801-3 in the OC.

ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center) (Page 2 of 2)	Date 6-1-13 Time 0600 Reviewed by: Date 10 10 Date: 6-3-13 Time: 69 (3)	EOR WEORNAL ON THE STATE OF THE	
TA55-STP-004, R15.1 ATTACHM	Completed by: QA Q	Comments:	

#### Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	Surveillace Rounds
Procedure no.:	TASS-STP-004 RIS.I
Date of issue:	5-1-13
Working copy issued to:	A. Duneth
Working copy issued by:	F. Sexbert
	Certified Operations Center Operator

Operations Center Operator Review		6-5-13
Signature		Date
Required Reading for this Surveillance has been con	mpleted.	200
Training Checklist		

Workers Performing Surveillance	Applicable Surveillan	ce Training Current
	Initials	Date
R. Briscoe	0	S-1-13
B. Chance	a	5-1-3
1). Dunlocx	Δ.	57-13
A Unverth	a	S-1-13
R. Lum	a	5-1-13
A. Ortiz	a	5-1-13
t. Sex bort	a	5-1-13
M. W. throp		
1. Chares		
J. Smeltz		

Comments:	

Page 20 of 29

#### Attachment B, Surveillance Training Checklist (Page 2 of 2)

#### **Training Checklist (continuation sheet)**

Workers Deviceming Committee	Applicable Surveillance	Training Current
Workers Performing Surveillance	Initials	Date
R. Hohner	<u>a</u>	5-1-13
J. Martinz	0	51-13
J. Longworthy	a	5-1-13
1. Tru, llo	a	5-1-13
N. Montaya	a /	5-1-13
H. Sanchez	a //	5-1-13
G. Cariz	(2)	5-143
M. Irish	0/	5-1-13
A. Henrera	a	5-1-13
	<del>/</del>	
0-3/		
40/		
0-/		

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

# ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					(Ia	(rage 2 01 5	7)									
;	Note		Date:				18	(//,	8/2/	6/3	5-3-13		5/4/13		5-5-13	13
Readings using FC	Readings should be taken using FCS screens		Weekday:	Mon.	n.	Tue.		Wed.	Ė	Thu.	Fri.		Sat.		Sun.	).
FMT#15	FMT#151,152,201LD		Shift:	AM	PM /	AM P	PM AM	M PM	AM	PM	AM	PM /	AM	PM A	AM	PM
and local p be used if F	and 2021.D. Freid verification and local plenum PDIs may be used if FCS is unavailable.		Initials:			25	12	8	8	Se	9	8	0	3	d	ব
SRs	Description	Readings	Acceptance Criteria				SC	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	LLAN Unsat.	CE R (circ	ESUI le one	TES	-		-	
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 \( \text{AP} > .050 \) or	At least one fan/plenum is in	Sat	Sat	Sat	Sat	(%)	(A)	Sat	Sat	(\$)	Sab	(8)	(Sat)	(Sat)
	plenum	FR-802 Icon red and PDT-832 AP >.050	service		Jusatt	Insat Ut	ısat Uns	Unsat	Unsat	Unsat	Jnsat U	nsatU	nsat Ur	ısat Uı	nsat U	nsat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 ΔP >.050 or	At least one fan/plenum is in	Sat	Sat	Sat	Sat	(Sat)	(S)	Saft		(g)	TES TES	(8)	<b>3</b>	Sat
	plenum	FR-804 Icon red and PDT-835 AP >.050		Unsat	Insat	nsat Un	sat Uns	Unsat	Unsat	Unsat	Jnsat U	nsat U	nsat Ur	ısat Ur	ısat U	Unsat
4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in	Sat	Sat	Sat	Sat	(Jag	Sat	(Saft)	Sat	(g)	<b>S</b>	(S)		Sat
	plenum	FR-806 Icon red and PDT-837 \( \D\ PDT-837 \( \D\ P) \)	service	Unsat U	Insat U	nsat Un	Unsat Unsat Unsat Unsat Unsat	nt Unsat	Unsat Unsat Unsat Unsat	Unsat	Insat U	nsat U	Unsat Unsat Unsat Unsat Unsat	ısat Ur	ısat U	nsat
	400 area re- circulation fan/	FR-807 Icon red and PDT-838 △P > .050 or	At least one fan/plenum is in	Sat	Sat	Sat	Sat Sat	(S)	(E)	(5)	(SE)	(%)	San (San)	Sat		Sat
	plenum	FR-808 Icon red and PDT-839 AP > .050	service	Unsat U	nsat	nsat Un	sat Uns	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Unsat L	Unsat Unsat Unsat Unsat Unsat Unsat	nsat U	nsat Un	ısat Ur	ısat U	nsat
	Vault re-	FR-811 Icon red and PDT-840 AP > .050	At least one	Sat	Sat	Sat	Sat Sat	Sat	Say	Sat	Sat)	Sat	Sat	Sat	(Sat)	Sat
	circulation	Or ED 912 Loon and and	is in	_		•••	<u>)</u>	)	)	)	)	<u>_</u>	)	\	<u>/</u>	7
	tan/ plenum	PDT-841 AP >.050	Service	Unsat U	nsat	nsat Un	sat Unsa	Unsat	Unsat	Jusat	Insat U	nsat U	nsat Un	sat Un	ısat U	nsat

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2. Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc

Pate 5-13 Time 1932 Reviewed by: DAM

On-duty Supervisor

Comments:

Completed by:

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

	Note		Date:	5/6/13		5/1/13	18/2	5	5/H/3	V	E1/01	1/2	2//"	5/11	(14/13
age re	Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.	Ī	Tue.	Wed.	7:	Thu.		Fri.	t	Sat.	รัง	Sun.
never	whenever possible. Document if		Shift:	AM PM	I AM	PM	AM	PM /	AM PM	MAM	I PM	AM	PM	AM	PM
nate P	alternate PDIs are used.		Initials:	28.C	0५'ल	8	13	3	ئ الك	18/	ab de	B	47	OGG	8
SRs	Description	Gauge Acce	Gauge Acceptance Criteria	)		0	SURV	EILI	SURVEILLANCE RESULTS (in. wc)	E RES	ULTS	)			
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc¹	202.	100	0.	203	2.61	203 203	2,107	7.03	720	2.02	20,2	1.03
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc <sup>1</sup>	18.1		88	GP.)	1-1861	1-03-1-			88	25	30,	06)-
!	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc¹	1.97		86.	1.00°+	1/4/	761-877	1	-199	8-	9-1	35.4	4, %
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	<-1.0 in. wc¹	107-		7.00	0-	-	1-78-198	84	20.	20.5	200	10.7.	g5:1-
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>	3,		12	6.0	1.	12 - 12		3	P. Q.	2.	3.	22
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc¹	22: (v)	2	13.	4.0	1.	33.	l .	2	,0,33	22.	2,	12
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc <sup>1</sup>	12 25	ş,	'a	er O	. W.	19: EE		13	100	\$2.	<i>\\     \</i>	'z
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc <sup>1</sup>	3.	3.	.2.	8/0	X*	12.7 0%		2	P.0.	3	3.	3
	IFIT Facility $\Delta P$	PDI-865-4 or PDI-865-5	<-0.05 in. wc	57.	۵ <sub>/ ,</sub>	9.	P1.0.	12 B	5		2	R.0.	4	5/	4
	North basement AP		< 0.00 in. wc	0.	2	15.	0,0	1-	01:01		0 7	0,0	, 0	9.	01,
4.1.1.3	South basement AP		< 0.00 in. wc	-13 513	4,-	h'.	57.0	1.	51.5		20	40	12	67.	10
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	है		7.	0610	1 1	138 :145		7	055,0	:133	-136	041.
														İ	

# ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					La	rage 2 of 5	3)									
:	Note		Date:	5/6/	13	5/1/13	20	18/13	5	[3	10/2	7	8/11	113	5/14/3	W.
Keading using FC	Readings should be taken using FCS screens		Weekday:	Mon.	n.	Tue.		Wed.	TI	Thu.	Fri		Sat.	. :	Sun.	. ci
FMT#15	FMT#151,152,201LD		Shift:	AM	PM	AM P	PM A	AM PM	AM	PM	AM ]	PM '	AM I	PM	AM	PM
and local p	and 2021.10. First venikation and local plenum PDIs may be used if FCS is unavailable.		Initials:	OMO	Z)	- 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8	12	8	\$Z	6	B	7	R	8	A.A.	8
SRs	Description	Readings	Acceptance Criteria				) <u>જ</u>	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	LLAN Jusat.	CE R (circ	ESUI le one	TS				
,	200 area re-	FR-801 Icon red and PDT-831 $\Delta P > .050$ or	At least one fan/plenum is in	Sat	(Sa)	San San	<b>8</b>	Sat)	Sat	(3)	(Z)	<b>3</b>	(FE)		Sat	(E)
	plenum	FR-802 Icon red and PDT-832 ΔP > .050	service	Unsat	Insat	Jnsat Un	satUns	Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Unsat	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	nsat U	nsat U	nsat C	nsat	Unsat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 $\Delta P > .050$	At least one fan/nlenum is in	(ag)	(3)	(Sa)	<b>3</b>	(ES)	Sat	Sat	(S)		(Tab)	Ö	(Sat)	(FE)
	plenum	FR-804 Icon red and PDT-835 AP > .050	service	Unsat Unsat Unsat	Jusat		sat Uns	Unsat	Unsat	Unsat	Jnsat U	nsat U	nsatU	nsat U	nsat (	Jnsat
4.1.1.6	300 area re-	FR-805 Icon red and PDT-836 ΔP>.050	At least one fan/nlenum is in	Sat	Sat	Sab Sar	it) gay	(Sa)	Sar	Sat	Ties	(3)	Say	(F)	(3)	(Eg)
	plenum	FR-806 Icon red and PDT-837 $\Delta P > .050$		Unsat	Jusat L	Unsat Unsat Unsat Unsat Unsat	atUns	at Unsat	Unsat Unsat Unsat Unsat	Unsat		nsat U	Unsat Unsat Unsat Unsat Unsat	nsat U	nsat	Jnsat
	400 area re- circulation fan/	FR-807 Icon red and PDT-838 ΔP > .050 or	At least one fan/plenum is in	Sat	(Sal)	Sat		Sat	(jeg)	Saf	(Sat	(3)	Sat	(3)	(\$g)	(gag
	plenum	FR-808 Icon red and PDT-839 △P >.050		Unsat C	Insat U	nsat Uns	at Uns	Unsat Unsat Unsat Unsat Unsat Unsat	Unsat Unsat	Jusat	Unsat Unsat Unsat Unsat Unsat Unsat	ısat U	nsat U	nsat U	nsat	Insat
	Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$	At least one	Sat		Sat	Sag	Sat	(SS)	(3)	TRE	(3)	\$ 600 M	(3)	(Sg.)	(F)
	fan/ plenum	n red and NP >.050		Jusat C	nsat U	nsat Uns	at Uns	Unsat	Unsat	Jnsat	Insat U	sat U	nsat U	nsat U	nsat [C	nsat

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

				8														
(	Note	•		Date:	5/6	5/6/13	1/5	1/13	5/1/13 5/8/13		5/4/13		8/10/13	1,3	1/2	5/1/3 5/14/3	5/12	113
Gauge read	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	iken on ra I equivale	ick #4 in nts may	Weekday:	Mon	Jn.	Tue.	ej.	Wed.	žď.	Thu	u.	Fri.		Sat		Sun.	į.
be used if no	be used if necessary. Document any alternate	nt any alte	rmate	Shift:	АМ	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
i Lis used.				Initials:	090	8	Office	B	B	S	BB	<del>১</del>	B	8	Ja.	8	CVO	BC
SRs	Description	Aroa	20110	Acceptance					SUI	<b>AVEI</b>	LLAN	CE R	SURVEILLANCE RESULTS	TS				
		210	Cauge	Criteria			(		<b>9</b> 2	3at. / [	Jusat.	Sat. / Unsat. (circle one)	e one		(		!	
	Glovebox exhaust header APs	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803- 2 < PDI-804-2	(Sat Sat Unsat Unsat	Sat	Sat Sat Unsat Unsat	S at		Sai (Sat) Insat Unsat	Sat	Unsat	Christ (		Chisat U	Unsat	Sat Unsat L	nsat
4.1.1.4	< laboratory APs < basement APs for areas 100, 200, 300	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2		Sat Sat Unsat Unsat	Sat bat Unsat Unsat		Sat (Sat) Unsat Unsat	Sat	Sat	Sa) Crisat	Sat Unsati	Susat	Sat Sat Onsat Unsat	Unsat		Sat
	and 400	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	Sat	Sat Sat	(Sat Unsat	Sat	Unsat	Sat	Sat	Sat Cristat	Sat C	Girsat	Sat	STEEL CONTRACTOR	Sat (	Sat
		400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852-	Sat Unsat	a ta	Sat		Sat Sat Unsat Omsat	Sat	Sat	Sat	Sat Unsat (	E) sat	Sat	nsat.	Sat	nsat Insat
			Completion Time													$\vdash$		
					3250	42%	2655 1919 26.05	क है	2003	156	3733	351	717	92%	0730 1946 011 184 0731 1946 0130 1928	22	130	828

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in, wc Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2. Date of 1213 Time 198 Reviewed by: My

by: Doct Date: 5-13-0rime: 0920.

Comments:

Completed by:

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

								K						,	-		
			Date:	5/13/13	$\rightarrow$	05.14-13	ē	5/18	7	5/16/13		5/17/13	$\neg$	5/18/13		5-17-13	13
Gauge readings should be taken on rack #4 in the OC	a) E		Weekday:	Mon.	j.	Tue.	Э	Wed.		Thu.		Fri.		Sat.		Sun.	-
ਯੂ	whenever possible. Document if		Shift:	AM I	PM	AM	PM	AM	PM /	AM	PM	AM P	PM /	AM F	PM	AM	PM
			Initials:	0	9	86	4	R	33	18	8	7	4	ż	9	ડ	9
Description		Gauge Acce	Acceptance Criteria					SURVEILLANCE KESULTS (in. wc)	EIIC	(in. wc)	(E) (E)	SOL	~				
9 5	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	<-1.0 in wc1	77.02	2003	1.03	-192	00:1	201	1.0+	-7.02-3	-2.03	2)02	10.5-	-)0(-	202	8
> =	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc <sup>1</sup>	490	061-181-	9.	1,587,199	P8.		80.	88)		68-1-68-1-		75		38
9 5	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	80	861-148	85.	a.\\30°C-	A.	1.99	82.	1- 85)-	- 1.59	-1,99-1.59		1786	\$;	14/-
× =	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	<-1.0 in. wc <sup>1</sup>	27.03	J. 64-1-98		107,65	70.7	861-	1. 50.)	2-001.	-7.02	2,03-2,02	70,1	861-251-		-7.03
=	atory	200 area laboratory PDI-803-1 or header AP PDI-803-2	<-0.05 in. wc <sup>1</sup>	02	č		18	61.0	3.		19.	- (8)	6	-619	61-81-		8/-
area labora header AP	atory	100 area laboratory PDI-802-1 or header AP PDI-802-2	≤-0.05 in. wc¹	52.	4C=	/	) ( )	30	2	2, 24.00	. 23	22		2.0	7227	- 1	T,
rrea labora header AP	atory	300 area laboratory PDI-853-1 or header AP PDI-853-2	≤-0.05 in. wc¹	22'-		.23	),  (7,-	0,	0 12	12. 16.0		725	2712	52,0	<u> </u>	3	10.
	rea laboratory header AP	400 area laboratory PDI-852-1 or header AP PDI-852-2	<-0.05 in. wc¹	02'-	:21	્ર	9	GR. O	<u>ē</u> .	PT- 04.0		0,1	or 61:	92.00	230	: W:	7.20
I 🕾 🖠	IFIT Facility AP	PDI-865-4 or PDI-865-5	<-0.05 in. wc	- 19	61:	1. Æ	5	2/0	), 63.		2	1	3/	₽. Ó.	5	-12	2.19
I	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	- 0)-		2,10	110	0,0	01.	0,00	)    -	0	9	0.0	- 01:		011
d)	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-13 -	19	, Zi.	シャン	4. 5,0		7,00		71- H-		7.07	٠ ٦ ١		7/2
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	121 30; Oh!	20		157	40.0	0 661	3/0	1.43	1.145		1/2 1/2 -	841-121	76	841.
1									1			-		-			]

# ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					(Fa	(Fage 2 of 3	3									
;	Note		Date:	5/15/0		05.4·13	~ V	1/8/1/2	1/2	2/3	5/11	11-113	81/5	13	5-6-5	3
Readings	Readings should be taken using FCS screens		Weekday:	Mon.	n.	Tue.		Wed.	I	Thu.	Fri	) <del></del>	Sat.	t.	Sun.	ü
FMT#15	FMT#151,152,201LD		Shift:	AM ]	PM /	AM PI	PM A	AM PM	AM	PM	AM	PM	AM	PM	AM	PM
and 2021 and local r be used if?	and 2021.D. Freid verification and local plenum PDIs may be used if FCS is unavailable.		Initials:	C	9	28		18	13	8	H	9	ķ	9	5	4
SRs	Description	Readings	Acceptance Criteria				SI	SURVEIL ANCE RESULTS Sat. / Unsat. (circle one)	LLA Unsa	NCE I	RESU	LTS e)		<b>.</b>		
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 AP > 050 or	At least one fan/plenum is in	3	(S)	Sar) Sar)		Sat Sa	Sat	Sat	S	Sat	Sat	Sat	Sat)	Sat
	plenum	FR-802 Icon red and PDT-832 AP > .050	service	Unsat Unsat Unsat Unsat Unsat	Insat U	nsat Un	sat Un	sat Unsa	Unsat Unsat	Unsat	Unsat Unsat	Unsat	Unsat Unsat Unsat Unsat	Jusat	Jusat	Unsat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 AP >.050 or	At least one fan/plenum is in	(3)		Sat Say	TE SE	<b>S</b>	/gg/	(Sal)	6	Sat	Sat	(Sa)	(3)	(Sag)
	plenum	FR-804 Icon red and PDT-835 AP > .050		Unsat U	nsat	nsat Un	sat Un	Unsat	Unsa	Unsat	Unsat	Unsat	Unsat	Jusat	Insat	Unsat
4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in	(8)	(8)	Saf-	Sat Age		TES .	<b>(2)</b>	(§	Sag	Sag.	(Eg)	(3)	San
	plenum	FR-806 Icon red and PDT-837 AP > .050		Unsat Unsat Unsat Unsat Unsat	nsat U	nsat Un	sat Uns	at Unsal	Unsat	Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Unsat	Unsat	Jusat	Insat	Insat
	400 area re- circulation fan/	FR-807 Icon red and PDT-838 AP > .050 or	At least one fan/plenum is in	(Sa)	8	Sa	et Sat		( )	Sat	(%)	Sat	Sat	(8)	(Sa)	Sat
	plenum			Unsat Unsat Unsat Unsat Unsat	nsat U	nsat Uns	sat Uns	at Unsat	Unsat Unsat	Unsat Unsat	Unsat	Unsat	Unsat Unsat Unsat Unsat	Jusat U	nsat	Insat
	Vault re-	77	At least one fan/nlenum is in	Sar	<b>3</b>	(Fa)		( <u>2</u> )	Sat	(Zan		Sat	Sat	<u>(S)</u>	(%)	(Sa)
	fan/ plenum	FR-812 Icon red and PDT-841 AP>.050		Unsat U	nsat U	ısat Uns	at Uns	Unsat	Unsat	Unsat	Unsat	Jusat	Jusat	Jusat U	nsat C	Insat

### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

-							( )	-										
	Note			Date:	5/10/13	113	OC-14-13	(1)	She	1/3	5/16	16/15	5/17/13 5/18/13	//3 6	18115		5-1213	2
Gauge read	Gauge readings should be taken on rack #4 in the OC when possible local PDI equivalents may	lken on ra I equivale	ick #4 in nts may	Weekday:	Mon.	Jn.	Tue.	ej.	Wed.	Ġ	, Thu.		Fri	\	Sat	,	Sun.	'n.
be used if n	be used if necessary. Document any alternate	nt any alte	rnate	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
r Dis used.				Initials:	161	9	83	D	18	138	13	88	R	9	1	a	3	9
SRs	Descrintion	Aron		Acceptance					SUF	VEIL	SURVEILLANCE RESULTS	CE R	SOL	LS U				
		WI Ca	Sange	Criteria			(	,	S	at. / L	Sat. / Unsat. (circle one)	(circle	one)			i		(
	Glovebox exhaust header APs	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803- 2 < PDI-804-2	Unsat	Cnsat L	Sar (Say (Say (Say (Sax Unsat	Sat Unsat	Sat Unsat	Chisa <u>at</u>	Sat	(Sat) (Sat Unsat Unsat		Sat Unsat	Sat Unsat	Chisat C	Sa	Sat
4.1.1.4	< laboratory APs < basement APs for areas 100, 200, 300	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	(Sa Unsat	Sat) Unsat	Chsat	(Sat) (Sat/ Unsat Unsat	Cnsat	Onsat	msat [	Sat Cusat	Unsat U	Say Unsat U	Sat	Sat Say Say Unsat Unsat Unsat		Sad Unsat
	and 400	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	Unsat	Chsat	Unsat	Sat	Sat) Sat (Sat) Unsat Unsat Unsat		and Care	Sat	Sat Sat Sat Unsat Unsat Unsat		Sat Unsat U	Sat	Sat	Sat
		400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852- 2 < PDI-854-2	(Salt) Unsat	Chisat	Chisat	Sat	Say (Say (Sat) (Say Unsat Unsat Unsat Unsat	Sat		C C C	Unsat U	Sat Unsat U	Sat (Sat) Unsat Unsat		Sat	Sa
			Completion Time	ion Time									_					
					0729 1970 072 1972 022 0716 1925 0735	8	私。	925	MIO	922	3/16	is c	32	8	730 1	199 0730 1930 6738 1930	352	130

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Date 5-1913 Time 1930 Completed by: Af

On-duty Supervisor Reviewed by:

Comments:

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

i	Note		Date:	5/21/1		68-21-13	5/23	(13	(۱- 27-3		B-24.13		08-25.13	.13	5/20/13	13
Gauge re taken on	Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.		Tue.	M	Wed.	Thu.		Fri.	•	Sat.	ند	Sun.	n.
whenever	whenever possible. Document if		Shift:	AM PM	1 AM	1 PM	AM	PM	AM	PM /	AM ]	PM /	AM	PM	AM	PM
affernate F	alternate PDIs are used.		Initials:	Diro Oiro	8	12	22	9	ડ	\$	8	P	8	3	938	\$
SRs	Description	Gauge Accep	ptance Criteria	7			SUR	VEIL	LANCE (in. wc)	SURVEILLANCE RESULTS (in. wc)	ESU	4				
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc¹	102 101	1 201	2.03	2.97		102-60	·	.7.00	-100	2012	102	1502	20/2
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc¹	ba') (8)	Pt -1.88,	1.89	18	797 189		-1.89	1	-   52 - 1.89		1.87	(2) (	<u></u>
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	1000	85-1-8	199	F.	66)-		-1,86-2.00		861-861-66!-	86	8.	197	8:1-
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	<-1.0 in. wc¹	6.7.	200	18	-(93	20	16.1-	- 199		851-85'!-	85)		67	16
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>	19 JON	٦. ا	70°C	Z,	7.0		9	_	9-		63:-	5	61'-
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	40,00	1.23	J.O	82	73 (	3.			7	72			- 32
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc <sup>1</sup>	to w	7.2.	16.0	اهز		17:	-,22	12:	3.	. 2	3	<b>か</b>	: 22
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc¹	00°0	2	٩-٥٠	Į.	12.	3	2	%I:	ve-	. 03	h:-	3.	3
	IFIT Facility AP	PDI-865-4 or PDI-865-5	<-0.05 in. wc	8.0 P	91:	8°C'	5)	-19	-11	610	00	0	4	6]-	3	- 19
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	600	01.	0,0	0).	3	9,-	60'	18.	0) 15	0	9	do.	01:
4.1.1.3	South basement AP		< 0.00 in. wc	E10' bi	51.	6.0	(3	10	21'-	-(3)	53	.7	. IS'	7 91:-	51.	٠. (د
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	MI O JAY!	크	spio	Ray chi	20.0%	10		1	1.53 [.1	1 9 9	PON' 7 EC1'-	69,	1991:
										-						

### ATTACHMENT A: Per Shift Surveillance Rounds

					(Page 2	님	3)									
·	Note		Date:	5/20/13		65-21-13	3	22/13	5-63-3		<u> </u>	DS-24-12	05-25-12	ū	5/2	5/20/13
Reading	Readings should be taken using FCS screens		Weekday:	Mon.		Tue.	<b>&gt;</b>	Wed.		Thu.	íĽ,	Fri.	Sat.	) <u></u>	Sun.	l i
FMT#15	FMT#151,152,201LD		Shift:	AM	PM A	AM PM	1 AM	I PM	AM	I PM	AM	PM	AM	PM	AM	PM
and 2021 and local p be used if.	and 202LD. Freid vertication and local plenum PDIs may be used if FCS is unavailable.		Initials:	GE C.	(K)	8	\$	9	ડ		28	9	8	3	(100)	9
SRs	Description	Readings	Acceptance Criteria			7	SUIS	RVE	LLA	NCE t. (cir	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	ILTS (e)				
£	200 area re- circulation fan/	FR-801 Icon red and PDT-831 AP >.050 or	At least one fan/plenum is in	Sat	TES.	(gg)	(3)	Sat		(ES)	Sat	Sat	(E)	San	(Sa)	(\$at)
	plenum	FR-802 Icon red and PDT-832 AP > .050	service	Unsat	nsat Un	sat Uns	at Unsa	t Unsa	t Unsa	t Unsat	Unsat	Unsat	Unsat		Unsat Unsat	Jnsat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 $\Delta P > .050$ or	At least one fan/plenum is in	Sail	(E)	(Sal)	Sat		(8)	8	(E)	Saj	(Saf	(Eg	Sat	Sat
	plenum	FR-804 Icon red and PDT-835 $\Delta P > .050$		Unsat U	Unsat Unsat	sat Unsa	Unsat Unsat		Unsa	Unsat	Unsat Unsat Unsat Unsat	Unsat	Unsat Unsat Unsat	Jusat C	Unsat	Unsat
4.1.1.6	300 area re-	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in	Sar	(gag)	Sat Sag	Sat	(Sat	(\$)	3	(ES)	Sat	(E)	(88)	Sat	Sat
	plenum	FR-806 Icon red and PDT-837 AP >.050	service	Unsat Unsat Unsat Unsat Unsat	ısat Un	sat Unsa	rUnsa	Unsa	Unsa	Unsat	Unsat Unsat Unsat Unsat	Unsat	Unsat	Unsat Unsat Unsat Unsat Unsat	nsat (	Jnsat
	400 area re- circulation fan/	FR-807 Icon red and PDT-838 $\Delta P > .050$ or	At least one fan/plenum is in	Sat	Age S	S	(S)			3	<b>©</b>	(Sa)	(3)	(%)	Sat	Sat
	plenum	FR-808 Icon red and PDT-839 AP > .050		Unsat Unsat Unsat Unsat Unsat Unsat	ısat Un	sat Unsa	t Unsat	Unsal	Unsal	Unsat	Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Unsat		Unsat Unsat	Jnsat
	Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$	At least one	Sat	(fey)	li) gat		(ES	Sat	<b>(3)</b>	Sat	(Sa)	(Sat)	Sat	Sat	(\$at
	circulation fan/ plenum	FR-812 Icon red and PDT-841 AP>.050	ran/plenum is in service	Unsat	sat Un	sat Unsa	t Unsaf	Unsat	) Chisal	Unsat	Unsat	Unsat	Jusati	) Jusat U	nsat L	Jnsat

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

						)										-		
(	Note	•		Date:	5/2	5/20/13	05-21-13		5(32) (13		5-23-13		OS.84-13		05-15-13		5/24/13	13
Gauge reactive of the OC when	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	aken on ra Tequivaler	ck #4 in	Weekday:	Mon.	Jn.	Tue.	نه	Wed	j.	Thu.		Fri.		Sat		Sun.	ند
be used if no	be used if necessary. Document any alternate	nt any alte	rnate	Shift:	ΑМ	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
r Dis used.				Initials:	SNAC	m	B	13	Res	Q	3	1 R	8	9	83	3	CAA	9
SRs	Description	Area	Gauge	V		د		7	SUR	SURVEILLANCE RESULTS	LANC	E RE	SUL	2				,
			0	Criteria				(	S	Sat. / Unsat. (circle one)	nsat. (	circle	one)					4
	Glovebox exhaust header APs	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803- 2 < PDI-804-2		Sat Sat Sat Unsat	Unsat	Sat/ Unsat L	Sat	Sat) Sat) Sat) Unsat Unsat Unsat		Cat Unsat U	Sat U	(Sat) Unsat U	Chisat	Sat Unsat U	Sat	Sat Unsat
4.1.1.4	< laboratory APs < basement APs for areas 100, 200, 300	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	Sat Unsat	Unsat	Unsat	Sat Unsat	Sat Unsat L	Sar Unsat U	Sat U	Say Sat Unsat Omsat		Sati Unsat U	Chreat Chreat	Sat	Sat	(Sat Unsat
	and 400	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	Sat Unsat	nsat	Sat	Sat C	(Sat Unsat U	Sat Sat Sat Sat Say Say Say Say Say Cat Unsat Un	Sat U	Say (	Sat Insat U	(Sat U	Unsat	Sat U	Sat (Unsat U	(Sat) Unsat
		400 Area	PDI-864-2 400 Area PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852- 2 < PDI-854-2	(Sat) Unsat	Unsat		&at (	(Sat) (Sat) Unsat Unsat	Sat Insat U	Sat Unsat U	Sat Unsat U	Ohsat U	(Sat/ Ra) Unsat Unsat		Sat Unsat U	Sat (Unsat U	Sat Unsat
			Completi	on Time			7											
					0210	5210 19 19 CUTO	5723	1937	og.u	1930	120	3	kar	350	744	039 3510 HA1 pure 1977 1450 UP1 was up 1941 ecro	136	930

Note: 'Mode 2 acceptance criteria is < 0.00 in. wc Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Date 5-16-13 Time 1930

Completed by: Col US

Date 5-13 Time: 0-900 On-duty Supervisor Reviewed by: Dava

Comments:

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					0	(1 ugo 4 01	,								
:	Note		Date:	5-2-3	Š	5-21-3	<b>ب</b>	61/12	\$1-06-50		5/31/13				
Readings using FC	Readings should be taken using FCS screens		Weekday:	Mon.		Tue.		Wed.	Thu.		Fri.	Š	Sat.	Sun.	n.
FMT#15	FMT#151,152,201LD		Shift:	AM PM		AM PM	I AM	PM	AM F	PM A	AM PM	AM	PM	AM	PM
and 2021. and local p	and 202LD. Field vertication and local plenum PDIs may be used if FCS is unavailable.		Initials:	<u></u> ४	5	. 0	88	B	83	13	9				
SRs	Description	Readings	Acceptance Criteria				Sus	ZVEII at./U	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	E RE	SULTS one)				
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 \( \text{PD} > .050 \) or	At least one fan/plenum is in	Sat Sah	(g)	Sat	(8)	<b>E</b>		(S)	(Sat	Sat	Sat	Sat	Sat
	plenum	FR-802 Icon red and PDT-832 AP >.050	service	Unsat	at Uns	atUns	at Unsa	t Unsat	Unsat Ur	ısat Un	at Unsat	Unsat	Unsat	Jusat	Unsat
	100 area re- circulation fan/		At least one fan/plenum is in	Sat	(g)		(%)	(§	<b>E</b>	Sat Sa	Sat	Sat	Sat	Sat	Sat
	plenum	FR-804 Icon red and PDT-835 △P > .050		Unsat	at Uns	at Unsa	t Unsa	Unsat	Unsat Ur	ısat Uns	at Unsat	Unsat	Unsat	Jusat	Jnsat
4.1.1.6	300 area re- circulation fan/	77	At least one fan/plenum is in	(Sat)			<b>(2)</b>	(E)		TES TES	(SS)	Sat	Sat	Sat	Sat
	plenum	FR-806 Icon red and PDT-837 AP > .050		Unsat	at Uns	at Unsa	rUnsal	Unsat	Unsat Ur	sat Uns	at Unsat	Unsat	Unsat	Jusat	Jnsat
	400 area re- circulation fan/	70	At least one fan/plenum is in	Sat	(8)	(Saft)	Sat	(A)	(8)	(Sala)	(E)	Sat	Sat	Sat	Sat
	plenum	FR-808 Icon red and PDT-839 AP >.050		Unsat Unsat Unsat Unsat Unsat Unsat	at Uns	at Unsa	t Unsat		Unsat Un	sat Uns	Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Jusat	Insat	Jnsat
	Vault re-	<b>D</b>	At least one fan/nlenum is in	Sat	(Sat	(ga)	Sat	S	3	(8)	(S)	Sat	Sat	Sat	Sat
	fan/ plenum	FR-812 Icon red and PDT-841 AP>.050		Unsat	at Uns	at Unsa	tUnsat	Unsat	Jnsat Un	sat Uns	at Unsat	Unsat	Jusat	Jusat	Insat

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

						-	(~ ~ ~ ~ ~ ~ ~ )										i	
(	Note	•		Date:	5.22-13	<u>&gt;</u>	S-X1-S	4	5/20	61/12	05.30.18	8	5/31/13	113				
Gauge read the OC whe	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	aken on ra V equivale	ck #4 in nts may	Weekday:	Mon.	Jn.	Tue.	نه	Wed	, j	Thu.	τ.	Fri.	ga	Sat		Sun.	ü.
be used if n	be used if necessary. Document any alternate	nt any alte	rnate	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
r Dis used.				Initials:	٩	4	ડ	9	SACO.	1/2	100	13	C	9				
SRs	Description	Area	رزمالقو	Acceptance					SUF	SURVEILLANCE RESULTS	LAN	CE RI	SOL	TS				,
		AICA	Cauge	Criteria	(	4		(	S	Sat. Lusat. (circle one)	nsat.	(circle	one;					
	Glovebox exhaust header APs	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803- 2 < PDI-804-2	Sab	Sagara Constant	San (San (Sat) Umsat Unsat	Sag Unsat	(Sat) Unsat	Unsat	Onsat Unsat	S is a second	(Sa Sat) (Sat Sat Sat Unsat Unsat Unsat Unsat	Unsat	Sat Jusat U	Sat	Sat Sat Unsat Unsat	Sat Jnsat
4.1.1.4	< laboratory APs < basement APs for areas 100, 200, 300	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	Signal (Signal)	Say	E T	Sat) Sat) Unsat Unsat	Sat Unsat	Eay (Sa) Unsat Unsat		Sat	Say (Sa) (Sa) Sat Sat Sat Sat Unsat	Sat L	Sat Jnsat [	Sat Jnsat	Sat	Sat Jnsat
	and 400	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	Sat	Chisat	Sa Unsat	Sat Sat Unsat		Sat	Chisat	Hisat (	Say (Sa) Sat Sat Unsat Unsat Unsat	Sa	Sat Jnsat L	Sat Jnsat U	Sat Unsat	Sat Unsat
		400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852- 2 < PDI-854-2	Sat Unsat	Unsat	Sat	(Sat) Unsat	(Sat) Unsat [	Say	Dusat (	nsat Insat	Sat Sat Sat Sat Sat Disat Unsat Unsa	Sat C	Sat	Sat	Sat Unsat I	Sat Unsat
			Completi	ion Time														
					200	8	150 000	3	1920 (26)	1928 OTT 1926 5722 593	7117	are	3777	73)		-		

Note: <sup>1</sup>Mode 2 acceptance criteria is < 0.00 in. wc Note: <sup>2</sup>SRs 4.1.2 x only apply during mode 2 in accordance with LCO 3.1.2.

Date 531-13 Time 1930 Completed by: Q U

Comments:

On-duty Supervisor Reviewed by: Bout Llid

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## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

				Age T)	(1 age 2 01 +)					
			Date:			51113	5-2-13	5.3.13	5-4-13	5-5-5
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			拉	7.	To OT	Ch XX	1
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS	1	0
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			50.	90.	. 05	80,	0.0
	supply filter plenum (HVP-841) ΔP	PDI-894-2	<2.0 &>0' in. wc			. 50	84.	04.	64.	6h '
	South Corridor	<sup>1</sup> PDI-895-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$			90.	.05	٠٥٧	900	70,
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$			1.0	1.0	1.0	1.0	0.1
		<sup>1</sup> PDI-817-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Š		. 2.8	82.	.28	87.	.28
4.1.3.4	300 area glovebox	PDI-817-2	≤2.0 & > 0¹ in. wc	2		3(	.3)	,31	30	.31
	exhaust filter plenum (FF854) AP	PDI-817-4	<2.0 & > 01 in. wc		7	.3(	18.	.3/	-32	,32
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$		く >	38.	.30	.30	,31	.31
	300 area special	PDI-81 9-1	<22.0 & > 0 in. wc			7.	7.	14.	14.	14.
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		)/	14.	7	oh.	14.	15.
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$			36	.35	-35	.36	.35
		<sup>1</sup> PDI-818-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			Star	57(67	STAY	STBY	STRY
4.1.3.4	300 area glovebox	PDI-818-2	≤2.0 & > 0¹ in. wc			575 y	STAN	57.87	5787	27.89
	(FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$			512 y	STAY	STRY	5734	8784
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$			24642	ST6Y	i	573Y	5788
7	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			540 L	YOUS	1	5784	STBY
	exhaust filter plenum	PDI-821-3	$\leq 2.0 \text{ &c} > 0^1 \text{ in. wc}$			Ston	STAY		STBY	8787
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$			Story	डाक्		5784	5784

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

				(rage	(rage 3 01 +)					
			Date:	0		5/1/13	5-213	5.3.13	5-4-13	5-5-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			た	MV	la	1 x	11.00
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)			10
		<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			.62	79.	, 62	591	99.
4.1.3.4	400 area glovebox	PDI-822-2	$ \sqrt{52.0} & > 0^1 \text{ in. wc} $			.51	151	.50	050	15'
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^4 \text{ in. wc}$			24.	71-	. 42	7h'	) 6 '
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$			25.	LH.	64.	bh.	84,
		¹PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Č		M975	STBY	57.87	STBY	STBY
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	2		Story	STEX	STBY	57137	5184
	(FF857) AP	PDI-823-4	≤2.0 & > 0¹ in. wc		1	546y	STBY	5781	5187	87.87
		PDI-823—5	≤2.0 & > 0¹ in. wc			54.5m	5167	57.8%	57137	8784
	South Basement exhaust	<sup>1</sup> PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			.00	09.	. 60	09'	.60
4.1.3.4	filter plenum	PDI-830-2	≤2.0 & > 0¹ in. wc		)/	. 36	.\$5	135	336	. 36
		PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			.31	-31	.3/	131	,3(
	300 area re-circulation	¹PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			. 4o	08.	. 90	.90	06'
	filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$			. 55	.56	. 55	75'	,53
4.1.1.7		PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			.51	25:	-52	15.	15'
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			79.	ر ج وع	.63	.62	,63
	filter plenum ( HVP-806) AP	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$			. 5°O	.50	.50	250	25,
		PDI-837-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc			.56	14.	,45	746	۲۴.

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				.0	(; <u> </u>					
			Date:			5/1/13	5-1-13	5.3.13	5-4-13	5-2-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			拉	NW	eh	0	1900
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		0
	400 area re-circulation	'PDI-838-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			.31	18.	κ.	18.	181
	filter plenum	PDI-838-2	\$2.0 & > 0 in. wc			17.	0H.	04'	ch.	14.
4.1.1.7	17 (100-1411)	PDI-838-3	≤2.0 & > 0 in. wc			.39	86	.38	. 38	1.58
	400 area re-circulation	'PDI-839-1	$\leq 2.0 & > 0^{1} \text{ in. wc}$			.30	18.	.30	,30	,30
	filter plenum	PDI-839-2	$\leq 2.0 & > 0^{1} \text{ in. wc}$	Č		. 42	2ħ.	74.	.42	45,
	1141-000) (31	PDI-839-3	<2.0 & > 01 in. wc	2		_ <del>1</del> .	777	.42	14.	16'
	South Bleed off filter	1-018-IQd <sub>1</sub>	$\leq 2.0 & > 0^1 \text{ in. wc}$			<b>ナ</b>	.16	31'	, الو	511
4.1.3.4	plenum (FF-822A) AP	PDI-810-2	$\leq 2.0 & > 0^1 \text{ in. wc}$			٠٤٤	.48	84.	6h	84'
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc			. 42	9H.	. 45	86'	Lh'
	South Bleed off filter	'PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			Jjo	0任	270	OFF	和。
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$			330	90F	340	OFF	27 C
		PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			वेशे	9PF	OFF	OFF	046
			. Completion Time			5160	0835	1210	9050	6850
)O	OC Operator Review and Page Count Complete (initials)	age Count Comp	lete (initials)			SKS) SX	S. B.	NB	80	1 Sea

'Non TSR requirement:

Date 5-6-13 Time: 093/ Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3. Date 5/5/13 Time 6909 Reviewed by: Completed by

On-duty Supervisor

Comments

## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4) SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:	5-6-13	5.7-13	5-8-13	5-9-13	5-10-3	6/11/13	5/14/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	4.4	79	74	N	44	B	040
	Description / Gauge	Acceptance Criteria		S	SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)		
SR	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	(500)	(200	(500)	(3)	(30)	8	89
4.4.1.1	CP-305-H (LED Reading)		(300)	Soe	(500)	800	300	S S	) (Sa)
	(DET-305-3) – (CP-305H)	Record Calculated Value	200	1000	500	500	800	(X)	(35)
	(LCD Reading) (LED Reading)	> <b>-</b> 0.1; <+0.1	Sat /Unsat.	Satt. TUnsat.	Sat. / Unsat.	Sat /Unsat.	Sat. / Unsat.	KUnsa.	Sat. / Umsat.
		Completion Time:	5180	0 1 60	0731	0827	OBOK	<i>PO15</i>	0283

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

				2	(1 70 7 09 1)					
			Date:	5-6-13	5-7-13	5-8-13	5-9-13	5-12-13	5/11/3	5/11/3
			Weekday:	Mon.	Tue.	Wed.	Thu.	Ŧ.	Sat	Sun.
			Initials:	4.74	27	4	77	T	X	8
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	<b>30</b> .	.05	.05	50.	, 05	100	0.
	(HVP-841) ΔP	PDI-894-2	<2.0 & > 0 in. wc	PH.	64.	64.	67.	67.	bf	64
4134	South Corridor supply (HVP-	<sup>1</sup> PDI-895-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<b>3</b> 0.	. 0.5	9	50.	30,	00	90
	810) AP	PDI-895-2	<2.0 & > 0 m, wc	1.00	1,0	1.0	1.0	0,-	0.	0,7
		'PDI-817-1	≤2.0 & > 0¹ in. wc	82	, 28	, 28	. 28	. 28	378	37,
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	2/2	.31	.31	- m	. A	N	18:
	(FF854) AP	PDI-8174	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.31	.31	١٤,	.31	3	.3/	.37.
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	30	.30	.30	.30	13	3,
7 6 1 7	300 area special	PDI-81 9-1	<2.0 & > 01 in. wc	7.	77.	. 47	Ĭ.	¥.	7	Qh.
4.5.1.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	≤2.0 & > 0¹ in. wc	14.	/6.	14.	14.	)# <u>`</u>	15.	7.
	(FF858) <b>AP</b>	PDI-819-4	$\leq 2.0 & > 0^1 \text{ in. wc}$	.35	,35	3.5	.34	湖	157	.35
		¹PDI-818-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	516/	STRY	ž	,	Stan	86.78	570.2
4.1.3.4	300 area glovebox	PDI-818-2	<2.0 & > 01 in. wc	STAY	57.84	7	Stag	At bur		STRY
	(FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Kals	\$ 180		1	Ston		1, 17.37
		PDI-818-5	≤2.0 & > 0¹ in. wc	\$1 <b>8</b> }	STBY			213m		2 73%
7	300 area special recovery glovebox	PDI-821-1	≤2.0 & > 0¹ in. wc	STBY	STBY			49.45	I	54.82
	exhaust filter plenum	PDI-821-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	5T.By	Stby	Sthy	-	5 1734
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ऽनहर	STBY	5784	Ston	Mon		2645

Surveillance Rounds

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)
(Page 3 of 4)

				(I age	(1 age 3 01 +)					
			Date:	5-6-13	5-7-13	5.8.15	5-4-13	500B	411/13	5/14/2
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	, Sat.	Sun.
			Initials:	Mar	7 ¢	PT	†	TAT	8	CAC.
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS	7	
		<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 67	, 67	, 6.7	49.	.45	17,	15.7
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1$ in. wc	15.	, 5 /	15.	.51	.51	1/5.	.52
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \text{ & } > 0^1 \text{ in. wc}$	17.	14.	14.	24.	24.	\ <b>/</b> \rac{\tau}{\tau}	15,
		PDI-822-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	8H.	60/7	, 48	4.	67,	37,	5h'
		<sup>1</sup> PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBK	5787	STBV	3.4bm	Ston	4 STAY	/ GUE
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STEY	5734	5.181	SHAY	Stoka	18/5	- Service
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	डाहर	\$784	5 7134	hats	Ston	45178	5 P. ST. ST.
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5787	STBY	Sthy	Stery	48/13	STBY
	South Basement exhaust	<sup>1</sup> PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	0.00	65.	. 59	00).	07.	.60	09"
4.1.3.4	filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0 \& > 0^4 \text{ in. wc}$	.35	.35	3.5	.36	.34	35	355
		PDI-830-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	15.	1 12.	3	.31	.31	12	, 3(
	300 area re-circulation	1-928-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<b>68</b> .	06.	300	06'	06,	16'	of.
	filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.55	, 55	, 55	. 56	.56	56	175.
4.1.1.7		PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15.	, 5 /	15.		15.	15,	15.
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	29,	, 62	. 6 2	.63	.63	.63	5.93
	filter plenum (HVP-806) AP	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	. 50	, 50	.50	.50	14,	15.
		PDI-837-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	۲4.	87,	. 48	トカ・	Lħ.	4	84.

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

			Date:	5.6.13	5.7.13	5-8-13	5-9-13	5-10-13	5/11/2	1/14/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	MM	7 6	Tœ	T CX	PA A	18	(A)
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS	J	
	400 area re-circulation	'PDI-838-1	≤2.0 & > 0¹ in. wc	18.	18.	, 3)	.31	18.	12'	,31
	filter plenum	PDI-838-2	\$2.0 & > 0 in. wc	04.	04.	( 4 )	.40	.4.	16'	lh'
4.1.1.7		PDI-838-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,38	65,	98.	38.	. 38	bE'	,39
	400 area re-circulation	<sup>1</sup> PDI-839-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	, 30	131	.30	. 30	12,	.3°
	filter plenum	PDI-839-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	44.	2 /1.	. 42	24.	.42	.42	74.
	( KIVI -000) (MI	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	74	. 42	. 42	24.	.42	1/2	71,
	South Bleed off filter	'PDI-810-I	$\leq 2.0 \text{ &> } 0^1 \text{ in. wc}$	51	15	, 15	.75	.15	18	<u>&gt;</u>
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 & > 0^{1} \text{ in. wc}$	.45	sh'	87	87.	Lti	as:	94.
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc	Mh,	. 45	44.	st.	54.	Ch'	343
	South Bleed off filter	<sup>1</sup> PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	50	0 2 6	OFF	6KF	450	OFF	J42
4.1.3.4	plenum	PDI -811 -2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	りの	OFF	930	2740	10	OFF	750
	10 (970-11)	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	SPS	OFF	OFF	班	750	OFF	<i>ع)ز</i> د
			. Completion Time	0901	2739	0728	4160	0836	45%	C8-45
OC .	OC Operator Review and Page Count Complete (initials)	age Count Comp	_	N OCO	188	A RE	Contract of the second	280	Se Se	10 July 10 Jul
				1		X				

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Date 3/1/3 Time CO-15 Reviewed by: Con Completed by: Completed

FACS ODS Comments

Date: 5-13-13 Time: 6733

Surveillance Rounds

## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:	5-15-13	8-13-13 51-51-3	5-15-13	Fr 11 -13	5-17.13	5/2/2/2	5-19-12
-		Weekday:	Mon.	Tue.	Wed.	Thu.		Sat.	Sun.
		Initials:	-was	75.	MA	L B	74	PT	PT
	Description / Gauge	Acceptance Criteria		S	URVEILLAN	SURVEILLANCE RESULTS (percentage)	(percentage)		
g	Flammable Gas Channel Check								
NC	DET-305-3 (LCD Reading)	NA A	<b>(00)</b>		(200)	(500	500	605	0003
4.4.1.1	CP-305-H (LED Reading)		500	000	(200)	500	603	(500)	000
	(DET-305-3) – (CP-305H)	Record Calculated Value	(A)	(500)	3000	(500)	603	(200	(500)
	(LCD Reading) (LED Reading)	≥ <b>-0</b> .1; ≤+0.1	Sat, / Unsat.	Sat Ungit	Sat Unsat.	Sat.	sat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0718	0830	<b>७</b> नस्द	8/80	0220	0830	0736

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)
(Page 2 of 4)

				(I age	(1 age 2 01 +)					
			Date:	5-13-13	5-14-13	5.15-13	5-16-13	5-17-13	5-18-13	5-19-13
-			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	mu	I	ma	74	79	PT	74
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> -PDI-894-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<b>50</b> .	50.	30.	9	9	٥	90.
	supply filter plenum (HVP-841) AP	PDI-894-2	$\leq 2.0 R > 0^1$ in. wc	g. 7.	bh.	<i>6</i> T,	67.	.50	. 50	6
	South Corridor	<sup>1</sup> PDI-895-1	$\leq 2.0 \& > 0^{1} \text{ in wc}$	.05	20.	90.	90	٥	90.	.06
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	1.00	00'1	1-00	00.7	1.02	1.02	1,04
		<sup>1</sup> PDI-817-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	82	. 28	62.	,18	, 28	28	38
4.1.3.4	300 area glovebox	PDI-817-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	3	18.	18:	12'	18.	.3)	, sc.
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq$ 2.0 & > 0 in. wc	18.	31	.3)	. 31	131	12.	18.
		5-718-IQd	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	.30	. 30	130	. 30	06.	. 30
	300 area special	PDI-81 9-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	<b>0</b> 14.	1	.41	14.	. 47	14:	76.
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-819-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Iħ.	. <del>L</del>	14	161	16.	14.	( , ,
	(FF858) AP	PDI-819-4	≤2.0 & > 0¹ in. wc	.35	.35	.35	3,5	.35	. 35	3.5
		<sup>1</sup> PDI-818-1	≤2.0 & > 0¹ in. wc	STEY	21Pm	STBY	STRY	SrBy	5184	5 7.87
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	डाक्रा	Sibur	5167	STBY	STRY	5781	5787
	exhaust filter plenum (FF855) AP	PDI-818-4	<2.0 & > 01 in. wc		Story	S187	4 8 Y S	57.84	5784	5 7.8 v
		PDI-818-5	<2.0 & > 01 in. wc		St. Burg	SABY	STBY	5184	5784	57.84
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STEN	Stbu	STBY	5 TR 4	5 T.B.y	STBY	5 7 8 4
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1$ in. wc	डाक्र	Stbw	STBY	STBY	5784	57.84	57.8 %
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	St. Buy	डाक्र	57.84	\$ T.6 Y	5187	8787

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

				Age ()	(1 age 3 01 +)					
			Date:	5-18-13	5-1413	5-15-13	5-16-13	5.17-13	5-18.13	5-19-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	ww	400	7.16	77	P	tæ	74
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	79.	.63	5	.67	.63	59.	59.
4.1.3.4	400 area glovebox	PDI-822-2	$<2.0 &> 0^{1} \text{ in. wc}$	.50	.51	.51	12,	/ 57 •	18.	
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	24.	42	24.	. 42	. H 2	7 75 .	14,
		PDI-822-5	$\leq 2.0 \& > 0^{1} \text{ in, wc}$	61.	647	P)4.	57.	64.	2	6 /1 .
		<sup>1</sup> PDI-823-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. we	डाक्र	Story	5187	5784	5784	STRY	STBY
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	4454	STBY	57.8Y	57.84	STRV	5787
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	SIBY	5th-1	SIBY	5787	57.124	54134	5 + 84
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	61.3m	STBY	57.84	STBY	5784	5 + 84
	South Basement exhaust	¹PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	٥٩.	. 40	09:	, 58	, 58	85,	,57
4.1.3.4	filter plenum	PDI-830-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.35	. 34	35	. 34	,34	176.	. 34
		PDI-830-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.30	.3	.3(	12.	.31	.31	.30
	300 area re-circulation	<sup>1</sup> PD <b>I-</b> 836-1	≤2.0 & > 0 <sup>1</sup> in. wc	90	.90	ob.	1.90	. 90	06.	. 90
	filter plenum	PDI-836-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.55	.55	95.	15,	, S. 5.	. 55	, \$5
4.1.1.7	(200 144)	PDI-836-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.52	.52	.52	,52	. 52	. 9.	. 51
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	69.	. 63	.w3	, 63	,63	,62	. 4 %
	filter plenum	PDI-837-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.50	,50	o\$.	051	,50	.50	. 50
	(000 111)	PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	Lh.	. 47	۲4.	84.	747	140	84.

Surveillance Rounds

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### ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

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				2	(: =2 -2 = 1)					
			Date:	5-13-13	5-14-13	5-15-13	5-16-13	5-17-13	5-18-13	5-19-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.		Sun.
			Initials:	MM	ta	A.M.	14	7 9	PT	7 7
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	400 area re-circulation	I-828-IQd,	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	18.	18.	.37	.31	.3/	18,
	filter plenum	PDI-838-2	$\leq 2.0 R > 0^1$ in. wc	٥٣٠	46	(h·	14.	14.	14.	(7)
4.1.1.7	W (100-14H)	PDI-838-3	<2.0 &>01 in. wc	98.	88.	87. 80.	. 38	ι. 88	80	5 N
	400 area re-circulation	1-683-Id <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in, wc}$	16.	18.	.31	181	.91	.31	,3/
	filter plenum	PDI-839-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	12	. 42	2h.	.42	24.	.42	. 42
	M (000-1411)	PDI-839-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	217	74.	2H.	. 42	142	.42	, 42
	South Bleed off filter	'PDI-810-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.15	51	H.	<i>F1</i> ·	8/.	\$1,	. 15
4.1.3.4	plenum (FF-822A) AP	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc	.⊬S	45	. 45	767	8 7 1	. 7.	8.
	(	PDI-810-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.43	11	2H.	141	14	hh.	5 /7 .
	South Bleed off filter	'PDI -811 - 1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	0年	7,500	0年	OFF	7 70	ořf	07.7
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	好	315	0 12 12	320	068	OFF
	10 (9770-11)	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	940	0件	OR	OFF	067	0 7 75	0 6 6
			. Completion Time	2410	500	0818	0.881	0722	5 HL 0	0731
00	OC Operator Review and Page Count Complete (	age Count Comp	lete (initials)	25	19 78	080	040	1 83	18	ડ

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Date 5-30-8 Time: 1107 Completed by: fand Thy Date 5-19-17 Time 5171 Reviewed by: 200

Comments

## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)
(Page 2 of 4)

				Q	(1 ago 2 or T)					
			Date:	5/20/13	5/12/5	5-22-13	5/23/13	5/24/13	5/25/13	5.76.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	dw-	t	m	٧)	TA	(MC	97
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	50.	90.	20°.	50	. 05	100.	80
	supply filter plenum (HVP-841) AP	PDI-894-2	$<2.0 &>0^{1} \text{ in. wc}$	ьн.	. 50	05.	95	.50	340	.50
	South Corridor	<sup>1</sup> PDI-895-1	≤ 2.0 & > 0 in wc	90'	٠ ٥٦	90.	90.	10.	Lo	70.
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in wc}$	101	707	1.02	1.06	1.09	1.09	<u>.</u>
		1-718-IQd1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	7.8	.28	£.	.28	stay	They.	21.00
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	3/18	.31	.31	i¢.			STBY
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.3/	.31	.31	.3.			STEY
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	62.	. 30		Stry	There	STBY
	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	14,	チ	OH.		Stby	The	STBY
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	lh*	17.	भूत	16.	5234	Strong	इन्हे/
ÿ.	(FF858) AP	PDI-819-4	$\leq$ 2.0 & > 0 <sup>1</sup> in, wc	36	.34	35	.35	Stby	,	STEY
		<sup>1</sup> PD <b>I-</b> 818-1	$\leq 2.0 \& > 0^4 \text{ in. wc}$	SrBv	2444	STBY	STBY	+2·		42.
4.1.3.4	300 area glovebox	PDI-818-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		5264	STBY	STBY	.30	.30	.30
	exhaust filter plenum (FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$		5-254	STAN	578>	.3 (	,32	.32
		PDI-818-5	≤2.0 & > 0¹ in, wc	STBY	5604	STEY	57.87	. 28	81.	82
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Srov	Selle	STIEY	57.137	.4°	540	۰40
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1$ in. wc	S7.BY	Seby	STON	ST89	. 45	.43	512
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1$ in. wc	STBV	Sep.	57.67	STBY	.3/	35,	.38

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 3 of 4)					
			Date:	5/20/13	5/21/13	5-22-13	5/13/13	5/24/13	5/25/13	05.26.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	an	<del>4</del> 5	٨٠٨	Ar.	孟	ONG	8
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SZULTS		
		<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.70	10).	lo).	59.	निष्	5484	STBY
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 & > 0^1 \text{ in. wc}$	.51	18.	15.	.51	hs.	Stery.	STBY
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^4 \text{ in, wc}$	.42	) <del> </del> -	.42	42	Stery	Stry	STBY
		PDI-822-5	<2.0 & > 0 in. wc	94.	64-	.49	, 49	dt.	hats	STBY
		¹PD <b>!-</b> 823-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	57.8 X	54.by	5187	STBY	69.	183,	80
4.1.3.4	400 area glovebox	PDI-823-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	भग्ना	Stby	STBY	ST37	. 25	2,5	7h
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.84	19-15-15	STBY	5701	87.	&h.	Sh.
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	27.8 1	\$15a/	STES	STBY	64.	bh.	6h.
	South Basement exhaust	¹PDI-830-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.e.	.56	.56	56	. 54	,55	75
4.1.3.4	filter plenum	PDI-830-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.36	.36·	.35	.35	.32	.32	32
	157 (770-11)	PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	.30	.30	.30	.30	,30	30
	300 area re-circulation	<sup>1</sup> PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.89	.89	500.	58	.89	,89	.89
	filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	35.	72.	55.	.53	. 52	35	.55
4.1.1.7	(200	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	75.	.51	.52	.51	.52	550	15.
	300 area re-circulation	¹PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	4-5/20	٤٩٠	.63	.62	.63	29°	79
	filter plenum	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	. 50	.50	50	200	57,	.50
		PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	48	۲4٠	.47	90	:45	8r.	7h.

#### ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) Surveillance Rounds

(Page 4 of 4)

				, G ")	(, to : com =)					
			Date:	5/20/13	6/21/13	5-12-13	5/13/13	5/24/13	5/24/3 5/25/3 05.26.13	05.26.13
			Weekday:	Mon.	Tue.	Wed.	Thu	Fri	Sat.	Sun.
			Initials:	Jun-	危	Non	4m	N U	CAC	8
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	¹PDI-838-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	.3	8.	15,	18.	15.	.31
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^1$ in. wc	947	7.	) <del>1</del> .	14:	.40	٦,	5
4.1.1.7	17 ( 100 - 111 )	PDI-838-3	$\leq 2.0 & > 0^1 \text{ in. wc}$	39	.38	.38	.39	.38	0 7,	.39
	400 area re-circulation	<sup>1</sup> PDI-839-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	ŵ.	.30	.30	.3 (	.3&	.30
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.41	. 42	77.	۲4.	.42	27,	42
	( II V I -000) MI	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	3	14.	54.	.41	17.	F.	14.
	South Bleed off filter	<sup>1</sup> PDI-810-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	91.	51	71.	71.		81,	<u></u>
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc	64.	84.	.50	.50	. 50	ئر,	S.
		PDI-810-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	87.	24	94.	44	65.	520	S.
	South Bleed off filter	¹PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	To	OFF	££0	330	250	740
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	off	370	出	£50	St.	OAF	## ## ## ## ## ## ## ## ## ## ## ## ##
		PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	off.	THE	9.F\$	230	Ho	966	<b>3</b>
			Completion Time	9169	2510	2580	2836	7060		1063
)O	OC Operator Review and Page Count Complete (initials)	age Count Comp		,	200 KB	C. A	13			CAN CAN

<sup>1</sup>Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Date 3-12 Time: 0902 Date OSZ643 Time 6901 Reviewed by: Will Completed by:

Comments

# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:	Date: 5-27-13	5/18/13	5-29-13	5-29-13 5-20-13 5-51-13	5-31-13		
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	d	J.r.	74	7 9	14.74		
	Description / Gauge	Acceptance Criteria		S ,	SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)		
SR	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA.	Soo.	500	Soc		(200		
4.4.1.1	CP-305-H (LED Reading)		800	5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		800		
	(DET-305-3) – (CP-305H)	Record Calculated Value	300	200	(50%)	300	(\$00)		
	(LCD Reading) (LED Reading)	> <b>-0.1</b> ; <-+0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. /Unsat.	sat.	Sat. / Unsat.	Sat. / Unsat. Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	, V	4060	0751	0752	5490		

Surveillance Rounds

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

				20, 1	(1 n2 n2 1)					
			Date:	5-27-13	5/28/13	5-29-13	5-30-13	5-31-13		
			Weekday:	Mon.	Tue.	Wed.	Thu,	Fri.	Sat.	Sun.
			Initials:	×	~! p	74	70	*		
SRs	Description	Gauge	Acceptance Criteria	0		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 05	CO.	0	3	90		
	supply filter plenum (HVP-841) AP	PDI-894-2	$<2.0 R > 0^1 \text{ in. wc}$	. 50	05	0 5	. 50	50		
	South Corridor	<sup>1</sup> PDI-895-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 08	80.	\$ \$0 •	0	80		
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	1.1	1.1	[:]	) - i	1.10		
		<sup>1</sup> PDI-817-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5784	57.84	5784	5 7134	57.67		
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5707	Y BYS	5787	1572	ST6Y		
	exhaust filter plenum (FF854) AP	PDI-817-4	≤2.0 & > 0¹ in. wc	5 TBY	57.13 Y	1875	578"	STBY		
		PDI-817-5	≤2.0 & > 0¹ in. wc	5787	57.37	5784	5784	STBY		
	300 area special	PDI-81 9-1	≤2.0 & > 0¹ in. wc	5784	2773.9	STBY	5787	STEX		
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5734	4025	5784	5787	STGY		
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	51137	27.3 4	5784	5784	STEX		
		<sup>1</sup> PD <b>i</b> -818-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, ब्रम	42,	, 2 y	1.24	.24		
4.1.3.4	300 area glovebox	PDI-818-2	<2.0 & > 01 in. wc	.31	.30	.30	3.0	.30		
	cxnaust niter plenum (FF855) AP	PDI-818-4	<2.0 & > 01 in. wc	, 32	.32	.32	. 3.2	18.		
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 28	82.	. 28	84	2		
	300 area special	PDI-821-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	oh °	39	92,	39	0F.		
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \text{ & > 0}^1 \text{ in. wc}$	° <u>13</u>	.45	5 1/1 3	54.	.45		
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1$ in. wc	,39	39	6	20.00	.39		

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

				age I)	(1 ago J 01 +)					
			Date:	5-27-13	5/18/13	5.29.13	5-30-13	5-31-13		
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	P	J. J.	4	7.4	2		
SRs	Description	Gauge	Acceptance Criteria	9		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	×878	5784	5786	<.TBV		
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5734	57.3 4	57.84	1 2 T X	Street		
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 & > 0^1 \text{ in. wc}$	4878	1872	5784	STAV	V3/I&V		
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	1818	hals	5784	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	STAN		
		<sup>1</sup> PDI-823-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	58°	62.	7 90	78	\$		
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	₹,	SH	.45	, 42	25		
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 48	84.	00	8 5	90		
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,50	64	64.	67,	S		
	South Basement exhaust	<sup>1</sup> PD <b>I-</b> 830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 56	,56	95.	95.	23		
4.1.5.4	filter plenum (FF-829) AP	PDI-830-2	<2.0 & > 0 <sup>1</sup> in. wc	,33	W.	32	.32	6		
		PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,30	.30	( ) E	°	12		
	300 area re-circulation	<sup>1</sup> PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	88,	80	80	500	90		
	filter plenum (HVP-805) AP	PDI-836-2	<2.0 & > 0 <sup>1</sup> in. wc	,55	.55	, 55	. S. S.	20.		
4.1.1.7		PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,51	151	12.	i	.52		
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	१६३	19.	9	e .	3		
	filter plenum (HVP-806) AP	PDI-837-2	<2.0 & > 01 in. wc	,50	.50	. 50	. 50	.50		
		PDI-837-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	o t ë	94,	46		L. 7.		

Surveillance Rounds

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

			Date:	5-27-13	5/18/13	5.29.13	5.36-13	5-31-13		
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	1/2	J. S.	70	7 8	N. N.		
SRs	Description	Gauge	Acceptance Criteria	0		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	<sup>1</sup> PDI-838-1	$\leq 2.0 \text{ & > 0}^1 \text{ in. wc}$	,31	.3/	15.	1 2	2,		
	filter plenum	PDI-838-2	≤2.0 & > 0 in. wc	040	.40	1/5"	(4.	OT		
4.1.1.7	( H V F -007.) ΔΓ	PDI-838-3	$\leq 2.0 \text{ & > 0}^{-1} \text{ in. wc}$	.38	.37	.38	38	2.0		
	400 area re-circulation	1-688-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32	,30	.30	.3)	.3.		
	filter plenum	PDI-839-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	4	74.	.42	. 43	74.		
	( 11 V X -000) CAF	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	4 7	42	.42	, 473	24		
7	South Bleed off filter	1-018-IG4,	$\leq 2.0 \ \& > 0^1 \ \text{in. wc}$	X.	4	71,	. 17	81		
4.1.3.4	plenum ( FF-822A) AP	PDI-810-2	$\leq 2.0 \& > 0^{1}$ in. wc	05.	50	, 5/	. 57	.52		
		PDI-810-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	05°	25.	02.	05.	١٠		
	South Bleed off filter	¹PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	270	330	740	OKE	340		:
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	J=10	550	OFF	7	Į.		
	(F 044B) M	PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	0 = 4	550	O PAGE	0 76	086		
			n Time	4480	1003	0757	7080	0100		
00	OC Operator Review and Page Count Complete (initials)	age Count Comp	lete (initials)	ક	)		80	A (2		

Non TSR requirement:

Note; SR 4,1,1,7 applies during mode 1 as stated in LCO 3,1,1. SRs 4,1,3,X apply during mode 1 and mode 2 as stated in LCO 3,1,3.

Just Date: 6 3-13 Time: 0905 Reviewed by: Box 1 Completed by: Walaw Mantiga Date 3-81-13 Time Orogo

On-duty Supervisor Comments Flymmable

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 1 of 4)

				(1 mg/	(1 ugo 1 01 T)					
			Date:			5-1-13	5-2-13	5-3-13	1.3001/g	05/05/b
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
:			Initials:			74	TA N	T	A A	XX X
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		<i>y</i>
	Vault re-circulation	<sup>1</sup> PDI-840-1	$\leq 2.0 & > 0^1 \text{ in. wc}$			5787	Stby	Sthy	Stay	*
	filter plenum (HVP-811) AP	PDI-840-2	≤2.0 & > 0 in¹. wc			57.87	Stour	CH2N		745
		PDI-840-3	≤2.0 & > 0¹ in. wc			5 7.84	Stony	445		如
4.1.1.7	Vault re-circulation	¹PDI-841-1	$\leq 2.0 \& > 0^1 \text{ im. wc}$	<i>,</i> (		,45	. 45	-45	SH:	37
	filter plenum	PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc			,52	.52	.52	53.	Ø.
	VF7 (#10-11-1)	PDI-841-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc			, 50	. 50	.50	.50	50
	200 area re-circulation	<sup>1</sup> PDI-831-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc			,32	.32	. 32	А	Q
	filter plenum	PDI-831-2	≤2.0 & > 01 in. wc			14.	14.	14		( Q
		PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			3.5	. 35	. 35		HE.
	200 area re-circulation	<sup>1</sup> PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		)/	1,23	72.	+2.		47.
	filter plenum (HVP-802) AP	PDI-832-2	\$2.0 & > 01 in. wc			(3)	12.	.51		52
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			64.	. 49	49	Ь.	¥
,		<sup>1</sup> PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			///	. 1/L	11.		-
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$			08.	80	- 8C		.80
	(FF-820A) $\Delta F$	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			64.	4.	449	مہ	G.
	North Bleed off filter	1-809-I	$\leq 2.0 \& > 0^1 \text{ in. wc}$			OFF	330	\$ CT.		OP &
4.5.3.4	plenum (FF-820B) ∆P	PDI-809-2	≤2.0 & > 0¹ in. wc			OFF	oft	332	770	eff.
		PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			720	270	370		940

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 2 of 4)

				(rage	(rage 2 01 4)					
			Date:			5-1-13	52-13	5-3-13	90/HD/SO	21/20/50
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			15	I	B	105	<b>1</b> 3
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		/
	9	<sup>1</sup> PDI-829-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$			, 0	10.	70.	90	90
4.1.3.4	filter plenum (FF-828)	PDI-829-2	<2.0 & > 0' in. wc			12.	62.	62.	A	न
	1	PDI-829-3	<2.0 & > 0 <sup>1</sup> in. wc			.20	92.	72.	اخ.	1 7
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq$ 2.0 & > 0 in. we			16.	.92	16.	٦١/	۴.
	filter plenum (HVP-803) AP	PDI-833-2	$\leq 2.0 \& > 0^{1} \text{ in. wc.}$	5		84.	ナナ.	L+-	LH	ŢX.
4.1.1.7		PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			۴4,	<del>++</del> .	寸.	HH	手
	100 area re-circulation	¹PDI-835-1	≤2.0 & > 0¹ in. wc			: /3	.13	.13	13	а.
	filter plenum (HVP-804) AP	PDI-835-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$			<i>.</i> 44	.45	丰.	भूभः	44
		PDI-835-3	≤2.0 & > 0¹ in. wc			, 41	ーナ・	<u>-</u>	Oh'	Oh:
		<sup>1</sup> PDI-815-1	≤2.0 & > 0 <sup>1</sup> in. wc		)/	STBY	Stor	other		Х445
4.1.3.4	100 area glovebox	PDI-815-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc			STRV	5+bu	Staby		ZHAV
	exhaust niter plenum (FF852) AP	PDI-815-4	≤2.0 & > 0¹ in. wc			5 7 8 V	MATS	SKEN		Stby
		PDI-815-5	≤2.0 & > 0 in. wc			5 7 84				Stbv
		<sup>1</sup> PDI-816-1	<2.0 & > 0 <sup>1</sup> in. wc			, 35				25
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$			, 42	<b>*</b>	.44	44	CH.
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc.}$			26.	.42	.45	书	2H.
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$			. 42	.45	.45	.4S	34

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

				(Sm T)	(1 TO C 09m 1)					
			Date:			5-1-13	5-2-13	5-2-13 5-3-13 BELOWA	estants	05/05/13
	39		Weekday:	Mon.	Tue.	Wed.	Thu.	Fni.	Sat.	Sun.
	14		Initials:			74	PH.	RIT	13.	13
Description	ption	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
00 area	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			hi.	せこ	<b>41.</b>	丰	支
haust fill (FF850	exhaust filter plenum (FF850) AP	PDI-812-2	$\leq 2.0 & > 0^1 \text{ in. wc}$			. 32	.32	.32	بم	.33
		PDI-812-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			,32	. 32	.32	. cs.	2
		PDI-812-4	$\leq 2.0 \text{ & > 0^{1} in. wc}$			18.	.3 <u>.</u>	ĬĔ,	6.	187
		PDI-812-5	$\leq 2.0 & > 0^{1} \text{ in wc}$			. 29	.30	.30	۶	20
00 area g	200 area glovebox	<sup>1</sup> PDI-813-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	~(C)		STRY	4442	र रहे	子	7
haust filter ple: (FF851) △P	ter plenum ) ΔP	PDI-813-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc				Stlyr	Stan	美	X457
		PDI-813-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc				Stby	4975	£,	并
		PDI-813-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc			STRY	Stbw	Sterr	<b>F</b>	ŧ
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$			57.84	Stby	4.6.	务	#
IFIT exhaust	chaust	<sup>1</sup> PDI-865-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			. 0 3	. 63	. 03	76	2
(FF-865) AP	5) AP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		)/	131	.35	.35	7 27	3)
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			39	.42	. 42	7	CA.
IFIT supply filter plenum	pply enum	<sup>1</sup> PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$			. مج	30,	.05	20.	Ŕ
(HVP-863) AP	63) AP	PDI-863-2	<2.0 & >01 in. wc				7.	<u>구</u>	5	1

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 4 of 4)

				9m r)	(1 10 1 0gm 1)					
			Date:			5-1-13	5-2-13	5-3-13 05/04/13	et/ho/so	6808V3
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			74	盂	N N	53.4	Constant of the second
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	SULTS	/	/
4134	North Basement supply filter plenum	1-728-IQq¹	$\leq 2.0 \& > 0^1 \text{ in. wc}$			. 12	11.	11.	1:	17.
4.L.J.4	(HVP-840) ΔP	PDI-857-2	$\leq 2.0 & > 0$ in. wc			63.	6th.	49·	<b>F</b> .	4
4.1.3.4	North corridor supply filter plenum	'PDI-856-1	≤2.0 & > 0¹ in. wc			h0.	.03	. 63	.0\$	. 03
	(HVP-809) ΔP	PDI-856-2	$\leq 2.0 \text{ & > 0}^{1} \text{ in. wc}$			. 69	69.	601.	<b>b"</b>	<b>3</b> 5.
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE822C, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	OR		N & Y	SAT	sat	tis	435
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less		AIO	5.47	148	tyn	ま	技
			Completion time			5/60	6190	5080	0456	0647
	OC Operator Rev	view and Page Co	OC Operator Review and Page Count Complete (initials)		,	2 5	a long	8/10	4 1	4
Note: SR 4.1	Note: SR 4.1.3.4 applies during mode 1 and mode 2.  Completed by: Nidwel T. A. Date Off R. Time O'UN	1 and mode 2.	5904 Reviewed by	Sara	On-duty Supervisor	Date 5 to 13 Time: 092	Time: 0935			Z.
Commonts.										

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 1 of 4)

				(rage	(rage 1 01 4)					
			Date:	5-6-13	5-7-13	5.8.13	5-9-13	5-10-13	5/11/3	5/14/2
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	MY	74	7 4	J	丙	(A)	0//0
SRs	Description	Gauge	Acceptance Criteria	i		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS	) J	
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5 TBY	STBY	Stow	STBY	35/24	57134
	filter plenum (HVP-811) AP	PDI-840-2	\$2.0 &> 0 in!, wc	5167	STBY	STBY	Stbu	STBY	2434	5707
		PDI-840-3	<2.0 &>0' in. wc	STBY	5784	STBY	Steby	STBY	5734	इम्छेर
4.1.1.7	Vault re-circulation	<sup>1</sup> PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in, wc}$	નહ	45	. 4 S	.45	54٠.	5/5	,5,
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	25	.52	.52	.52	.52	52	25.
	IK7 (710-1411)	PDI-841-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	95.	. 50	.50	.50	.50	50	50
	200 area re-circulation	¹PDI-831-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.31	7.32	.32	.32	.33	32	32
	filter plenum	PDI-831-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	۰40	6.40	04.	. <del>L</del> O	0 <del>1</del> ,	5	F.
		PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	356.	. 35	. 35	.36	73,	.35
	200 area re-circulation	¹PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.23	. 14	24	.24	7.2.T	24	47.
	filter plenum (HVP-802) AP	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.51	.52	, 52	.52	.52	12	.52
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 49	84.	44.	64.	PH.	65	うけ。
		<sup>1</sup> PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.11	, 11	11.	11	÷	11	-
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.40	80	08.	· 80	.80	86	3
	(FF-820A) △P	PDI-807-3	≤2.0 & > 0¹ in. wc	57.	64.	64.	677.	Ph.	64'	50
	North Bleed off filter	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	- <del>1</del> 0	OFF	OFF	089	OFF	OFF	700
+:C:1+	plenum (FF-820B) ∆P	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	OFF	OFF	OFF	OFF.	200	246
		PDI-809-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	O FF	016	OFF	OFF	OFF	150	chc

ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
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				20m x)	( = = = = )					
			Date:	5-4-13	51-2.5	5-8-13	5-9-13	5-10-13	5/11/13	5/14/3
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
8			Initials:	nm	Id	7.4	ta	YM	by	CAC:
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		
	North Bosons	<sup>1</sup> PDI-829-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	90.	90'	70.	40.	10.	10'	20,
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	22.	. 22	1.23	. 23	۲3.	47)	hz
		PDI-829-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	02.	,2/	. 21	12.	12.	12	77
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	16	.91	(6)	16.	18.	۱۹.	5
	filter plenum (HVP-803) AP	PDI-833-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	HT	84.	86.	14.	Lh,	140	33
4.1.1.7		PDI-833-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	. 45	34.	. 45	.45	.AS	,45	157
	100 area re-circulation	¹PDI-835-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.13	51.7	. 13	.13	.13	. /3	.13
	filter plenum (HVP-804) AP	PDI-835-2	<2.0 & > 0 in. wc	3. 3.	.45	, 4.5	.45	.45	.75	SH'
		PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	٠40	٠,	. 41	17.	) <del>\</del>	oh.	. cic.
-		<sup>1</sup> PDI-815-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	5784	STRY	5434	\$187	5 1/24	5787
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5784	3784	Stby	STBY	5.7.3	۲۶۹۶
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 & > 0^1 \text{ in. wc}$	STBY	5787	STRV	Stby	STAY	5/124	7575
	-	PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	S-167	57.87	STBY	4545	STBY	18/18	STBT
		1-918-IQd <sub>1</sub>	$\leq 2.0 & > 0^1 \text{ in. wc}$	.38	85.	.38	. 38	.31	.36	5.7.
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	ν.	. 45	, 45	7.	ي. دي.	146	, H.S
,	exhaust filter plenum (FF853) AP	PDI-816-4	<2.0 & > 01 in. wc.	14.	, 45	۷, ۲۶	.45	. <del>(</del> 5	. 44	١٤٠٤,
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	۲۳.	45	3 1,	.45	. HS	pp.	'AS

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 3 of 4)

				0	,					
			Date:	5-10-13	5-1-13	5.8-13	5-8-13 5-9-13	5-10-13	8/11/13	5/11/5
	120		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			. Initials:	W Y	74	79	T	XX.	B	U,YU
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<b>3</b> -	61.	41.	#:	3.	14	
	exhaust filter plenum (FF850) ΔP	PDI-812-2	$\leq 2.0 &> 0^1 \text{ in. wc}$	,31	131	131	.3 (	181	12.	. 32
4.1.3.4		PDI-812-3	$\leq 2.0 \& > 0^1 \text{ in, wc}$	.31	.31	.31	.3/	18:	١٤٠	132
		PDI-812-4	$\leq 2.0 \& > 0^4 \text{ in. wc}$	.3,1	.3)	.3/	18.	15.	,3,	,31
		PDI-812-5	$\leq 2.0 \& > 0^1 \text{ in, wc}$	92.	. 29	. 29	62.	62.	49	,29
	200 area glovebox	<sup>1</sup> PDI-813-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5 1 8 4	5787	445	5T8Y	484	-STRY
	exhaust filter plenum (FF851) ΔP	PDI-813-2	≤2.0 & > 0 in. wc	STBY	STBV	57.84	4124	STBY	199	रिक्री
4.1.3.4		PDI-813-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5737	5784	Stby	STEY	54.24	5737
		PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5784		5464	STLBY	57.64	5000
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STAN	5 5 84	STRY	Stby	STBY	57,24	STBY
,	IFIT exhaust	I-598-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.03	\$0,	, b d	.03	.03	.03	1.0.
4.1.3.4	(FF-865) AP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	. 3.2	.35	.32	.35	رج.	3%
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	9	14.		₹.	7.	04.	40
	IFIT supply filter plenum	¹-863-I	$\leq 2.0 \& > 0^1 \text{ in. wc}$	٠٥٠	,04	, 0.5	+01	, O.	ho'	, co.
4.1.3.4	(HVP-863) ∆P	PDI-863-2	<2.0 & >01 in. wc	42.	6/17	, , ,	24/	112	1/5'	15.

Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 4 of 4)

				(Fage	(rage 4 or 4)					
			Date:	5-6-13	5-7-13	5-8-13	5-9-13	5-10-13	5/11/13	5/1413
,			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	mu	74	74	tz	7	K	D.M.
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS	SULTS		
4134	North Basement supply filter plenum	¹PDI-857-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.12	. /2	11.	. 12	.10	oi.	<u>5</u>
4.1.3.4	(HVP-840) AP	PDI-857-2	$< 2.0 & > 0^1 \text{ in. wc}$	97	64.	64.	۹٠.	64.	4	54,
4.1.3.4	North corridor supply filter plenum	<sup>1</sup> PDI-856-1	<2.0 & > 01 in wc	, ov	40,	. 04	.03	. OH	.03	),Oil
	(HVP-809) ΔP	PDI-856-2	$\leq 2.0 \& > 0^4 \text{ in. wc}$	P.9.	69.	69,	69.	9.	63.	69
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE822C, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	SPACE	7.42	547	5 AZT	SAT	SA	7.5
4.3.2.2	Rooms 201, 204, 206, &		0 lb/ft² combustibles		7					
	207		within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the							
			rooms, whichever is less	SAT	SAI	SAT	54T	SAT	Z.	140
			Completion time	0820	0801	0752	0917	0830	1690	O845
	OC Operator Rev	view and Page Cα	OC Operator Review and Page Count Complete (initials)	Just Care	1 AS	834 //	R. A.	00E 3	18	Ser. Cris
Note: SR 4.1.3.4 app Completed by:	ment olies during	mode 1 and mode 2.  Date 7/11/2 Time ca 45	Reviewed by:	Jan-uno Jan-dury		Date: <u>5-15-75</u> Time: <u>6-(.3-5)</u>	ime: 64.35		<b>\</b>	

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 1 of 4)

	The second secon			0	(,					
			Date:	5-13-13	5/14/13	5-15-13	5/16/13	5-17-13	5-18-13	5.19-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		(0	Initials:		dr.	Ym	W/D	7 4	79	14
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	5767	57.84	5784	STRV	STBII
	filter plenum	♦ PDI-840-2	$\leq 2.0 \& > 0 \text{ in}^{1} \text{ wc}$	ST&Y	Y 87.8	Xgrs	3784	5734	. STBV	5730
		PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	/\$IS	Kals	STØY	578 4	STRY	1875	STRU
4.1.1.7	Vault re-circulation	¹PDI-841-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	45	5h*	.₩5	\$	. 45	5/4 ,	. 45
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	25	.52	25	52	.52	5.5.2	52
	177 (710-1411)	PDI-841-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	05.	151	<i>0</i> 5.	15	15.	.5)	15,
	200 area re-circulation	<sup>1</sup> PDI-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32	.32	88.	.33	. 33	; 8	25.
	filter plenum	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	٥4٠	OH,	14.	14.	115.	17.	14.
	(IIVE-001)	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	.36	.35	.36	136	12.	26
	200 area re-circulation	<sup>1</sup> PDI-832-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.24	47.	44	,24	126.	.24	, 24
	filter plenum	PDI-832-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.52	.51	135	15.	15.	15,	151
	(200 TATE)	PDI-832-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Ы÷.	66.	PH.	5h	6 h.	67'	64.
		<sup>1</sup> PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.11	11	14.			//-	)/ '
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.80	08.	.80	12.	000	08.	0
	(FF-820A) $\Delta P$	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	61-	64.	. Ng	00	6 h ·	57.	. 49
	North Pland off filter	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ORF	<i>530</i>	OFF	055	OFF	730	0 11 12
4.1.3.4	plenum (FF-820B) AP	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	085	off.	9£	9.50	977	OFF	OFF
		PDI-809-3	$\leq 2.0 \& > 0^4 \text{ in. wc}$	े रू	off	975	0.FF	07.6	OFF	240

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Fage	(Fage 2 of 4)					
			Date:	5-13-13	5/14/13	5-15-13	5/1/13	5-17-13	5-18-13	5-19-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	4.4	B	7	am	75	4	74
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SSULTS		
	N.	1-628-1041	$\leq 2.0 \& > 0^1 \text{ in. wc}$	10.	90.	.05	20.	// .	00	50.
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	11.	220	07.	,2,	, 35	. 29	58.
		PDI-829-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	12.	61.	61.	.20	131	36.	7.6
	100 area re-circulation	¹PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. we}$	76.	16.	26.	.92	, 92	16.	16.
	filter plenum	PDI-833-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	DK:	74.	Lh.	74.	74.	40	× 77 .
4.1.1.7	187 (COO-1411)	PDI-833-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Sh	54.	24.	.45	. 45	.45	7 77 .
	100 area re-circulation	1-835-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	51.	.//3	.13	(3	51.	8/,	./3
	filter plenum	PDI-835-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	35	. 45	Sh	5 h .	7.7.	<i>hh</i> .
	142 (400-1411)	PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	16.	14.	1 14.	lh"	(4.	(h.	- 39
		<sup>1</sup> PDI-815-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	5.67	STBV	5784	STRY	5787
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	Sign	STBY	57.84	57.87	STRY
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	STAY	STBY	5784	STBY	2784
		PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	STBY	57.87	57.87	5784	518%
		<sup>1</sup> PDI-816-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.37	.38	.38	36	5.3	- 38	.38
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.43	.43	47.	.43	<i>h</i> h.	. 43	54,
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc.}$	2 <del>1</del> .	45	94.	.45	57,	77	۶4،
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. <b>4</b> 5	,45	46	G.	. 47	5 17	Sh.

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

				(Lago	(1 age 2 01 4)						
			Date:	5-13-13	धीमा 5	5-15-13	5/16/13	5-17-13	5-18-13	5.19-13	
	3		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	-50
			Initials:	100	Wb	* \	dr-	pr	75	7 4	
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS			
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	4.	£.	<u> </u>	2,	. 14	h! *	THE S	
	exhaust filter plenum (FF850) ΔP	PDI-812-2	$\leq 2.0 & > 0^{1}$ in. wc	.31	. 32	13.	/6.	, 32	.3.2	.22	
4.1.3.4		PDI-812-3	$\leq 2.0 \& > 0^4 \text{ in. wc}$	.31	.32	13)	787	.32	.32	32	
		PDI-812-4	$\leq 2.0 \& > 0^4 \text{ in. wc}$	.31	.31	15.	180	13/	. 31	2	
		PDI-812-5	$\leq 2.0 \text{ & > 0}^{1} \text{ in wc}$	62.	.29	62.	29	64	. 29	67	
	200 area glovebox	¹PDI-813-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5787	STDY	5787	87.84	S T 8 y	STRV		
	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Agis	\$7.84	STAY	57.3%	1875	STRV	5700	
4.1.3.4		PDI-813-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	5787	A\$15	57.64	1878	STRV	57.84	
		PDI-813-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	A915	ST87	<b>YAIS</b>	\$7.87	8784	5784	57.87	
		PDI-813-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Agus	STBY	STBy	STBY	5784	STRV	5 1.8 4	
	IFIT exhaust	1-598-IQd <sub>1</sub>	<2.0 & > 01 in. wc	.03	50.	.03	.03	10.	Ho.	70:	
4.1.3.4	(FF-865) AP	PDI-865-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.33	75,	134	.33	. 2.5	, 33	.33	
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	17:	lh.	TH.	17:	14,	14,	174.	
	IFIT supply filter plenum	<sup>1</sup> PDI-863-1	<2.0 & > 01 in. wc	.o.	30.	ठ	40.	70.	50,	503	
4.1.3.4	(HVP-863) AP	PDI-863-2	<2.0 & >01 in. wc	42	ε,	.43	143	. 42	. 42	, 141	

Surveillance Rounds

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# ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

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				(Cm +)	(1 20 1 20 2)					
			Date:	5-13-13	5/14/13	5-15-13	5/14/13	5.17-13	5.18-13	5-15-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	*	gn	Yew	In	7.4	9.4	7.0
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	SULTS		
7137	North Basement supply filter plenum	'PDI-857-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	01	.12	21.		. 12	71,	.12
4.I.3.4	(HVP-840) ΔP	PDI-857-2	≤2.0 & > 0 in. wc	49	64.	PH.	64	.50	, 50	03
4.1.3.4	North corridor supply filter plenum	1-958-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	70	40.	ત્રું.	ho	70'	70'	<i>5</i>
	(HVP-809) ΔP	2-958-IQA	<2.0 & > 0 in. wc	69.	07.	5	67	12	14.	14.
N,	Combustible exclusion area around basement exhaust fans FE\$28, FE\$29 and bleed-off fans FE\$208, FE\$208		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	OB	(					3
4.3.2.2	Rooms 201, 204, 206, &		0 lb/ft² combustibles	241	780	SAL	XA	J M.T	7#7	2.4
	207		within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles							
			between gloveboxes, or up to the walls of the rooms, whichever is less	1	‡				ļ	,
			Completion time	9510	0912	01.60	381	5#7	1280	5 A 1
	OC Operator Re-	view and Page Co	OC Operator Review and Page Count Complete (initials)	A RES	W. A	000	980 1/	1	8	ડ
Non TSR	Note: SD A 12 A medical division and 3 and			P. S.			1			

Non TSR requirement
Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: fand Lington Date 5-19-13 Time 075 Reviewed by:

Comments:

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 1 of 4)					
			Date:	5/20/13	5/21/13	5-22-13	5-23-13	5/24/13/0s/25/2	05/50	849950
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	th	敖	Y	7.W	BAZ	18	そ
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS	/	
	Vault re-circulation	<sup>1</sup> PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Stan	Sther	STEY	91.	7.	91.	29
	filter plenum (HVP-811) AP	PDI-840-2	≤2.0 & > 0 in¹. wc	SABY	Sthin	STBY	.52	.52	Ę,	Q
		PDI-840-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	Sthon	1978	STBY	15.	.51	Ş	بگا
4.1.1.7	Vault re-circulation	<sup>1</sup> PDI-841-1	$\leq 2.0 \& > 0^4 \text{ in. wc}$	, 44 .	· †+:	5/4.	Ų.	Alb.	Stby	<b>A</b>
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	75	. 52	.52		ا جامله	秀	\$ <del>\$</del>
	12 (210-1411)	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	50	25.	.50		At but	ASA,	24.5
	200 area re-circulation	¹PDI-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32	.32	.32		.32	12	A
	filter plenum	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15.	14/	.40	Ŧ.	<u>ئ</u>	9 <del>1</del> .	Ş
		PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	. 35	.35	.35	.35	.33	23
	200 area re-circulation	<sup>1</sup> PD <b>I-</b> 832-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	+2.	+2.	124	3.	+2.	芳	が
	filter plenum (HVP-802) AP	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 52	.52	52	75.	. 52	ž,	ર્જા
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	64.	64.	PH.	P.K.	64.	F	94
		<sup>1</sup> PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	) i «	. 11	.11	(4)	- 1 -	-	
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	,80	. 80	.80	08	.80	Ş	<b>B</b> .
	(FF-820A) △P	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	84.	6ħ:	57.	57.	84·	84.	3.
•	North Bleed off 616er	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^4 \text{ in. wc}$	750	290	OR	ORF	रेड व	7,	346
4.1.3.4	plenum (FF-820B) AP	PDI-809-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	0ft	378	5年0	OR		jjo	H
		PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	086	Off	985	250	370		ਹੋ

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 2 of 4)

				(rage	(rage 2 01 4)					
			Date:	5/20/13	5/21/13 5-22-13	5.21.13	5.23-13	5/24/13/05/26/A	ds/sc/so	रा/भुद्/ऽव
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri	Sat.	Sun.
			Initials:	甚	777	J.W.	X	BH	33	<i>A</i>
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	North Document	<sup>1</sup> PDI-829-1	$\leq 2.0 \& > 0^4 \text{ in. wc}$	P0.	60.	10.	20.	40.	26.	5
4.1.3.4	filter plenum (FF-828)	PDI-829-2	<2.0 & > 01 in. wc	٠29	. 30	22.	S	72.	Ą	مح.
		PDI-829-3	<2.0 & >0' in. wc	٢2.	72.	2	82.	12.	<u>61</u> .	ول
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wg}$	42	76.	.9.	5	26.	8	rg.
	filter plenum (HVP-803) AP	PDI-833-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc.	97.	.47	.45	٠ ٦	of.	91	jg B
4.1.1.7		PDI-833-3	<2.0 & > 0 <sup>t</sup> in. wc	せか・	<b>*</b> .	.45	S.H.	2 <del>}</del>	<b>P</b>	£
	100 area re-circulation	¹PDI-835-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.13	.13	.13	.13	£1.	Q.	1 2
	filter plenum (HVP-804) AP	PDI-835-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.45	54.	¥.	44.	Ž.	B.W.	SH.
		PDI-835-3	≤2.0 & > 0¹ in. wc	4.	<i>A</i> .	OH:	ş	<u>+</u>	5	Ĭ.
		<sup>1</sup> PDI-815-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	4424	Stin	STBY	57.87	6).	F	۶
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		Struk	STBY	STBY	14.	Ŧ	Ŧ.
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Sthan	Stor	STBY	STBY	38	84.	Š
		PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Sthy	Stik	STBY	Stay	£	OK OK	£
//		1-918-IQ4 <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.38	,38	.38	38			毒
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, <del>1</del> 6	.4¢	.45	**	5464		S. S
	(FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	oH.	#	.45	که.	Stly		SHby
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	97.	7	57.	<u>9</u>	5+5m	7 45	44

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

				(rage	(rage 3 01 4)					
			Date:	5/20/13/8/21/13	2/21/13	5-22-8	5-23-13	5/24/13	cyse/so	OS/26A3
1.00	*		Weekday:	Mon.	Tue.	Wed	Thu.	Fri.	Sat.	Sun.
			Initials:	志	瓦瓦	27.	1	Z	200	9
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS	SULTS	7	
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	土、	<u>+</u> :	3	(III. WC)	777	5	2.0
7	exhaust filter plenum (FF850) AP	PDI-812-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32	.32	32	£.	1980 A	A 17	4.
4.1.3.4		PDI-812-3	$\leq 2.0 \& > 0^{4}$ in. wc	.32	.32	.32	.32		1	Atter Contract of the Contract
		PDI-812-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	-31	31	.31	3		Cally Cally	5 3
		PDI-812-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	30	30	82.	2.9		李5	A 12 4
	200 area glovebox	<sup>1</sup> PDI-813-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Sta	Stbuy	STBY	57.67	.46	5	5
,	exhaust filter pienum (FF851) ΔP	PDI-813-2	$\leq 2.0 & > 0^1 \text{ in. wc}$		STS	STAN	STAY	62.	36	2
4.1.3.4		PDI-813-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	ALC.	Silbu	STRY	A.T.R.V	. 26	7	0.70
		PDI-813-4	≤2.0 & > 01 in. wc		25°	N. S.	STRY	D,	30.	7
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$		Sep.	STRY	786	.21	14	4
	IFIT exhaust filter plenum	<sup>1</sup> PDI-865-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		40.	.03	6		2 6	2 8
4.1.3.4	(FF-865) AP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.33	35.	.25	25		2.5	
		PD1-865-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	4.	. to	42	5	6	2 5	<u>ر</u>
7 7 7	IFIT supply filter plenum	¹PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	105	40.	ह	70	_	3 \$	? *
4.C.1.4	(HVP-863) AP	PDI-863-2	<2.0 & >01 in. wc	Ŧ	-			42	1	;

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

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				0		1 15 10				
			Date:	5/22/3		5/2/13 5-22-13	5-82-13	05×13 05/35/2	426/20	OS/SEAR
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	A	Ha	7. W	*	T A	<i>y</i> .	7
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS	,	1	
4.13.4	North Basement supply filter plenum	'PDI-857-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	11,	<u>w</u> 1.	.44	. 14	.15	Ñ	2
	(HVP-840) ΔP	PDI-857-2	≤2.0 & > 0¹ in. wc	. 50	- 50	.50	.50		9	1
4.1.3.4	North corridor supply filter plenum	'PDI-856-1	$\leq 2.0 \text{ & > 0}^{1} \text{ in. wc}$	ta:	+0.	۲٥.	70.	0.05	.05	<b>S</b>
	(HVP-809) ΔP	PDI-856-2	$\leq 2.0 \text{ es} > 0^{1} \text{ in. wc}$	مل بح	11.	F	.17.	17.	ام	6
NA NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	SAN	7.47	SAT	SAT	ţ	#.	1
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet							E C
			perpendicular from the face of the PMIMA, the width of the aisles between gloveboxes, or	74.5		Õ		١		
			up to the walls of the rooms, whichever is less		SAT	SAT	SAT	tar	好	To S
88			Completion time	4::1	1030	OBYO	2835	0848	940	Made
18	OC Operator Rev	view and Page Co	OC Operator Review and Page Count Complete (initials)	26 34C	300 KS	N 3	8		1	2

<sup>T</sup>Non TSR requirement Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Michael h. Trith Date (5/2/19) Time (7/0)

Reviewed by His

Date: 6-3-13 Time: 0905 On-duty Supervisor

Comments:

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 1 of 4)					
			Date:	5/12/3	5/28/13	5129/13	5/30/13	5-31-13		
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		i	Initials:	J.V.	gn	Se Se	S. C.	4		
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	Vault re-circulation	'PDI-840-1	$\leq 2.0 & > 0^1 \text{ in. wc}$	. 15	51.	51:	31.	21.		
	filter plenum (HVP-811) AP	PDI-840-2	≤2.0 & > 0 in¹. wc	.52	.53	52	.52	.8.2		
		PDI-840-3	$\leq 2.0 \& > 0'$ in. wc	157	14.	. 5 (	, v	65		
4.1.1.7	Vault re-circulation	¹PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	57.8 4	4872	CTRY	5.T.8Y		
	filter plenum	PDI-841-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	12.45	87.84	57.07	57121	STAY		
	157 (210-111)	PDI-841-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	V8772	STBY	57.84	C+13~	57.87		
	200 area re-circulation	<sup>1</sup> PDI-831-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.32	32	.38	CE	. 32		
	filter plenum	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	lh:	94	٥).	ī	7		
	17 (100 111)	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	SE SE	15	.32	72	25		
	200 area re-circulation	<sup>1</sup> PDI-832-I	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.23	.23	13	.23	3		П
	filter plenum (HVP-802) AP	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15,	15.	\$2	15:	Į.		
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	64.	bh.	67.	64.	Ø 4		
•		<sup>1</sup> -201-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 17	11.	",		-		
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.80	08.	08.	0,	26		
	(FF-820A) $\triangle F$	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	64.	65	6.7·	η n			
	North Rived off Citer	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	0.FF	540	0 64	747	0 64		
4.1.3.4	plenum (FF-820B) △P	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	aff	£}*	770	23.0	066		
		PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		5+0	140	52.4	the state of the s		

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 2 of 4)

				79m T)	1 10 7 291 1					
			Date:	5/11/3	5/21/0	5/24/13	5/30/13	5-31-18		
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			. Initials:	An	9	see	GIM	3		
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
	North Boomers	'PDI-829-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	50.	.05	.05	90.	01.		
4.1.3.4	filter plenum (FF-828)	PDI-829-2	<2.0 & > 0 in. wc	.20	.20	96	30	.32		
		PDI-829-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	61.	6/	61.	61	\$		
	100 area re-circulation	<sup>1</sup> -833-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	16.	5	16.	16	24.		
	filter plenum (HVP-803) AP	PDI-833-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	94	34.	8h	5	- <del>-</del>		
4.1.1.7		PDI-833-3	≤2.0 & > 0¹ in. wc	hh	Sh	34.	777	ر د د		
	100 area re-circulation	'PDI-835-1	≤2.0 & > 0¹ in. wc	£1°	8.	, (3	27	.13		
	filter plenum (HVP-804) AP	PDI-835-2	≤2.0 & > 0¹ in. wc	Sh'	Sh	<i>'</i>	545	S)4°		
		PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	04.	on "	05	oh.	07		
		<sup>1</sup> PDI-815-1	<2.0 & > 01 in. wc	61.	.20	6	6,	6		
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	١५,	245	(6)	17	07		
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.38	.39	3,0	82	80		
		PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	04.	04.	97.	1	30		
		<sup>1</sup> PDI-816-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STB V	STB 7	57.04	XLIPX	STBY		
4.1.3.4	100 area glovebox	PDI-816-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	\$1BV	37.84	51134	\delta 14.5	ST67		
	exhaust filter plenum (FF8S3) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc.}$	27.8 V	STBY	57.64	STAV	3(16)		
		PDI-816-5	<2.0 & > 01 in. wc	1672	STBH	7070	STBV	STBY		

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

											Γ
			Date:	5/12/13	5/28/13	5/29/13	5/2010	5-16-6			
	¥		Weekday:	Mon.	Tue.	Wed.	Thu Thu	Fri.	Sat.	Sun.	
			Initials:	A.A.	~()	308	1	3 5			T
SRs	Description	Gauge	Acceptance Criteria			,	) }				_
54						SUKV	SUKVEILLANCE RESULTS (in. wc)	SOLIS			
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	YULS	37.67	57.84	S-Bu	STRY			T
1137	exhaust filter pienum (FF850) $\Delta P$	PDI-812-2	<2.0 & > 01 in. wc	4872	STBY	5101	STRU	STRY			_
4.C.1.4	·	PDI-812-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	1.815	87.8 Y	4019	87.04	STBY			T
		PDI-812-4	$\leq 2.0 \text{ & > 0}^{1} \text{ in wc}$	8818	የታይላ	61.67	\$ 87.0	STBY			
		PDI-812-5	$\leq 2.0 \text{ &> } 0^1 \text{ in wc}$	ST/73 V	2013	47.85	704	کالاہ ا			<del></del>
	200 area glovebox	<sup>1</sup> PDI-813-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	(9.	69.	22.	C	100			T
6	exhaust filter plenum (FF851) ΔP	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	29	.29	,29	2.9	200			_
4.1.3.4		PDI-813-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	,29	67	28.	128	62.			Т.
		PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	08:	129	30	2.9			т
		PDI-813-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	17	ě,	.21	2,1	2.1			
	IFIT exhaust filter plenum	<sup>1</sup> PDI-865-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	10	WO.	78'	70	į 6			Т.
4.1.3.4	(FF-865) AP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	33	23.	3.2	22	77			_
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	3	3	777	77				_
	IFIT supply filter plenum	<sup>1</sup> PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	40.	20.	, o	30	3 6			
4.1.3.4	(HVP-863) AP	PDI-863-2	<2.0 & >01 in. wc	47	7.5	S					

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 4 of 4)

Sun. Sat. 5-31-13 Fri 2460 SAT SURVEILLANCE RESULTS 12 S 징 347 5/30/13 Thu Z 6817 50 DS 50 SA 7 2 5/29/13 . 50 .05 3 Wed ₹ \$ SAT 26 2080 0,0 5/18/13 વ Tue. ځ ح 950 SA 3 50 54 3 shalls Mon. 2 3 TX. 5 Chilo 0 Date: designated exclusion area Weekday: Initials: 0 lb/ft2 combustibles in Completion time rooms, whichever is less (within 15 feet of fans) between gloveboxes, or  $\leq 2.0 \text{ &> } 0^1 \text{ in. wc}$ ≤2.0 & > 0 in. wc within 3.5 feet perpendicular from the face of the PMMA, the OC Operator Review and Page Count Complete (initials) WC up to the walls of the  $\leq 2.0 \text{ &> } 0^1 \text{ in. we}$ 0 lb/ft2 combustibles Acceptance Criteria width of the aisles ≤2.0 & > 0 hig. 1PDI-857-1 PDI-857-2 1-928-IQ4 PDI-856-2 Gauge Combustible exclusion area bleed-off fans FE820A, FE820B, FE820C, FE822A, North Basement supply around basement exhaust fans FE828, FE829 and Rooms 201, 204, 206, & North corridor supply (HVP-840) AP (HVP-809) AP FE822B, FE822C filter plenum filter plenum Description 4.1.3.4 4.1.3.4 4.3.2.2 SRs NA A

Note: SR 4.1.3.4 applies during mode 1 and mode 2. Non TSR requirement

On-duty Supervisor Reviewed by: DUNG Completed by: Nelso Watry Date 5-38-48 Time OT41

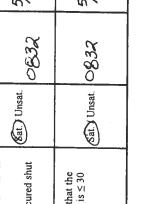
Time: 000

Date 6-3-13

Comments:

ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)
(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-344	Southeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	(20) Unsat. 0908	1	5/8/3 Th	The The
4.1.3.2	Confinement Door DR-149	Northeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut.	Sat.) Unsat. OB2D	1	5/8/3 Th	Z
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).  AND VERIFY and RECORD the time (using balibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds.	(8at.) Unsat. 06.32, Sat.) Unsat. 08.32		5/8/3 Th. 5/8/3 Th.	及及



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Page 36 of 38 Initials 15/8/3 15/6/3 5/8/ OC Operator Review and Page Count Complete Date: Date: 5-13-13 Time: 08.25 ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) Completi on Time: 090 0853 833 883 Sat or Unsat. Sat/ Unsat. Unsat. Sat/ Unsat. Sat. Onsat. Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement Exercise fully open and Verify that the door goes to the fully closed position Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is  $\le 30$  seconds. (Page 2 of 2) Date 5/8/13 Time 0412 Reviewed by: Dave Acceptance criteria Surveillance Rounds Seconds via the automatic door closure. Donn On-duty Supervisor Comments: 34 DR - 149 Million And N. Basement Personnel door South Basement Door (Tunnel) DR4 Southwest Location Note: SR 4.1.3.2 applies during mode 1 and 2. Confinement Door DR-4 Confinement Door DR-302 Confinement Door DR-90 Completed by: 7 NOW WALL TA55-STP-004, R15.1 Equipment 4.1.3.2 4.1.3.2 4.1.3.2 SRs

Surveillance Rounds

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ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center) (Page 1 of 2)

ſ						I	I	Γ	П	F									Γ		T	
	Initials:		P	B	A	J/R			J/R	1	U[*		A		I X	<u> </u>	\*\*	R		No.	A	R
	Date:	•	2///3	5/1/13	5/,/13	51/13	5///3	5///3	5/1/12	5/1/13	5/1/13	Stills	5/1/13	5/1/13	5/1/11	5/1/13	5/1/17	5/1/3	5/1/13	5///2	Sills	37//13
	Completion Time:		0632	0632	06.74	0632	0633	5690	9633	1590	590	229	633	5590	9674	0634	0654	634	954	974	O654	0674
(Page 1 of 2)	Sat. / Unsat.		(Sat) Unsat.	(Sat.) Unsat.	Sat/ Unsat	(Sat)/ Unsat.	San / Unsat.	Sat Unsat.	Sat) Unsat.	(Sat. Unsat.	Sat / Unsat.	Sat.) Unsat.	Sat Unsat.	Sa). / Unsat.	Sat) Unsat.	Sat. Musat.	(Sat. / Unsat.	Sat Unsat.	Sat Unsat.	Sat Unsat.	Sat.) Unsat.	(Sat.) Unsat.
	Acceptance Criteria		> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr
	Description	Location	Rm. 201	Rm. 106	Rm. 305	Rm. 401	Rm. 206	Rm. 114	Rm. 319 W	Rm. 409	Rm. 208	Rm. 124	Rm. 319 E	Rm. 420	Rm. 209	Rm. 126	Rm. 327	Rm. 429	Vault 17	Vault 18	Vault 19	Vault 20
	Desc	Channel #	-	2	3	4	5	9	7	∞	6	10	,	12	13	14	15	16	17	18	19	20
	SR				4.2.1.1		·													4.2.2.1		

Note: These readings SHALL be taken on the rate meters in rack RK-801-3 in the OC.

Page 38 of 38	erations Center)		1-13 Time: 1325		Column to the state of the stat						1			
Surveillance Rounds	ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)	(Page 2 of 2)	Date 5/1/3 Time 0632 Reviewed by: Dout On-duty Supervisor		5		S	2						
TA55-STP-004, R15.1		A A	Completed by:	Comments.										

#### Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVEHLANCE POUNDS
Procedure no.:	TA SS. STP. 004 RIS. 1
Date of issue:	04.01.13
Working copy issued to:	BRISCOE
Working copy issued by:	CHANCE
	Certified Operations Center Operator

Working copy issued by:	CHANCE		
		d Operations Center Ope	rator
Operations Center Oper	rator Review	1 5/6/13	
Sig	nature		Date
Required Reading for this Surve	eillance has been completed	i.	
Training Checklist		$\Theta$	
Workers Performi	ing Surveillance	Applicable Surveillar	nce Training Current
WOLKOLO I OLIOTHI	ing but ventance	Initials	Date
2 BRISCOE		BC	04.01.13
BCHANCE		BC	04.01.13
D DUNLANY	/ 0/	BC	04.01.13
A DUNSETTL		BC	04.01.13
PLUM		BC	04.01.13
A DETIZ	<u>/</u>	BC	04.01.13
FSERBER		BC	04.01.13
M WITTHAN		BC	04.01.13
N CHAVES		80	04.01.13
J.SMETZ		BC	04.01.13
Comments:			

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#### Attachment B, Surveillance Training Checklist (Page 2 of 2)

#### Training Checklist (continuation sheet)

W 1 D C 1 G III	Applicable Surveillance	Training Current
Workers Performing Surveillance	Initials	Date
P. HOHNER	BC	04.01.13
J MARTINEZ	BC	04.01.13
T LANGWORTHY	BC	04.01.13
PTPULLO	BC	04.01.13
NONTOYA	BC.	04.01.13
A SANCHE	BC	04.01.13
G CORIZ	BC	04.01.13
M 1815H	BC	04-01-13
A HERRERA	BC	04.01.13
	9/	
	/	
40/		
0-/		

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

(	Note		Date:	11/6	13	4/2/13		4/3/13		4-4-13	:1/2	13	4/6/13		21/2/13	2
Gauge re taken on	Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.	اغ د	Tue.		Wed.		Thu.	Fri.	٠,-:	Sat.		Sun.	
whenever	whenever possible. Document if		Shift:	AM	PM	AM	PM /	AM PM	И AМ	A PM	AM	PM	AM P	PM A	AM P	PM
allemale P	allemate PDIS are used.		Initials:	18	8	\$	9	000	9	92	B	9	Q	4	7	4
SRs	Description	Gauge Acce	Acceptance Criteria		7		S	SURVEILLANCE RESULTS (in. wc)	ILL.	ANCE (in. wc)	RESU	LTS				
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	<-1.0 in. wc	20.1	203	10.7	10.0	100/02	1.00	-2,03-1.03-2,03	2,03	2)00-2.06	2.06	-7,6.2.62	20.	-362
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	<-1.0 in. wc <sup>1</sup>	181 - 181 -	20	04/	\\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	138V	3,7	89.1-88/1-06/1-	<u>                                      </u>	06.1-18/	9.	- 56/-	-1.89	681-
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc¹	. 6- <u>-</u>	1981-	8.	1961-	198		1,98-197	26-1-	-1.57-199		1.8	3-	- 66
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc¹	73.04	2	1 68: +T	2	100 Bis	-	361-106	R	7,54-200	2007		7.82	-703
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc¹	9	20	9.0		4	-	1,5	-17	11811			- 12	7
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	02'-	-21	02,00	30	02.	06-1	61,	-,20	2) (2		1 - 2	07'-	
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	≤-0.05 in. wc¹	02'-	7.21		196-	, E		2,	77'-	124r'-	27 12.	7	72.	12
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc¹	191.	61:	020	120	7.75	0	20	025	-30-20		08-	6).	30
	IFIT Facility AP	PDI-865-4 or PDI-865-5	<-0.05 in. wc	ά	9	57.00	ā,	学	1 142	22	5	2	0	6	1.0	ē
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	2,10	PO-:		1012	9.	01:10	0.		1	-	-101:	-	0
4.1.1.3	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	09	11:	11.0	5	21-2	715	- j.	7)-	77.	-13	5-14-3	2,	7
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	12].	. 23		1.34	更	13.4		1,556 - 13C , THY	143 -	-119	138-127	27	20

## ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

Note braken   Note						i Li	(rage 2 or 3	13)									
Should be taken   CS screens	:	Note		Date:	11/1/	à	)/z/h		4/3/13		4-13	415	5/13	4/6/13	(13	4/7	0/4
151,152,201LD 2LD.Field verification It plenum PDIs may if FCS is unavailable.  Description  200 area recirculation fan/ plenum PDT-831 AP > 0.50  100 area recirculation fan/ plenum PDT-832 AP > 0.50  100 area recirculation fan/ plenum PDT-835 AP > 0.50  100 area recirculation fan/ plenum PDT-835 AP > 0.50  100 area recirculation fan/ plenum PDT-835 AP > 0.50  100 area recirculation fan/ plenum PDT-835 AP > 0.50  100 area recirculation fan/ PDT-835 AP > 0.50  100 At least one fan/ PDT-839 AP > 0.50  100 At least one fan/ PDT-839 AP > 0.50  100 area recirculation fan/ PDT-839 AP > 0.50  100 area recirculation fan/ PDT-835 AP > 0.50  100 area recirculation fan/ PDT-839 AP > 0.	Keadings using FC	s should be taken S screens		Weekday:	Mo	n.	Tue	.:	Wed.		ľhu.	F	ri.	Sat.	at.	S	Sun.
If Plenum PDIs may if FCS is unavailable.  Description  Readings  200 area recirculation fan/ plenum	FMT#15	1,152,201LD		Shift:					_			_	PM	AM	PM	AM	PM
Description         Readings         Acceptance           200 area recirculation fan/plenum         FR-801 Icon red and plenum         FR-801 Icon red and plenum         At least one fan/plenum is in plenum           100 area recirculation fan/plenum         PDT-832 AP >.050         At least one fan/plenum is in plenum           300 area recirculation fan/plenum         PDT-835 AP >.050         At least one fan/plenum is in plenum           400 area recirculation fan/plenum         PDT-835 AP >.050         At least one fan/plenum is in plenum           400 area recirculation fan/plenum         PDT-835 AP >.050         At least one fan/plenum is in plenum           PDT-835 AP >.050         FR-805 Icon red and plenum is in plenum         At least one fan/plenum is in plenum           PBT-836 AP >.050         FR-807 Icon red and plenum         At least one fan/plenum is in plenum           PBT-836 AP >.050         FR-808 Icon red and plenum is in plenum         FR-808 Icon red and plenum           PBT-830 AP >.050         FR-811 Icon red and plenum is in plenum is in plenum           FR-812 Icon red and plenum is in fan/ plenum         FR-812 Icon red and plenum is in plenum is in plenum	and 2021 and local r be used if	J.D. Freid Vernication blenum PDIs may FCS is unavailable.		Initials:	W	Q	3	9	Q. C. P.			Ca	9	a	9	N	9
PDT-831 AP > .050   At least one	SRs	Description	Readings	Acceptance Criteria				S	URVE Sat. /	ILLA Unsa	NCE it. (cir	REST cle on	ILTS (e)				
PDT-832 AP > .050		200 area re- circulation fan/	FR-801 Icon red and PDT-831 AP >.050 or									(8)	&at	Sat		(SS)	
100 area re-   circulation fan/ plenum     plenum		blenum	FR-802 Icon red and PDT-832 AP > .050	service	Unsat	Jnsat	Unsat U	nsat	nsat Uns	at Uns	at Unsal	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
PBC   PBC   PBC   PBC     PBC   PBC   PBC   PBC     300 area re-		100 area re-	FR-803 Icon red and PDT-833 AP > .050	At least one	(ES)					<del> </del>			Sat	Sah	(3)	Sal	(Sat)
300 area re- circulation fan/ plenum plenum plenum phenum		circulation tan/	PDT-835 $\Delta P > .050$	service	Unsat	Jusat	Jusat U	nsat U	nsat Unsa	at Uns	nt Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
FR-806 Icon red and Service PDT-837 \( \triangle AP > 050 \) FR-807 Icon red and PDT-838 \( \triangle AP > 050 \) FR-808 Icon red and PDT-839 \( \triangle AP > 050 \) FR-811 Icon red and PDT-840 \( \triangle AP > 050 \) FR-811 Icon red and PDT-840 \( \triangle AP > 050 \) FR-812 Icon red and PDT-841 \( \triangle AP > 050 \) FR-812 Icon red and PDT-841 \( \triangle AP > 050 \) FR-812 Icon red and PDT-841 \( \triangle AP > 050 \) FR-812 Icon red and Service	4.1.1.6	300 area re-	FR-805 Icon red and PDT-836 $\Delta$ P > .050	At least one		-	//-	1	-	<del></del>		(8)	(gat)	8	\$	TES.	Sat
FR-807 Icon red and PDT-838 AP >.050 At least one or fan/plenum is in FR-808 Icon red and PDT-839 AP >.050 FR-811 Icon red and PDT-840 AP >.050 At least one or FR-812 Icon red and PDT-841 AP >.050 At least one pDT-841 AP >.050 At least one or FR-812 Icon red and PDT-841 AP >.050 At least one pDT-841 AP >.050 At least one service		plenum	FR-806 Icon red and PDT-837 $\Delta P > .050$	service	Unsat	Jusat	Insat Ui	nsat Or		ut Unsa	it Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
FR-808 I con red and PDT-839 \( \Delta P \) PDT-839 \( \Delta P \) PDT-840 \( \Delta P \) PDT-840 \( \Delta P \) PDT-841 \( \Delta P \) P		400 area re-	FR-807 Icon red and PDT-838 AP > .050	At least one					/ ~			(S)	(Eg)	(E)	8	(X)	Sat
FR-811 Icon red and PDT-840 AP > .050 At least one or fan/plenum is in FR-812 Icon red and PDT-841 AP > .050		plenum	FR-808 Icon red and PDT-839 $\Delta P > .050$		Unsat	Insat L	Insat Ur	ısat Ur	ısat Unsa	ut Unsa	t Unsat	Unsat	Unsat	Unsat	Jusat (	Jusat	Jnsat
FR-812 Icon red and service PDT-841 AP > .050		Vault re-	FR-811 Icon red and PDT-840 \( \text{AP} > .050 \)			$\rightarrow$		-			is.	(F)	Sat	(ig	8	ASS A	(Sat
		fan/ plenum	FR-812 Icon red and PDT-841 \( \D P > .050 \)		Jusat	Insat	nsat Ur	ısat Ur	isat Unsa	ıt Unsa	) t Onsat	Unsat	Unsat	) Unsat	Jusat	Jusat	Jnsat

### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

Note		_					-		-	,		
ay Shift:    In Weekday:   Shift:   Initials:   Criteria     Criteria     14-2     Criteria     14-2     Criteria     14-2     Criteria     14-2     Criteria	41.113		4/2/13	4/3/13		4-4-13	3 4/	4/5/13	14/10/13	813	11/13	103
Shift:   Initials:	Mon	. —	Tue	Wed.	19	Thu.		Fri.	S	Sat.	Sun.	n.
Area         Gauge         Acceptance           200 Area         PDI-814-2 PDI-814-2 PDI-803-2         PDI-814-2 PDI-803-2           100 Area         PDI-803-2 PDI-804-2         2 PDI-804-2           100 Area         PDI-802-2 PDI-804-2         2 PDI-804-2           300 Area         PDI-870-2 PDI-870-2 PDI-853-2         2 PDI-870-2           400 Area         PDI-853-2 PDI-864-2 PDI-854-2         2 PDI-854-2           PDI-852-2 PDI-854-2 PDI-854-2         2 PDI-854-2           PDI-854-2 PDI-854-2         2 PDI-854-2	AM PM	AM	PM	AM	PM	AM F	PM AM	1 PM	AM	PM	AM	PM
Area         Gauge         Acceptance           200 Area         PDI-8142 PDI-8142 PDI-803-2 PDI-804-2         PDI-804-2 PDI-804-2           100 Area         PDI-802-2 PDI-804-2 PDI-804-2         PDI-802-2 PDI-804-2           300 Area         PDI-870-2 PDI-870-2 PDI-854-2 PDI-853-2 PDI-854-2         PDI-854-2 PDI-854-2 PDI-854-2           400 Area         PDI-852-2 PDI-864-2 PDI-854-2 PDI-854-2         2 PDI-854-2 PDI-854-2           PDI-854-2 PDI-854-2 PDI-854-2 PDI-854-2         2 PDI-854-2 PDI-854-2	0 8	<b>3</b>	9	Office	8	7	9	9	R	9	C	9
200 Area PDI-814-2 PDI-814-2 < PDI-803-		•		SUR	VEIL at. / II	LANC usat. (c	SURVEILLANCE RESULTS	ULTS				
100 Area PDI-820-2 PDI-820-2 PDI-802- PDI-804-2 2 < PDI-804-2 300 Area PDI-870-2 PDI-870-2 PDI-853- PDI-870-2 PDI-853- PDI-854-2 2 < PDI-854-2 PDI-864-2 PDI-854-2 PDI-854-2 2 < PDI-854-2 PDI-854-2 2 < PDI-854-2 PDI-854-2 PDI-854-2 PDI-854-2 APDI-854-2 PDI-854-2 APDI-854-2	Unsat	Sat Unsat	(Sat) Unsat	Sat	gat (Sa) Unsat Unsa	Sat nsat Ur	Sary Sat Insat Unsat	at Unsa	Sat Sat Unsat Unsat	(a) Unsat	Sat Unsat	Sat Unsat
300 Area PDI-870-2 PDI-870-2 PDI-853- PDI-854-2 2 PDI-854-2 PDI-854-2 PDI-854-2 PDI-854-2 PDI-854-2 PDI-854-2 PDI-852-4 PDI-852-4 PDI-854-2 PDI-85	S C C C C C C C C C C C C C C C C C C C	Onsat Unsat	Sat Unsat	Sat	Christin Unisati	Sat Unsat	Eap Sab Sab Unsat Omsat Unsat		Sat Sat	(Sa) Unsat	Unsat	Sat Unsat
PDI-864-2 PDI-852-2 PDI-864-2 < PDI-852- PDI-854-2 2 < PDI-854-2 Completion Time	Unsat Unsat	Sat	Sat	Saft (Sah) (Sah Unsat Unsat	San Traat	(Sa) Unsat On	Sat Sat Jusat Unsat	Cat Sat Sat Cat Cat Omsat Unsat Unsat	Unsat	(Sat Unsat	Olisat Ulisat	Sat
Completion Time	Unsat Unsat	Sat	C (Sat	Sat	Deser U	Unsat Ch	at Cus	Sat Sat Say Say Say	Sat Unsat	(Sa) Unsat	Unsat	Sat
				C								
27% 2078	OTO 87 1870	07/0	1930 -105	6	3420	630	37/0/1/	1942 0630 1932 0727 1930 0532 1930 0537 1930	25/20	1930	2/2	1930

Note: <sup>1</sup>Mode 2 acceptance criteria is < 0.00 in. wc Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Completed by:

Date 4-7-13 Time 1930 Reviewed by: Aux | Char Date: 4-8-13Time: 6 800

Comments:

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:	4-1-13	4-2-13	4-3-13	4-4-13 4-5-13	4-5-13	4-6-13 4-7-13	4-7-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	-ww	A.K.	3560	79	4	PT	+6
	Description / Gauge	Acceptance Criteria	1		SURVEILLAN	SURVEILLANCE RESULTS (percentage)	(percentage)		
S.	Flammable Gas Channel Check								
	DE1-305-3 (LCD Reading)	AZ A	6.3	5.0	0.3	M. 0	0.3	٨.0	0,3
4.4.1.1	CP-305-H (LED Reading)		6,0	63	0.3	0 w	و م	M.	~
	(DET-305-3) - (CP-305H)	Record Calculated Value	0.0	0.0	0.0	0.0	O. Đ	0.0	9,0
	(LCD Reading) (LED Reading)	≥ <b>-</b> 0.1; <+0.1	SaD/ Unsat.	(at)/ Unsat.	Sat)/ Unsat.	(Sat.) Unsat. (Sat.) Unsat. (Sat.) Unsat.	Sat.) Unsat.	Sat.) Unsat.	(Sat) / Unsat.
		Completion Time:	රපිදිට	०१५८०	8780	8080	CMCO	0 7 60	07.10

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 2 of 4)					
			Date:	4-1-13	4-2-13	4-3-13	4-4-143	45.37	4-6-72	2/-2-1
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
			Initials:	my	٢ ٢	Ser.	A. A.	3	74	74
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	¹PDI-894-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	80.	80.	60.	60.	80	0	S
	supply filter plenum (HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^{1}$ in. wc	87.	67	. 49	27	177	0	013
	South Corridor	<sup>1</sup> PDI-895-1	≤ 2.0 & > 0 ' in, wc	11	01.	0]		11.		
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	٦٩١	8.	16.	<u>ن</u> ق	មា	16	/0
		<sup>1</sup> PDI-817-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	22	۲2.	76.	82.	82	. 28	28
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	.30	.30	18.	.3)	181	31
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	75.V	.31	<u> </u>	2	.31	. 3 [
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	30	.30	0¢.	53	.30	30
,	300 area special	PDI-819-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ìh.	)   	77.	7	₹.	14.	
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-819-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	የሖ"	17	14.	₹.	7.	14.	14.
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	35.	.35	3.5	35	38.	23	.2 5
		1-818-I	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	5187	STEX	5707	STBY	ST&Y	57.84	STRV
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5768	1000	576	STBY	STAV	v ats
	exhaust filter plenum (FF855) AP	PDI-818-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	8-134	SIRY	\$26 <u>\$</u>	STBU	> 0 +
		PDI-818-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	SIBY	डाक्ष्र	97137	STBY	Stőł	>7.67	STRU
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STAY	SIBY	5701	5167	STBY	578 2	STRV
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1$ in. wc	इक्टर	STBY	an my	SIBY	STBI	STBY	STRU
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1$ in. wc	STIBY	र्जाहर	4004	5167	STBY	57.84	STRI

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 3 of 4)					
			Date:	4-1-13	4-2-13	4-3-13	4-4-13	4-5-13	H-6-13	4-7-13
		28	Weekday:	Mon.	Tue	Wed.	Thu.	Fri.	Sat.	.unS
:			Initials:	Mon	m	34	4	\$	9	6
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	ESULTS		
		<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 59	-53	3	9	19	74.	- 44-
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 50	.50	.50	.50	ß	. 50	/ 4 /
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^1 \text{ in, wc}$	04.	14.	ረን.	277	7	. 42	
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.45	.47	67	97.	7	. 50	67.
		¹PD1-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STEX	57.87	\$107	STBY	2.E/	5784	5781
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	57.07	STBY	5767	STRV	57.12.1
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ST&Y	STAN	57.67	ठाछर	STEY	STBY	STRU
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	57.87	STBY	STIBY	STBV	STRV
:	South Basement exhaust	<sup>1</sup> PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	୦୭ -	59	05.	95.	ල <b>9</b>	0	09'
4.1.3.4	filter plenum	PDI-830-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	.35	1.25	.34	98.	. 75.	. 35
		PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	15.	(15)	.31	.31	.3/	.3/
	300 area re-circulation	<sup>1</sup> PDI-836-1	<2.0 & > 01 in. wc	. 89	.89	58.	68	<b>6</b> 0.	68'	68.
, el	filter plenum	PDI-836-2	$\leq$ 2.0 & > 0 in. wc	55	55.	35.	.56	.55	\$5.	.55
4.1.1.7	157 (200-1411)	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.52	15.	75.	25.	75.	.52	15.
	300 area re-circulation	¹PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. (e)	9,	15.	29.	29.	.62	. 62
	filter plenum	PDI-837-2	<2.0 & > 01 in. wc	.50	.50	05.	. 50	18.	.50	50
	157 (000 1.11)	PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	. 47	114.	٠ ر	147	F.	24,	- 47

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

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				(Fage	(Fage 4 of 4)					
			Date:	4-1-13	4-2-13	4-3-13	4-4-13	4-5-13	4-6-13	4-7-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	NW	Jr.m.	350	3	3	25	77
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	400 area re-circulation	'PDI-838-1	$\leq 2.0 & > 0^1 \text{ in. wc}$	.30	.30	,30	08.	0%	.30	04.
	filter plenum (HVP_807) AP	PDI-838-2	<2.0 & > 01 in, wc	74.	、カン	ζħ.	24.	<u>وا</u> ۲	42	///
4.1.1.7	15 (20-1-11)	PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc	. 38	.39	39	.39	96.	65,	\$5.
	400 area re-circulation	<sup>1</sup> PDI-839-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	30	₩.	,29	. 29	.30	.30	010
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.42	.H2	<i>የ</i> ሖ·	2h.	. 42	. 42	142
	15 (000 1 1 I)	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	24.	.42	zn.	7h.	34.	. 42	. 42
,	South Bleed off filter	'PDI-810-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	PFO	OFF	150	OR	F10	不可可	17
4.1.3.4	plenum (FF-822A) AP	PDI-810-2	<2.0 & > 01 in. wc	OFF	OFF	240	OFF	和0	OFF	0 K
		PDI-810-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	770	OFF	240	OFF	OR	OFF	0 F F
	South Bleed off filter	1-811-1DI	$\leq 2.0 \& > 0^1 \text{ in. wc}$	11.	11.	11.11	. 44	11.	11 •	11.
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Į,	Lh.	(4)	<i>L</i> h.	54.	٧ / ٠	67.
	(FF-022B) AF	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	. 48	48	87	48	TH.	ħħ.	. Z
			Completion Time	0813	0815	2080	2880	୦୫୫୦	0735	11/20
JO O	OC Operator Review and Page Count Complete (	age Count Comp	lete (initials)	a 19	0 B	Joseph	8 pse	10	19 3	5
					2	1			10	

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode, as stated in LCO 3.1.3.

Date: 4-813Time: 6750 Reviewed by: Davy Completed by: for 2 2 2 M. Date 4 7.13 Time 07 11

Comments

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 1 of 4)	,		•		
			Date:	4-1-13	4.2-13	4-3-13	4-4-13	4-5-13	4-6-13	4.7-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	i	Sun.
			Initials:	3	See	\$ te	7	70	20	(-
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		47
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	91.	<u>3</u>	زر		9//	7/ -	16
	filter plenum (HVP-811) AP	PDI-840-2	$\leq 2.0 \& > 0 \text{ in}^1 \text{ wc}$	.53	7.5.	4.	. 52	.52	63	. 7.3
		PDI-840-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.52	75.	25.	.52	χς.	,52	.52
4.1.1.7	Vault re-circulation	¹PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STEK	57134	Als	STBV	57.84	5187	5786
	filter plenum (HVP-812) AP	PDI-841-2	≤2.0 & > 0¹ in. wc	र्डाक्रे	570-7	काव्य	57.84	1878	STBY	STRV
	770-141	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	2704	5787	5784	57.6%	5180	STRU
	200 area re-circulation	'PDI-831-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.31	133	ا ي.	15.	.3/	. 3.2	,72,
	filter plenum	PDI-831-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	<b>1</b>	12	05'	14.	14.	1/5 .	( / ,
		PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	3	.38	35.	.35	,35	45.	ر ارد ارد
	200 area re-circulation	¹PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.23	.23	.23	.23	. 23	.23	.23
	filter plenum (HVP-802) AP	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	25:	، جا	S.	15.	.52	15.	. 5/
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5	۲۵.	49	. 49	49	64.	64.
		<sup>1</sup> PDI-807-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	0F	++0	710	OFF	940	OFF	OFF
4.1.3.4	North Bleed off filter plenum	PDI-807-2	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	2 of	444	OFF	OFF	OFF	OFF
	(FF-820A) △F	PDI-807-3	<2.0 & > 01 in. wc	OFF	140	140	OFF	OFF	OFF	OXK
	North Reed off filter	¹PDI-809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, ro	<b>.</b>	٥	٥	,06	20.	40.
4.1.3.4	plenum (FF-820B) $\Delta P$	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	13:	15.	15.	151	15.	.51	.51
		PDI-809-3	≤2.0 & > 0¹ in. wc	क्रम:	‰ ア :	٤.	60,	. 48	66.	. 49

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 2 of 4)

13 4.2-13 4-5.13 4.4.13  Tue Wed Thu.  SURVEILLANCE RE  (in. we)  30 35 32  30 35 32  40 40 40  40 40 40  40 40 40  40 40 40  40 40 40  40 40 5784  5784  5784  5784  5784  5784  5784					(Page	(Page 2 of 4)					į
Description   Gauge   Acceptance Criteria   Nor.   The   Description   Gauge   Acceptance Criteria   North Basement exhaust filter pleanum (FF.828)   PDI-829-1   S.O.& > 0' in, we   .20   .2				Date:	4-1-13	4.2-13	4-8-13	4-4-13	4.5.13	4-6-13	4-7-13
Description   Cauge   Asseptance Criteria   SURVELLIANCE RE				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
North Basement exhaust   'PDI-829-1				Initials:	XX	36	भूत	74	R	7.0	70
PDI-829-1   \$2,0 & > 0' in we   .06   .04   .07   .0	SRs	Description	Gauge	Acceptance Criteria			SURVE	SILLANCE RE (in. wc)	SSULTS		
		North D		$\leq 2.0 \& > 0^1 \text{ in. wc}$	90.	30.	70.	10,	,06	30	70.
100 area re-circulation   PDI-833-1   \$\( 2.0 & > 0^{\text{in}} \) \( \text{Moc} \) \( \text{in} \) \( \text	4.1.3.4	filter plenum (FF-828)		$\leq 2.0 \& > 0^1 \text{ m. wc}$	12.	IE.	.28	, 22,	.22	. 22.	. 22
PDI-833-1   \$\insightarrow{2}{2}.0 &> 0^1 \text{ in, we}  \text{go}   \text{go}   \text{go}   \text{go}   \text{go}  \			PDI-829-3	$\leq 2.0 \& > 0^{1} \text{ in wc}$	.20	.20	.25	12,	.2/	. 2.1	,2,
HIVP-803  AP   PDI-833-3   \$\insigma_{\chi} 2.0 & > 0^{\chi} \text{ in. wc} \qquad \qquad \qquad \qquad \qqqqq		100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	89	06.	96.	, 3/	.90	06.	. 30
100 area glovebox		filter plenum (HVP.863) AP	PDI-833-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	94	eh.	8 h.	84,	84.	87,	74.
100 area re-circulation   PDI-835-2   \$\leq 2.0 & \times 0^1 in. wc   \times 144   \times 145   \times 15.0 & \times 0^1 in. wc   \times 144   \times 145   \times 144   \times 145   \times 15.0 & \times 0^1 in. wc   \times 144   \times 146   \times 144   \times 146   \times 144   \times 146   \times 144   \times 146   \times 146   \times 146   \times 144   \times 146   \times 1	4.1.1.7		PDI-833-3	$\leq 2.0 \& > 0^4 \text{ in. wc}$	.45	34.	Sh'	541	Sh.	4.5	sh,
HVP-804) AP   PDI-835-2   \$\leq 2.0 & > 0^1 in. wc   .44  45  44  45  44  45  44  45  44  45  44  45  44  45  44  45  44  45		100 area re-circulation	¹PDI-835-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 13	5.	.13	113	5/.	.13	.13
PDI-835-3   \$\leq 2.0 & \times 0^1 in. wc   \times 1.9		filter plenum	PDI-835-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	k1-	٠٧٣.	54.	44,	54.	44.	777.
PDI-815-1   \$\lequiv{2}\text{c} & \text{.1q} & .1		187 (±00- ±±11)	PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.H.	و۲.	٥٨٠	05.	ah.	oh.	( 4 )
100 area glovebox			<sup>1</sup> PDI-815-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	61.	91.	41.	61.	.20	. 19	610
exhaust filter plenum         PDI-815-4         \$2.0 &> 0¹ in. wc         .37         .38         .35         .38           PDI-815-5         \$2.0 &> 0¹ in. wc         .40         40         .39         .39         .39           PDI-815-5         \$2.0 &> 0¹ in. wc         .40         40         .39         .39         .39           PDI-816-1         \$2.0 &> 0¹ in. wc         .40         40         .39         .39         .39           PDI-816-1         \$2.0 &> 0¹ in. wc         .40         .40         .39         .39         .39           PDI-816-2         \$2.0 &> 0¹ in. wc         .3187         \$7134         \$7184         \$7184           PDI-816-5         \$2.0 &> 0¹ in. wc         \$7187         \$7187         \$7184	4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^4 \text{ in. wc}$	ĺk.	٥٦.	0/0	141	.41	14.	16.
PDI-815-5   \$\leq 2.0 &  &  \dots \rightarrow \rig		exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.37	3.8	. 35	. 38	.38	-38	.38
PDI-816-1   \$\leq 2.0 & > 0^1 in. wc   \$\rightarrow{\text{Figs}}\$   \$\ri			PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<b>0</b> +·	40	. 39	68.	. 40	. 35	04.
100 area glovebox			1-918-IDI	$\leq 2.0 \& > 0^1 \text{ in. wc}$	न्छिर	57134	57.134	5704	57.84	5 TBY	5781
PDI-816-4 \$\leq 22.0 & > 0^1 in. wc \ STBY \ \frac{\sqrt{31}}{\sqrt{31}} \ \frac{\sqrt{31}}{\sqr	4.1.3.4	100 area glovebox	PDI-816-2	0	STBY	57134	2707		57.67	STBY	5134
\$2.0 &> 01 in. wc ST& \$7.84		exhaust filter plenum (FF853) AP	PDI-816-4	< 30.0	STBY	27.134	47.07		57.8%	STBV	5784
			PDI-816-5	0	STIBY	787	212	5787	5784	5784	5784

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

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			Date:	4-1-13	4-2-13	4-3-13	4-4-13	4.5.13	4-1-13	4-7-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri,	Sat.	Sun.
			Initials:	nm	Hee	Me	7 6	an	pr	74
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	51.03	57.07	STRV	57.84	STBV	STRV
	exhaust filter plenum (FF850) $\Delta P$	PDI-812-2	$\leq 2.0 & > 0^{1} \text{ in. wc}$	STBY	27.037	1210	57.B.V	5787	STBV	STRU
4.1.3.4		PDI-812-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STIBY	2194	12,12	5TB1	57.84	5 781	57.84
		PDI-812-4	≤2.0 & > 0 in. wc	STBY	57.07	1818	5481	37.64	5781	STRI
		PDI-812-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	\$1.87	57131	Fc11-8	5784	57.8%	C T BV	57.80
	200 area glovebox	<sup>1</sup> PDI-813-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	AK.	74	72.	.67	63.	.67	.67
	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	30	30	32	,28	.30	. 29	. 29
4.1.3.4		PDI-813-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	30	86.	.28	.30	. 28	ر. 00
		PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	1,30	.29	. 29	.30	, 29	,29
		PDI-813-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.25	35	77	. 22	.21	22	, 22
	IFIT exhaust filter plenum	¹PDI-865-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.03	٩	1.04	40.	40.		ho'
4.1.3.4	(FF-865) ΔP	PDI-865-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	98.	.35	35.	.35	,35	,35	. 35
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	H.	7.	7	14.	04.	(4-	14.
	IFIT supply filter plenum	¹PDI-863-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	90.	<b>3</b> 0.	3	101	, 05	.06	90,
4.1.3.4	(HVP-863) AP	PDI-863-2	≤2.0 & >0¹ in. wc	Ē.	\$	٠ ٣٥	.41	04.	16.	//.

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(Page 4 of 4)

				(On -)	(1 to 1 cgm +)					
			Date:	4-1-13	4.2-13	4-3-13	£1-h-h	4.5.13	E1-07-17	4-7-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fпi	Sat.	Sun.
			Initials:	* \	2 m	3	6	99	Pr	,
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	SULTS	,	
7137	North Basement supply filter plenum	1-728-IDd1	< 2.0 & > 01 in. wc	.18	6).	61	6/.	6/.	5/3	6).
4.1.3.4	(HVP-840) ΔP	PDI-857-2	$\leq 2.0 \& > 0^1 \text{ in, wc}$	٦4.	چ ک	707	777	84.	7.8	677
4.1.3.4	North corridor supply filter plenum	1-958-IQd,	<2.0 & > 0" in wc	.11	0).	01.	01,	1/:	114	/) •
	(HVP-809) ΔP	PDI-856-2	<2.0 & > 01 in. wc	112	/د.	۱۲.	16.	/,,	1/4	, ,
NA .	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	SATE	TH'S	7 45	N T	SAT	547	5.87
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles		\ >					
			wunn 3.5 teet perpendicular from the face of the PMMA, the							
			between gloveboxes, or up to the walls of the		)/					34
			rooms, whichever is less	SAT	SAL	Spl	547	SAT	SAY	SAT
			Completion time	උපහ	0810	5180	0835	0823	0746	0 742
	OC Operator Rev	view and Page C	OC Operator Review and Page Count Complete (initials)	00	S BB	200	4	3	63	. 3
Non TSR	Non TSR requirement				2					-

Non 13K requirement
Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Reviewed by DUS Completed by: Pand Lingth Date 4-7.13 Time 0742

Comments:

# ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

			M&TE Calibrated Data			
	PF-10 Thermometer File No.:	547450	PF-10 Thermistor File No.: O + 22 5 U	0422 54	V-701 Thermistor File No.: O y O 3 7 3	040373
Record September	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
through April only	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.: $040376$	040376	V-704 Thermistor File No.: 0397 44	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date: 8 -13-13	8-13-13	Calibration Expiration Date: 8 - 13 - 13	8-13-13

	PF-10 & PF-11 Pumpho	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	I V-701 & V-70	4 Fire Water	Storage Tank	emperature			
		Date:	4-1-13	4/2/13	4-1-13412/13 4/3/13 4/4/13	4/4/13	4/5/13	4/6/13	51/2/4
	Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	79	7	7	7	4	Ø	3
SR	Description	Acceptance Criteria							
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	SAT) UNSAT	SATUNSAT	SAT JUNSAT	SAT UNSAT	(SAT) /UNSAT	SAT /UNSAT	SAT UNSAT
4.3.1.1	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	51.2	51.5	51.1	50.8	51.3	52.1	52.6
4.3.1.1	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	50.7	51.1	51.3	51.9	52.7	53.5	4.45
4.3.1.3	RECORD PF-10 room temperature	≥ 50.1 F	1759	C3-7	419	62.2	63.5	65.4	7-99
4.3.1.31	RECORD PF-11 room temperature	≥ 50.1 F	64.2	66.2	(20.3	59.8	58.5	0,00	1.19
		Completion Time:	09 18	0825	SH80	10825	0815	0101	4550
	OC Operator Review and Page Count Complete (initials)	- 1	8	\ \&	183 MS	88 P	100	Da	8
								-	111

1 Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Reviewed by: On-duty Supervisor Completed by:

Time: 0745 Date: 7-8-13

Time 0934

Date 4-7-13

Comments:

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

		<del>,</del>	1.													
5	Sun.	PM	18		- C-2	98.)	857	200	A.O.	40	100	40	610	Qė	\$1.0	135
St-(4-13	S	AM	à		707	85	13.	107	2	6	10	90	<u>8</u>	,0	12	134
113/13	Sat.	PM	18	Ŧ	70%	40,	44	3	A S	540	N. 0	Ot O	8/0	0,0	5,0	×2/0
77	S	AM	Cros	₹ .	100	80	8	6	4.	is,	5	5.	5.	9,	5	£.
E//e/	Fri.	PM	1/2	JLTS	20	60	8	10	50	540	7.0	ot <sup>o</sup>	5/0	0,0	5/0	25/0
14	H	AM	£4 €	SURVEILLANCE RESULTS (in. wc)	cat	8.	6.7	1,88/1	D Ó	Co.O.	LE O	OL O	Fa	0	É	, O.
Mulis	Thu.	PM	9	ANCE (in. wc)	1 3	2	1 %	5/1~	6.1	في	-,22	18	V	2	5	23
		AM	2	LLA] (in.	600	1.36	81,	8/	d Z	40	16.00	Original Control	D. 0	<i>ò</i> <i>ò</i>	E110	B.O.
K-13	. <i>Wed.</i>	PM	9	VED	203	36	56%	30	19	20 22	)  <del> </del>  -	1, 0'E	2	6).	9 -	18
1.4.6	M-W	AM	900	SUR	3.03	88.	348	20.5		0.20	V28g	978	2	20	€.	£.0
3.13	Tue.	PM	13/	}	30.4	Ja.	8,	JO:4	s, o	400	14.0	12.0	5 P.O.	Q.	67.0	45,0
64-69-13	T	AM	8		1-03	06-1-	1.59	<u>a:</u>	P1.	22	7	9	1.	01.	W	137
12		7	11/1	ı			$\sim$	- / ·	1 1	1.	_ 7					-
à	lon	PM	14/		10%	18	جي ا	8	8). ()	(4°.0′	OR: O	80.	14.	1.0.	5'0' 7	W.O.
51-80-13	Mon.	AM PI	8c		201 70	4.89	-1-97	-(.8 (a)	318 0.18	12. O. 12.	%. O. 82.	. o. B.	1.0. Pi	1.0. 01:	5'0' 81:	185 ON
Date: 04.08.	•		77	criteria	wc l	wc1	wc <sup>1</sup>	in. wc¹ - <b>(.\$</b>	wc : :18	wc¹ .2.	wc <sup>1</sup> .23	in. wc <sup>1</sup>	-19	in. wc :10	.13	.185
	ë .	AM	80	tance	10	4-86	-[-97	wc <sup>1</sup>	81:	<u>'2</u>	.23	wc <sup>1</sup> .z		wc :10		< 0.00 in. wc :185 O.W.
	•	AM	80		wc l	wc1	wc <sup>1</sup>	r ≤-1.0 in. wc¹	<-0.05 in. wc <sup>1</sup> :18	\$\leq -0.05 \text{ in. wc}\$	<-0.05 in. wc <sup>1</sup>	<.0.05 in. wc <sup>1</sup> .71	<-0.05 in. wc	or < 0.00 in. wc	< 0.00 in. wc	< 0.00 in. wc
Date:	•	if Shift: AM	80	Acceptance	<-1.0 in. wcl	or <-1.0 in. wc <sup>1</sup>	<-1.0 in. wc <sup>1</sup>	r ≤-1.0 in. wc¹	<-0.05 in. wc <sup>1</sup> :18	x ≤-0.05 in. wc¹ .21	or <-0.05 in. wc <sup>1</sup> -23	r <-0.05 in. wc <sup>1</sup>	-19	< 0.00 in. wc	r < 0.00 in. wc	or < 0.00 in. wc

## ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					(I ago	6 01 3)								
;	Note		Date:	81.8-10	94.	04.09.13	HIPITS	1/11/13		4/19/13		4/13/13	700	00 rd . 12
Reading:	Readings should be taken using FCS screens		Weekday:	Mon.		Tue.	, Wed.	Thu.	n.	Fri.		Sat.	Š	Sun.
FMT#15	FMT#151,152,201LD		Shift:	AM PI	PM AM	1 PM	AM PM	AM	PM /	AM PI	PM AM	4 PM	AM	PM
and 2021 and local r be used iff	and 202LD. Freid vernication and local plenum PDIs may be used if FCS is unavailable.		Initials:	8	86	1 B	960	28	9	13/	181	R	N N	13
SRs	Description	Readings	Acceptance Criteria				SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	RVEILLANCE RESUL Sat. / Unsat. (circle one)	CE R (circ)	ESUL7 e one)	4			
	200 area re- circulation fan/		At least one fan/plenum is in		<b>®</b>		(Say (Say	Can .	Sat	(Say) (Say)	at Cat	Sat		Sat
	plenum	FR-802 Icon red and PDT-832 $\Delta P > .050$			sat Uns	at Unsat	Unsat	t Unsat	Jnsat U	nsat Un	sat Unse	nt Unsat	Unsat	Unsat
	100 area re- circulation fan/		At least one fan/plenum is in	Sat Sat		(B)	Sat Sail	<b>3</b>	(Sat)	Sat	(S)	Sat	(Sal)	B
	plenum	F.R-804 Icon red and PDT-835 ΔP >.050	service	Unsat Uns	sat Onse	nt Unsat I	Unsat	t Unsat (	Jnsat U	nsat Uns	sat Unsa	ut Unsat	Unsat	Unsat
4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in	Sat Say			(ES)	Sat	(Sat)	Jeg Agg	Sar Zar	Sat		(Sal
	plenum	FR-806 Icon red and PDT-837 AP > .050		Unsat Uns	at Unsa	ut Unsat (	Unsat	t Unsat L	Insat U	nsat Uns	at Unsa	t Unsat	Unsat	Unsat
	400 area re-	FR-807 Icon red and PDT-838 $\Delta P > .050$	At least one	(Say)	Sat	(Z)	Sar Sar	(Sa)	(gg)	Sat Ear	(Sa)	gat	(Eg	Sat
	plenum	red and P>.050		Unsat Uns	at Unsa	t Unsat U	Unsat Unsat Unsat Unsat Unsat Unsat		Unsat U	Unsat Unsat Unsat Unsat Unsat Unsat	at Unsa	t Unsat	Unsat	Unsat
	Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$	At least one fan/plenum is in	Sat	Sat		(Sal) (Sat)	<b>(3)</b>		Sal Sal	Sat	Sat	(Saf	Sat
	fan/ plenum	FR-812 Icon red and PDT-841 $\Delta P > .050$		Unsat Uns	at Unsa	t Unsat L	Unsat	Unsat	nsat U	nsat Uns	at Unsa	tUnsat	Unsat	Unsat

### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

						1		Ī		-				-				
(	Note			Date:	0/-98-13	2	04.09.13		6//8//7		1111/	(1)	4/13	//3	4/11/13 4/13/13 4/13/13		or whis	43
Gauge read	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	iken on ra I equivale	ck #4 in	Weekday:	Mon.	on.	Tue.	<i>ა</i>	Wed.	ਜ	Thu.	نہ	Fri		Sat		Sum.	į.
be used if ne	be used if necessary. Document any alternate	nt any alte	rnate	Shift:	AM	PM	AM	Μď	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
L Dis used.				Initials:	8	13	36	(X)	6/90	9	£	9		13	(F)	1/3	12	1/3
SRs	Description	Area	Gauge	Acceptance Criteria		\			SUR	VEIL at. / U	RVEILLANCE RESUI Sat. / Unsat. (circle one)	CE RI (circle	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	JS (		) (		[ (
	Glovebox exhaust header APs	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803- 2 < PDI-804-2	Chisat	Sat Unsat	Sat Constitution	Unsat	(Sa) (Sa) (Sa) (Sa) (Sa) Unsat Unsat Unsat Unsat	Sat Unsat	Sat Unsat L	Sat	Sat C	Unsat	Unsat	Sat	Jusat L	Sat
4.1.1.4	< laboratory APs < basement APs for areas 100, 200, 300	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	Unisat	Unsat	Sat	Sat	© Chsat (	Sat	Sat Unsat L	<b>රිම් රි</b> න් Unsat Unsat		Sat	Sat Sat Eat Unsat Unsat Unsat		Tage 1	nsat (
	and 400	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	Unsat	Sag C	nsat (		Tage (	Sat	Jusat C		Chrsat C	ag (	Unsatu	Tage (	Sagara Sagara	Insat
		400 Area	400 Area PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852-	(Susat	Cnsat	Oursat	Unsat	Sat Unsat U	Sab Sat Unsat Unsat		(ag) Unsat	Sat Unsat U	Sat	Unsatu	Sat		nsat Sat
			Completion Time	on Time														
					חה	1928	ORY 1934	25	737	S. C.	92 OTSS 1932		1220	328	otex (928) (932,0127) 1948	932c	727	1948

Note: 2 SRs 4.1.2.x only apply/during mode 2 in accordance with LCO 3.1.2. Note: <sup>1</sup> Mode 2 acceptance criteria is < 0,00 in. wc

Date 4/4/1/ Frime 1928 Reviewed by: Doct

Comments:

Completed by:

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:	0/8/6	4-9-13	4-10-13		4-11-13 4-12-13	4/13/12	04V14V3
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	da	SC.	Sal	7 4	, K &	(Hull)	ra
	Description / Gauge	Acceptance Criteria		3,	SURVEILLAN	SURVEILLANCE RESULTS (percentage)	(percentage)		
	Flammable Gas Channel								·
SR	Check DET-305-3 (LCD Reading)	NA	0.3	(0005)	(300)	(300)	603)	(502)	(500)
4411	CP-305-H (LED	-			) (				
*	Reading)		0.3	005)	(300)	(500)	(505)	(\$00)	600
		Record Calculated						)(	
	(DET-305-3) - (CP-305H)	Value	0.0	(60s)	500	(000)	(500)	(500)	600
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sa. / Unsat.	Set. / Unsat.	Sat Linsat.	Sat /Unsat.	Sat. Linsat.	Sat. / Unsat.	Sat / Unsat.
		Completion Time.	1779	)	1,00			) (	)
			0842	0 00 00	000	0733	0778	0818	- CE

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 2 of 4)					
			Date:	4/8/13	4/8/13	4110113	4-11-13	4 12- 13	5/61/2	E/MI/Ano
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	gm	34	25	79	70	1	Ry S
SRs	Description	Gauge	Acceptance Criteria	,		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 & > 0^{1} \text{ in. wc}$	60.	80.	60.	60.	60.	0]	S.
	(HVP-841) AP	PDI-894-2	≤2.0 & > 0 in wc	84.	64.	٠ ۲٩	27,	) 2	370	F
7 6 7 7	South Corridor supply (HVP-	<sup>1</sup> -895-1	≤ 2.0 & >0'm. wc	11.	11.	17:	. 13	6/3	13	51.
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	16.	.95	.95	. 97		1.0	0.7
		1-718-IQ41	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.28	76.	. 28	.28	, 28	.78	75.
4.1.3.4	300 area glovebox	PDI-817-2	<2.0 & > 01 in. wc	31/2	18.	30	18.	15,	,30	30
	exnaust inter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.31	30	.30	.3,	.3	131	15
		PDI-817-5	≤2.0 & > 0¹ in. wc	30	30	330	0 %	30	.30	30
•	300 area special	PDI-81 9-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	lh'	1/h	lh	17,	73.	J.	G.
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-819-3	≤2.0 & > 0¹ in. wc	141	17	95	/ 7.	/11.	15,	Í.
	(FF858) <b>AP</b>	PDI-819-4	≤2.0 & > 0¹ in. wc	36	.32	32	.32	.32	163	1
		<sup>1</sup> PDI-818-1	≤2.0 & > 0¹ in. wc	57.84	57.64	STBY	57.84	57811	STRAY	3
4.1.3.4	300 area glovebox	PDI-818-2	≤2.0 & > 0 in. wc	STBV	67 (71	57.07	STRV	STRV	अध्येद	F
	exnaust niter pienum (FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.BV	37,01	57.134	57.84	STRU	ST13.4	A.S.
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STRV	57.37	15119	57.84	5781,	STOY	XG.FS
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	57.67	87.87	57.84	5784	STON	SE <sub>D</sub> V
4.1.3.4	exhaust filter	PDI-821-3	≤2.0 & > 0 in. wc	STBY	5707	43/184	57.84	5+184	STBY	SEV.
	(FF859) AP	PDI-821-4	≤2.0 & > 0¹ in. wc	87.13 4	57 184	57.84	5784	5184	STRY	4th

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 3 of 4)					
			Date:	4/8/13	4-9-18	4-10-13	1-11-H	4-12-13	9/13/13	CVATANO
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
			Initials:	Jan	326	2 See	74	16	0.4.0	Ç
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-822-1	<2.0 & > 0 in. wc	59.	. 65	.65	ڊ د	9	.65	13
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15°	.50	. 50	, 50	, 50	350	9
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^1 \text{ m. wc}$	42	42	24.	, 41	77,	225.	A
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	49	<i>\$</i> }~	65.	, 49	64.	156	Ŋ
	· · · · · · · · · · · · · · · · · · ·	<sup>1</sup> PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STB4	2787	704	5781	5784	reas	秀
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STIBL	81131	5187	STBY	5784	STB4	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Stev	5181	57.137	STBY	5 78%	डम्छर्	SE SE
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STGV	MA	5787	STBY	ST8V	STBY	- J
	South Basement exhaust	<sup>1</sup> PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,59	. 60	070	.59	,59	09.	ß
4.1.3.4	filter plenum	PDI-830-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.36	.35	.35	. 35	, 35	35.	.35
		PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	7	.31	().8	.3/	131	,31	3/
	300 area re-circulation	<sup>1</sup> PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	60.	.39	89	189	, 89	50	06.
	filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	54	35.	.55	. 55	, 55	. 35	.53
4.1.1.7	147 (COO X 147)	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.51	15'	. ج.ا	15.	15.	150	.57
	300 area re-circulation	<sup>1</sup> PDJ-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	19:	9	43.	. 62	.62	59.	<i>و</i> َ
	filter plenum ( HVP-806) AP	PDI-837-2	<2.0 & > 01 in. wc	20	.50	٠٤٥	. 50	.50	50	¥.
		PDI-837-3	≤2.0 & > 0¹ in. wc	3/5	<b>₹</b> }.	.45	5/1.	. 45	J.H.	34.

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				(I age	(1 age + 01 +)					
			Date:	4/8/13	4.9-13	4-10-13	4-11-13	4-12-13	4/13/13	SHVHR
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri	Sat.	
			Initials:	Jan.	34	3	40	27	OAPC.	73/3
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	'PDI-838-1	$< 2.0 \& > 0^1 \text{ in. wc}$	.29	38	30	0	08.	.30	×
	filter plenum ( HVP-807) AP	PDI-838-2	<2.0 & > 0 <sup>1</sup> in. wc	14.	oh	0h.	72.	///	0h.	8
4.1.1.7		PDI-838-3	<2.0 & > 0 in. wc	95.	-39	39	39	49	Øh,	×
	400 area re-circulation	<sup>1</sup> PDI-839-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	32.	94،	98.	. 29	129	.30	C
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	S. F.	<b>ማ</b> .	ζ4.	14.	, ,,	F,	Í
	187 (000 14.11)	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	42	<b>የ</b> 7.	7.	7	777	74,	7
	South Bleed off filter	'PD <b>!-</b> 810-1	<2.0 & > 0 <sup>1</sup> in. wc	<i>5</i> 5°	7.15	-151.	. 15	. 15	10	ıř.
4.1.3.4	plenum (FF-822A) AP	PDI-810-2	<2.0 & > 0 in. wc	0FF	.48	%†·	87.	84.	84,	y T
		PDI-810-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	OFF	41	٠, ٩٤	145	42	74.	돠
	South Bleed off filter	¹PDI -811 - 1	≤2.0 & > 0¹ in. wc	. 11	94	740	0	DXF	OFF	Ho
4.1.3.4	plenum	PDI -811 -2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	545	770	240	DFF	OFF		j.
	AL (41944D) AL	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	97.	30	0 ff	, L	340	242	, ध्
			. Completion Time	0330	0810	7280	0730	5120	_	<b>GB</b> 57
00	OC Operator Review and Page Count Complete (initials)	age Count Comp	olete (initials)	RS 6790 JOH HE	300 140	ord /				80
							L	100	L	

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Completed by: Maybut I Date Other Time Off Reviewed by: Conduty Supervisor On-duty Supervisor

of Comments 58 4.4.1.1

Date: 15-12 Time: 10 4

SAME BS

4/10/13 \$0x00

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 1 of 4)					
			Date:	2/8/13	4-4-13	4-10-13	4-11-13	4-12-13	£1/61/h	SF.14.15
			Weekday:	Mon.	Tue.	Wed.	Thu.			Sun.
			Initials:	J. J	Bul	200	70	9	Ą	И
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 & > 0^1 \text{ in. wc}$	.15	57.84	57.87	14.BV	C 770 1.	2002	Z V
	filter plenum (HVP-811) AP	PDI-840-2	<2.0 & > 0 in'. wc	.52	37.131	51/51	57.8 V	5731	इस्पट	/aD
		PDI-840-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	15.	87134	57.87	STRU	5 7 811	Large	Z TEN
4.1.1.7	Vault re-circulation	¹PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	37.84	hh:	hh:	hir.	777	1.7.	3
	filter plenum (HVP-812) AP	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	٠٤٠	15.	. 52	, 52	125	.52
		PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBX	0.5	0.5.	, 50	Ŝ	0 <u>0</u>	05'
	200 area re-circulation	1-1E8-IQI <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	(ε.	132	,32	.32	32	.37
	filter plenum (HVP-801) AP	PDI-831-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	15.	40	٠4٥	. 1/1	14:	oh,	04'
		PDI-831-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	35	.32	132	,32	,35	, 33	33
	200 area re-circulation	'PDI-832-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.23	3.3	52.	. 22	, 23	,2٧	12.
	filter plenum (HVP-802) AP	PDI-832-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	15.	ری	3	.51	18.	15.	15.
		PDI-832-3	<2.0 & > 0 in wc	64.	6h.	bh.	Sh.	67.	550	6h'
		1-208-IQd,	<2.0 & > 01 in wc	240	11.	11,	1	(),	1.	=
4.1.3.4	North Bleed off filter plenum	PDI-807-2	<2.0 & > 0 in. wc	off	.30	08'	90	08.	0 <del>8</del> °	.79
	(FF-820A) $\Delta F$	PDI-807-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	255	bh:	٠4٩	, 49	64.	5h.	64.
	North Bleed off filter	¹PDI-809-1	$<2.0 \& > 0^{1} \text{ in. wc}$	90.	0++	240	0 7.7	OFF	OFF	OPT
4.1.3.4	plenum (FF-820B) $\triangle P$	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	/\$:	40	770	カドド	OFF	240	SPP S
	,	PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Ch:	240	04	075	0 75	多	OFF

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

Site   Description   Protestary   Man   The   West   Thu   Thu   Thu   Site   Sulfaboration   Protestary   Man   The   West   Thu   Thu   Site   Sulfaboration   Protestary   Man   The   West   Thu   Thu   Site   Sulfaboration   Protestary   Protestar					(Page	(Page 2 of 4)					
Note Beserrate channel (FP-532)   Note that are pleasured technology   PD-532-9   SOR > O'   SOR   S		8		Date:		4-6-13	4-10-13	H-11-13			04.14.8
North Basement change		¥		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.		Sun.
PDI-829-1   SCO& North Basement exhaust   PDI-829-1   SCO& North Basement exhaust   PDI-829-2   SCO& North Basement exhaust   PDI-829-2   SCO& North Basement exhaust   PDI-829-2   SCO& North Basement exhaust   PDI-829-3   SCO& North Max   19   34   34   35   32   32   32   32   32   32   32				Initials:	gm g	32	zre	70	4 4	F.C.	季
PDI-839-1   \$20.8 \( \phi \)	SRs	Description	Gauge	Acceptance Criteria			SURVE	SILLANCE RE (in. wc)	SULTS		
Holespeed   PDE-829-3   \$\leq 0.0 & \rangle 0.0		North Bacement exhanct	<sup>1</sup> PDI-829-1	0.8%	50.	30.	80.	80,	90.	so.	Ŕ
100 area re-circulation   PDI-833-1   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-1} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-1} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-2} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-2} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-3} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-3} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-3} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-3} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-3} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-3} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-3} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-3} \)   \$\( 2.0 & > 0^1 \text{ in we} \)   \( \text{Pol-833-3} \)   \	4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 & > 0^1 \text{ in. wc}$	.21	.25	49	. 29	ht.	82,	33.
FDI-833-1   \$\int \text{PDI-833-1} \rightarrow \alpha \tilde{\text{PDI-833-2}} \rightarrow \alpha \tilde{\text{PDI-833-2}} \rightarrow \alpha \tilde{\text{PDI-833-3}} \rightarrow \alpha \tilde{\text{PDI-815-1}} \rightarrow \alpha \te			PDI-829-3		61.	77.	.25	. 25	, 22	11.	30
HVP-803  AP   PDI-833-2   \$\insigma_{0} \color{\text{PDI-833-2}} \rightarrow{\insigma_{0} \color{\text{PDI-833-3}}} \rightarrow{\insigma_{0} \color{\text{PDI-835-3}}} \rightarrow{\insigma_{0} \color{\text{PDI-835-3}}} \rightarrow{\insigma_{0} \color{\text{PDI-835-3}}} \rightarrow{\insigma_{0} \color{\text{PDI-835-3}}} \rightarrow{\insigma_{0} \color{\text{PDI-835-3}}} \rightarrow{\insigma_{0} \color{\text{PDI-815-2}}} \rightarrow{\insigma_{0} \text{PDI		100 area re-circulation	<sup>1</sup> PDI-833-1		.89	. 89	.90	16.	160	25"	96.
100 area re-circulation   PDI-835-1   \$\left( 2.0 & \times \right) \times \right( \frac{1}{14} \right) \cdots \right( \frac{1}{14} \right) \frac{1}{15} \right) \frac{1}{15}  \fr		filter plenum (HVP-803) AP	PDI-833-2	9.		.45	82.	84.	87.	84.	th.
PDI-835-1   \$\( \frac{1}{2}\text{0.0}\text{ in. wc} \)   \( \frac{1}{1}\text{0.0}\text{ area recirculation} \)   \( \frac{1}{1}\text{0.0}\text{1.0}\text{ d. v.} \)   \( \frac{1}{1}\text{0.0}\text{ area glovebox} \)   \( \frac{1}{1}\text{0.0}\text{1.0}\text{ d. v.} \)   \( \frac{1}{1}\text{0.0}\text{ d. v.} \)   \( \frac{1}{1}\text{0.0}\text{ d. v.} \)   \( \frac{1}{1}\text{0.0}\text{ area glovebox} \)   \( \frac{1}{1}\text{0.0}\text{1.0}\text{ d. v.} \)   \( \frac{1}{1}\text{0.0}\text{ .0}\text{ in. wc} \)   \( \frac{1}{1}\text{0.0}\text{0.0}\text{ in. wc} \)   \( \frac{1}{1}\text{0.0}\text{0.0}\text{ in. wc} \)   \( \frac{1}\text{0.0}0	4.1.1.7		PDI-833-3	0.	hh.	٠٠٤.	SH.	517,	٠ ٨٤	91,	7
HVP-804  AP   PDI-835-2   \$\leq 2.0 & > 0^1 \text{ in. wc}   \text{.43} \text{.43} \text{.44} \text{.44} \text{.42} \te		100 area re-circulation	<sup>1</sup> PDI-835-1	0	(13	61.	٤١.	5/3	- 13	,13	1.
PDI-835-3   \$\leq 2.0 & \leq 0^1 \text{ in. wc}  \text{, 40}  \text{.40}   \text{.40}   \text{.40}  \text{.40}   \text{.40}   \text{.40}   \text{.40}   \text{.40}   \text{.40}   \text{.40}   \text{.40}   \text{.40}   \text{.40}   \text{.40}   \text{.40}   \text{.40}    \text{.40}   \text{.40}   \text{.40}		filter plenum (HVP-804) AP	PDI-835-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.43	. 43	٠ 4	. 42	, 4 2	413	2,7
PDI-815-1   \$\leq 2.0 & \times 0^1 \times 0^1 \times 0^2 \rightarrow   \frac{4787}{36} \frac{57.634}{57.634} \frac{57.63}{57.634} \frac{57.634}{57.634}			PDI-835-3	0	14.	01.	94.	07.	07	ر ت ک	94.
100 area glovebox			<sup>1</sup> PDI-815-1	0 &	12.	51.137	57.04	5784	5784	1878	Years
PDI-815-4   \$\leq 2.0 & > 0^1 \text{ in. wc}   \frac{36}{7137} \rightarrow \frac{57137}{5769} \rightarrow \frac{57189}{5769} \rightarrow \frac{45}{5769} \rightarrow \frac{57189}{5769}	4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	£43	8104	57.83	CT R 1/	57.81	YE4.=	ATP.
PDI-815-5   \$\leq 2.0 & \circ 0^1 \text{ in. wc}   \text{40}   \text{4787}   \text{5789}   5		exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	38	57131	1015	STRY	STBU	大山	300
PDI-816-1   \$\leq 2.0 & > 0^1 in. wc   \$\leq 1.38 \cdots \cdos \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots			PDI-815-5		940	47 67	5134	3.787	1845	5704	STEN
100 area glovebox			<sup>1</sup> PDI-816-1	0	X873	48	,38	85.	, 38	,38	.38
PDI-816-4 ≤2.0 &>0¹ in. wc 57.8y .45 .43 .43 .44 .45 PDI-816-5 ≤2.0 &>0¹ in. wc 5713y .45 .45 .45 .45	4.1.3.4	100 area glovebox	PDI-816-2	$0.62 > 0^{1}$ in.	STBY	٠ ﴿م	٠, رح	. 4 S	571	Zh.	hb,
Ch. 34. 34. 34. 45 45 45 50.05		exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	45	۵.	\$ [7 4	. 4.	Sh.	:45
			PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	151.13	**	.45	5 4 .	3 7	,5.	127

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

				(rage	(rage 5 01 4)					
			Date:	4/8/13	4-9-13	4-10-13	51-11-12	4-12-13	१/ध/५	5/13/13 04.14.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri,	Sat.	Sun.
			Initials:	dir	Ace	ma	7+	1 0	Tes	a d
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBV	٦١.	7-	KI,	3,	12	P1.
70	exhaust filter plenum (FF850) ΔP	PDI-812-2	<2.0 & > 01 in. wc	STBY	.31	.31	.31	- 3/	28.	.32
4.C.L.4		PDI-812-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.34	.32	.32	.32	,32	75,	Ch.
		PDI-812-4	$\leq 2.0 \& > 0^{1} \text{ in. we}$	STBV	, 30	.30	131	,3/	15.	.3(
		PDI-812-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	87.89	.29	. 21	, 29	. 29	٥٤.	320
	200 area glovebox	¹-813-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	1,1	81.187	1865	5 T.BY	STBY	5701	STEV
	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	29	1013	2187	STB1	5784	7842	STEV
4.1.3.4		PDI-813-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	62.	57 157	51131	5784	57.8 y	STUN	STBY
		PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	30	1015	57.157	STBV	57.84	STAY	STEV
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.23	5707	5704	5781	57.8y	5704	STBY
	IFIT exhaust	¹PDI-865-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	10.	10.	HO.	, 64	,00	, cy	).o.
4.1.3.4	(FF-865) AP	PDI-865÷2	<2.0 & > 0 <sup>1</sup> in. wc	75,	. 35	32	, 33	. 33	,33	,34
		PDI-865-3	≤2.0 & > 0¹ in. wc	16,	0h'	Oh'	115	14.	05.	٠ ا
11.6	IFIT supply filter plenum	1-863-I	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	20"	<b>3</b> 0.	J9 .	200	. 67	، مات،	10.
4.1.3.4	(HVP-863) ΔP	PDI-863-2	≤2.0 & >0¹ in. wc	04.	67.	5	1 / 1	1 17	0h,	. H.

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 4 of 4)

				(I age	(1 ago + 01 +)					
			Date:	4/8/13	47-13	4-10-13	4-11-13	4.12.13	4/13/13	4/13/13 04.14.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri	Sat.	Sun.
			Initials:	Am	340	24	7 %	ا ا	(4/6)	8
SRs	Description	Gauge	Acceptance Criteria	9		SURV	SURVEILLANCE RESULTS	SULTS		
4134	North Basement supply filter plenum	'PDI-857-1	$\leq 2.0 \& > 0^{1}$ in. wc	C/	61.	61.	61.	61.	61.	م]
4.1.3.4	(HVP-840) ΔP	PDI-857-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	cs.	. 58	85.	.58	. 58	5.	3
4.1.3.4	North corridor supply filter plenum	<sup>1</sup> -958-Idd <sub>1</sub>	≤2.0 & > 0' in, wc	ıi.	01.	. 10	0).	01.	۵۱،	17:
	(HVP-809) $\Delta P$	PDI-856-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	7	. 65	. 65	, 1.5	89	23	.60
<sup>1</sup> NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	OF TES	sat t	s de	iv A	1- 45	(A)	į,
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMMA, the							
			between gloveboxes, or up to the walls of the rooms, whichever is less	Set	sat	Surt	SAT	547	7(40)	, A
			Completion time	0915	0833	०१५३	MSLO	4440	C835	9836
	OC Operator Rev	view and Page Co	OC Operator Review and Page Count Complete (initials)	R8 3-30	BC Oth	M. Orto		The Other	36 0 €G	8. 040
Note: SR 4.	Non TSR requirement Note: SR 4.1.3.4 applies during mode 1 and mode 2.	and mode 2.		-	7		1	Ž		
Completed by:	No.	— Date <b>riumi3</b> Time <b>CB36</b>	BB Reviewed by:	-	On-duty Supervisor	Jate 15-15	Date: 15-19-19 Time: 1048			
Comments:	>									

## ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

	040313	8-13-13	441680	8-13-13
ñ	V-701 Thermistor File No.: 040373		PF-11 Thermistor File No.: 040376 V-704 Thermistor File No.: 039744	Calibration Expiration Date: 8-13-13
E1.823	45%21-0	5-30-13	915010	8-13-13
O39775 M&TE Calibrated Data	629 コリト Construction Tile No.: 6 い2 255 4	Calibration Expiration Date: 5-30-13	PF-11 Thermistor File No.:	Calibration Expiration Date: 8-13-13
039775	377L 680	5-14-13	039146	5-14-13
	PF-10 Thermometer File No.:	Calibration Expiration Date:	PF-11 Thermometer File No.:	Calibration Expiration Date:
		Record September	through April only	

	PF-10 & PF-11 Pumpho	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	V-701 & V-70	4 Fire Water	Storage Tank 1	emperature			
		Date:	Date: 4-8-13 4-9-13	4-9-13	4/10/13 4-11-13	4-11-13	4-12-13 04.18.18	of.13.13	61/h1/h
	Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	80	W.W.	7	1	ŧ	88	Cसंस्
SR	Description	Acceptance Criteria							
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	SAT UNSAT	SAT JUNSAT	SAT UNSAT	SAT UNSAT	(SA) /UNSAT	SAT JUNSAT	SATYUNSAT
4.3.1.11	RECORD fire water storage tank V-701 temperature	≥,42.1 F	\$2.8	529	56.8	49.6	50.0	50,0	1.05
4.3.1.11	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	S4. C	53.8	51.4	50.9	51.2	520	52.8
4.3.1.31	RECORD PF-10 room temperature	≥ 50.1 F	42.6	62.1	8.85	54.3	61.3	510	62.4
4.3.1.31	RECORD PF-11 room temperature	≥ 50.1 F	59.1	59.0	65.0	63.9	66.2	189	65.3
		Completion Time:	9:57	0833	76844	0844	4160	color	0630
	OC Operator Review and Page Count Complete (initials)		28 000 28 Ove	1 W 1	an RB	B 186	38 GK	A K. S. S. C. 1000 By 1800 85	13/4() <b>8</b> /4

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Time 8730

Time: 1010

4-15-13 Date 4/14/13 Date: Reviewed by: On-duty Supervisor Completed by:

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

				,	)						
(	Note		Date:	4-15-13	4-16-13		4/12/13 4/18/13	4-19-13	E1-02-h	4-31-13	5
Gauge ra taken on	Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	n.
whenever	whenever possible. Document if		Shift:	AM PM	AM PM	I AM PM	I AM PM	AM PM	AM PM	AM	PM
allei Bale I	ancidae rus are used.		Initials:	9	3	1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	S. S	3	3	9	3
SRs	Description	Gauge Acc	Gauge Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	RESULTS		1	,
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	<-1.0 in. wc1	203 74	201 200	100 you	10.5 % Co.1.	-103200	10.5 VO. 5-	-302 2.03	55
$4.1.1.1$ $4.1.2.1^2$	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	<-1.0 in. wc¹	18%	88488 [-		8/18	(81-88)-	1.88/190	061-687	8
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc¹	86)-86'1-		1/2	7,86,	61.861-	1,98-197	967-867	36
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	<-1.0 in. wc <sup>1</sup>	861-40%	202.80	-	12/20/191	197-197	88.1.191-	7	4
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>	61:61:	2	0. 2	700	61-16-	1-0.00-	91.	त्
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	-23 72	76-	0.50	D. 28	27:00:	-0.12 123	-,13	22
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc <sup>1</sup>	727 227	nite;		Die	7: 36:	12. 22.0-	22	138
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc <sup>1</sup>	5,30 5.20	12: 12:	10 pm	Sign Sign	OZ- 61-1	Di- 12.0-	000	6);
	IFIT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	61-10-	81: 61:	0.0	.O.4	61: 61:	P1.0		77
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	31/2 012	.u <sub>9</sub>	0	0,0	01:101:	89.	0	3
4.1.1.3	South basement AP		< 0.00 in. wc	413 514	515	50	2/2	-13 -13	21.2		-12
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	YE1.3 187.	736 -132	3/0	Dion	121- 1321-0-1321-421:		12	-149
								1	٦		J

### ATTACHMENT A: Per Shift Surveillance Rounds

					(Pa	(Page 2 of	£3)									
:	Note		Date:	4-15-13		4-16-13		4/0/13		4/18/13	4-19-13		4-22-13	-13	4-21-13	-1.3
Keadings using FC	Readings should be taken using FCS screens		Weekday:	Mon.	·i	Tue.		Wed.	L	Thu.	Fri.		Sat.		Sun.	i
FMT#15	FMT#151,152,201LD		Shift:	AM	PM /	AM F	PM A	AM PM	AM	PM	AM	PM	AM	PM.	AM	PM
and 2021 and local r be used if l	and 202LD. Fleta vertication and local plenum PDIs may be used if FCS is unavailable.		Initials:	9	ડ	9	= 3	1 min	100	3	9	3	9 %	3	4	3
SRs	Description	Readings	Acceptance Criteria				S	SURVEILLANCE RESUL Sat. / Unsat. (circle one)	LLAT	CE H	ESUI le one	CTS				
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 ΔP > .050 or	At least one fan/plenum is in	) CES	(gg)	Sat	<b>(8)</b>	Sal Sal	3	Sat	Sat	(F)	Sat	(Sat)	8	(Sat
	plenum	FR-802 Icon red and PDT-832 $\Delta P > .050$	service	Unsat	Jnsat U	nsat U	ısatÜr	Unsat	tUnsat	Unsat	Unsat	Jusat U	) Jusat U	nsat U	nsat	Jnsat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 $\Delta P > .050$ or	At least one fan/plenum is in	8	<b>(\$</b>		(\vec{z})	Tes Tes	Tage 1	Ag.	\$at)		\$ag	(%)	8	(%)
	plenum	FR-804 Icon red and PDT-835 $\Delta P > .050$	service	Unsat U	nsat D	nsatUr	sat Un	Unsat	Unsat	Unsat	Jusat	Insat U	Jusat U	nsat U	nsat	Jnsat
4.1.1.6	300 area re-	FR-805 Icon red and PDT-836 ΔP >.050 or	At least one fan/nlenum is in	(Eg)		Sat		S CO	(S)	(ES)	(Sat	(gg)	Sab	Sat	<b>B</b>	(Sat
	plenum	FR-806 Icon red and PDT-837 \( \D\ PDT-837 \( \D\ PDT \)		Unsat Unsat Unsat Unsat	nsat U	nsat Un	sat Un	sat Unsai	Unsat	Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Jnsat U	nsatU	Insat U	nsat U	nsat U	Jnsat
	400 area re-	FR-807 Icon red and PDT-838 AP >.050	At least one fan/nlenum is in	(Eg)	Sa	Sat Sag			3	(Za)	(FES)	(Sat	(3)	Sat	<u> </u>	(SS)
	plenum	FR-808 Icon red and PDT-839 AP > .050		Unsat U	nsat U	nsat Un	sat Un	Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Unsat	Unsat Unsat Unsat Unsat Unsat	nsat U	nsat U	nsat U	nsat U	Insat
	Vault re-	Р	At least one	3	Sat	es) fes		Sat Say	Sat	Sax	(Sat)	Sat	Sat	Sat	3	Sat
	circulation fan/ plenum	or FR-812 Icon red and PDT-841 ΔP >.050	tan/plenum is in service	Jusat U	Nsat U	nsat Un	satUn	Unsat	Unsat	Unsat	Jusat U	nsat U	nsat U	nsat U	nsat U	nsat
											1			1	1	

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

						_					
	÷	Sun.	PM	ડ		Sat	Sat	Sat	Sat Unsat		1935
	4-21-13	Š	AM	9		Sat Unsat	Sa Unsat	Sa Unsat			Seri ogro
		Sat.	PM	ک		Sa	Sat Sat Unsat Omsat	Sa	Sat		[933
	4-20-13	S	AM	\$	P	Sat	(Sat Unsat	Sat Unsat	Sat		0733
	13	Fri.	PM	3	LTS	Sat	Sat	Sat Sat	Sat		1381
	4-6-13 4/17/13 12/15/10 44943	12.0	AM		SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	(Sa) (Sa) (Sa) (Sa) (Sa) (Sa) (Sat) (Sat) Unsat	Sat Sat Unsat	Sat Unsat	(Sat) Unsat		(2636 1961 10737 1933
	6/13	Thu.	PM	16	GE F	E Sage		Say Unsat	Sat Unsat		2013 A2A 0TB 1905
	1/12	II	AM	83	LLAN	Sat Unsat	Sat Sat Unsat	<b>69</b> Unsat	Sat Unsat		0718
	7/13	Wed.	PM	12 20 Mg 4	RVEI Sat.	Unsat	Sat Unsat	gat Unsat	Sat Sat Unsat Unsat		A34
	1/1/2	W	AM	22.22	SU	<b>&amp;3⊅</b> Unsat	Sa Unsat Unsat	Consat	Unsat		35ره
	6-13	Tue.	PM	ડ		(Sa) Unsat	Chisat	Sat Unsat	Kar (Sat) Unsat Unsat		0630 126
(1 ugo 2 01 2)	7	T	AM	9		Sat Sat Sat Unsat	Sat) (Sat) (Sat) Unsat Omsat Unsat	(Sat Unsat	kat Unsat		0630
3	4-15-13	Mon.	PM	ડ		Sat	Sat	Sat	(Sat) Unsat		1938
	7	M	AM	9		(Sat) Unsat		Sa) Unsat	(Sat) Unsat		0630
	Date:	Weekday:	Shift:	Initials:	Acceptance Criteria	PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	PDI-864-2 < PDI-852- 2 < PDI-854-2	on Time	
	:	ck #4 in nuts may	rnate		Gauge	PDI-814-2 PDI-803-2 PDI-804-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-870-2 PDI-853-2 PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2	Completion Time	
		iken on ra I equivale	nt any alte		Area	200 Area	100 Area	300 Area	400 Area		
	Note	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	be used if necessary. Document any alternate		Description	Glovebox exhaust header APs	< laboratory APs < basement APs for areas 100, 200, 300	and 400			
	,	Gauge read	be used if ne	. Dis esc.	SRs		4.1.1.4				

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2. Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc

Date 4-21-13 Time 1937 Completed by

Reviewed by: Book Hald

On-duty Supervisor

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

Mula		T	10	1	· · · · · · · · · · · · · · · · · · ·	T				·	T
4-21-13	Sun.	n for			(100)		(500)		(500)	Sat. / Unsat.	1080
4-20-13	Sat.	9			Soul	1	300		800	Sat / Unsat. Sat / Unsat.	1700
4-19-13	Fri.	1	S (percentage		(\$00)		(80)		(30)	Sat / Unsat.	) 17.0
4-18-13	Thu.	dr	CE RESULTS		(003)		(800)		800	Sat. Lunsat.	6569
4-17-13	Wed.	gar	SURVEILLANCE RESULTS (percentage)		9.0		2.0		0.0	Sat.)/ Unsat.	E180
4-16-13	Tue.		02		2.0		0.5		0.0	(Sat)/ Unsat.	2180
4-15-13	Mon.	nn			2.0		2.0		0.0	Sat.) Unsat.	9510
Date:	Weekday:	Initials:	Acceptance Criteria		NA			Record Calculated	Value	≥ <b>-0.1</b> ; ≤+0.1	Completion Time:
			Description / Gauge	Flammable Gas Channel	Check DET-305-3 (LCD Reading)	CP-305-H (LED	Reading)		(DET-305-3) - (CP-305H)	(LCD Reading) (LED Reading)	
					SR	4411	7:7:4:				

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 2 of 4)					
			Date:	4-15-15	4-16-13	4-17-13	8-18-13	4-14-13	4.20-13	4-21-13
			Weekday:	Mon.	Tue.	Wed.	Thu	Fri.	Sat	Sun.
			Initials:	YW	Ž,	Abr	an	3	Jan	2 Mar
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	ESULTS	5	
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	≤2.0 & > 0¹ in. wc	80.	10	0).	0/8	01.	60	600
	(HVP-841) $\Delta P$	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in, wc}$	<u>ب</u> ب	L.Y.	87	611	<i>छ</i> उ	67	64.
	South Corridor supply (HVP-	<sup>1</sup> PDI-895-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.13	.13			Ī	. 27	さ、
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	1.0	1.0	0.7	Jun 4-18-0	85	86	86
		<sup>1</sup> PD <b>I-</b> 817-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.27	82.	9.0	erby	STRY	STRV	5784
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	.31	187	87.R.	STBY	27.00	47.84
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15.	131	18.	27.0%	डाहर	STBV	57.87
	7	PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	30	.30	VAZS	STEX	STRV	STBY
	300 area special	PDI-81 9-1	<2.0 & > 0 in. wc	15.	) lk	J.h.W	8731	ST&Y	C772 V	STAY
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	<2.0 & > 0¹ in. wc	(h.	17.	97.	1915	STEX	27.BU	57.84
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	35.	385.	57.67	STEY	CTBV	STBY
		<sup>1</sup> PDI-818-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	57.07	.25	.2H	77	. 24.
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^4 \text{ in. wc}$	STRY	STASY	57 B.	08.	05.	5	.3(
3	exhaust filter plenum (FF855) $\Delta P$	PDI-818-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	518/	57137	, F	.32	.32	15°
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STØY	SIA	STBY	29	27:	.79	.28
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STEY	STBY	51/37	40	7	04.	97 ,
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 & > 0^1 \text{ in. wc}$	5787	57.64	12413	. 45	.45	54.	744
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5787	STBY	40.09	.39	.39	.38	- 39

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 3 of 4)					
			Date:	4-15-13	4-16.13	4-17-13	6-81-17	4-19-13	4-20-13	4/21/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
			Initials:	w	4 4	Na.	gm	*	98	lan
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	ESULTS		0
		<sup>1</sup> PD <b>I-</b> 822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	79.		3	7878	STRY	\$713 4	. 66
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.51	.51	. جر (	87.8 7	STBY	5713 y	15°
	exhaust fifter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^1 \text{ fm. wc}$	.42	J.	) <del> </del>	8 072	STBY	SrBy	.4(
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	50	94.	a.s.	87.84	51.67	18115	ૹ઼
		¹PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.87	डाक्षर	57.07	, s4	. 85	100	STBY
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STAY	57.07	54.	জুন ,	517"	STBY
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ST&Y	STSK	\$1.0X	.43	Lh.	87	ST&Y
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	51.67	Stick	S18~	.50	05.	05	STBY
	South Basement exhaust	<sup>1</sup> PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Š	.59	1.59	95.	09.	5.9	09.
4.1.3.4	filter plenum	PDI-830-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 35	.35	,38	.38	.35	.37	. 36
		PDI-830-3	<2.0 & > 0¹ in. wc	.31	16.	32	12,	.32	.3(	.3(
	300 area re-circulation	¹-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 89	89.	89	89	98.	65.	.40
	filter plenum	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	35,	25.	.55	.55	<b>5</b> 8.	55.	45.
4.1.1.7	Ter (COO T 1 1 1 )	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	8.	19.	بى!	, 51	.51	.51	15.
	300 area re-circulation	¹PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	19.	59.	4	.62	.62	.62	79.
	filter plenum (HVP-806) AP	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	.50	05,	.50	.50	.50	, 50
		PDI-837-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	37,	TH.	57.	45	74.	£.	34.

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				(rage	(rage 4 or 4)					
			Date:	4-15-13	4-16-13	4-7-13	4-18-13	4-18-13	4.20-0	4/21/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	4.4	*****	35	gr	rm	9	4
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		<b>S</b>
	400 area re-circulation	1-838-1	$\leq 2.0 &> 0^1 \text{ in. wc}$	.30	. 30	, 30	,30	.3/	.31	.31
	filter plenum	PDI-838-2	$\leq 2.0 & > 0^{1} \text{ in. wc}$	.40	14,	17.	///	) <del> </del> '	16	, 40
4.1.1.7	117 ( 700, 1411 )	PDI-838-3	$\leq 2.0 \& > 0^{-1}$ in. wc	. 38	.38	.39	.39	.38	D0	, 38
	411) area re-circulation	'PDI-839-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	30	.30	.29	29	. 30	.30	, 30
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	24.	2h.	44.	.42	7 <del>1</del> .	24.	14.0
	( HVF-808) AF	PDI-839-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	1	£h.	₹ <i>ħ</i> :	.42	24.	.42	·45
	South Bleed off filter	'PDI-810-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.15	(5)	.15	.15	81.	5),	51.
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc	Sh.	.45	84.	48	.48	77،	, 48
	(FF-044A)	PDI-810-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.43	. 43	5h.	54.	51~	Sh.	٠ ٢٦
	South Bleed off filter	¹PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	00	OF	149	off	五〇万	9	110
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	OFF	Ma	OFF	0斤	<u>ውብኛ</u>	0 FF
	( FF-822B) AF	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	业0	OFF	MO	of5	OïF	££	かの
			. Completion Time	0830	0827	0812	6349	0703	0857	9280
OC	OC Operator Review and Page Count Complete (initials)	age Count Comp	lete (initials)	85	8 8	MAN R.	SW SAM	A B	670	A WX
Non TSR requirement:	ement:			Ŋ			P.		>	

'Non TSR requirement:

Date: 425.8 Time: \$711 Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3. Completed by: xd-Completed

Reviewed by: 4/21/17 0833 Date 4/24/13 Time 0833

11810 4.4.1.

Comments

On-duty Supervisor

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 1 of 4)					
			Date:	4-15-13	4-16-13	4-17-13	4-18-13	म-19- ।	4-20-13	4-21-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	***	dv-	超	gw	Y W	de	gar
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	Vault re-circulation	'PDI-840-1	\$2.0 & > 01 in. wc	STBY	\$ 7.8 %	Steby	STB /	STBY	STBY	¢7/3 Y
	filter plenum	PDI-840-2	<2.0 & > 0 in¹ wc	<u>इन्छि</u>	<u></u> የተ	578 W	87137	STBY	57.8%	57.8 %
		PDI-840-3	<2.0 & > 01 in. wc	STBY	STBY	Stay	STBV	STBY	\$7.67	STBY
4.1.1.7	Vault re-circulation	<sup>1</sup> PDI-841-1	<2.0 & > 0 in. wc	M44	. pp.	#.	141	.45	sh.	54.
	filter plenum	PDI-841-2	<2.0 & > 0 in. wc	.52	52	.52	52	.52	15	15,
	162 (210-1411)	PDI-841-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.50	Š	.51	.50	.50	,50	50
	200 area re-circulation	1-158-IOd1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32	31	12.	,3,	.32	18.	.31
	filter plenum	PDI-831-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	14.	77.	.40	04.	, 40	46	.40
	(100-111)	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 35	35	.35	35	,35	•3\$	.34
	200 area re-circulation	<sup>1</sup> PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.13	52.	. 23	.23	.23	,23	.23
	filter plenum (HVP-802) AP	PDI-832-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.52	įs.	JC.	15.	.52	.51	.51
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.48	48	641.	64.	6 <del>1</del> .	49	64.
		<sup>1</sup> PD <b>I-</b> 807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Ę	=	=	1	.13	.11	-
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	-79	PC.	٠٦٩	96.	.79	.79	.74
	(FF-820A) ∆P	PDI-807-3	≤2.0 & > 0¹ in. wc	.48	84.	.48	66.	ph.	64.	85,
	Nowth Divol off filter	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	940	#0	545	975	UFF	UFF
4.1.3.4	plenum (FF.820B) AP	PDI-809-2	≤2.0 & > 0¹ in. wc	075	0 FF	430	27.0	OFF	3,30	550
		PDI-809-3	≤2.0 & > 0¹ in. wc	07	tto	智	250	OR	WAF	SAS

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 2 of 4)					
			Date:	4-15-B	4-16-15	4-1713	4-18-13	4-14-13	420-3	6-12%
			Weekday:	Mon.	Tue.	Wed.	Thu.	ī.i.	Sat.	Sun.
			Initials:	ş	A.	Z	J.	Y	8	gar
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	North Recoment as house	<sup>1</sup> PDI-829-1	<2.0 & > 01 in. wc	90.	90.	70.	80	80.	90.	700
4.1.3.4	filter plenum (FF-828)	PDI-829-2	≤2.0 & > 0¹ in. wc	22	.21	. 22	.29	62.	23	15
		PDI-829-3	$\leq 2.0 \& > 0^{1} \text{ in, wc}$	.20	61.	. 20	25.	92.	.7.	.72
	100 area re-circulation	¹PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	90	.90	.90	06.	09.	.90	00
	filter plenum (HVP-803) AP	PDI-833-2	≤2.0 & > 0¹ in. wc	Į.	۲4.	74.	CH.	46	94°	94.
4.1.1.7		PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<b>杜</b> 市	45	.45	45	343	hh.	חה.
	100 area re-circulation	¹PDI-835-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.13	6)	./3	.13	.13	Ω,	5/
	filter plenum (HVP-804) AP	PDI-835-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 45	hk-	. 45	ተሳ.	Sļr"	hh.	hh
		PDI-835-3	≤2.0 & > 0¹ in. wc	.Ho	oh.	14.1	.40	OH.	41	lh.
		<sup>1</sup> PDI-815-1	≤2.0 & > 0 <sup>1</sup> in. wc	STEY	STBY	\$45m	\$7.137	5767	STOV	STBY
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ऽर्डा	57.87	Stemo	27.34	SIBY	516 7	57.84
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STAN	STBY	2+6-1	57.84	ST&Y	7975	STRY
		PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STAN	Syrby	24 by	57.84	STEY	STBY	57.87
		1-918-IQI	≤2.0 & > 0¹ in. wc	75.	æ.	. 28	,3,	. 35	S.	*35
4.1.3.4	100 area glovebox	PDI-816-2	<2.0 & > 01 in. wc	٤٣.	43	.45	545	٠45	.43	5.
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.42	275	. 43	42	.42	E.S.	.43
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 45	24.	*	.4.5	۲۶,	345	96

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

				(Fage	(Page 5 of 4)		300			
			Date:	4-15-13	61-91-14	417-13	7-18-13	4-19-18	4.20-13	Cirtzif
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	٢٧	d'h	3-	An	*	On On	3
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS	SULTS		
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	h1 °	H.	. (3	т	11	7/	<u> </u>
7 7 7	exhaust filter plenum (FF850) $\Delta$ P	PDI-812-2	<2.0 & > 0 in. wc	.31	.31	.3	.31	3.6	18.	1
100		PDI-812-3	<2.0 & > 01 in. wc	.30	.31	.30	.36	£,	.3/	2
		PDI-812-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.31	.31	m.	.31	.3)	3/	2
		PDI-812-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	92.	.29	62.	79	92	29	20
	200 area glovebox	<sup>1</sup> PDI-813-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.67	STB y	5+3m	57134	STBY	\$7/8 4	Cran.
7	exhaust filter plenum (FF851) ΔP	PDI-813-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	ST&Y	\$7.67	Stay	3707	आक्र	STBY	STAV
F:5:1:4		PDI-813-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	डाक्षर	STOY	St.5.45	57.84	STBY	87.84	7-P.
		PDI-813-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY		\~a+S	97.87	5167	57.8 4	êr iau
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY		mats	8707	STBY	yav.	
	IFIT exhaust filter plenum	<sup>1</sup> PDI-865-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.03	.63	50.	€0.	\$0,	.43	- 03
4.1.3.4	(FF-865) AP	PDI-865-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.35	35.	78/	.32	.25	35	32
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	17.	.42		9h.	ī	7	ā
	IFIT supply filter plenum	<sup>1</sup> PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.08	٥٠.	000	Ĉ.	60.	60.	8
4.1.3.4	(HVP-863) ΔP	PDI-863-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	24.	.42	.42	42	4.7	.42	62
							1	1		77

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 4 of 4)

				(ragi	rage 4 01 4)					
			Date:	4-48-13	4-16-13	4-17-13	81-18-13	418	4-20-13	4.21-13
			Weekday:	Mon.	Tue	Wed.	Thu.	Fri.	Sat.	Sun
			Enitials:	*	g-	निष्ट	gr	**	Am	110
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS	SULTS	5	
4134	North Basement supply filter plenum	1-758-IDI	< 2.0 & > 01 in. wc	. 20	61.	.20	6/	6)	81.	á
L. C. C.	(HVP-840) ΔP	PDI-857-2	<2.0 & > 01 in. wc	.≁18	3.00	42	BH	80	80	60
4.1.3.4	North corridor supply filter plenum	1-958-IQI	<2.0 & > 0' in, wc	. 12	λi.	. 12	17:	=	1.	S
	(HVP-809) ΔP	PDI-856-2	<2.0 & > 0' in. wc	9	37	99	87	997	77	1
¥Z,	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of faus)	SAT	170	547	H.S.	NAT		9 8
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	ţ			5		į į	1
			Completion time	51-80	0850	0840	0853	0708	9540	24/
	OC Operator Re	view and Page C	OC Operator Review and Page Count Complete (initials)	8	10/0	Mero Kr	Cha .	N Di	8	4
Non TSR	Non TSR requirement			"	-					

Non TSR requirement
Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Reviewed by AN Completed by: Scope Males Date 4/14/12 Time 6831

## ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

Daily (September through April only)   Weekday:   Mon.   Tue.   Wed.   Thu.   Fri.   Sat.   Sur.		PF-10 & PF-11 Pumpho	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	1 V-701 & V-70	4 Fire Water 5	Storage Tank 7	emperature			
Daily (September through April only)  Description  Description  Description  Description  Description  Description  ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.  RECORD fire water storage tank V-701 temperature ≥ 42.1 F  RECORD FF-10 room temperature ≥ 50.1 F  RECORD PF-11 room temperature ≥ 50.1 F  Completion Time:  OC Operator Review and Page Count Complete (initials)			Date:		4/16/13	4-17-13	57-81-h	4-19-13	4.20.13	4.2.13
Description    Description   Acceptance Cetienia   Arceptance Cetienia   Arceptance Cetienia		Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Description       Acceptance Criteria       Acceptance Criteria       Acceptance Criteria       Calibration dates have       Calibration dates ha			Initials:	70	A	74	75	4	2	7
ENSURE M&TE Calibration Data above is recorded not elapsed.  RECORD fire water storage tank V-701 temperature \$\geq 40.1\temperature  \geq 40.5\temperature  \geq 60.1\temperature    \geq 60.1\temperature                            \qu	SR	Description	Acceptance Criteria							
RECORD fire water storage tank V-701 temperature   ≥ 42.1 F   51.3   51.4   52,7   50.9   49.3   49.3   49.3     RECORD fire water storage tank V-704 temperature   ≥ 42.1 F   51.3   54.2   54.8   52.3   50.7   51.5     RECORD PF-11 room temperature   ≥ 50.1 F   64.5   66.6   67.1   65.4   63.7   65.8     RECORD PF-11 room temperature   ≥ 50.1 F   64.5   66.6   67.1   65.4   63.7   65.8     Completion Time:   O843   ○846   0836   0837   ○748   O730     OC Operator Review and Page Count Complete (initials)   O74   O748   O749   O749	NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.		(AT) UNSAT				(SAT)UNSAT	SAT
RECORD fire water storage tank V-704 temperature         ≥ 42.1 F         ≤3.3         54.2         54.8         52.3         50.7         61.5           RECORD PF-10 room temperature         ≥ 50.1 F         64.5         62.5         62.5         58.1         61.0           RECORD PF-11 room temperature         ≥ 50.1 F         64.5         66.6         67.1         65.4         63.7         65.3           Completion Time:         084.3         5846         683.6         683.7         0748         093.0           OC Operator Review and Page Count Complete (initials)         06.0	4.3.1.1	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	51.3	51.9	52,7	6.02	49.3	49.3	49.3
RECORD PF-10 room temperature ≥ 50.1 F (23.8 (23.5 (9.3.5 (9.3.7 58.1 61.0 €1.0 €1.0 €1.0 €1.0 €1.0 €1.0 €1.0 €	4.3.1.1	RECORD fire water storage tank V-704 temperature	≥ 42.1 F		54.2	S4, 8		50.7	S-10	51.7
RECORD PF-11 room temperature   ≥ 50.1 F   6 4.5   (66.6 67.1 65.4 (83.7 65.8 G)	4.3.1.3	RECORD PF-10 room temperature	≥ 50.1 F	62.8	(2.5	2.59	58.7	58.1	0.19	61.5
0843 C846 0836 0832 0748 0930	4.3.1.31	RECORD PF-11 room temperature	≥ 50.1 F		اود.و	67.1			65.X	66.1
84 1 8 mars as 200 3 10-11 12			Completion Time:			0 836	0832	0148	0330	1025
		OC Operator Review and Page C	ount Complete (initials)	8.9	100		C7 088	B.A	B	BA

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Time: 0716

Date: 47-13

\_Time\_\_

Date 4.21.13

Completed by:

Reviewed by: On-duty Supervisor

#### ATTACHIMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

		Date				111.				<u> </u>	_		1,	
		Weekday:	//24// J Mon.	7	71/13 Tue.	7//4///. Wed.	, e	4-25-13 Thu.	7	046/(5 Fri.	4.27-13 Sat.	t. 3	166/2 Sun.	M :
		Shift:	AM PM	1 AM	PM	AM	PM.	AM P	PM AM	1 PM	AM	PM	AM	PM
		Initials:	(SE)	1.8	CE	181	3	20	3	Q.C	5	040	13	OAO.
Gauge Accepta	pt	ance Criteria		)		SUR	EIL	SURVEILLANCE RESULTS (in. wc)	E RES	ULTS				
PDI-814-1 or SPDI-814-2	VI	≤-1.0 in. wc¹	201 10%	roit \	6,07	30,4	25.2	1.03 -1.03	50.4. 50	10,7	-7.00	20,21	203	نوم ا
PDI-820-1 or <- PDI-820-2	VΊ	<-1.0 in. wc¹	06/1897	80.	23	Bi	1999	190-187	8 1.8	8-	88-1-	35%	06)	3,0
PDI-870-1 or ≤-1 PDI-870-2	<b>√</b> ı	<-1.0 in. wc¹	801/2 ap/	86.	85%	8 -	1991	661-651-	8 K	8/2	161	8	8.	8,
PDI-864-1 or ≤-1 PDI-864-2	Vi	≤-1.0 in. wc¹	28 200	60.	BX	561	197	p.7.68.1.		18/	2.00	5,	1.0	00/
200 area laboratory PDI-803-1 or <-0.0 PDI-803-2	<-0.0	-0.05 in. wc¹	cri- or.or	0.00	3	T,	2	02. 02.	1	3,	3.	5,	2	8
100 area laboratory PDI-802-1 or <-0.05 header AP PDI-802-2	<-0.0	in. wc¹	50° C2°0'	5.0.	کے ِ	12	වූ.	2. 23	1	عر	:13	2	57.0	5,
300 area laboratory PDI-853-1 or <-0.00 header AP		-0.05 in. wc <sup>1</sup>	10.0°		3	10°	67	h. 12.		3;	11:	\$	4	2
400 area laboratory PDI-852-1 or <-0.05 header AP PDI-852-2	<	in. wc¹	D' 04.0.	yk O'	3	4	02'-	9	20,	8;	'8	, e	020	Ś.
PDI-865-4 or <-(	)•   	≤-0.05 in. wc	P. 0.0.	67.0	d/.	8-0	67.	67: P1:		5/	61.	5,	61.0	3
PDI-804-1 or < 0 PDI-804-2	0 >	< 0.00 in. wc	0).	60,0	1:	0,0		01.0	Y	9.	01:	9,	010	1.
J.	0 ×	< 0.00 in. wc	7,0	40	3	4,0	5.7 E13	3 -13	0,	5	12	جي َ	4_0	2/
PDT-901 or < PDI-901	V	< 0.00 in. wc	10, 40, O.	30	13	£,0		2.136 -133	30,0	ج <sup>د</sup> ر.	130	36	0130	5.

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

Note   Padeings should be taken   Note   Padeings   P						(1 age	0 10 7 2								
Colorarea   Colo	: 6	Note		Date:	23	1	23	4/24/13	4.0	5.13	1/20/1		04.27. B	4/2	8/13
100 area replanum   PDL-834 AP   PDL-831 AP   PDL-834 AP   PDL-831 AP   PDL-834 AP   PDL-834 AP   PDL-834 AP   PDL-834 AP   PDL-834 AP   PDL-834 AP   PDL-835 A	Keadıng: using FC	s should be taken S screens		Weekday:	Mon		Tue.	. Wed.		hu.	Fri.		Sat.	S	Sun.
Description   Readings	FMT#15	1,152,201LD		Shift:				AM			_		AM PM	AM	PM
PR-801 Icon red and   PDT-831 AP > 050	and local r be used iff	J.D. Freid Verincation blenum PDIs may FCS is unavailable.		Initials:		1		18			1/		95 35	15	Ag.
Circulation fan/   FR-802 Icon red and   PDT-831 AP > 050     PDT-831 AP > 050   FR-802 Icon red and   PDT-832 AP > 050     Circulation fan/   PDT-833 AP > 050     Circulation fan/   PDT-835 AP > 050     Circulation fan/   PDT-839 AP PDT-839 AP PDT-839 AP PDT-839 AP PDT-839 AP PDT-83	SRs	Description	Readings	Acceptance Criteria		2		SURVE Sat.	ILLA Vunsa	NCE 1	RESUL'	IS	-		
100 area re-   100 area re-   200		200 area re- circulation fan/	FR-801 Icon red and PDT-831 AP >.050 or					$\sim$				at) (Saf	at) (Sat	(TEX)	Sat
100 area re-   circulation fan/   plenum   FR-804 lcon red and     plenum   FR-804 lcon red and     plenum   PDT-835 \text{AP} > .050     circulation fan/   PDT-836 \text{AP} > .050     plenum   PDT-836 \text{AP} > .050     circulation fan/   PDT-838 \text{AP} > .050     circulation fan/   PDT-838 \text{AP} > .050     circulation fan/   PDT-838 \text{AP} > .050     circulation fan/   PDT-839 \text{AP} > .050     circulation fan/   PDT-840 \text{AP} > .050     circulation fan/   PDT-840 \text{AP} > .050     circulation red and   FR-811 lcon red and   Sat   Sat   Sat     circulation red and   PDT-840 \text{AP} > .050     FR-812 lcon red and   Sat   Sat   Sat   Sat     FR-812 lcon red and   Sat \text{AP} \text{AP} \text{AP} > .050     circulation red and   PDT-841 \text{AP} > .050     circulation red and   FR-812 lcon red and   Sat		plenum	FR-802 Icon red and PDT-832 AP >.050		Unsat Ur	sat Un	sat Unsa	Unsat Uns	sat Unsa	t Unsat	Unsat Un	sat Un	sat Unsa	tUnsat	Unsat Unsat
PDT-835 AP > 050		100 area re- circulation fan/	FR-803 Icon red and PDT-833 $\Delta P > .050$ or		~	772	$\sim$				<del></del>	at (2)	(Sep	TES O	*
300 area replement         FR-805 Icon red and plenum         At least one plenum		plenum	FR-804 Icon red and PDT-835 $\Delta P > .050$		Unsat Un	sat One		Unsat Uns	at Unsa	t Unsat	Unsat Un	sat Un	sat Unsal	t Unsat	Unsat
FR-806 Icon red and PDT-837 $\Delta P > .050$ FR-807 Icon red and PDT-838 $\Delta P > .050$ FR-808 Icon red and PDT-839 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$	1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in			/~		$\vdash \stackrel{\sim}{\sim}$	1		at) (Sat)	Sat	Sg	Sal
FR-807 Icon red and At least one fan/plenum is in PDT-838 $\Delta P > .050$ FR-808 Icon red and PDT-839 $\Delta P > .050$ FR-811 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and FR-812 Icon red and PDT-841 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and PDT-840 $\Delta P > .050$ FR-812 Icon red and FR-812 Icon red and PDT-841 $\Delta P > .050$		plenum	FR-806 Icon red and PDT-837 $\Delta P > .050$		Unsat Un	sat Uns	atUnsat		at Unsa	t Unsat	Unsat Un	sat Uns	sat Unsal	t Unsat	Unsat
FR-808 Icon red and service Unsat Un		400 area re-	FR-807 Icon red and PDT-838 $\Delta P > .050$	At least one						Sat		at)	(Jack)	Sat	Saft
FR-811 Icon red and PDT-840 $\Delta P > .050$ At least one or fan/plenum is in FR-812 Icon red and Service PDT-841 $\Delta P > .050$		circulation fally	Or FR-808 Icon red and PDT-839 AP > .050		Unsat Un	sat Uns	at Unsat			Chisat (	Unsat Un	sat Uns	at Unsat	Unsat	Unsat
FR-812 Icon red and service PDT-841 $\Delta P > .050$		Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$	At least one				1	$\overline{}$	Sat	~~	(g)	(Sat	Sat S	Sat
		fan/ plenum	FR-812 Icon red and PDT-841 \( \text{AP} > .050 \)		Jnsat Un	sat Uns	at Unsat	Unsat Uns	at Unsa	Unsat	Jnsat Un	sat Uns	at Unsat	Unsat	Unsat

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2. Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc

Completed by:

Date 4/23 Time 1953 Reviewed by: Bart Land Date: 4-94-9 Time 103-0

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:	4-22-13	4-23-13 4-24-13	4-24-13	4-25-13	4 26-13	4/27/113	4-28-13
4		Weekday:	Mon.	Tue.	Wed.	, Thu.	Fri.	Sat.	Sun.
	36	Initials:	97	77	W	1 d	77	K	7 8
	Description / Gauge	Acceptance Criteria	1	S	URVEILLAN	SURVEILLANCE RESULTS (percentage)	(percentage)		
	Flammable Gas Channel								
SR	Check DET-305-3 (LCD Reading)	NA A	(00)	(205)	(2003)	(00)	(005)	(200)	(500)
4411	CP-305-H (LED								)
	Reading)		(500)	(505)	200	(005)	000	000	(000)
	(DET-305-3) – (CP-305H)	Record Calculated Value	(005)	(500)	300	(005)	(500)	000	(500)
	(LCD Reading) (LED Reading)	> -0.1; <+0.1	Sat. (Gusat)	Sat. / Unsat.	Sat. / Unsat.	at.	at.	Sat. /Unsat. Sat. /Unsat.	Sat. / Unsat.
		Completion Time:	ľ	) 0 0 0				0,0	
		•	7000	2 70 7	7/20	00/3	0739	27/0	0736

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 2 of 4)					
			Date:	4-22.13	4-23-13	424.13	4-25-13	4-26-13	4-27-13	1/2843
			Weekday:	Mon.		Wed	, Thu.		Sat.	Sun.
			Initials:	pr	50	gm	74	70	74	70
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 & > 0^1 \text{ in. wc}$	60,	60.	60.	, 05	8	30.	.05
	supply filter plenum (HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	2	. 49	37	0 7	0 .	0 7	87
	South Corridor	1-895-1	$\leq 2.0 \& > 0^4 \text{ in. wc}$	41.	۲۱۰	2	20,	.05	0.5	50'
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	66.	66.	96.	1.0	0.7	0.7	1.0
		1-718-IQ1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5 784	STBY	37.8 y	STBY	5784	, 28	22.
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	4072	STBY	STRY	5781	STRV	13/	18.
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	8784	5 7.8.7	87.87	5784	STRU	.31	15.
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5781	5784	STBY	57.8 1/	57.81	0 8	30
	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5784	×878	STBY	54131)	STRV	. 4.	/4:
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	<2.0 & > 0' in. wc	5784	5784	STBY	5781	5780	14.	///
	(FF858) <b>AP</b>	PDI-819-4	≤2.0 & > 0¹ in. wc	5784	5184	STBY	5187	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1311	.34
		'PDI-818-1	$\leq$ 2.0 & > $0^1$ in. wc	.24	, 24	.24	.25	, 2.5	2784	57.67
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 30	. 30	12	.30	20	5781	STBY
	exhaust filter plenum (FF855) AP	PDI-818-4	<2.0 & > 01 in. wc	32 07	۲٤٠	.32	4.5	4 2	STRU	STBY
		PDI-818-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	. 38	00	20	00 m	80	STBV	37.0%
	300 area special	PDI-821-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	04.	0/1.	0ħ.	04.	7.	57.80	57.61
4.1.3.4	exhaust filter	PDI-821-3	<20.0 & > 01 in. wc	.45	. 45	np.	44 ,	. 114	5737	57.64
	(FF859) ΔP	PDI-821-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	54.	64.	.39	. 39	. 39		STBY
				•						

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 3 of 4)					
			Date:	4-22-13	4-28-13	0-h2-h	4-25-13	4.26-13	4-27-13	43813
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	74	74	gm	74	PT	74	77
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SAULTS		
		<sup>1</sup> PDI-822-1	<2.0 & > 0 in. wc	59.	, 65	.65	60 %	77.	79.	.66
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.5/	15.	15:	150	.50	05'	,50
	exhaust filter plenum (FF856) AP	PDI-822-4	<2.0 & > 01 in. we	. 42	.42	. 42	1 h.	. 42	. 42	. 72
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	66	66.	64.	64.	64.	64.	.60
		<sup>1</sup> PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5504	5 781	97By	5784	5784	5 7.84	5764
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STRY	STBY	8T13 P	5784	57.84	5784	STBY
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	S T. B 1	\$713 1	5184	5784	57.8%	5TBY
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	578y	57.84	STBY	5784	5 T B Y	57.87	37.184
	South Basement exhaust	'PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.59	. 59	.59	. 59	. 59	. 59	.60
4.1.3.4	filter plenum	PDI-830-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	. 35	. 36	36	.35	, 35	. 3.5	.35
	187 (270-14)	PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.3/	13/		. 3.1	. 3/	3151	.31
	300 area re-circulation	<sup>1</sup> PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.90	. 90	.89	. 90	06,	, 9,	.30
	filter plenum	PDI-836-2	≤2.0 & > 0¹ in. wc	. 5.5	3,2,5	.55	. 65	,56	. 56	.53
4.1.1.7	AA (COO. 1 V II)	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 5/	15.	15.	Į,	18.	.51	15,
	300 area re-circulation	'PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	۲9.	,62	77.	. 12	.62	. 63	. 43
	filter plenum	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 50	.50	.50	,50	, 50	.50	05.
	15 (000-1411)	PDI-837-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 45	. 45	7,6	. 46	. 46	85,	. 48

427+3

22 4700 4-26-13 426+13 28 .42 0745 OFF . 38 . 40 OFF 3 . 48 . 43 066 14. 5 4.27-13 47. 47 PTG .43 48 OFF OFF 7 OFF ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) 0010 .42 .30 OFF FF 14. FL 13 38 17. 84. 43 016 SURVEILLANCE RESULTS .25-13 Date: 4-24-13Time: 102-1 (in. wc) . 43 80 10 . 43 0827 85. OFF 177 . .31 12. OPE OFF I Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3. 4-24-13 Wed. 0830 330 48 SP 30 5 12 .42 94 141 7 4-23.13 0843 . 42 14 7. Tue. OFF On-duty Supervisor 4 42213 31 · ... (Page 4 of 4) Reviewed by: bound A Cha 4-22-13 0/80 .42 Mon. OF F OFF 14: OFF 7 .31 38 45 180 0 Date: Acceptance Criteria Weekday: ≤2.0 & > 01 in. wc ≤2.0 & > 01 in. wc ≤2.0 & > 01 in. wc  $\leq 2.0 & > 0^1 \text{ in. wc}$  $\leq 2.0 \text{ & > 0}^{1} \text{ in. wc}$ <2.0 & > 01 in. wc <2.0 & > 0 in. wc ≤2.0 & > 01 in. wc  $\leq 2.0 \text{ & > 0}^1 \text{ in. wc}$  $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq$ 2.0 & > 0<sup>1</sup> in. wc Completion Time OC Operator Review and Page Count Complete (initials) Completed by: ford Ling Mo Date 428.13 Time 0745 1-118-104 PDI -811 -2 PDI -811 -3 PDI-838-1 PDI-838-3 PDI-839-2 PDI-810-1 PDI-838-2 PDI-839-1 PDI-839-3 PDI-810-2 PDI-810-3 Gauge 603 400 area re-circulation 400 area re-circulation South Bleed off filter South Bleed off filter filter plenum ( HVP-808) AP HVP-807) AP (FF-822A) AP (FF-822B) AP Description Comments Flamable 'Non TSR requirement: 4.1.1.7 4.1.3.4 4.1.3.4 SRS

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Sun.

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Surveillance Rounds

TA55-STP-004, R15.1

FA55-STI	TA55-STP-004, R15.1		Surve	Surveillance Rounds	spu			i	Page 30 of 38	of 38
		ATTACHM	ENT	B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 1 of 4)	Surveillance F (Page 1 of 4)	Sounds (	PF-4 Nor	th Side)		
			Date:	4.22-13	4-23-13	21-45-H	4-15-13	4-26-13	4-27.13	4 28-12
			Weekday:	Mon.	Tue.	Wed.	l	Fri.	Sat.	
			Initials:	PT	PT	74	S. C.	PT	79	te
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	Vault re-circulation	¹PDI-840-1	≤2.0 & > 0 ¹ in. wc	5731	5 T. B. V.	5 7 8 1	757.8	vats	STRU	5781
	filter plenum	PDI-840-2	<2.0 & > 0 in1 wc	5784	1815	5784	\$189	2 5 7 84	5 7.87	STAU
		PDI-840-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5787	5181	5784	STBV	5 T.BY	7875	5180
4.1.1.7	Vault re-circulation	¹-148-1-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	145	. 45	5 /9 1	5h*	. 7. 8	>4.	. 4 S
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.52	. 52	. 52	.52	. 52	. 52	, < 2
	(HVF-012) (M	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	9.5	150	50	.50	.50	٥٠.	05'
	200 area re-circulation	1-158-1DI-	≤2.0 & > 0 <sup>1</sup> in. wc	.32	7.32	132	.31	12,	.32	ر در در
	filter plenum	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	04,	. 47	16.	lh:	1 7.	( A, ·	, 4,
	(AV V - OV I)	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 7,5	25.	1.35	45.	35	.25	. 34
	200 area re-circulation	¹PDI-832-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	. 2.3	, 23	. 2.3	.23	, 23	42.	124
	filter plenum	PDI-832-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	15.	, 51	J.	15	15.	15.	.52
	177 (700- VAII)	PDI-832-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	64.	54.	64.	64.	64.	64.	67.
		1-708-IQ41	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	" "	///	///	1	11:	// .	//:
4.1.3.4	North Bleed off filter plenum	PDI-807-2	≤2.0 & > 0¹ in. wc	. 79	.80	08,	08.	92	00	.80
	(FF-820A) ∆P	PDI-807-3	<2.0 & > 0 <sup>1</sup> in. wc	5 %.	64.	. 49	.50	. 50	. 50	.50
	North Bleed off Glear	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	OFF	740	DFF	off	OFF	OFF	076
4.1.3.4	plenum (FF.820R) AP	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	٥٢٪	OFF	07.7	JJ0	OKE	7 20	07.7
	(2000-11)	PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	OFF	0 % %	JJO	OFF	ORF	710

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 2 of 4)					
			Date:	4-22-13	423-13	4-24.13	51-52-13	4-26-13	4-27-13	4-28-17
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	76	7 0	77	4	pr	6	72
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-829-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.0	0.	80	90.	10.	70.	7
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 & > 0^{1} \text{ in. wc}$	. 22	.22	200	.23	. 23		, , ,
		PDI-829-3	$\leq 2.0 \& > 0^{4} \text{ in wc}$	/2 .	. 2.1	. 22	77	10,	17.	.21
	100 area re-circulation	1-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	161	16.	16:	16.	16.	16.	6.
	filter plenum	PDI-833-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	847	84.	04.	94	74,	, 47	Ø h .
4.1.1.7	187 (COG-1411)	PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	50'	54.	5 /1 .	Sh.	Sh.	2 2	577.
	100 area re-circulation	1-528-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	£1.	(13)	٤/,	6	. /3	۲,	2/-
	filter plenum	PDI-835-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 42.	217	, 43	. 43	, 43	£ h .	7.1
	15) (400-1411)	PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	04,	. 40	05.7	0h	04.	04.	( ) ,
		<sup>1</sup> PDI-815-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5 TBY	5 7 84	57.89	STIBY	STBY	STBY	5784
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.81	5784	STRV	STBV	S T.B.Y	5789	57.8.1
-	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5781	STBY	57.84	\$7.8%	5787	5 784	5781
		PDI-815-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	5784	5784	57.84	SKAN	5184	57.87	5787
		¹PDI-816-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	75.	.38	, 38	.38	. 38	.38	, 35
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 45	. 45	15	.43	. 45	541	<i>n</i> 4
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.42	, 42	.42	45	44	. 43	. 42
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 43	. 45	. 43	94	. 43	44.	2 17.

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

				(Fage 5 of 4)	5 of 4)					
			Date:	4-22-13	4.23.13	4-24-13	4-25-13	4-26-13	4-27-13	4-2812
	2.		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	79	27	7 6	de-	74	79	70
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS	SULTS		
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	41.	71.	71.	ħ!			21.
	exhaust filter plenum (FF850) AP	PDI-812-2	$\leq 2.0 \& > 0^1$ in. wc	18.	.3,	.3/	32	/2,	12.	12
4.1.3.4		PDI-812-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.32	.32	, 32	32	18.5	. 2.2	.3,9
		PDI-812-4	<2.0 & > 0 <sup>1</sup> in wc	18.	18,	,3/	.31	18,		4200.31 PT
		PDI-812-5	<2.0 & > 01 in. wc	56	22.	.29	.79	. 29	2.9	, 26
	200 area glovebox	<sup>1</sup> PDI-813-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	5484	57.84	5784	\$7.87	5787	STRV	57.80
	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	3704	5784	57.8 9	27.84	STRV	< 7 P? 1/	STRIC
4.1.3.4		PDI-813-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5789	57.84	5784	5784	< 7.8 V	STAV	57.84
		PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.84	5784	S7.8Y	7872	×187	< 7.81	57.84
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5784	STRY	57.89	57.87	STRV	57.84	S T 81,
	IFIT exhaust	<sup>1</sup> PDI-865-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,6%	70	401	69	40.	7	7 9.
4.1.3.4	(FF-865) AP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32	.33	. 28	32	. 54	N. M.	. 72
		PDI-865-3	$\leq 2.0 \& > 0^{1}$ in. wc	02.	14.	( ) A.	15-	2	3	14.
	IFIT supply filter plenum	<sup>1</sup> PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	60.	60.	60.	20	.05	. 0 \$	• 0 5
4.1.3.4	(HVP-863) ΔP	PDI-863-2	<2.0 & >01 in. wc	77	-4,	. 4.)	41	14.	14.	. 4)

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Page 33 of 38 4.27.13 5/4 64. 40. Sat NA 0 4-26 13 ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) SAL 547 79 7 FI 46 SURVEILLANCE RESULTS 07 Date: 4 24-12 Time: 10 2-5 11-52-13 Thu SAT 89 SAT 70 64 4-24-13 70 63 Wed. 49 547 6 682 4-23-13 048 On-duty Supervisor SAT BA 6 71 3 (Page 4 of 4) 77 Tue. Surveillance Rounds V 4-22-13 44 00 S 0838 SH7 57 Mon. 6 Reviewed by: Dow designated exclusion area Date: 0 lb/ft² combustibles in rooms, whichever is less Initials: (within 15 feet of fans) Completion time OC Operator Review and Page Count Complete (initials) Weekday: between gloveboxes, or face of the PMMA, the  $\leq 2.0 \& > 0^{1} \text{ in. wc}$ perpendicular from the  $\leq 2.0 & > 0^1 \text{ in. wc}$ up to the walls of the In. wc 0 lb/ft² combustibles Acceptance Criteria width of the aisles <2.0 & > 01 m. within 3.5 feet <2.0 &>0 Date 4-28-13 Time 01/0 Note: SR 4.1.3.4 applies during mode 1 and mode 2. PDI-857-1 PDI-857-2 PDI-856-1 PDI-856-2 Gauge Combustible exclusion area FE820B, FE820C, FE822A, FE822B, FE822C North Basement supply around basement exhaust fans FE828, FE829 and Rooms 201, 204, 206, & 207 North corridor supply bleed-off fans FE820A, (HVP-809) AP (HVP-840) ∆P Completed by: fant dryillo filter plenum filter plenum Description TA55-STP-004, R15.1 Non TSR requirement Comments: 4.1.3.4 4.1.3.4 4.3.2.2 SRS Z Z

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## ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

	040373	8-13-13	039744	8-13-13
	V-701 Thermistor File No.: C40373	Calibration Expiration Date: $8-13-13$	V-704 Thermistor File No.: O 39 フィイ	Calibration Expiration Date: 8-13-13
	H52240	5-30-13	040376	8-13-13
M&TE Calibrated Data	PF-10 Thermistor File No.: 042254	Calibration Expiration Date: 6-30-13	PF-11 Thermistor File No.: 〇代〇37 い	Calibration Expiration Date: 8-13-13
	54145	5-14-13	039746	5-14-13
	PF-10 Thermometer File No.: 636	Calibration Expiration Date: 5-1	PF-11 Thermometer File No.: 039	Calibration Expiration Date: 5
		Record September	through April only	

	PF-10 & PF-11 Pumpho	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	I V-701 & V-70	4 Fire Water	Storage Tank T	emperature			
		Date:	Date: 4-22-13 4-23-13 4-24 13 4-25-13 4-26- 13 04:27.13	4-23-13	日十2十日	4-25-13	4-26-13	04.27.13	4/186/13
	Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	14	7	10	127	R. F.	BC	P
SR	Description	Acceptance Criteria							)
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	SAT UNSAT	SADUNSAT	SATUNSAT SATUNSAT SATUNSAT SATUNSAT SATUNSAT SATUNSAT	SA) AUNSAT	EST /UNSAT	SAT UNSAT	SATAUNSAT
4.3.1.1	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	49.7	50.7	49,7	50.0	50.0 S1.8	8.15	526
4.3.1.11	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	52.0	52,7	52.1	52.0	52.2 52.8		57. L
4.3.1.31	RECORD PF-10 room temperature	≥ 50.1 F		61.0	58.B	61.8	61.8 62.2	61.8	61.0
4.3.1.31	RECORD PF-11 room temperature	≥ 50.1 F	6T.6	68.5	64.7	66.4 58.1		56.7	56.7
		Completion Time:	0805	085	0915	0910	0815	2880	0850
	OC Operator Review and Page Count Complete (initials)	ount Complete (initials)	Da	3 E.	B. Jan	800	Bac	(h	R. E.C. Tol
					1 - 1 - 11	1111	1	'	

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Time: 10 .30

Date: 1-24-17

\_ Time \_\_

Date 4/88/13

Reviewed by: On-duty Supervisor Completed by:

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

				•	)								
į	Note		Date:	61-67-13	4-30-13	5							
Gauge retaken on	Gauge readings should be taken on rack #4 in the OC		Weekday:	Mon.	Tue.		Wed.	Thu.	Fri.	Sat.	ند	Sun.	
whenever	whenever possible. Document if		Shift:	AM PM	AM PM		AM PM	AM PM	AM PM	1 AM PM		AM P	PM
alternate l	alternate PDIs are used.		Initials:	8	9	3							
SRs	Description	Gauge Acce	Gauge Acceptance Criteria			S	URVEI	SURVEILLANCE RESULTS (in. wc)	RESULT	S			
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc¹	202201	2.00	3							
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc¹	181-981	581-851-	75							
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	\$61-8b1-	1-864-	861-							
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc¹	7,00/2	198.2 m	ह							
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc¹	72- 00-	a. pc.	0							
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	-23 -23	37 62-	-2	5						
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc¹	22: LK-	Jr. 26.	-3		C					
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	≤-0.05 in. wc¹	612 000	91.	Ø:_							
	IFIT Facility AP	PDI-865-4 or PDI-865-5	<-0.05 in. wc	61-101-	0.161:	_			1				<u> </u>
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	01, 01,	01 01	0							
4.1.1.3	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-,13 -13	212 212	3							
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	751 -151	3.11.2 121.	3.4							

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					0	(2 10 = 29m s)									
	Note		Date:	4-29-13		4-3013									
Reading	Readings should be taken using FCS screens		Weekday:	Mon.		Tue.	Wed.	d.	Thu.		Fri.	Š	Sat.	Sun.	n.
FMT#1	FMT#151,152,201LD		Shift:	AM P	PM AM	1 PM	AM	PM A	AM P	PM A	AM PM	I AM	PM	AM	PM
and 202 and local be used if	and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.		Initials:	9	9	= 8									
SRs	Description	Readings	Acceptance Criteria				SUR	VEILI t. / Un	RVEILLANCE RESUL Sat. / Unsat. (circle one)	E RE	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	80			
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 AP >.050 or PDT-802 Icon and and PDT-802 Icon and and and and and and and and and an	At least one fan/plenum is in	S) (res)	(Sat)	(Sg)	Sat	Sat	Sat S	Sat Sat	at Sat	Sat	Sat	Sat	Sat
	pienum	PDT-832 AP >.050	service	Unsat	sat Uns	at Unsat	Unsat	Jusat U	nsat Un	sat Un	sat Unsa	it Unsat	Unsat	Unsat	Jnsat
	100 area re- circulation fan/		At least one fan/plenum is in	SES (ES)	Sat Sat	(Sall)	Sat	Sat	Sat	Sat Sat	it Sat	Sat	Sat	Sat	Sat
	plenum	FR-804 Icon red and PDT-835 \( \Delta P > .050 \)	service	Unsat	sat Uns	nt Unsat	Unsat	Jusat U	nsat Un	sat Un:	sat Unsa	t Unsat	Unsat	Unsat	Jusat
4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in	Sat) (S	Sat (Sat)		Sat	Sat	Sat	Sat Sat	ıt Sat	Sat	Sat	Sat	Sat
	plenum	FR-806 Icon red and PDT-837 $\Delta P > .050$		Unsat	sat Uns	nt Unsat	Unsati	Jnsat U	nsat	sat Un	sat Unsa	t Unsat	Unsat	Unsat	Jnsat
	400 area re- circulation fan/		At least one fan/plenum is in	S (ES)	Sat Sa	Sat	Sat	Sat	Sat	Sat Sat	ıt Sat	Sat	Sat	Sat	Sat
	plenum	FR-808 Icon red and PDT-839 AP >.050		Unsat Unsat Unsat Unsat Unsat Unsat	sat Uns	t Unsat	Unsat	Insat U	Unsat Un	sat Un	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	t Unsat	Unsat	Unsatt	Jnsat
	Vault re-		At least one fan/plenum is in	Sat	Sat Sa	Sat	Sat	Sat	Sat	Sat Sat	ıt Sat	Sat	Sat	Sat	Sat
	fan/ plenum	FR-812 Icon red and PDT-841 $\Delta P > .050$		Unsat	sat Uns	ut Unsat	Unsat	Jusat U	nsat Un	sat Un	at Unsa	t Unsat	Unsat	Unsat	Jnsat

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

		Sun.	PM		,		Sat	Ciisat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
L		<b>V</b> 1	AM				Sat	CISA	Sat	Unsa	Sat	tUnsa	Sat	t Unsa		
		Sat.	PM				Sat	CIISa	Sat	Unsai	Sat	Unsat	Sat	Unsat		
L		• • • • • • • • • • • • • • • • • • •	AM				Sat	CID	Sat	Unsa	Sat	Unsat	Sat	Unsat		
		Fri.	PM		LTS	<b>~</b>	Sat	Ciisa	Sat	Unsat	Sat	Unsat	Sat	Unsat		
		1	AM		ESU	le one	Sat	CHSar	Sat	Unsat	Sat	Unsat	Sat	Unsat		
		Thu.	PM		CE F	circ)	Sat	Ciisat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
		(L	AM		LLAN	Unsat.	Sat	Ulisat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
		òđ.	PM		SURVEILLANCE RESULTS	Sat. / Unsat. (circle one)	Sat	Onsar	Sat	Unsat	Sat	Unsat	Sat	Unsat		
		Wed.	AM		SUI	<b>6</b> 2	Sat	Cirsar	Sat	Unsat	Sat	Unsat	Sat	Unsat		
	2.13	o <sup>;</sup>	PM	b				Unsar		Unsat	(Sag)	Unsat	Sat	Umsat		(Ag
֓֞֜֜֜֜֓֓֓֓֓֓֜֜֜֓֓֓֓֓֓֜֟֜֜֓֓֓֓֓֓֡֜֜֟֓֓֓֓֓֡֓֡֓֡֓֡	14-30-13	Tue.	AM	9				-			Bab	nsat	(ES)	Jusat		372
	4-29-13	'n.	PM	ત		S	(Sat	Ciisat	Sat	Unsat Unsat Unsat	Sat	) Cursat	Sat	Unsat		1939
	4-5	Mon.	AM	9				Olisat	RES)	Unsat	8	Unsat	ES)	Unsat Unsat		0291 450 8281 661A
	Date:	Weekday:	Shift:	Initials:	Acceptance	Criteria	PDI-814-2 < PDI-803-	2 < PDI-804-2	ens Ida / C ncs Ida	2 < PDI-804-2	050 Idd > C 050 Idd	2 < PDI-854-2		PDI-864-2 < PDI-852- 2 < PDI-854-2	Completion Time	
		ck #4 in	mate		2	Gauge	PDI-814-2 PDI-803-2	PDI-804-2	PDI-820-2	PDI-804-2	PDI-870-2	300 Area PDI-853-2 PDI-854-2	PDI-864-2	400 Area PDI-852-2 PDI-854-2	Complet	
		iken on ra I equivaler	nt any alte			Area	200 Area			IOU Alea		300 Area		400 Area		
	Note	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	be used if necessary. Document any alternate		Description	mondines.	Glovebox exhaust	header APs	< laboratory APs	< basement APs for areas 100, 200, 300	and 400		2			
		Gauge read:	be used if ne	PDIS used.	SRs			,	4.1.1.4				1			

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Date 4-3013 Time 1950 Completed by:  $\angle$ 

On-duty Supervisor Reviewed by: Word

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of  $(\ge -0.1; \le 0.1)$ . The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage

		Date:	4-24-13	\$1-08-h					
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	nm	75					
	Description / Gauge	Acceptance Criteria	"	8	SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)		
SR	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	(A)	(509)					
4.4.1.1	CP-305-H (LED Reading)		(SO)	06.5)		-			
	(DET-305-3) – (CP-305H)	Record Calculated Value	Soo	(509)					
	(LCD Reading) (LED Reading)	≥ <b>-</b> 0.1; ≤+0.1	Sat./Unsat.	🛂	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0818	) 80					

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)
(Page 2 of 4)

				(rage	(Fage 2 of 4)					
			Date:	4-29-13	4-30-13					
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	**	1 &					
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	<2.0 &> 01 in. wc	\$o.	\$ 0					
	supply filter plenum (HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^3 \text{ in. wc}$	Ø.	64.			:		
	South Corridor	<sup>1</sup> PDI-895-1	$\leq 2.0 \& > 0^4 \text{ in, wc}$	50.	90					
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	0.1	o',					
		1-718-IDd1	$\leq 2.0 & > 0^1 \text{ in. wc}$	26	, 28					
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	3/8	15.					
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	18.	33					
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<b>δ</b> ξ.	30					
	300 area special	PDI-819-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.41)	14.	1				
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	≤2.0 & > 0¹ in. wc	٥h٠	97					
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	,35					
		1-818-1041	≤2.0 & > 0¹ in. wc	STBY	5784					
4.1.3.4	300 area glovebox	PDI-818-2	≤2.0 & > 0¹ in. wc	X812S	STBY	7	7 //			
	exhaust filter plenum (FF855) AP	PDI-818-4	<2.0 & > 01 in. wc	kgns	5 + 13 1/		/			
		PDI-818-5	$\leq$ 2.0 & > 0¹ in. wc	ST&Y	57.84					
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STÊY	STBY					
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY					
	(FF859) AP	PDI-821-4	$\leq 2.0 \text{ & > 0}^1 \text{ in. wc}$	SIEV	5787					

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

SR					(Page	(Page 3 of 4)					
Description   Cauge   Attentions are glovebax   PDI-822-2   SO & & O'in we state the pleanent extension   PDI-823-4   SO & & O'in we state the pleanent extension   PDI-823-4   SO & & O'in we state the pleanent extension   PDI-823-4   SO & & O'in we state the pleanent extension   PDI-823-4   SO & & O'in we state the pleanent extension   PDI-823-4   SO & & O'in we state the pleanent extension   PDI-823-5   SO & & O'in we state the pleanent extension   PDI-823-5   SO & & O'in we state the pleanent extension   PDI-823-5   SO & & O'in we state the pleanent extension   PDI-823-5   SO & & O'in we state the pleanent extension   PDI-823-5   SO & & O'in we state the pleanent extension   PDI-823-5   SO & & O'in we state the pleanent extension   PDI-823-5   SO & & O'in we state the pleanent extension   PDI-823-5   SO & & O'in we state the pleanent extension   PDI-823-5   SO & & O'in we state the pleanent extension   PDI-823-5   SO & & O'in we state the pleanent   PDI-823-5   SO & & O'in we state the pleanent   PDI-833-5   SO & & O'i				Date:	4-29-13	4-30-13	-				
Description   Gauge   Acceptance Criteria				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
Description   Gauge   Acceptance Criteria				Initials:	4	74					
400 area glovebox         'PDI-822-1         \$2,0 & > 0^1 in. wc         . G7           exhaust filter plenum (FF856) AP         PDI-822-4         \$2.0 & > 0^1 in. wc         . G7           400 area glovebox exhaust filter plenum (FF857) AP         PDI-823-2         \$2.0 & > 0^1 in. wc         \$787           South Basement exhaust filter plenum (FF857) AP         PDI-823-5         \$2.0 & > 0^1 in. wc         \$789           South Basement exhaust filter plenum (FF857) AP         PDI-823-5         \$2.0 & > 0^1 in. wc         \$189           General filter plenum (HVP-805) AP         PDI-830-3         \$2.0 & > 0^1 in. wc         \$20           300 area re-circulation filter plenum filter plenum filter plenum filter plenum filter plenum filter plenum (HVP-805) AP         PDI-836-2         \$2.0 & > 0^1 in. wc         \$20           900 area re-circulation filter plenum filter p	SRs	Description	Gauge	Acceptance Criteria			SURVE	ILLANCE RE (in. wc)	SULTS		
PDI-822-2   \$\int \text{\$\alpha \text{\$\circ \chin \text{ we} \text{ c. 40} \text{ and filter plenum (FF856) AP PDI-822-5   \$\int \text{\$\alpha \text{ c. } \text{\$\alpha \text{ c. } \text{ c. } \text{\$\alpha \text{ c. } \text{ c. } \text{\$\alpha \text{ c. }  c.			<sup>1</sup> PDI-822-1	$< 2.0 & > 0^1 \text{ in. wc}$	19.	79.			ń		
PDI-822-5   \$\int 0.0 & > 0^1 \text{in wc}  \text{.43}  \text{9DI-822-5}  \text{\$\int 0.0 & \int 0.0}  \text{9DI-822-5}  \text{\$\int 0.0 & \int 0.0}  \text{\$\int 0.0 \text{9DI-823-1}  \text{\$\int 0.0 & \int 0.0}  \text{\$\int 0.0 \text{9DI-823-2}  \text{\$\int 0.0 & \int 0.0}  \text{\$\int 0.0 \text{1.0} \text{ wc}  \text{\$\int 0.0 \text{9DI-823-2}  \text{\$\int 0.0 & \int 0.0}  \text{\$\int 0.0 \text{8DI-823-2}  \text{\$\int 0.0 & \int 0.0}  \text{\$\int 0.0 \text{8DI-823-2}  \text{\$\int 0.0 & \int 0.0}  \text{\$\int 0.0 \text{8DI-830-1}  \text{\$\int 0.0 & \int 0.0}  \text{\$\int 0.0 \text{8DI-830-1}  \text{\$\int 0.0 & \int 0.0}  \text{\$\int 0.0 \text{8DI-830-2}  \tex	4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	95.	05.					
PDI-823-5   \$\inperp{2.0 & > 0^1 in. wc} \rightarrow		exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^{1} \text{ in, we}$	.43	145					
400 area glovebox exhaust filter plenum (FF857) AP  South Basement exhaust filter plenum filter plen			PDI-822-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.50	149					
## South Basement exhaust filter plenum filt			<sup>1</sup> PDI-823-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	5 T.8 Y					*
PDI-823-5   \$\int \text{FR857} \ \ \text{AP}	4.1.3.4	400 area glovebox	PDI-823-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	5787					
South Basement exhaust   PDI-830-1   \$\leftilderun \text{FR-829} \text{API-830-2}   \$\leftilderun SOUTON REPORT   PDI-830-2   \$\leftilderun \text{SOUTON REPORT   PDI-830-2   \$\leftilderun \text{SOUTON REPORT   PDI-830-3   \$\leftilderun \text{SOUTON REPORT   PDI-837-3   \$\leftilderun \text{SOUTON REPORT   PDI-83		(FF857) AP	PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc		STBY					
South Basement exhaust filter plenum (FF-829) AP PDI-830-2 \$2.0 & > 0 <sup>1</sup> in. wc .35  (FF-829) AP PDI-830-3 \$2.0 & > 0 <sup>1</sup> in. wc .31  300 area re-circulation filter plenum (HVP-805) AP PDI-836-1 \$2.0 & > 0 <sup>1</sup> in. wc .56  300 area re-circulation PDI-836-2 \$2.0 & > 0 <sup>1</sup> in. wc .56  1PDI-837-1 \$2.0 & > 0 <sup>1</sup> in. wc .56  1PDI-837-1 \$2.0 & > 0 <sup>1</sup> in. wc .50  1PDI-837-2 \$2.0 & > 0 <sup>1</sup> in. wc .50  1PDI-837-2 \$2.0 & > 0 <sup>1</sup> in. wc .50  1PDI-837-3 \$2.0 & > 0 <sup>1</sup> in. wc .50			PDI-823—5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	5 7.84					
FF-829  AP   PDI-830-2   \$\leq 2.0 & > 0^1 \text{ in. wc}   .35     FF-829  AP   PDI-830-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   .31     PDI-836-1   \$\leq 2.0 & > 0^1 \text{ in. wc}   .31     PDI-836-2   \$\leq 2.0 & > 0^1 \text{ in. wc}   .56     FPI-836-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   .56     PDI-837-1   \$\leq 2.0 & > 0^1 \text{ in. wc}   .52     PDI-837-2   \$\leq 2.0 & > 0^1 \text{ in. wc}   .52     HVP-806  AP   PDI-837-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47     PDI-837-3   \$\leq 2.0 & \leq 8 > 0^1 \text{ in. wc}   .47		South Basement exhaust		$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	ଓଡ଼ା	. 59	*				
PDI-830-3   \$\int \text{PDI-830-3} \rightarrow \cdot \frac{2.0 \& > 0^1 \text{ in. wc}}{\text{FIlter plenum}} \qquad \text{PDI-836-1}  \leq 2.0 \& > 0^1 \text{ in. wc}  \text{.56}  \text{PDI-836-2}  \leq 2.0 \& > 0^1 \text{ in. wc}  \text{.56}  \text{PDI-836-3}  \leq 2.0 \& > 0^1 \text{ in. wc}  \text{.52}  \text{.62}  \text{.96}  \text{.96}  \text{.97}  \text{.96}  \text{.97}  .	4.1.3.4	filter plenum		$\leq$ 2.0 & > 0 <sup>t</sup> in. wc	.35						
300 area re-circulation filter plenum (HVP-805) AP PDI-836-2 \$\leq 2.0 & > 0^1 \text{ in. wc}\$  (HVP-805) AP PDI-836-3 \$\leq 2.0 & > 0^1 \text{ in. wc}\$  1PDI-836-3 \$\leq 2.0 & > 0^1 \text{ in. wc}\$  300 area re-circulation filter plenum PDI-837-1 \$\leq 2.0 & > 0^1 \text{ in. wc}\$  (HVP-806) AP PDI-837-3 \$\leq 2.0 & > 0^1 \text{ in. wc}\$  3.00 area re-circulation PDI-837-2 \$\leq 2.0 & > 0^1 \text{ in. wc}\$  4.7		(FE-027) ΔΕ	PDI-830-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.31	, 3 [					
### Tilter plenum  (HVP-805) AP  PDI-836-3 \$\leq 2.0 & \leq 0^1 \text{ in. wc}\$  **Solution		300 area re circulation	¹-928-IQd₁	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.89	, 90					
PDI-836-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   \cdot \frac{.52}{.02}   \text{ in. wc}   \cdot \frac{.52}{.02}   \text{ in. wc}   \cdot \frac{.62}{.02}   \text{ in. wc}   \cdot \frac{.62}{.02}   \text{ in. wc}   \text{ constants in. wc}		filter plenum	PDI-836-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	95.	,56					
PDI-837-1 ≤2.0 & > 0¹ in. wc .62  PDI-837-2 ≤2.0 & > 0¹ in. wc .50  PDI-837-3 ≤2.0 & > 0¹ in. wc .41	4.1.1.7	(HVF-803) AF	PDI-836-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	25.	.51		/			
PDI-837-2 ≤2.0 & > 0 <sup>1</sup> in. wc . <b>50</b> PDI-837-3 ≤2.0 & > 0 <sup>1</sup> in. wc . <b>41</b>		300 area re circulation	<sup>1</sup> PDI-837-1	≤2.0 & > 0¹ in. wc	.62	.62					
PDI-837-3 ≤2.0 & > 0 <sup>1</sup> in. wc		filter plenum	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	03.	. 50					
		177 (000-1411)	PDI-837-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	5.	. 47					

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

			;	(· )	/: =: :					
			Date:	₹1-62-H	4.30-13					
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	Mad	7 F					
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	<sup>1</sup> PDI-838-1	$\leq 2.0 &> 0^1 \text{ in. wc}$	18.	(2.					
	filter plenum	PDI-838-2	$\leq 2.0 & > 0^{1} \text{ in. wc}$	7.	14.					
4.1.1.7	A ( 11 v I - 00 v )	PDI-838-3	<2.0 & > 01 m. wc	88.	. 39					
	400 area re-circulation	<sup>1</sup> PDI-839-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	DE.	,30					
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	2h:	, 42					
	( HVF-808) ΔF	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	12	. 42					
	South Bleed off filter	1-018-IQd <sub>1</sub>	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.13	7.14					
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc	9/2	714.					
	( I.T. OZZE) (A)	PDI-810-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.43	. 4.1					
	South Bleed off filter	1 - 118- IQd'	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OF	OFF					
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	00年	OFF	C				
	( FF-822B) AF	PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	96	0 # #					
			Completion Time	0814	1180		7			
00	OC Operator Review and Page Count Complete	age Count Comp	lete (initials)	B	Riose		<b>&gt;</b> /			
Non TSR requirement:	ement:		1	//	O <sub>M</sub>		:			

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Reviewed by: Bourt and Completed by: Paul Trijlle Date 43018 Time 0811

On-duty Supervisor

Date: 54-13 Time: 1330

ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

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				(Fage	(Page I of 4)					
			Date:	4-29-13	4-30-13					
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
			Initials:	N. Y.	Pr					
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	Vault re-circulation	<sup>1</sup> PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STRY					
	filter plenum	PDI-840-2	$\leq 2.0 \& > 0 \text{ in}^{1} \text{ wc}$	781C	S 7.8v					
	157 (110-1411)	PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in, wc}$	डाक्षर	1815					
4.1.1.7	Vault re-circulation	<sup>1</sup> PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	31-12	5 h ·					
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	25	.52			,		
	(nvr-012) Δr	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	98.	.50					
	200 area re-circulation	1-183-IQI	$\leq 2.0 \& > 0^1 \text{ in. wc}$	58.	15.					
	filter plenum	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	0 <del>1</del> -	1					
	157 (100-1411)	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	34	1.				
,	200 area re-circulation	<sup>1</sup> PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.23	. 23					
	filter plenum	PDI-832-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	25.	, 5,					
	(700-1411)	PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<u>ه</u>	\$ 7 ,					
		<sup>1</sup> PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.11	111		1			
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	98.	٠ د د					
	(FF-820A) $\Delta P$	PDI-807-3	<2.0 & > 01 in. wc	9h.	67.					
	No. 44 Disc.	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	00	OFF					
4.1.3.4	plenum (FF-820R) AP	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF.	ORF					
		PDI-809-3	≤2.0 & > 01 in. wc	08	OFF					

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 2 of 4)					
			Date:	4-29-13	4-30-13					
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
			. Trick	***	ه ۲					
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
		'PDI-829-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	30	V 0.					
4.1.3.4	North Basement exhaust filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	13.	, 20					
	(5) A	PDI-829-3	$\leq 2.0 \& > 0^4 \text{ in. wc}$	02.	61.					
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	19.	16.					
	filter plenum	PDI-833-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	44.	7 4.					
4.1.1.7	142 (COO- 1411)	PDI-833-3	≤2.0 & > 0¹ in. wc	Sh.	.45					
	100 area re-circulation	<sup>1</sup> PDI-835-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.13	7.13					
	filter plenum	PDI-835-2	<2.0 & > 0 in wc	#T.	44					
	187 (4.00-14.11)	PDI-835-3	≤2.0 & > 0 <sup>1</sup> in. wc	17	7,7	7				
		1-815-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STEY	STRY				14	
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	578%	5	4			
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STAY	578%					
		PDI-815-5	<2.0 & > 01 in. wc	ST&Y	STBY		1			
		'PDI-816-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.36	.36				S.	
4.1.3.4	100 area glovebox	PDI-816-2	<2.0 & > 0 <sup>1</sup> in. wc	.45	95,					
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc.}$	SH.	٠ 4 ٢					
<del></del>		PDI-816-5	<2.0 & > 0 in wc	<u>بر</u> 2	. 5.					

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 3 of 4)	Date: 4-29-43 4-30-33	Weekday: Mon. Tue. Wed. Thu. Fri. Sat. Sun.	Initials:	Gauge Acceptance Criteria SURVEILLANCE RESULTS	¹PDI-812-1 ≤2.0 & > 0¹ in. wc , 14	III PDI-812-2 <2.0 & > 0 <sup>1</sup> in. wc , 3 , 31	PDI-812-3 <2.0 & > 0 In wc 3.2	PDI-8124 <2.0 & > 0' in, wc . 31	PDI-812-5 ≤2.0 & > 0¹ in. wc 26 , 2.9	¹PDI-813-1 ≤2.0 & > 0¹ in. wc ≤7.8	PDI-813-2 $\leq 2.0 \& > 0^1 \text{ in. wc}$					•	<sup>1</sup> PDI-863-1 ≤2.0 & > 0 <sup>1</sup> in. wc , <b>3.4</b>	
				X														
		i.	46	Description	200 area glovebox	exhaust filter plenum (FF850) ΔP				200 area glovebox	exhaust filter plenum (FF851) $\Delta P$			IFIT exhaust	(FF-865) ΔP		IFIT supply filter plenum	
		•		SRs			4.1.3.4					4.1.3.4			4.1.3.4			-

Page 33 of 38 Sat. ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) Fi SURVEILLANCE RESULTS Date 5-1-13 Time: 1331 Thu. Wed. 4-30-13 On-duty Supervisor SAT 0823 69. (Page 4 of 4) RY 49 SAY Tue. .04 88 6 Surveillance Rounds 4-22-13 Mon. 7 10. 2010 7 5 ş SAT SAT Reviewed by: Date: designated exclusion area 0 lb/ft² combustibles in Initials: up to the walls of the rooms, whichever is less Weekday: (within 15 feet of fans) perpendicular from the face of the PMMA, the between gloveboxes, or Completion time OC Operator Review and Page Count Complete (initials)  $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq 2.0 \text{ & > 0}^{1} \text{ in. wc}$ <2.0 & > 01 in. wc 0 lb/ft2 combustibles Acceptance Criteria width of the aisles  $\leq 2.0 \text{ &> } 0^1 \text{ in}$ within 3.5 feet Ly M Date 4. 30-13 Time 0823 Note: SR 4.1.3.4 applies during mode 1 and mode 2. PDI-857-1 PDI-857-2 PDI-856-1 PDI-856-2 Gauge Combustible exclusion area FE820B, FE820C, FE822A, FE822B, FE822C around basement exhaust North Basement supply fans FE828, FE829 and Rooms 201, 204, 206, & 207 bleed-off fans FE820A, North corridor supply (HVP-840) AP (HVP-809) AP filter plenum filter plenum Description TA55-STP-004, R15.1 Non TSR requirement Completed by: Paul Comments: 4.1.3.4 4.1.3.4 4.3.2.2 SRs Z

Sun.

Surveillance Rounds

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## ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

			M&TE Calibrated Data			
	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	041254	V-701 Thermistor File No.: $\Box \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	040378
Record September	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-12	Calibration Expiration Date:	\$1.421.8
through April only	PF-11 Thermometer File No.:	0397 4B	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.: 63 97 44	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date: 8 - 13 - 13	8-13-13	Calibration Expiration Date: 8 • 13 - 13	8 - 13 - 13

	PF-10 & PF-11 Pumpho	phouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	V-701 & V-70	4 Fire Water S	torage Tank	<b>Femperature</b>			
		Date:	H-19-13	4-19-134-30-13					
	Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	70	7					
SR	Description	Acceptance Criteria							
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	SAT UNSAT	(SA) NUNSAT	SAT /UNSAT	SAT /UNSAT	SAT /UNSAT	SAT AUNSAT	SAT /UNSAT
4.3.1.1	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	1:25	53.3					
4.3.1.1	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	54.6	56.4	1				
4.3.1.31	RECORD PF-10 room temperature	≥ 50.1 F	69.4	64.3					
4.3.1.31	RECORD PF-11 room temperature	≥ 50.1 F	61.7	63.7					
		Completion Time:	0 835 0838	0838					
	OC Operator Review and Page Count Complete (initials)		A (V	81. (B)	1				

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Time 083%

Time: 1330

Date: 5-1-13 Date 4-30-13 Completed by: 1. Luchaning Reviewed by: On-duty Supervisor

Comments:

Surveillance Rounds

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ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-344	Southeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sat// Unsat.		41913	36
4.1.3.2	Confinement Door DR-149	Northeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sat.) Unsat.	Sobo	21/0/12	Bra
4.13.2	Confinement Door DR-102	Northweet	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door)	Sat Unsat.	8540	4110113	300
			AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is $\leq$ 30 seconds $ \begin{array}{c} \mathcal{H} \\ \end{array} $ Seconds	Sat Unsat.	2880	4/10/13	gree

26 2 1 0% Page 36 of 38 Initials 3 14110113 1 4/10/17 4/1913 4110/13 OC Operator Review and Page Count Complete Date: Date: 4-10-6 Time: 11:00 ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) Completi on Time: 1000 45801 1000 0820 Sat Unsat Sat or Unsat. Unsat. Sat Unsat Sat Unsat Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). Exercise fully open and Verify that the door goes to the fully closed position Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is  $\leq 30$  seconds. (Page 2 of 2) Date 4/10/13 Time 0909 Reviewed by Dars Acceptance criteria Surveillance Rounds Seconds via the automatic door closure. (Do South Basement Door (Tunnel) Personnel door N. Basement DR-4 Location Southwest Note: SR 4.1.3.2 applies during mode 1 and 2. Confinement Door DR-4 Confinement Door DR-302 Confinement Door DR-90 TA55-STP-004, R15.1 Equipment On-duty Supervisor Comments: Completed by: 4.1.3.2 4.1.3.2 4.1.3.2 SRs

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Page 37 of 38	ions Center)	
Surveillance Rounds	ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)	(Page 1 of 2)

	à			(7 nPo 1 of 7)			
SR	Desc	Description	Acceptance Criteria	Sat. / Unsat.	Completion Time:	Date:	Initials:
	Channel #	Location					
		Rm. 201	> 1 mR/hr	(Sat.)/ Unsat.	1780	4/1/2013	, R
	2	Rm. 106	> 1 mR/hr	(Sat.) Unsat.	1780	4/1/2013	0 0 0 0
4.2.1.1	3	Rm. 305	> 1 mR/hr	(Sat.) Unsat.	1280	4/1/2013	1
	4	Rm. 401	> 1 mR/hr	(Sat.) Unsat.	1280	4/1/2013	a de
	5	Rm. 206	> 1 mR/hr	(Sat.) Unsat.	7180	4/1/2013	No.
	9	Rm. 114	> 1 mR/hr	(Sat.) Unsat.	2180	4/1/2013	N.
	7	Rm. 319 W	> 1 mR/hr	(Sat) / Unsat.	7780	4/1/2013	No.
	∞	Rm. 409	> 1 mR/hr	(Sat.) Unsat.	2280	4/1/2013	N N
	6	Rm. 208	> 1 mR/hr	(Sat.) Unsat.	7280	4/1/2013	
	10	Rm. 124	> 1 mR/hr	Sat. Unsat.	08.13	4/1/2013	e H
	11	Rm. 319 E	> I mR/hr	(Sat.) Unsat.	0823	4/1/2013	N N
	12	Rm. 420	> 1 mR/hr	(Sat.) Unsat.	68 23	4/1/2013	0
	13	Rm. 209	> 1 mR/hr	(Sat)/ Unsat.	4280	4/11/2013	0
	14	Rm. 126	> 1 mR/hr	(Sat.) Unsat.	0824	4/112013	
	15	Rm. 327	> 1 mR/hr	(Sat.)/ Unsat.	7280	4/11/2013	Ac.
	91	Rm. 429	> 1 mR/hr	(Sal) / Unsat.	4280	4/1/2013	
	17	Vault 17	> 1 mR/hr	(Sat.) Unsat.	0824	(1/201)	X
4.2.2.1	18	Vault 18	> 1 mR/hr	(Sat.) Unsat.	0 4 7 5	4/1/2013	
	61	Vault 19	> 1 mR/hr	(Sat.) Unsat.	087P	4/1/2017	
	20	Vault 20	> 1 mR/hr	(Sat)/ Unsat.	9280	5192   1/h	, )
			1				

Note: These readings SHALL be taken on the rate meters in rack RK-801-3 in the OC.

TASS-STP-004, R15.1  ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)  (Page 2 of 2)  Comments:  Comments:	
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#### Attachment B, Surveillance Training Checklist

	(Page 1 of 2)		
Procedure title:	Surveillance R	ounds	
Procedure no.:	TASS-STP-OOH		
Date of issue:	3-1-13		
Working copy issued to:	B. Chance		
Working copy issued by:	A. Dunseith	KI	
		Operations Center Ope	erator
Operations Center Oper	ator Review	1 04-7-	13
Sig Required Reading for this Surve <b>Training Checklist</b>	nature illance has been completed	55/	Date
Workers Performi	ng Surveillance	Applicable Surveilla	nce Training Current
		Initials	Date
R. Briscoe		u	3-1-13
B. Chance		٥.	
D. Dunlavey	<u> </u>	α	
A. Dunseith		Δ.	
R. Lum		<u>a</u>	
A. Ortic	<u> </u>	٥	
F. Sexhert		<u> </u>	
M. W. Hman		۵.	
N. Chavez		a	
K. Hohner		С~	
Comments:	**		

Page 20 of 29

#### Attachment B, Surveillance Training Checklist (Page 2 of 2)

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance	Training Current
	Initials	Date
J. Mortinez	a	3-1-13
T. Languarthy	<u> </u>	\
P. Trujillo	a	
N. Montoya	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
A. Sanchez	a >	
G. Coriz	a	
M. Irish	a	
A. Herrera	CV/	
^	9/	
	/	
(0)		
/		
-		

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

Note			Date:							3/1	- 1		-	1	
Gauge readings should be	Date	Date		;	$\perp$	1				× ,	2	3.2.13		3.3.13	3
taken on rack #4 in the OC.	Weekday	Weekday		Mon.	-	Tue.	Wed.		Thu.	Fri.	. <u>.</u> .	Sat.	ند	Sun.	٦.
whenever possible. Document if	Shift:	Shift:	1	AM P	PM A	AM PM	AM	PM AM	A PM	AM	PM	AM PM		AM	PM
ancitate r.D.s. are used.	Initials:	Initials:						<u> </u>		080	ડ	BC	9	23	હ
Description Gauge Acceptance Criteria	Accept	eptance Criteria					SURVEILLANCE RESULTS (in. wc)	ETLLA (i)	(in. wc)	RESU	LTS				
200 area glovebox PDI-814-1 or <-1.0 in. wc¹ exhaust header AP PDI-814-2		<-1.0 in. wc <sup>1</sup>	1						1	30,7	5	-204	206 405	So	7.06
100 area glovebox PDI-820-1 or <-1.0 in. wcl exhaust header AP PDI-820-2	PDI-820-1 or PDI-820-2	≤-1.0 in. wc¹	3/							O.	8	1-8-1-	190-189	\$5	-1.88
300 area glovebox PDI-870-1 or <-1.0 in. wc <sup>1</sup> exhaust header $\Delta P$ PDI-870-2	)t	<-1.0 in. wc <sup>1</sup>		<b>)</b> /	2					87	00	-1.99	161- 261- 861-	· 85	16:
400 area glovebox PDI-864-1 or ≤-1.0 in. wc <sup>1</sup> exhaust header ΔP PDI-864-2		<-1.0 in. wc <sup>1</sup>				7/				3.	36	-141	197-198	85	-[6]
200 area laboratory PDI-803-1 or <-0.05 in. wclheader AP PDI-803-2		<-0.05 in. wc <sup>1</sup>								5,	3	6,	3000		32.
100 area laboratory PDI-802-1 or <-0.05 in. wc¹ header AP PDI-802-2	VI	<-0.05 in. wc <sup>1</sup>					O			5		17:	1.23		-24
300 area laboratory PDI-853-1 or <-0.05 in. wc <sup>1</sup> header AP PDI-853-2	VI	<-0.05 in. wc <sup>1</sup>								جر ج	\$	57:	13 . SE		:23
400 area laboratory PDI-852-1 or ≤-0.05 in. wc¹ header ΔP PDI-852-2		<-0.05 in. wc <sup>1</sup>						)/		8/1	22:	91.	20	,8	12:-
IFIT Facility AP PDI-865-4 or ≤-0.05 in. wc PDI-865-5		<-0.05 in. wc				,				140	0	9	9	6	7]-
North basement AP PDI-804-1 or < 0.00 in. wc	PDI-804-1 or PDI-804-2	< 0.00 in. wc								9,	<del> </del>	01.			0
South basement AP PDI-854-1 or < 0.00 in. wc		< 0.00 in. wc								2.		01:		1	0,
IRT Tunnel AP PDT-901 or < 0.00 in. wc PDI-901		< 0.00 in. wc								871- NO	129	121'	211-181-111	য	721

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					(1 a	(rage 2 or	2									
;	Note		Date:								3/1/	(13	3.2-13		3.3.	3
Readings using FC	Readings should be taken using FCS screens		Weekday:	Mon.	 	Tue.		Wed.	F	Thu.	Fri.		Sat.		Sun.	
FMT#15	FMT#151,152,201LD		Shift:	AM	PM A	AM PI	PM A	AM PM	I AM	PM	AM	PM ,	AM	PM /	AM	PM
and 2021 and local r be used if I	and 2021.12. Freid vernication and local plenum PDIs may be used if FCS is unavailable.		Initials:			(6)					Owe	८	220	7	B)	3
SRs	Description	Readings	Acceptance Criteria				SC	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	LLAN Unsat.	(CE H	ESUI le one	CTS				
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 $\Delta P > .050$ or	At least one fan/plenum is in	Sat	Sat	Sat Sa	Sat Sat	ıt Sat	Sat	Sat	(Sab)	Sat	8	Sag.		(Sat)
	plenum	FR-802 Icon red and PDT-832 AP >.050		Unsat	nsat U	nsatUn	satUns	at Unsat	tUnsat	Unsat	Jnsat U	nsat	Insat U	nsat	nsat U	Insat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 AP >.050 or	At least one fan/plenum is in	Sat	Sat	Sat Sat	at Sat	t Sat	Sat	Sat		(824)	(Sat)	()		(gs)
	plenum	FR-804 Icon red and PDT-835 $\Delta P > .050$	service	Unsat	nsat Uı	isat Un	sat Uns	at Unsat	tUnsat	Unsat	Jnsat U	nsat	Insat U	nsat U	nsat U	nsat
4.1.1.6	300 area re- circulation fan/	773	At least one fan/plenum is in	Sat	Sat	Sat Sat	at	Sat	Sat	Sat (	Sar	Sat	(Sat)	8		(8)
	plenum	FR-806 Icon red and PDT-837 \( \D\ PDT-837 \( \D\ PDT-837 \)	service	Unsat	ısat Ur	sat Uns	at Ons.	at Unsat	Unsat	Unsat	Jusat U	nsat U	nsat	nsat U	nsat U	nsat
	400 area re- circulation fan/	FR-807 Icon red and PDT-838 $\Delta P > .050$ or	At least one fan/plenum is in	Sat	Sat	Sat Sat	ıt Sat	t Sat	Sat	Sat (	Sat	Sat	Sat	8		
	plenum			Unsat	ısat Ur.	sat Uns	at Uns	at Unsat	Unsat	Unsat	Insat	nsat U	nsat Ur	nsat Ur	ısat Uı	nsat
	Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$ or	At least one	Sat	Sat	Sat Sat	ıt Sat	Sat	Sat	Sat	Saf	Sat	Sat	<b>S</b>	Sat	Sat
	fan/ plenum	FR-812 Icon red and PDT-841 $\Delta P > .050$		Unsat	ısat Un	sat Uns	at Uns	t Unsat	Unsat	Unsat	Insat U	nsat U	nsat Ur.	ısat Ur	ısat Uı	nsat
										-	-		-	-		-

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#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

		YES	Γ -		1	<b>b</b> = -	1 .: 4		
3.3.(3	Sun.	PM	ઇ		Sat	Sat	Sat	S S	1939
3.5	S	AM	3		Sal	de Jas	Sat Unsat	Saf Unsat	1930 027 1939
8	Sat.	PM	9		(Say) Unsat	Sar Unsat	Say Sat Unsat Unsat	Say Unsat	1930
3.2-13	Š	AM	BC		Sat	Sat Unsat	(Sat) Unsat	(Sat) (Sat) Unsat Unsat	<sub>0789</sub>
2/1/13	Fri.	PM	ડ	TS	Sat Unsat	Sat	Sat Unsat	Sat Sat Sat Sat Sat Sat Sat Unsat	B20 /561 7110
3/1	F	AM	OAO	ESUI e one	Sat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	2110
	Thu.	Md		CE R (circl	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
	TI	AM		SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	Sat Unsat	Sat Sat Sat Sat Sat (Sat Unsat	Sat Sat (Sab Unsat Unsat Unsat	Sat Unsat	
	ed.	PM		RVEI Sat. / I	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
	Wed.	AM		SUI	Sat Unsat	Sat Unsat	Sat Sat Sat Sat Unsat Unsat Unsat	Sat Jusat	
	j.	PM			Sat Unsat	Sat Unsat	Sat Jnsat	Sat Unsat	
	Tue.	AM			Sat Unsat	Sat Unsat	Sat Jusat		
	'n.	PM			Sat Jnsat	Sat Jnsat	Sat Unsat	Sat Jnsat	
	Mon.	AM			Sat	Sat Sat Unsat Unsat	Sat Unsat	Sat Sat Sat Unsat Unsat Unsat	
Date:	Weekday:	Shift:	Initials:	Acceptance Criteria	PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-820-2 < PDI-802-	PDI-870-2 < PDI-853- 2 < PDI-854-2	PDI-864-2 < PDI-852- [ 2 < PDI-854-2	on Time
	ck #4 in trans	mate		Gauge	PDI-814-2 PDI-803-2 PDI-804-2	PDI-820-2 PDI-802-2 PDI-804-2	300 Area PDI-853-2 PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2	Completion Time
i	iken on ra I eouivale	nt any alte		Area	200 Area	100 Area	300 Area	400 Area	
Note	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	be used if necessary. Document any alternate		Description	Glovebox exhaust header APs	< laboratory APs < basement APs for areas 100, 200, 300	and 400		
	Gauge read	be used if ne	r Dis used.	SRs		4.1.1.4			

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Date 3-3-13 Time 1939

Reviewed by: Dark

Comments:

Completed by

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

1			Date	2 2 5	7.6.12		2, 10			6	61.73	-		6 4 6	'
dings	Gauge readings should be		Weekdav:	Mon.			Wed		43-47-13 Thu	<u>'                                    </u>	7-0-17 Fri	Sat Sat	T	Sun Sun	2 5
ck#	taken on rack #4 in the OC.		6			$\top$		+	-	<u> </u>				3	
giss	whenever possible. Document if		Shift:	AM PM	AM	PM /	AM P	PM A	AM PM	AW,	PM	AM	PM	AM	PM
sare	allentale P.D.Is are used.		Initials:	9	9	3	SE SE	(4)	13	4	3	B	ડ	9	ડે
Des	Description	Gauge Acce	Acceptance Criteria			S <sub>2</sub>	URVI	EILL.	SURVEILLANCE RESULTS (in. wc)	RESI	ULTS				
200 exha	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc¹	10/10/20	200	205	2.01	1,07-204	Lo. 2.	5.	2,8,28	7,00	45	-2,8	37,
100 exha	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc¹	187-187-		8	291, 19:1	20	00.	-1.85	1	7.78	1.88		881
300 s	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	-1,98 1.50		76	861 86.1	861-	ab'\ 8	\$6.1-	461-861-	26'1-		2/2/2/	R.
400 exha	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	<-1.0 in. wc <sup>1</sup>	191 49/-	6	The state of the s	80°1 19.1	151.		6.1	161-161-	75.1-		864 861	864
,00 a	200 area laboratory PDI-803-1 or header $\Delta P$ PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>	ON- DI-	91 .	3.	Of 10 62.00	0,20		-,30	61:	2.19	9.	-19	6
00 a	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	-23 - 3	-22	22:-	5. C. D. 3.3	3.24	1	7.23	77.	:23	72:		71:
00.	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc <sup>1</sup>	-24 -23	, yc.	o 192:-	G.	52.0		385	1.23	si- hz'-		46:	12
00 a	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc <sup>1</sup>	-,191-20	1,20	8.	P1:0	20 Q		23	9-	02:	12'-	1 - 2	چ)
IFI	IFIT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	02/- 06,-	81-191:		P.0. P.0.	71.19		1.	څ	<u>5</u>	67:	0-	9
lort	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	01'- 21'-	01:	0 01'-	0,000,00	01:	l	210	0	60-	0)-	01,	0]:
outh	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	1.2.1	-,101	0 0:	NO olo	11	0.0	-1-	=	5,	) 	01.	7
IR	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	Cr. Khi-	it? (5).	<u>م</u>	5110 avia	5.132	2000	(25)	-116	117-127	127	127	721;
1					-				-					1	1

### ATTACHMENT A: Per Shift Surveillance Rounds

					(Pag	Page 2 of	f3)									
	Note		Date:	24	~	7-5-13		26-13		53.07.13	78-13		3/4/	13	3-10-13	5.13
Reading	Readings should be taken using FCS screens		Weekday:	Mon.		Tue.	-	Wed.		Thu.	Fri.	j.	Sat.		Sun.	n.
FMT#1.	FMT#151,152,201LD		Shift:	AM F	PM A	AM P	PM A	AM PM	1 AM	1 PM	AM	Md	AM	PM.	AM	PM
and 202, and local e used if	and 202L.D. Field verification and local plenum PDIs may be used if FCS is unavailable.		Initials:	9	8	9 0	£ €	(3)	l B	3	9	3	Ca.	८	4	ß
SRs	Description	Readings	Acceptance Criteria			:	S	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	ILLA Unsa	RVEILLANCE RESUL Sat. / Unsat. (circle one)	RESU le one	LTS e)				
	200 area re-	FR-801 Icon red and PDT-831 $\Delta P > .050$	At least one fan/nlenum is in	TES S	Sat	Sat) (Sat)	Sat	Sat	(g)	Say	Sar	(S)	(FES)	(Sat)	(FS)	(Sat)
	plenum	FR-802 Icon red and PDT-832 AP >.050	service	Unsat Unsat Unsat Unsat Unsat Unsat	nsat U.	nsat	isat Un	sat Uns	at Unsa	Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Unsat	Unsat	Jusat U	Insat	Jnsat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 $\Delta P > .050$ or	At least one fan/plenum is in	(Fig	Sat	Sab Sab	Sat Sat	Sat Ear	Sat	(Jacobs)	(Fg)	(\$g)	(E)	Sat	(ES)	Sat
	plenum	FR-804 Icon red and PDT-835 AP>.050		Unsat	nsat U	msat Un	sat Un	sat Unsa	ut Unsa	t Unsat	Unsat	Unsat	Jusat U	Jusat U	Unsat Unsat	Jnsat
4.1.1.6	300 area re- circulation fan/		At least one fan/plenum is in	(Fg)	Sat	Sab	Sat	(Teg)	(Fig	Sax	(Fg)	(3)	Sal	Say		Sat
	plenum	FR-806 Icon red and PDT-837 $\Delta P > .050$		Unsat Unsat Unsat Unsat Unsat Unsat	ısat Ur	ısat Un	sat On	sat Unsa	t Unsa	Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Jusat	Jusat U	Insat U	nsat C	Jnsat
	400 area re- circulation fan/	FR-807 Icon red and PDT-838 $\Delta P > .050$	At least one fan/plenum is in	SEE SEE	Sat		Sat	THE SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE P	(teg)	TeS C	ga (ga	(Sat)	(sa)	Sat		Sat
	plenum	red and P > .050		Unsat Un	ısat Un	ısat Un:	sat Uni	Unsat Unsat Unsat Unsat Unsat	t Unsat	tUnsat	Unsat Unsat Unsat		Unsat Unsat		Unsat Unsat	Insat
	Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$	At least one	(Sat)	Sat	Egg (Sat	at Sa	Sat	(g)		(3)	(%)	(Sat)	Sat		(Sat
	fan/ plenum	FR-812 Icon red and PDT-841 $\Delta P > .050$		Unsat	ısat Un	ısat Un	sat Uni	sat Unsa	tUnsa	tUnsat	Jusat	Jnsat U	Jusat U	nsat U	nsat U	Insat

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

- 3	Sun.	PM	3		(	Sat	Sat Unsat	Sat Omsat	Sat Omsat		1930
3-10-13	Ś	AM	9			Sat (Sa) Onsat Unsat	(Sat Unsat	රිකි Unsat	(Sa) Unsat		0730 1930
/13	Sat.	PM	Q		(		Sat	Sat Omsat	Sat Unsat		1934
3/9/13	'S	AM	U		i	Sa) Unsat	Sat (Sab) (Sat) Unsat Unsat Onsat	(Sat) Unsat	Sat) Unsat		7520
13		PM	2	TS.		Sat	Sat Unsat	(Sat) Unsat	Sat Unsat		7863
3-8-13	Fri.	AM	Α	ESOL	e one)	(Sat) Unsat	(Sat) Unsat				0130
3	u.	PM	18	CE R	(cjrc]	Sar	gat Unsat	Sat	Sat Jusat		494
8307.13	Thu.	AM	ap.	SURVEILLANCE RESULTS	Sat. / Unsat. (cjrcle one)	(Sat (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) Unsat Unsat Unsat Unsat Unsat Unsat Unsat		(Sat (Sat) (Say (Sab) Sat (Sab) Unsat Unsat Unsat Unsat Unsat	CAD (Sa) (Sa) Unsat Unsat Unsat		950 per 946 070 PAS 0734 854
	d.	PM	lex lex	VEII	at. / [	Sat	Say Rati Unsat Unsat	gay Unsat	Sat Insat		35
2-6-13	Wed.	ΑМ	000	SUF	<i>9</i> 2	Sat Unsat	Sat Unsat I	Sat	Sat) (Sat) Unsat Unsat		
	αί	PM	ک			Sat	Sa Unsat	(Sa) Unsat t	Sat		125 227
7-5-(3	, Tue.	AM	9			(Saf) Unsat	Onsat (	Sat Unsat L	Sar (		06.30
13 2-	ü.	PM	8			Sat	Sat	Sat (	Sat Unsat		1941
3-4-13	Mon.	AM	9			Sat) Unsat	Say Onsat	Jusat	Say ( Unsat [		67341941 0630
Date:	Weekday:	Shift:	Initials:	Acceptance	Criteria	PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-820-2 < PDI-802-	PDI-870-2 < PDI-853- 2 < PDI-854-2	PDI-864-2 PDI-852-2 PDI-864-2 < PDI-852- R PDI-854-2 2 < PDI-854-2	on Time	
	Cauge PDI-814-2 PDI-804-2 PDI-804-2 PDI-804-2 PDI-830-2 PDI-830-2 PDI-854-2	Completion T	;								
	ken on ra Leonivale	nt any alte		Awas	Alea	200 Area	100 Area	300 Area	400 Area		
Note	Gauge readings should be taken on rack #4 in the OC when possible local PDI equivalents may	be used if necessary. Document any alternate		Descrintion		Glovebox exhaust header APs	< laboratory APs < basement APs for areas 100, 200, 300	and 400		7.00	
	Gauge read	be used if no	r Dis used.	SRs			4.1.1.4				

Note <sup>2</sup> SRs 4 1.2 x only apply during mode 2 in accordance with LCO 3.1.2. Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc

Reviewed by: Date 3-1013 Time 1920

Comments:

Completed by:

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

							.									
	Note		Date:	63.11.13	w.	11	-13 3	3-13-13		3-14-13	3/18	12	316.13	-	3.17.13	(3
tuge re	Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.		Tue.		Wed.	T	Thu.	Fri.	:	Sat.	- :	Sun.	
enever)	whenever possible. Document if		Shift:	AM P	PM	AM PI	PM AM	M PM	AM	PM	AM	PM /	AM	PM ,	AM	PM
maie ri	alemale PDIS are used.		Initials:	BC D	7% Ce43	3000	0	9	9	3	Ja	840 BC 1980	8		8	Cope Cope
SRs	Description	Gauge Accep	ptance Criteria		D	)	SI	SURVEILLANCE (in. wc)	LLAN (in.		RESULTS	LTS		4		
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	<-1.0 in. wc <sup>1</sup>	2. 19.	10,2	1200	1, 19	87.27.09	1 0	PS.	1.04	5,	8	20.2	-7.03	10.7
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	<-1.0 in. wc <sup>1</sup>	681-	88.	P8,1	\$ -	18. K	05,1-1	1.58	60,	80,	36	QD.	1.88	8
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	86-1-	8	98/38	30.	8-197	86%-	78	8	8,	1.50	87.	1.98	8.
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	<-1.0 in. wc <sup>1</sup>		8.	191	T.	161-861	161-	1.97	P.	8:	28.	187	1.87	8:
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>	1 61:	م صر	4.Q	18	3	6].	3:-	3 S	8	2,	8.	9),	5,
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	:22	d 65.	Er no or	3	2.7		:23	52.O.	€.	13	3	32.	3
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc <sup>1</sup>	J. 52:	\S	try kn.o.	بر 233	3 3.25	16:0	あー	5°0'	<b>م</b> ح .	.25	S.	22	5
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc <sup>1</sup>	. 20 - J	3.	03	1	02:51	ار مراج	Oc.	0200		3	6)	2.	3,
	IFIT Facility AP	PDI-865-4 or PDI-865-5	<-0.05 in. wc	P1- 61:	6.	λ,	ر هر	61'- 61"	21.	6)	81.	8/	-191:	21.1	6)=	5.
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	.10	0,	01.0	01		ر 10	03.	0,0	9	0:		0),	0,1
4.1.1.3	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	701.	7	01/ 11.00	01:	=	,=.	=	10	11:	01:	17	0	9.
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	121 121.	ેં ડ	30% 15% a	31.	1.137	151;	-136	06/0	5	721		631.	8/1
																-

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					0	1	_								
:	Note		Date:	03.11.13		3-12-13	3-13-13		3-14-13	5/2	2/13	5.16.13	3	62-1743	43
Keadmg using FC	Readings should be taken using FCS screens		Weekday:	Mon.		Tue.	Wed.	<del></del>	Thu.	F	Fri.	Sat.	ij	S	Sun.
FMT#15	FMT#151,152,201LD		Shift:	AM P	PM AM	1 PM	AM	PM A	AM PM	I AM	PM	AM	PM	AM	PM
and 2021 and local p be used if	and 2021.12. Freid veritication and local plenum PDIs may be used if FCS is unavailable.		Initials:	8C B	80°5	8	9	9	8	13	E	á	980	8	080
SRs	Description	Readings	Acceptance Criteria		•		SURV Sat	EIL.I.	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	REST	ILTS (e)				
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 $\Delta P > .050$ or	At least one fan/plenum is in	(3)	Sat Sat	(gg)	(Saf)	Sat	Sat Sat	(3)	(sat	(Sat)	(Sag)	Sat	Saf
	plenum	FR-802 Icon red and PDT-832 $\Delta P > .050$		Unsat	sat Uns	at Unsat	Unsat U	nsat U1	ısat Unsa	t Unsat	Unsat	Unsat	Jusat	Jnsat	Unsat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 $\Delta P > .050$ or	At least one fan/plenum is in		Sat	(%)		Safe	Sat	(3)		Sat		(Sat	Sat
	plenum	FR-804 Icon red and PDT-835 $\Delta P > .050$	service	Unsat Unsat	sat Unsat	nt Unsat	Unsat	nsat Ur	sat Unsa	t Unsat	Unsat	Jusat	Jusat	Jnsat	Jnsat
4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta$ P >.050 or	At least one fan/plenum is in	Saft Saft	at) Sat	(sat)		Sat	Sap (Sat	(g)	Sat		Sat	(R)	Saf
	plenum	FR-806 Icon red and PDT-837 AP >.050	service	Unsat Unsat Unsat Unsat Unsat Unsat	sat Unsa	Unsat	Unsat U	ısat Ur	Unsat Unsa	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Jusat	Jusat	Jnsat	Jnsat
	400 area re- circulation fan/		At least one fan/plenum is in	Sat) (Sat	Sat	Sat	(F)	Saff	(Sat	(gg)	(ag)	(8)	Sat	(Sag)	( Sar
	plenum	FR-808 Icon red and PDT-839 AP > .050		Unsat Unsat Unsat Unsat Unsat Unsat Unsat	at Unsa	tUnsat	Unsat Ur	ısat Un	sat Unsa	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Jnsat	Jusat	Jusat	Jnsat
	Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$ or	At least one fan/plenum is in	Sat	Sat	Sat	(set)	Sat	Say (Jay)	Tag Tag	Sat	Sat	Sat	(Per	(§
	fan/ plenum	FR-812 Icon red and PDT-841 $\Delta P > .050$		Unsat	at Unsa	tUnsat	Unsat Ur	ısat Un	sat Unsa	Unsat	Unsat	Jusat	Insat L	Insat	Jnsat
											1		1		

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

Ĭ					ı	h=	<b>□</b> #	.∧+			0
	3-17-13	Sun.	PM	CHAO		Cusat	Sat	Sat	(Sat Unsat		1940
	w	3	AM	B		Unsat	Sat Sat Sat Unsat Unsat	Say (Say (Sat) Unsat Unsat Unsat	Chrsat 1		3670
	ä	Sat.	PM	04.60		Sa	Sat Unsat	Sat Unsat	Sat Unsat		3
	3.16.13	S	AM	380 82 Sec		Unsat	S and a		(Sa) Unsat		व्यक्त रहा
	1,3	Fri.	PM	SE SE	CTS	(Sat) Unsat	Sat Sat Unsat Unsat	(Sat Sat) Unsat Unsat	Sat Sat Unsat Unsat		1932
	3		AM	18	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	(Sat (Sat) (Sat (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) Unsat Unsat Unsat Unsat Unsat Unsat	Sat Unsat	Sat Unsat	Sat Unsat		1329 0844 1932
	4	Thu.	PM	b	CE R	(Sat) Unsat	Sat	Sat Umsat	Sat Offisat		1389
	3-14-13	Ţ	AM	V	LLAN Unsat.	(Sat Unsat	Sat	Sat Unsat	Sat Unsat		0130
	43	ed.	PM	8	RVEII Sat. / I	Sat Unsat	Sat	Sat Unsat	Sait		
	3-13-13	Wed.	AM	9	SUI	(Sat Unsat	Sat Unsat	(Sat) Unsat	Sat		0730
1	-13	ej.	PM	00/6		(Sat) (Sat) (Sat) Unsat Unsat Unsat	Say Saj Saf Unsat Unsat Unsat	Sat	Sat Sat Sat Unsat Unsat O <del>nsat</del>		176 552 Opho!
	3-11-13	Tue.	AM	B	<u>}</u>	Sat	Sat	Sat	Sat		SHOW
	ū	n.	PM	000	,	(Sat) Unsat	Sat	Sat			15.48
	03-11-13	Mon.	AM	8		Chisat	Sat Sat	Onsat	Sat) (Sak) Unsat Unsat		0724 19 48 DOG4S
	Date:	Weekday:	Shift:	Initials:	Acceptance Criteria	PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	400 Area PDI-864-2 PDI-864-2 PDI-852- PDI-854-2 PDI-854-2	on Time	
		ck #4 in onts may	rnate		Gauge	PDI-814-2 PDI-803-2 PDI-804-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-870-2 PDI-853-2 PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2	Completion Time	
	,	iken on ra I eouivale	nt any alte		Area	200 Area	100 Area	300 Area	400 Area		
	Note	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	be used if necessary. Document any alternate		Description	Glovebox exhaust header APs	< laboratory \( \Delta \)Ps < basement \( \Delta \)Ps for areas 100, 200, 300	and 400			
		Gauge read the OC when	be used if ne	TOTS maca.	SRs		4.1.1.4				

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2. Note: 1 Mode 2 acceptance criteria is < 0.00 in. wc

Date 13 Time (940 Reviewed by: 1900 Completed by:

Comments:

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

				,	>										
(	Note		Date:	3/18/2013	3 19	5 8	03.20.13		3-21-13	3/22/13	$\vdash$	3/23/13		7.744.7	_
Gauge re taken on	Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.	Tue.		Wed.		Thu.	Fri.	.:	Sat.		Sun.	٦,
whenever	whenever possible. Document if		Shift:	AM PM	AM	PM A	AM P	PM A	AM PM	AM	PM ,	AM	PM /	AM	PM
allerrale F.	anchiale l'Lus are useo.		Initials:	ma D	Be	6	25 25	000	9	E	P	7	4	८	4
SRs	Description	Gauge Acce	ptance Criteria	>		Ø	URVI	SILL.	SURVEILLANCE RESULTS (in. wc)	ÆSU	LTS				
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 m. wc¹	-2.04 203	13-203	-2.03-2-03	2,5	12.00	10,2	7.00	38%	99.77	787	20%	-2,03
4.1.1.1	100 area glovebox exhaust header $\Delta P$	PDI-820-1 or PDI-820-2	≤-1.0 in. wc¹	1,69	\$	-189-1-88	30%	32	20,	. 88	-189-1.89	1	4		1-1
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1-16.	-[48-1-	85-		10,7%	00	28-1-261-	L	661-857-		26.1-
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	<-1.0 in. wc¹	1.97 -1.97	S.	197-197	37 191	5	198,187	187	197-197	. 1	191-197	<del>                                     </del>	7.56
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>	97.0	IJ	9.	21.	_	5/	0).	200		61:	6)-	6/-
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc¹	C. 62,00	L. K.	-,22,-	122	1,27	3,	72:-	28	5.2.		-	रू
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc¹	12,00	33	-,32, -22		17.	27.	22.	-21		122	72.	7.
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc¹	12.00	1,20	730.2	8.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	17	07		2.		.8	4
	IFIT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	P1.0	7	1.191	6.	ı,	<u>o</u>	9	91191.	0_	2		9
1	North basement $\Delta P$	PDI-804-1 or PDI-804-2	< 0.00 in. wc	=	5	01:01:	0,1	0,0	0,		8	0.1		<del> </del>	1
4.1.1.3	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	11,-	9)	01		01:	2.	2	6	L		-	-1-
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	121-121- P11.0		717 172		1.13	6/1.	120	421- PII.		1.20 5.1	21:	361:

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

				1	10 2 00 1	1			-					
:	Note		Date:	5 18 2013	शिव्या		63 2013	3-21-13		3/25/	13 3	3/23/13	3-114-13	ζ,
Keadıngs using FC	Keadings should be taken using FCS screens		Weekday:	Mon.	Tue.		Wed.	Thu.	u.	Fri.	)	Sat.	Š	Sun.
FMT#15	FMT#151,152,201LD		Shift:	AM PM	AM P	PM AI	AM PM	AM	PM /	AM P	PM A	AM PM	AM	PM
and 2021 and local p be used if i	and 202LD. Field Vertication and local plenum PDIs may be used if FCS is unavailable.		Initials:	di di	RB A	3%	06/40	6	) Of6	00	4	9	S	4
SRs	Description	Readings	Acceptance Criteria			SI	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	LLAN Jnsat.	CE R (circl	ESUL' e one)	S			
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 AP >.050 or	At least one fan/plenum is in	(Sat) (Sat)	Say (Sa)	Sat.		Sat	<b>®</b>	(B)	(3) (3)	Sati	(Sg)	(Sa)
	plenum	FR-802 Icon red and PDT-832 ΔP >.050	service	Unsat	Unsat Un	satUns	at Unsat	Unsat L	Insat U	Insat Un	sat Uns	at Unsat	Unsat	Unsat
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 $\Delta P > .050$ or	At least one fan/plenum is in	Sat) Sat)	Sat Sat	at Sat	(T)	(Sat)	Sat	(Sa)		Sat	Saff	(8)
	plenum	FR-804 Icon red and PDT-835 $\Delta P > .050$	service	Unsat	Unsat Un	sat Uns	at Unsat	Unsat L	Insat	nsat Un	sat Uns	at Unsat	Unsat	Unsat
4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 AP >.050 or	At least one fan/plenum is in	(Sa)	Sat		Sat	Sat	(\$g)	<b>®</b>	(3)	(Sag	(\$)	8
	plenum	FR-806 Icon red and PDT-837 \( \D P > .050 \)		Unsat	Unsat Uns	sat Uns	at Unsat	Unsat U	nsat U	nsat Un	at Uns	at Unsat	Unsat	Unsat
	400 area re-	FR-807 Icon red and PDT-838 $\Delta P > .050$	$\sim$	Sat Sat	Sat Sat	(F)		Sat) (	Sat	(B)	(S)	r Sat	Sath	Sat
	circulation fan/	Or FR-808 Icon red and PDT-839 AP >.050	service	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Unsat Uns	at Uns	at Unsat	Unsatu	nsat U	nsat Uns	at Uns	Unsat Unsat Unsat Unsat Unsat Unsat	Unsat	Unsat
	Vault re-	FR-811 Icon red and PDT-840 AP > .050	At least one	(Say	Say Sal	Sa	Sat	Sat)	Sac	San San	Saf	Sab	Sat	Sal
	circulation fan/ plenum	or FR-812 Icon red and PDT-841 ΔP >.050	fan/plenum is in service	Unsat	) Jusat Uns	at Uns	at Unsat	UnsatU	nsat U	nsat Uns	at Uns	at Unsat	Unsat	Jusat
T			-	1		-	7	1	-		-		_	

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

Jauge read	Note Gauge readings should be taken on rack #4 in	ken on rac	ck #4 in		03/18/2013	2013	13 3 Hal (13		03-10 13		3-21-13	5	3/22	3/22/13 3/23/13	3/23		3-14-13	7
the OC where be used if no	the OC when possible, local PDI equivalents may be used if necessary. Document any alternate	I equivale nt any alte	nts may mate	Weekday: Shift:	Mon.	on. PM	Tue	PM	Wed.	PM	Thu	u. PM	E MA	PM	Sat.	PM M	Sun.	n. PM
Ts used.				Initials:	1/c	P	(K.B.	9	33	040	Ortest 6	(Aug)	V	9	(F)	9	8	4
SRs	Description	Area	Gauge	Acceptance Criteria	2			5	SUIS	AVEII	RVEILLANCE RÉSUI Sat. / Unsat. (circle one)	CE RI	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	TS 6		,		•
	Glovebox exhaust header APs	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803- 2 < PDI-804-2	(Sat) Unsat	(Say) (Say) (Sat) Unsat Unsat Unsat	Sat	(Sat) Unsat	(Sát) (Sát) Sát) (Sát) (Sát) (Sát) Unsat Unsat Unsat Unsat Unsat	Unsat	Sat Unsat	Sat	Unsat	Say (Sa) Unsat Unsat		Sat	Jusat (	Sat
4.1.1.4	< laboratory APs < basement APs for areas 100, 200, 300	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	Constant I	Saf (Sat) Unsat Unsat	(Sat (Sa) Unsat Unsat		(Sat) (Sat) Unisat Unisat	Cnsat C	(Sa) (Sa) Unsat Unsat	Jusat		Say Sa Unsat Unsat		Sat	Sat Unsat [	Sat
	and 400	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	Clisat		Sat	Sát Unsat	Sat	Sat Sat (Sat Insat Unsat Unsa	(Sa) Jusat (	S last	(Sat) (Sat) (Sat) (Sat) (Sat) Unsat Unsat Unsat Unsat Unsat	Sag Unsat L	Unsat [	Sat	Jusat C	(Sa) Unsat
		400 Area	400 Area PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852-	Sat Unsat	Sat		Silvant Control	Christat	Sat Unsat	Sab Unsat C	Sat	(Sat) (Sat) Unsat Unsat		Cad Sat Unsat Unsat		Sat	Chsat
	9		Completion Time								-		,	1				
					O648 [930] O5130	1930		1930 ong	871.0	रक्ष्यं ह	073W i	275	1446 0730 1442 074 1430 026 1930 079	86	3226	930		RS

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Date 3.24(3 Time 1930 Completed by:

Reviewed by:

Comments:

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

				1	0	`								
į	Note		Date:	3/15/13	3/26/1	2	2-52-13	03.28,(3	ń	3/29/13	13 8	150/13	N	11/13
Gauge re taken on	Gauge readings should be taken on rack #4 in the OC.		Weekday:	Mon.	, Tue.		Wed.	T	Thu.	Fri.	-	Sat.	01	Sun.
whenever	whenever possible. Document if		Shift:	AM PM	AM PM	MA	Md	AM	PM	AM P	PM A	AM PM	1 AM	I PM
affernate P	anemate PDIs are used.		Initials:	090 BS	13/	3	9	3)	9	080	3	13	12	d
SRs	Description	Gauge Acce	Gauge Acceptance Criteria				SURVEILLANCE RESULTS (in. wc)	LLAN (in.	(CE R wc)	ESUL	IS		9	
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc¹	11.07 -20H	1.04	7.05-2.A		2) 01-2.03	2,03	163×	102 801-	102-10	202	705
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	<-1.0 in. wc	189	190 18	061-180		-1.89-1.88	1,90	40/	981 05-1-	06-1-90	88.	7.
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	-1.98	667. 961	161-68	,	1.69-1.97	16,1	88:1	g.'\ 85.1-	25.1		-197
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	<-1.0 in. wc <sup>1</sup>	19.	791-197	261- 75			-104 /as	4.1-Cp		3.05 1.97	65%	85.
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc¹	17	11.0	115/1	1.	71:		1.	d1.0, 17:	7.1.	1,0	۲. ک
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	12.	0.00	2	05-	.5.		12.	1	2.000	020	12
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc¹	22.	Cx 0'	1 :23	02.5	100	06.5	3.		14.	13.0	.22
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2		02: Qi-	0. io.	22-22	2 - 30	18	000	3.		02: pt 0"	000	6,2
	IFIT Facility AP	PDI-865-4 or PDI-865-5	<-0.05 in. wc	P1: 12	61: 100	1-,19	-,[9	\$1:	E,	P1:		1.9		12
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	015 01	0)-0'	7	() i	01.	0 1	٥, ٥,	i i	0.	l .	5
4.1.1.3	South basement AP		< 0.00 in. wc	01:01	21= 11.0.	21. 2		Έ.	111	テク		1.	120	177
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	P11. (J.	121. 10.	O21:	)K1.	7116	5170617	5	HI10 021.	82). H	6/1/0	Ŕ

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

Note   Particle   Pa						(rage	(rage 2 of 3)				-					
Sample   S	;	Note		Date:	3/12/1		26/3			3.20.13	3	510	3/30	6/1	3/5	131/18
151,152,201LD   154,152,201LD   154,152,201   154,201   154,201   154,201   154,202   154,	Reading:	s should be taken		Weekday:	Mon.		Fue.	We	·i	Thu.		۲ri.	Sa	ند	Sun.	n.
The companies   The companie	FMT#15	1,152,201LD		Shift:	$\rightarrow$				-	<b></b>	_			-	AM	PM
Pascription   Readings   Criteria   Sat. / Unsat. (circle one)	and 2021 and local p be used if	J.D. Field Vertication blenum PDIs may FCS is unavailable.						δ	9					Ía ,	B	d
PDT-831 AP > 0.00   At least one   PDT-832 AP	SRs	Description	Readings	Acceptance Criteria				SURV Sat	EILI /Un	ANCE sat. (ci	RES rcle o	ULTS ne)			,	
PDT-822 Loor red and   Service   Unsat U		200 area re- circulation fan/	FR-801 Icon red and PDT-831 $\Delta P > .050$ or	At least one fan/plenum is in		<u> </u>							(gat		B	Sat
100 area re-   PDT-833 AP > .050		plenum	FR-802 Icon red and PDT-832 AP >.050		Unsat Un	sat Uns	at Unsat	Unsat U	nsat U	ısat Uns	at Unsa	tUnsat	Unsat	Jusat	Jusat	Unsat
plenumFR-804 Icon red and pDT-835 ΔP > 050serviceUnsat Unsat Uns		100 area re- circulation fan/	FR-803 Icon red and PDT-833 AP > .050 or	At least one fan/plenum is in	7					<del>                                     </del>	$-\sim$	_		(ga)	Sat	Sat
Safe Safe Safe Safe Safe Safe Safe Safe		plenum	FR-804 Icon red and PDT-835 ΔP >.050		Unsat Un	sat Ons	it Unsat	Unsat	nsat Ui	ısat Uns	at Unsa	Unsat	Unsat	Jusat	Unsat Unsat	Jnsat
FR-806 Icon red and Service Unsat Un	4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$	At least one fan/nlenum is in					<del>                                     </del>						Sat	(gg)
FR-807 Icon red and fan/         At least one fan/plenum is in FR-808 Icon red and PDT-839 ΔP >.050         At least one fan/plenum is in service           FR-811 Icon red and PDT-840 ΔP >.050         At least one fan/plenum is in fan/plenum is in fan/plenum is in service		plenum	FR-806 Icon red and PDT-837 $\Delta P > .050$		Unsat Un	sat Unsa	t Unsat		nsat Ur	ısat Uns	at Unsa	Unsat	Unsat	) Jnsat L	Jusat (	Jnsat
FR-808 for red and service PDT-839 \(\Delta P\) PDT-839 \(\Delta P\) PDT-840 \(\Delta P\) POT-840 \(\Delta P\) POT-841 \(\Delta P\) FR-812 \(\Delta P\) red and PDT-841 \(\Delta P\) POT-841 \(\Delta		400 area re-	FR-807 Icon red and PDT-838 $\Delta P > .050$	At least one			~~~		-		<del>-</del>	Sat	<del></del>	<del>                                     </del>	Sat	Sal
FR-811 Icon red and PDT-840 $\Delta P > .050$ At least one or fan/plenum is in FR-812 Icon red and Service PDT-841 $\Delta P > .050$		plenum	FR-808 Icon red and PDT-839 \( \D P > .050 \)		Unsat Uns	at Unsa	t Unsat	Unsat U	nsat Ur	sat Uns	at Unsai	Unsat	Unsat	Jusat U	Insat	Unsat
or fan/plenum is in FR-812 Icon red and service PDT-841 ΔP >.050		Vault re-		At least one				<del> </del>			1	Sat	1	Sat	(2)	(A)
		circulation fan/ plenum			Jusat Uns	at Unsa	t Unsat	Unsat U	nsat Ur	sat Uns	at Unsat	Unsat	Cusatto	Jusat U	nsat (	Insat

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#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

			0	Č.			( )											
(	Note			Date:	3/25/13	- 7	ne/8	26/33-27-13	3-27-		03.28·G	6	3/29/13		3/30	130/13	3/3	31/13
Gauge read	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	iken on ra I equivale	ick #4 in nuts may	Weekday:	Mon.	'n.	Tue	- ai	Wed	Ġ.	Thu.		Fri		Sat		Sun.	ï
be used if n	be used if necessary. Document any alternate	nt any alte	rmate	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
r Cris used.				Initials:	000	9	F	1993	5	4	28	d	09160	ac	1/2	à	13	4
SRs	Description	Area	Congo	Acceptance					SUR	VEII	SURVEILLANCE RESULTS	CE RI	SOL	LS				
		ra Lv	Cauge	Criteria				·	s (	at. / L	Sat. / Unsat. (circle one)	(circle	one)		1		(	
	Glovebox exhaust header APs	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803- 2 < PDI-804-2	Sat Unsat	San	Unsat C	Sat	Sat	Sat Unsat	(Say (Say Kar) (Sat (Say Unsat	Sat	Sab (	Sat	Sat	Unsat	Sat	Sat
4.1.1.4	< laboratory APs < basement APs for areas 100, 200, 300	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sad (Unsatt	Onsatt	Sat Unsat	Kat (Sat) (Sat) Unsat Unsat Unsat	(Sat) Jusat [	Sat Jusat	Sat	Sat	Sat	Sat	Sat
	and 400	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	Sat		Unsat	Sart Chisatt	Sat	Sat	(Sat) feat (Sat) (Sat) Unsat Unsat Unsat Unsat	Sab (		Sat	Unsatt	Unsat	Sat	
		400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852- 2 < PDI-854-2	Sat. Unsat I	Sat	The San	Sat	Sat	Sat (Sat Sat Unsat Unsat	) Insat [	Sat Jusat L	(Sat) Sat (Sat) Unsat Unsat Unsat		Unsat	Unsat	Jesu J	
			Complet	Completion Time														
					عاده	1930	1930 0775 1928 0655	200		630	1930 000 1930 000 0732 1942 0717 1920	930	2134	भ्र	77	342 C	LILL	AZE

Note: <sup>1</sup>Mode 2 acceptance criteria is < 0.00 in. wc Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Date \$ 91.13 Time 1976

On-duty Supervisor Reviewed by:

Comments:

Completed by:

# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (>-0.1; <0.1).

		Date:					3-1-(3	08.02.13 3/13	2/3/12
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:					ger	羽	O. O. O.
	Description / Gauge	Acceptance Criteria		32	SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)		
Ş	Flammable Gas Channel Check								
X X	DET-305-3 (LCD Reading)	NA					0.3	0.3	6.3
4.4.1.1	CP-305-H (LED Reading)			27/			6.3	Ó	6,3
	(DET-305-3) - (CP-305H)	Record Calculated Value					0.0	o O	0.0
	(LCD Reading) (LED Reading)	> -0.1; <+0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat)/Unsat. & Unsat. Sat.) Unsat.	Sat. V Unsat.	Sat. y Unsat.
		Completion Time:					0748	0840	PHBG

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Pag	(Page 2 of 4)					
			Date:		·			3-1-13	03:02:13	3/3/13
			Weekday:	Mon	Tue	Wed	Thu.	Fri.	Sat.	Sun.
			Initials:					35	80	CARO
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	ESULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$					30	ś	9,0
	(HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$					54.	.04	154.
,	South Corridor supply (HVP-	<sup>1</sup> PDI-895-1	≤ 2.0 & > 0' in. wc						0	01,
4.1.3.4	810) AP	PDI-895-2	<2.0 & > 0' in. wc	, (				80	8	20
		<sup>1</sup> PDI-817-1	≤2.0 & > 0¹ in. wc					80	37	7.56
4.1.3.4	300 area glovebox	PDI-817-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		1			30	.30	7 07
	exnaust inter plenum (FF854) AP	PDI-817-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		Š			مي	.30	,30
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$					.29	68.	30
	300 area special	PDI-81 9-1	≤2.0 & > 0¹ in. wc					0)	우.	5.
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	≤2.0 & > 0¹ in. wc					04.	우	14.
	(FF858) AP	PDI-819-4	<2.0 & > 01 in. wc			C		35.	*	35
		<sup>1</sup> PDI-818-1	≤2.0 & > 0¹ in. wc					SIBY	STB	STIBY
4.1.3.4	300 area glovebox	PDI-818-2	≤2.0 & > 0¹ in. wc				7 %	51.07	STBY	2394
	(FF855) AP	PDI-818-4	≤2.0 & > 0¹ in. wc				>/	5787	STBY	STREY
		PDI-818-5	≤2.0 & > 0¹ in. wc					81131	STEV	STIBY
	300 area special recovery glovebox	PDI-821-1	≤2.0 & > 0¹ in. wc					57 134	STEV	इ.स.
1.001.1	exhaust filter plenum	PDI-821-3	≤2.0 & > 0¹ in. wc					57131	/æls	STBY
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$		·			4787	/aus	STBY

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 3 of 4)					
			Date:					3-1-13	18 12.13	3/3/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					na	88	DAG
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-822-I	$\leq 2.0 \ \& > 0^1 \ \text{in. wc}$					57 87	d	2
4.1.3.4	400 area glovebox	PDI-822-2	≤2.0 & > 01 in. wc					. 5104	NEW S	STA
	exhaust filter plenum (FF856) AP	PDI-822-4	<2.0 &>01 in. wc					5181	STRV	2000
		PDI-822-5	$\leq 2.0 \& > 0^{1} \text{ in we}$					1815	STEV	5780
		¹PDI-823-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	S				78.	.A3	500
4.1.3.4	400 area glovebox	PDI-823-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	2				42	.42	24.
	(FF857) AP	PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc		6			14.5	84.	54.
		PDI-823-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$					05.	Ś	575
	South Basement exhaust	<sup>1</sup> PDI-830-1	≤2.0 & > 0¹ in. wc					53	58	, , , , , , , , , , , , , , , , , , ,
4.1.3.4	filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$					.35	.35	.32
		PDI-830-3	≤2.0 & > 0 <sup>1</sup> in. wc					30	.30	.30
	300 area re-circulation	¹PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$					58	68'	88,
	filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0 \& > 0^4 \text{ in. wc}$					.52	.52	.57
4.1.1.7		PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$					.52	.52	25.
V <del></del>	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$					29.	.62	19.
	filter plenum (HVP-806) AP	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$					05.	os.	50
		PDI-837-3	≤2.0 & > 0 <sup>1</sup> in. wc					.45	4.	.48

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				(	70.					
			Date:					3-1-13	03 02.13	3/3/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					ga	8	Orce
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SSULTS		
	400 area re-circulation	'PDI-838-1	$\leq 2.0 \text{ &> 0}^1 \text{ in. wc}$					28	28	37,
	filter plenum	PDI-838-2	≤2.0 & > 0¹ in. wc					7	(p.	5
4.1.1.7	W ( 10 - 10 )	PDI-838-3	≤2.0 & ≥ 0' in wc					38	38	300
	400 area re-circulation	1-688-IQ4	<2.0 & > 0' in. wc	. (				. 27	12	۲2,
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	3				ah'	2	5
	117 (000-1411)	PDI-839-3	<2.0 & > 0 in. wc	2				۲۰ (	17:	子、
	South Bleed off filter	'PDI-810-1	≤2.0 & > 0¹ in. wc		7			17	ï	
4.1.3.4	plenum (FF-822A) AP	PDI-810-2	<2.0 & > 0 in. wc					0.5	S.	50
		PDI-810-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$					05'	bh:	المق
	South Bleed off filter	1 - 118- IQd <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		)			710	46	7.5
4.1.3.4	plenum	PDI -811 -2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc					240	440	39
		PDI -811 -3	<2.0 & > 01 in. wc					110	97	H,
			Completion Time					6819	7380	B 25,
OC	OC Operator Review and Page Count Complete (	age Count Comp	lete (initials)					000 BC	ONC ON SA	940

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Date 3/3/13 Time 0825 1

Reviewed by: Dansel Charles Da

On-duty Supervisor

Date: 3-4-15 Time: 10 46

Comments

Completed by:

# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of ( $\geq$ -0.1;  $\leq$ 0.1). The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage

		Date:	3-4-13	3-5-13 3/1/0	3/6/10	3/7/13	3-6-13 3/9//3	3/9/13	3-10-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
	13.	Initials:	m	MAH	44	TIZ	4	B	4
	Description / Gauge	Acceptance Criteria		<b>3</b> 7	SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)		
SR	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Ϋ́Z	0.3	6.3	Ö.	6.3	3. ئ	0,3	6.3
4.4.1.1	CP-305-H (LED Reading)		0.3	6,4	0.3	5.3	6	0.3	0.3
	(DET-305-3) - (CP-305H)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	(Sat) / Unsat.	Sat / Unsat. (Sat. / Unsat.	San / Unsat.	(Sap. / Unsat.	Sat)/ Unsat.	Say/ Unsat.	Saty / Unsat.
		Completion Time:	0000	0827	4180	0735 0155	2510	5010	0830

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 2 of 4)					
			Date:	3-4-13	3-5-13	3/6/13	3/1/13	3-6-13	3/9/13	3-10-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	W	巷	ā	to	*	4	9
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	¹PDI-894-1	$\leq 2.0 & > 0^1 \text{ in. wc}$	Lo.	.04	.07	.01	70.	90.	90.
	(HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	S1~.	46	.45	46	SI	Jh.	245
	South Corridor supply (HVP-	1-895-I	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	60.	01-	01.	01.	01.	60	60
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	26.	Lb.	76.	76.	76.	62	79.
		1-718-IOd,	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	11.	82.	72.	. 28	۲2.	.23	. 17
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.30	-30	30	.30	.30	05.	.30
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.31	18.	3		.31	3	.31
		PDI-817-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.30	30	.30	30	.30	2	36
	300 area special	PDI-81 9-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	OF.	子	] <del>]</del> ,	一ナ.	- - - -	3	04.
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.H.	14.	14.	.4.	7.	lh.	14.
	(FF858) AP	PDI-819-4	\$2.0 & > 0 in. wc	.35	.35	35	.35	. 35	35	35
		<sup>1</sup> PDI-818-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	5787	Stbuy	St.bu	Ston	STE	STBY	STBY
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	डाहा	Stby		Ath un	STBY	ST BY	57.84
	exnaust niter pienum (FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	राधर	Stery		St. Bur	STBY	STBo	5TB4
1		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STEY	Stby		St-62	STEX	STAU	72164
	300 area special recovery glovebox	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STEV			Stbn	STBY	78773	57.134
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1$ in. wc	STBY		Stby	SAby	STEY	57-04	STBY
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1$ in. wc	SIBY	Star	Stby	Story	STBY	27.84	57B4

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

				(rage	(rage 3 01 4)					
			Date:	3-4-13	3-5-13	3/6/13	3/1/13	3-8-13	3/9/13	3-10-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
			Initials:	44	Ā	ta	A	3	Z	4
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-822-1	≤2.0 & > 0¹ in. wc	5787	Stan	Stbur	412	STRY	STRV	57.87
4.1.3.4	400 area glovebox	PDI-822-2	≤2.0 & > 0¹ in. wc	आक्र		Sthy	Stlar	S767	er.av	57.67
	(FF856) AP	PDI-822-4	≤2.0 & > 0 in. wc	5187		SHby	John Charles	STIBY	ST134	5687
		PDI-822-5	≤2.0 & > 0¹ in we	SIBY	Stby	STOW	SHEN	STIBY	\$707	57.84
		¹PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	er.	.63	.85	-84 -	69.	17-6	48.
4.1.3.4	400 area glovebox exhaust filter plenum	PDI-823-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	क्ष	<b>†</b>	.45	.42	57.	42	c.h.
	(FF857) AP	PDI-823-4	<2.0 & > 0 <sup>1</sup> in. wc	Lh.	.49	49	مه	7.	87	Lh.
		PDI-823-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	50	. 50	. 50	50	50	65,
	South Basement exhaust	¹PDI-830-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.57	.58	. 58	.57	.57	.\$7	15.
4.C.1.4	filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0¹ in. wc	.35	.35	35	.36	75.	.36	.36
		PDI-830-3	<2.0 & > 01 in. wc	.30	.30	.30	18.	.30	.3/	.30
	300 area re-circulation	<sup>1</sup> PDI-836-1	≤2.0 & > 0 <sup>1</sup> in. wc	200	<del>8</del> 8 -	.68	88	. 68	Qu Che	.86
	filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0¹ in. wc	85.	. 55	-56	.56	ñ. ô	**	.55,
4.1.1.7		PDI-836-3	<2.0 & > 01 in. wc	52.	. 52	. 52	.52	25.	22	.52
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	9,	29.	.62	.62	19.	19.	19'
	filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0 <sup>1</sup> in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	5.	4.	44	.46	.46	15	155.

Surveillance Rounds

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## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				(1 agr	1 ago 7 01 7)					
			Date:	3-4-13	3-5-13	3/6/13	3/7/13	3-8-13	3/9/3	3-10-13
			Weekday:	Mon.	Tue.	Wed	Thu	Fri,	Sat.	Sun.
			Initials:	N.M.	ZAZ	ta	故	3	an	9
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	'PDI-838-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	82.	92.	.27	82.	.28	32	38
	filter plenum	PDI-838-2	<22.0 & > 01 in. wc	2H:	7	14.	구, -	7	17.	14.
4.1.1.7		PDI-838-3	$\leq 2.0 \& > 0^{1} \text{ in wc}$	80,	.38	.38	. 30 00	.38	<b>6</b> 6.	.38
	400 area re-circulation	1-688-IQI	≤2.0 & > 01 in. wc	38	82.	82		. 29	. 200	30.
	filter plenum	PDI-839-2	≤2.0 & > 0¹ in. wc	25	ナ・	.F.	.41	1	15	04.
	177 (000-1411)	PDI-839-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	17.	-t-	14.	チ	7	13	64.
	South Bleed off filter	'PDI-810-1	<2.0 & > 0 <sup>1</sup> in. wc	11.	Lie	1.17	91.	-	2	71.
4.1.3.4	plenum	PDI-810-2	≤2.0 & > 0 in. wc	05.	95	.50	.50	.50	50	65.
		PDI-810-3	≤2.0 & > 0¹ in. wc	49	05	-50	pt.	67.	67	.50
	South Bleed off filter	'PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Off	tto	ACT.	0F7	OFF	0 F.C	OFF
4.1.3.4	plenum	PDI -811 -2	≤2.0 & > 0¹ in. wc	OFF	गुरु	JJa	77.0	14 O	Ų.	2740
	IV-077D) W	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	7:0	र्यु	jjo	五名		23.0	CFF
			Completion Time	0855	0843	0839	0800		8/50	0160
OC	OC Operator Review and Page Count Complete (initials)	age Count Comp	lete (initials)	D 00	6 9	5 College	26 0 to	1	8/	18
t of	9		"			1				

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 apsuted in LCO 3.1.3.

Reviewed by: Dove Inches Completed by: AVEVINI ONLY 3-10-13 Time C910

Comments

Date: 3-11-13 Time: 6722

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

Surveillance Rounds

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of ( $\geq$ -0.1;  $\leq$ 0.1). The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage

		Date:	2/11/13	2/11/12 3/13/13	2/13/13	2 lluliz	2/18/13	Cl/6/1/20	2/12/12
		Weekday:		Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	dn	R	gn	Ar of	dn	, k	1
	Description / Gauge	Acceptance Criteria			SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage		J
	Flammable Gas Channel Check								
SR	DET-305-3 (LCD Reading)	NA	0.3	5.0	0.3	6.0	0.3	6.0	0.3
4.4.1.1	CP-305-H (LED Reading)		4	2			7	5	~
	(DET-305-3) – (CP-305H)	Record Calculated					600	2	3.
	(LCD Reading) (LED Reading)		O.O	(a) / Unsat.	Say / Unsat.	Say / Unsat. (Say / Unsat. (Say / Unsat.	Say / Unsat.	(at)/ Unsat.	Sat/Unsat.
		Completion Time:	0807	0820	0809	0907	0211	8180	0756

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

				,0,1	(1 apa = 01 1)					
			Date:	3/11/13	2/11/13	3/13/12	3/14/13	3/15/13	63.16.13	3/11/3
			Weekday:	Mon.	Tue.	Wed.	Thu	Fri.	Sat.	Sun.
			Initials:	4	dr-	4	Q.	7.0	67.	B
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SSULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	90.	900	90.	70	70	700.	8
	(HVP-841) AP	PDI-894-2	≤20 & >01 in. wc	34.	777	77	77	70	10	3//2
	South Corridor	<sup>1</sup> PDI-895-1	≤ 2.0 & > 0' in. wc	60	01	4	97.	0 %	9 9	\$ 2
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	95	7.6	97	G	97	86	97
		1-718-IDd <sub>1</sub>	<2.0 & > 01 in. wc	727	7.	a	.27	cr.	12	.27
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		3.3	15.	3/	12	.30	20
	exhaust filter plenum (FF854) AP	PDI-817-4	<2.0 & > 0 in. wc	15.	30	31	/2	F	.31	3/
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	20	98	30	20	20	32	Sci
•	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<i>(h</i>	17	/ 17	lh.	17	7	7
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	14.	14.	14	(4)	/5.	5	14.
	(FF858) AP	PDI-819-4	<2.0 & > 0¹ in. wc	.35	.34	35	35	.35	Ŕ	,32
	•	<sup>1</sup> PDI-818-1	<2.0 & > 0¹ in. wc	57B V	2,534	\$7.03	5787	87134	STEV	187.8
4.1.3.4	300 area glovebox	PDI-818-2	<2.0 & > 01 in. wc	STBY	57.87	\$7.87	74213	STBU	<b>3</b>	181
	(FF855) AP	PDI-818-4	<2.0 & > 0 in wc	57.37	STBY	STBY	\$7.00	\$787	<u> </u>	27.84
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	57.87	STBY	3737	2572	STBY	4845
1134	300 area special recovery glovebox	PDI-821-1	<2.0 & > 01 in. wc	Sray	57.8 v	ST.BV	STby	57.34	SIBY	484
	exhaust filter plenum	PDI-821-3	$\leq 2.0 & > 0^1 \text{ in wc}$	Sray	4525	STB9	1872	STOY	AIS	1845
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1$ in wc	\$7.87	57.B Y	57.37	Sr.89	\$57.0	ट्यक्र	5734

Page 28 of 38 ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)
(Page 3 of 4) TA55-STP-004, R15.1

			201	~9m r)	(1 age 2 01 +)				2000000	Control of the contro
			Date:	3/11/13	3/12/03	3/13/13	3 1415	3/15/13	03.15.13	3/12/12
24.7			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	and	an	A S	dr.	ક	80	k
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		\$
		<sup>1</sup> PDI-822-1	$\leq 2.0 R > 0^1 \text{ in. wc}$	STBY	57.6 7	SFBV	VETZ	STBY	STRY	XIII A
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	\$7134	37.B.y	8707	37.87	STBV	A STEA	5734
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	STBY	87 BY	67.13	CTBV	STRV	Shu
		PDI-822-5	$\leq 2.0 \& > 0^{1} \text{ in wc}$	51.67	57.87	STBV	V872	2000	STBY	STRU
		<sup>1</sup> PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	58	h60	28.	.85	26	38:	.83
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	24.	ħh.	44	HH.	nh.	hh:	12/2
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	49	47	49	64.	<b>3</b>	97.	80
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	05.	05:	.50	.50	50	Q	55'
	South Basement exhaust	<sup>1</sup> PDI-830-1	≤2.0 & > 0¹ in. wc	26	95.	.57	بى	بخ	151	100
4.1.3.4	filter plenum	PDI-830-2	$\leq 2.0 \& > 0^{-1} \text{ in. wc}$	.35	.35	36	36	.36	.35	,35
		PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	.31	131	.30	.31	.30	O.T.
	300 area re-circulation	¹PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	63.	9	96.	30	68.	85	63,
	filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	56	56	.56	155	55	.56	56
4.1.1.7		PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	52	.52	.52	52	.52	.52	, 5/2,
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	79	63	9	.63	63	63	.63
	filter plenum (HVP-806) AP	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	.50	50	50	.50	S.	.56
	(22)	PDI-837-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.47	5.	47	4	84.	8h.	747

Surveillance Rounds

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## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				0	(; ±2;					
			Date:	3/11/13	3/11/13	3/13/8	3/14/13	3/15/13	03-(6-13	3/13/13
			Weekday:	Mon	Tue	Wed	Thu.	Fri.	Sat.	Sun.
			Initials:	A	Charles and the same of the sa	And The	9	9	8	A
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	1-838-I	$\leq 2.0 \& > 0^1 \text{ in. wc}$	20	.28	.29	.78	90	328	. 29
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^4$ in. wc	lh	04.	IH.	14	Ŧ	7	15.
4.1.1.7	( 11 V I -00 / ) (M	PDI-838-3	≤2.0 & > 0 tin wc	.39	.39	39	39	.39	8	36
	400 area re-circulation	1-688-IQ4,	<2.0 & > 01 in. wc	CT	. 18	77.	.28	71.	12.	, 29
	filter plenum	PDI-839-2	<2.0 & > 0 <sup>4</sup> in. wc	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	94.	7.	ih	lh.	I.F.	15
	17 ( 11 A I -000) TH	PDI-839-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	274	oh.	141	ĵ.	ih.	1	14.
9	South Bleed off filter	1-018-IQ41	$\leq 2.0 \& > 0^4 \text{ in. wc}$	4-3/10	.16.	П.	9/"	91.	<u>•</u>	15/
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^{1}$ in. wc	.50	50	.50	.50	05.	,50	64
		PDI-810-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	64.	677	64.	64	64.	bh.	37
	South Bleed off filter	¹PDI -811 - 1	<2.0 & > 01 in. wc	055	off	0.54	OFF	0.25	±10	240
4.1.3.4	plenum	PDI -811 -2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	) <del>}</del>	off.	Off	250	710	#	OFF
	A (44.04.0)	PDI -811 -3	≤2.0 & > 0¹ in. wc	off	) <del>''</del>	250	\$40		如本	045
			Completion Time	0915	0857	7580	8460	K	ACA .	2180
20	OC Operator Review and Page Count Complete (initials)	age Count Comp		St As	n n	1 KB		N	B	18

'Non TSR requirement:

Infing mode 1 as stated in LCO 3.11. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3. Note: SR 4.1.1.7 applied

Reviewed by: Dans 17/13 Time 0815

On-tuty Supervisor

Comments

Completed by;

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1). The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage

		Date:	2/0/12	2/2/2		,	2/20/12		
				211911)	3-60-13	3.21-13 3/2211)	2/27/17	5-23-13	3-24-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	1	B	Y.M.	t A	A.	74	79
	Description / Gauge	Acceptance Criteria		3	SURVEILLAN	SURVEILLANCE RESULTS (percentage)	(percentage)		
	Flammable Gas Channel								
SR	DET-305-3 (LCD Reading)	NA	0.3	0.3	0.3	6,3	0.3		. c
4.4.1.1	CP-305-H (LED			2					
	Neaumg)		0.3	0.3	0.3	0,3	6.0	0.3	0.3
	(DET-305-3) – (CP-305H)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0	0
	(LCD Reading) (LED Reading)	> <b>-</b> 0.1; <+0.1	Say/Unsat.	Say / Unsat. Say / Unsat.	Say / Unsat.	nsat.	8ad/Unsat.	Say / Unsat. Sat / Unsat. Sat / Unsat.	Sat Y Unsat.
		Completion Time:	4(80	0960	८०८०	080	0200	2570	0710

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 2 of 4)

				(rage	(rage 2 01 4)					
			Date:	3/18/13	3/19/15	3-20-13	3-21-13	3/22/13	3-23-13	5-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri,	Sat.	Sun
			Initials:	Dr	25	NA	74	an	74	८
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	70.	70.	10.	10.	70-	70.	70.
	supply filter plenum (HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	70	5	Th.	12.	87	83	84
	South Corridor	<sup>1</sup> PDI-895-1	$\leq 2.0 \ \& > 0^{1} \ \text{in. wc}$	o).	91.	. 40	1)	10	11	
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	g.	66'	99.	66.	66	65'	8.
		1-718-IQq¹	≤2.0 & > 0¹ in. wc	CZ:	.27	12.	72.		. 27	127
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	3	.31	.3.	- 3/	.30	•31	18,
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	12.	30	(8.	.3/	.3/	.3/	7
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	30	.30	30	.30	30	(5)
	300 area special	PDI-819-1	$<2.0 \& > 0^1 \text{ in. wc}$	14.	27	14.4	/5.	3	14"	ן ק
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-819-3	<2.0 & > 01 in. wc	14.	07	141	14.	70.	/ 4 .	117
	(FF858) <b>AP</b>	PDI-819-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.35	35	.35	25,	34	1 33	,33
		¹PDI-818-1	$<2.0 \& > 0^1 \text{ in. wc}$	STBV	57.84	57.84		STIBY		218%
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5781	STBY		\$7.78		STRIC
	exhaust filter plenum (FF855) AP	PDI-818-4	<2.0 & > 01 in. wc	57.53 V	2134	STØY	5781	78172		STAN
-		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBV	5787	STBY	5 + 18 4	STBV		57.65/
	300 area special	PDI-821-1	<20.0 & > 01 in. wc	S7 BY	57 187	ड्य <b>ड</b> Y	STBV	80.75		1.045
4.1.3.4	exhaust filter	PDI-821-3	<2.0 & > 01 in wc	STOV	212	5187	57.84	STON		STBY
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBV	47.34	STBY	STB1	57.84		STBY

Page 28 of 38 ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)
(Page 3 of 4) Surveillance Rounds TA55-STP-004, R15.1

			Date:	21/2/13	2/10/13	× 20-12	7 411.19	2/2/2		276.12
		٠	Weekday:	Mon.	Tue.	Wed.	Thu.		Sat.	
		,	Initials:	an	726	3	4	1	6	3
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	57.84	STRV	2 1	erau	9	744
4.1.3.4	400 area glovebox	PDI-822-2	≥2.0 & > 0¹ in. wc	STBV	57134	SCAY	STAV	era v	787	210-
	exhaust filter plenum (FF856) AP	PDI-822-4	≤2.0 & > 0 <sup>r</sup> in. wc	STBV	5134	STKY	24 10 2	6789	7070	5763
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in wc}$	STBY	18115	STAY	CYRV	84.1311		C + A & /
		<sup>1</sup> PDI-823-1	≤2.0 & > 0¹ in. wc	S	አይ.	H9.	× ×	76	403	47
4.1.3.4	400 area glovebox	PDI-823-2	≤2.0 & > 0¹ in. wc	42	چ۲.	54.	27	5	50.	70
	(FF857) AP	PDI-823-4	<2.0 & > 0 in. wc	64.	br!	Lh.	. 47	95	87.	4%
		PDI-823—5	<2.0 & > 0 <sup>1</sup> in. wc	05:	0.5	0%.	. 60	617	0 17	150
-	South Basement exhaust	<sup>1</sup> PD <b>I-</b> 830-1	<2.0 & > 01 in. wc	.57	2.5	.59	.58	63	. 50	٤ ١
4.1.3.4	filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	35.	. 35	.35	r.	76	3.5	> 5 5 '
		PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.3/	18,	<b>C</b> s:	.3/	31	3,1	,3!
	300 area re-circulation	<sup>1</sup> PDI-836-1	≤2.0 & > 0¹ in. wc	64	. 39	- 89	58.	68	000	6×.
	filter plenum (HVP-805) AP	PDI-836-2	\$2.0 & > 01 in. wc	55,	. 55	.s7	56	ž	75 75	
4.1.1.7		PDI-836-3	≤2.0 & > 0¹ in. wc	5.5	. 52	£è.	2	.\$2	5.3	25.
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	9,5	3،	83	.63	.77	. 62	77.
	filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0¹ in. wc	05	.50	0%.	50	250	.50	05.
		PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	.62	34.	14.	81,	7,5	87.	49

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				-9n -)	(1 70 1 97 1)					
			Date:	3/18/13	3-19-13	3-10-13	3-21-13	3/22/0	3-23-13	3-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	the	27.5%	*	2.4	1	10	3
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	1-828-IQd,	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.29	9.5.	.29	. 29	.79	. 29	62'
_	filter plenum	PDI-838-2	<2.0 & > 0 in. wc	4-3/010	5.	74.	14.	7	/ //	17.
4.1.1.7	157 ( 100- 1 A 11 )	PDI-838-3	≤2.0 & > 0 \ in, wc	15.	95.	85.	, 00	6.5	, 78	,38
	400 area re-circulation	1-628-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	82.	28	62.	, 29	-29	, 29	128
	filter plenum	PDI-839-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	ah.	I.h.	71.	.43	. 42	(7)	,472
	1000-1411)	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	t's	14.	27	15.	2	7.7	74.
	South Bleed off filter	1-018-IQd1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	21.	2.15	11.	ru ru	91.	. 16	91.
4.1.3.4	plenum (FF.822A) AP	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc	64	44	5 ¥.	64.	64.	67	\$17,
		PDI-810-3	<2.0 & > 01 in. wc	94	dir	87.	8 7 '	607	87	87.
	South Bleed off filter	'PDI -811 - 1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Jyo	940	340	0 F F	0.13	OFF	OFF
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5.30	230	OFF	OFF	750	A. F. F.	095
	(FF-024B) (M	PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	J. J	066	tt	OFF	Ħ	2 6 7	OFF
			Completion Time	0850	2,80	J851		/300		2 80
ÖC (	OC Operator Review and Page Count Complete (initials)	age Count Comp	lete (initials)	94	of Ro	88	\	3	)	000
				П		1	7		⊣.	

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Reviewed by: Date 3-24-13 Time 0797

Comments

Completed by

# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:	3/25/13	3/26/10	अध्य	3.28-13 3/29/13	3/29/13	1/20//3	2/21/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	Jun-	gr	du	79	1	R	A
	Description / Gauge	Acceptance Criteria		3	SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)	J	ر
;	Flammable Gas Channel Check								
SR	DET-305-3 (LCD Reading)	NA	0.3	0.3	0.3	0.3	6.3	0.3	0,3
4.4.1.1	CP-305-H (LED Reading)		2,3		Ľ,	0.3	M. 9	50	, v,
	(DET-305-3) – (CP-305H)	Record Calculated Value	0.0	0.0	2.0	0.0	0.0	2.0	9.0
	(LCD Reading) (LED Reading)	≥ <b>-</b> 0.1; ≤+0.1	Sal / Unsat.	Sally Unsat. (Sally / Unsat.	Sa. / Unsat.	(Sat) Unsat. (Sat) / Unsat. (Sat) / Unsat. (Sat) / Unsat.	Sat / Unsat.	(Sat) / Unsat.	Sat / Unsat.
		Completion Time:	7570	080	6230	0812	9010	0606 MY	21-10

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

7.5				(1 ubv	(I ago 2 01 +)					
			Date:	3/23/13	3/18/13	2/23/13	3.28-13	3/22/13	3/30/13	2/1/2
			Weekday:	Mon.	Tue.	Wed.	Thu	Fri.	Sat.	Sun.
			Initials:	4	Pr-	an	74	4	2	K
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	¹-894-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	10.	80.	6	70.	.07	207	80,
	supply filter plenum (HVP-841) AP	PDI-894-2	<20 & > 0 in. wc	ċ	Lh	\$11	87.	57.	87	32
	South Corridor	<sup>1</sup> PDI-895-1	$\leq 2.0 \ \& > 0^1 \text{ in wc}$	""	01	01.	01.	.10	01.	1,
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	65	<i>⇔</i> 6.	96.	06%	ē.	16.	14.
		¹-718-IQd¹	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.27	72.	.27	12.	72.	. 27
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	2/2	30	.30	.30	.30	.5.	32
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	31	3)	•3/	, 3,		31	,57
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	.29	23	. 29	23.	.29	6%
	300 area special	PDI-81 9-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	1/5	1h	יה:	141	(H.	٠4،	1/7
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.41	, u <sub>ll</sub>	40	14.	17.	14.	, y d
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.36	,3%	C CC	, 33	<i>F</i> E:	34	74
		<sup>1</sup> PDI-818-1	$\leq 2.0 \& > 0^4 \text{ in. wc}$	STBY	STBY	STBV	STRY	इराधेर	S773Y	34734
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	SrBy	2584	STBY	STAL	STEY	57/33	STRY
	exnaust niter pienum (FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	ST.BY	5737	57.04	5784	STIEY	\$773	5734
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.0%	STBY	STBY	5784	STOY	57.By	8134
	300 area special recovery glovebox	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	7872	57.64	STRY	STAY	57.89	5/34
4.1.3.4	exhaust filter plenum	PDI-821-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	57.84	X57.3X	\$7739	57.6.7	STEY	57.67	180
	(FF859) AP	PDI-821-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	57.6%	S78Y	57.13%	5184	STEY	57.87	STAN
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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)
(Page 3 of 4)

				(1 agr	(1 age 3 01 4)					
			Date:	3/25/13	3/26/11	3/11/13	3-28-13	3/19/0	3/30/13	3/21/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fi.	Sat.	Sun.
			Initials:	gn	gr	\$	7 &	Trans	Ju-	A
SRs	Description	Gauge	Acceptance Criteria	,		SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		١
		<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5139	57.BY	<i>አ</i> 9.	.65	3	49	ies
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0'$ in. wc	የታይሃ	\$7.87	5.0	.56	05.	.50	520
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	\$1.67	STDY	۲۶.	16.	2H.	<i>ה</i> י	Op.
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57134	STBY	64.	65 .	bИ.	6 M	48
		¹PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	53	h <b>g.</b>	5107	STBY	%1%	57.BY	57.34
4.1.3.4	400 area glovebox	PDI-823-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	J. 14.	ንተ.	4013	4815	57167	4072	5/184
	(FF857) AP	PDI-823-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	64	48	isils	STRY	STBY	rei.18	48/18
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	50	200	STBY	5187	STBY	SKY.
,	South Basement exhaust	<sup>1</sup> PDI-830-1	$\leq$ 2 0 & > 0 <sup>1</sup> in. wc	7٤.	35	. 59	,60	.58	.54	.60
4.1.3.4	filter plenum	PDI-830-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.36	37	135	.35	.35	.35	12)
		PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	15.	30	31	180	.31	.37	15'
	300 area re-circulation	¹-928-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	64.	54.	.34	89	.89	60	.89
	filter plenum (HVP-805) AP	PDI-836-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	95	,56	.55	55.	.55	\$5.	55,
4.1.1.7		PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.52	.5/	٠5٠	. 5.1	.52	15.	,51
	300 area re-circulation	¹PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	79	.62	. 61	.61	9.	.6/	101
	filter plenum	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in, wc}$	.50	050	0 6	,50	08.	20	,50
	15 (000-141)	PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	ch.	. 42	48	.48	8F.	Ch.	ch'

Surveillance Rounds

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				0 - )	(; ==					
			Date:	3/25/10	3/26/13	3/17/13	3-28-13	3/29/13	3/30/13	3/21/12
			Weekday:	Mon.	Tue.	Wed.	Thu	Fri.	Sat.	Sun.
			Initials:	Am	4	306	74	424	M	1/4
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	'PDI-838-1	<2.0 & > 0 <sup>1</sup> in. wc	29	.29	.30	.30	.30	35	S
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	lh.	14.	7h.	24.	2h.	14.	1/5'
4.1.1.7	100-1411	PDI-838-3	≤2.0 & > 01 in. wc	35	.39	.34	28.	.39	.39	. 39
	400 area re-circulation	1-688-IQd <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. we	28	82.	. 29	.29	\$7.	5%	, 29
	filter plenum	PDI-839-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	(*)	lh	43.	47:	54.	14.	42
	IV (000-1AU)	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	2	.42	4.	.42	.42	14.	ch'
	South Bleed off filter	1-018-IQd,	$\leq 2.0 \& > 0^1 \text{ in. wc}$	91.	530	770	0 12 12	0开	OFF	OFE
4.1.3.4	plenum (FF-822A) AP	PDI-810-2	$\leq 2.0 \ \& > 0^1 \ \text{in. wc}$	6h°	330	24.0	770	OF.	₩.o	2110
		PDI-810-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	6W.	OFF	100	949	の氏	off	240
	South Bleed off filter	¹PDI -811 - 1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	٥٠٠	) 11:	19.	11.	14.	11.	//
4.1.3.4	plenum	PDI -811 -2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	330	67	بری	. 45	. 45	Sh	Ř
	W (9770-11)	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	off.	70	25	84.4	7h.	φ.	64'
			Completion Time	0840	2530	4580°	6 82H	SHLO	0830	5/80
OC (	OC Operator Review and Page Count Complete (initials)	age Count Comp		10	188 14	19 m	1	2 an	Se Street	JAN - NAG

'Non TSR requirement:

Note SR 4 1 1 7 applies parting prode 1 as stated in LCO 3 1 1 SRs 4 1 3 X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Date: 4-1-13Time: 12.45 Date 3/11/12 Time Ob/ 3 Reviewed by: Date Completed by:

Comments

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Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 1 of 4)

			Date:					21.1.5		1 -7 ~
								211113	05/09/13	15/ <b>8</b> /3
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri,	Sat.	Sun
			Initials:					太	Tan &	14
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS	<u>,                                    </u>	
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$					ST PS	S#>	2-sth
	filter plenum	PDI-840-2	$\leq 2.0 \& > 0 \text{ in}^{1} \text{ wc}$					SIL	F	St.
		PDI-840-3	$\leq 2.0 \& > 0^{1} \text{ m. wc}$					246.5	£	SF3.
4.1.1.7	Vault re-circulation	¹PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. (				.45	TI	35
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	\$				.52	52	42.
	(HVF-012)	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$					.50	S	8
	200 area re-circulation	<sup>1</sup> PDI-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		0			18.	7	3.5
	filter plenum	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$					J.	9	3
	177 (100-1411)	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$			7		.34	ع( ً	2 %
	200 area re-circulation	<sup>1</sup> PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$					. 23	70	
	filter plenum (HVP_802) AP	PDI-832-2	≤2.0 & > 0¹ in. wc			O		.51	15.	V
	(1)	PDI-832-3	≤2.0 & > 0 <sup>1</sup> in. wc					44	Ť.	3
(		<sup>1</sup> PDI-807-1	<2.0 & > 0 in. wc				7 //	.10	0	67
4.1.3.4	North Bleed off filter plenum	PDI-807-2	≤2.0 & > 0¹ in. wc				/	.78	80.	.1%
	(FF-820A) $\Delta F$	PDI-807-3	<2.0 & > 01 in. wc					.47		TH.
	North Bleed off filter	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$					oft		F
4.1.3.4	plenum (FF-820B) $\Delta P$	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$					tje	At Off	华
		PDI-809-3	≤2.0 & > 0¹ in. wc					200	Off	#

03/03/13 Kary Sun. Page 31 of 38 J. 9 4 勇 3 S 9 Y 其 7 T 7 à 4 3 £1/e0/80 Sat. 13 50 7 146 £ 4 24% 02 (g) B 新 3 秀 X 43 33 7 31:13 86 22 25 ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) すれ 10 .t6 40 546 M 丰 丰 .47 45 <+13m 545 rats FF 35 SURVEILLANCE RESULTS (in. wc) ¥. Thu Wed. (Page 2 of 4) Tue. Surveillance Rounds Mon. Weekday: Date: Initials:  $\leq 2.0 \& > 0^1 \text{ in. wc}$ <2.0 & > 01 in. wc  $\leq$ 2.0 & > 0<sup>1</sup> in. wc.  $\leq 2.0 \text{ & > 0}^1 \text{ in. wc}$ ≤2.0 & > 01 in. wc <2.0 & > 01 in. wc Acceptance Criteria  $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq$ 2.0 & > 0<sup>1</sup> in. wc <2.0 & > 01 in. wc \$2.0 & > 01 in. wc <2.0 & > 01 in. wc. <2.0 & > 01 in. wc  $\leq$ 2.0 & > 0<sup>1</sup> in. wc  $\leq 2.0 \text{ & > } 0^1 \text{ in.}$  $\leq 2.0 & > 0^1 \text{ in.}$ PDI-829-1 PDI-829-2 PDI-829-3 PDI-833-1 PDI-833-2 PDI-833-3 PDI-835-1 PDI-835-2 Gauge PDI-835-3 PDI-815-1 PDI-815-2 PDJ-815-4 PDI-815-5 PDI-816-1 PDI-816-2 PDI-816-4 PDI-816-5 North Basement exhaust filter plenum (FF-828)  $\Delta P$ 100 area re-circulation 100 area glovebox exhaust filter plenum (FF852) AP 100 area re-circulation 100 area glovebox exhaust filter plenum (FF853) AP filter plenum (HVP-803) AP filter plenum (HVP-804) AP Description TA55-STP-004, R15.1 4.1.3.4 4.1.1.7 4.1.3.4 4.1.3.4 SRs

TA55-STF	TA55-STP-004, R15.1		Surve	Surveillance Rounds	sput				Page 32 of 38	of 38
		ATTAC	ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)	aily Surv (Page	Surveillance F (Page 3 of 4)	tounds (F	F-4 Nor	th Side)		
			Date:					3-1-13	3-1-13 03/03/3	es/63/30
	и		Weekday:	Mon	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					IZ.	MM	N. S.
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SSULTS		
	200 area glovebox	<sup>1</sup> PDI-812-1	≤2.0 & > 0¹ in. wc					. 15	الم	7
	exhaust filter plenum (FF850) $\Delta P$	PDI-812-2	$\leq 2.0 & > 0^1 \text{ in. wc}$					.33	.33	ζ.
4.1.3.4		PDI-812-3	<2.0 & > 01 in wc					.32	3	de
		PDI-812-4	<2.0 & > 01 in. wc					. 32	6	.33
		PDI-812-5	≤2.0 & > 0 in. wc	, (				<u>m</u>	Į.	3)
	200 area glovebox	'PDI-813-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	S				4454	×x Xx	多
	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	<2.0 & > 0 <sup>1</sup> in. wc					545-1	易	#
4.1.3.4		PDI-813-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc					5454	多	SAV
		PDI-813-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		< >			843y		F
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$							ASS.
	IFIT exhaust	<sup>1</sup> PDI-865-1	<2.0 & > 0 in. wc			-		.03	, co.	₹6.
4.1.3.4	(FF-865) ΔP	PDI-865:2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$					. 35	25	.35
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$					3	C.T.	04.
,	IFIT supply filter plenum	<sup>1</sup> PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$					40.	) )0	<i>3</i>
4.1.3.4	(HVP-863) ΔP	PDI-863-2	≤2.0 & >0¹ in. wc			-	\ \ \	97,	01	G T

Surveillance Rounds TA55-STP-004, R15.1

ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

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(Page 4 of 4)

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03/03/13	Sun.	181		و	7	6	وگئے ا	to				tes	Ź			Sk/AS	DAO PR	
@5/09/B	Sat.	R. S.		91.	たれ	و	SA STATES	tos				たり				0400	300 B	
3-1-13 (25/03/13	Fri.	J	SULTS	-14	.t7	10.	. 45	ty o		-	J V	į.				0823	7 000 B 000 13 000	
	Thu.		SURVEILLANCE RESULTS									-						
	Wed.		SURVE															
	Tue.												/	<del></del>				
	Mon.							ORIN		<u></u>								
Date:	Weekday:	Initials:	Acceptance Criteria	$\leq 2.0 & > 0^{1} \text{ in. wc}$	≤2.0 & > 01 in. wc	≤2.0 & > 0¹ in. wc	≤2.0 & > 01 in wc	0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	0 lb/ft² combustibles	within 3.5 feet	face of the PMMA, the	width of the aisles	between gloveboxes, or	up to the walls of the	rooms, whichever is less	Completion time	OC Operator Review and Page Count Complete (initials)	
			Gauge	'PDI-857-1	PDI-857-2	'PDI-856-I	PDI-856-2										iew and Page Cou	
			Description	North Basement supply filter plenum	(HVP-840) ∆P	North corridor supply filter plenum	(HVP-809) AP	Combustible exclusion area around basement exhaust faus FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	Rooms 201, 204, 206, &	/07							OC Operator Rev	I No. Ten
			SRs	1,01	4.1.3.4	4.1.3.4		'NA	4.3.2.2			•						I MI Troub

<sup>1</sup> Non TSR requirement
Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Michael Took Date 03/02/15 Time 0435

Date 3 4-15 Time: 1047 Reviewed by DAL

ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 1 of 4) TA55-STP-004, R15.1

Page 30 of 38

			Date:		16/2	= 1/1/19		3-8-12	2/0/13	0/1.10
			Weekday:	Mon.	5/2/13 Tue.	Wed.	Thu.	Fri	Sat.	Sun.
			Initials:	N. M.	gir	8	X	古	Va	4
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	Vault re-circulation	'PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.87	STBV	STBV	5767	Silber	57.87	STBV
	filter plenum	PDI-840-2	≤2.0 & > 0 in¹ wc	STBY	STBU	STRY	हैं (ह)	SILLY	STBY	57.87
	177 (110 111)	PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBV	\$7.87	57.67	) ACTION	STBY	STBY
4.1.1.7	Vault re-circulation	¹-148-104¹	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	245	Sh.	5h.	. 45	事	45	hh.
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.52	52	.52	25.	.52	.52	.52
	177 (710-1411)	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	50	2.50	.50	. 50	.50	.50	.50
	200 area re-circulation	¹PDI-831-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.31	311	.31	.32	.31	15,	.32
	filter plenum	PDI-831-2	≤2.0 & > 0¹ in. wc	OH.	J.A.	14.	اله.	14.	/h:	/h"
	157 (1105-11411)	PDI-831-3	≤2.0 & > 0¹ in. wc	.35	35.	36	.37	36	,35	35
	200 area re-circulation	<sup>1</sup> PDI-832-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	52.	.73	23	.23	. 23	52'	,23
	filter plenum	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	18.	75.	SIS.	.52	. 52	.52	.52
	(47.1 - 0.0.)	PDI-832-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	\$5.	64.	<i>bh</i> :	49	bh.	, 49	617
		<sup>1</sup> PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.11	""	-/1	10	11.	, 1)	11
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	11.	36.	29	Æ.	77.	, 78	38
	(FF-820A) ∆P	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Lk:	.4)	. ck.	TH.	747	147	ch'
	A Pack	<sup>1</sup> -808-I	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	2.30	off	の市	Ort.	OFF	oft.
4.1.3.4	plenum (FF-820B) AP	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF.	350	off.	90FF	OFF F	OFF	9.CF
		PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	340	off	0.56	350	H S	OFF	<i>\$</i>

97.34

A. P. S. A.

STBY

57.37

\$187

STBV STOV

> STRY .32

 $\leq 2.0 \& > 0^1 \text{ in. wc}$ 

PDI-815-5

 $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq 2.0 \& > 0^1 \text{ in. wc.}$ 

PDI-816-1 PDI-816-2 PDI-816-4

 $\leq 2.0 \& > 0^1 \text{ in. wc}$ 

PDI-815-4

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7 3

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57.07

STBY 578>

Staby S

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7 7

3

3/10/0 Sun 27 STBY STBY 47 43 90 3 14 Page 31 of 38 9 3/5/13 47 45 207 STBY 74 h Sat STBY 7 cog 3-6-13 2 र्रेन्स् र्गे ते ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) ナナ 4 ナコ 0 8 त्र 2 FT 于 SURVEILLANCE RESULTS 3-7-13 (in. wc) 3 Thu. 5767 S 20 5784 .13 3 18 7 Ŧ 45 2 3/6/13 Wed. 8 500 57.8 7 7 9 3 7 15/13 |. STBY 97.Du 2 7 25 Surveillance Rounds (Page// 3-4-13 7 51.87 05 STEX ટ .13 Ŧ 5 ş Date: Initials: Weekday:  $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq 2.0 \text{ &> } 0^1 \text{ in. wc.}$ <2.0 & > 01 in. wc  $\leq 2.0 \& > 0^1 \text{ in. wc}$ Acceptance Criteria  $\leq 2.0 \text{ & > 0}^1 \text{ in. wc}$ \$2.0 & > 01 in. wc  $\leq 2.0 \& > 0^1 \text{ in. wc}$  $\leq$ 2.0 & > 0<sup>1</sup> in. wc  $\leq 2.0 \& > 0^1 \text{ in. wc}$ <2.0 & > 01 m. PDI-829-1 PDI-829-2 PDI-829-3 PDI-833-1 PDI-833-2 PDI-833-3 PDI-835-1 PDI-835-2 PDI-835-3 PDI-815-2 PDI-815-1 Gauge North Basement exhaust filter plenum (FF-828)  $\Delta P$ 100 area glovebox exhaust filter plenum (FF852) AP 100 area re-circulation 100 area re-circulation filter plenum (HVP-803) AP (HVP-804) AP Description TA55-STP-004, R15.1 4.1.1.7 4.1.3.4 SRs

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 $\leq 2.0 \& > 0^1 \text{ in. wc}$ 

PDI-816-5

100 area glovebox exhaust filter plenum (FFF853) AP

4.1.3.4

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14: 3

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of 38		3/10/13	Sun.	and		51	92	.35	.32	.30	57.87	57.8 4	37.8%	57.87	STAV	.63	34	.40	70	
Page 32 of 38		3/9/13	Sat.	R		. 15	,35	,35	,32	.30	5787	STBY	STBY	8787	STBY	.03	.34	8.	90'	77
	th Side)	3-6-13	Fri.	B	ESULTS	.15	.35	.35	.32	.30	Star	Star	Star	र्मुन्स	Stan	.03.	.33	<u>Ş</u> .	20.	į
	PF-4 Nor	3-7-13	Thu.	X	SURVEILLANCE RESULTS (in. wc)	.15	£.	35.	28.	.30	STBY	STBY	STBY	STAY	57.85/	.03	.33	.39	90.	
	B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)	3/1/13	Wed.	d/k	SURV	.15	38	35.	32	.30	STBY	57.87	\$7.BV	STBY	3784	.03	.35	Op.	90.	
spu	Surveillance (Page 3 of 4)	3/5//3	Tue.	3		15	36	35	55.	.30	578 /	40.45°	2104	4848	76.45	50.	35.	07.	90.	
Surveillance Rounds	aily Surv (Page	3-4-13	Mon.	X		.15	.35	38.	.32	.30	STBY	STIGN	STAN	STIGY	उप्धर	80.	×,	7	90.	
Surve		Date:	Weekday:	Initials:	Acceptance Criteria	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<2.0 & > 01 in. wc	<2.0 & > 01 in wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	≤2.0 & > 0¹ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	0. vi 10 × 40 0 0
	ATTACHMENT				Gauge	<sup>1</sup> PDI-812-1	PDI-812-2	PDI-812-3	PDI-812-4	PDI-812-5	¹PDI-813-1	PDI-813-2	PDI-813-3	PDI-813-4	PDI-813-5	1-598-IQd <sub>1</sub>	PDI-865:2	PDI-865-3	<sup>1</sup> PDI-863-1	ט 1963 ט
-004, R15.1			ž.	χ	Description	200 area glovebox	exhaust filter plenum (FF850) $\Delta P$				200 area glovebox	exhaust filter plenum (FF851) $\Delta P$		·		IFIT exhaust	(FF-865) ΔP		IFIT supply filter plenum	dv (£98-3/H)
TA55-STP-004, R15.1					SRs			4.1.3.4					4.1.3.4				4.1.3.4			4.1.3.4

Surveillance Rounds	ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Sid	(Page 4 of 4)
TA55-STP-004, R15.1		

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				0 - 1	/					
			Date:	3-4-13	3/4/13	3/6/8	3-1-13	3-6-13	3/9/13	3/16/13
			Weekday:	Mon.	Tue	Wed	Thu.	Fri.	Sat.	Sun.
			Initials:	W-7-	do	9m	*	K	ч	Ar
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	SULTS		
1137	North Basement supply filter plenum	<sup>1</sup> PDI-857-1	$\leq 2.0 \text{ & > 0}^{1} \text{ in. wc}$	71.	5/2	91.	71.	71.	117	5
4.1.3.4	(HVP-840) ΔP	PDI-857-2	≤2.0 & > 0¹ in. wc	<b>9</b>	87.	84.	7	.48	24'	87
4.1.3.4	North corridor supply filter plenum	'PDI-856-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	80.	89.	90.	. 08	30.	80'	80.
	(HVP-809) ΔP	PDI-856-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	39.	43	79.	9.	99.	.45	49
"NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE8220C, FE822A.		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	0						
	FE822B, FE822C			SAT	SAT	SAT	SAT	145	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, &		0 lb/ft² combustibles							
			within 3.5 feet perpendicular from the face of the PMMA, the							
			width of the aisles between gloveboxes, or		<b>)</b> /					
			rooms, whichever is less	SAT	SAT	SAT	595	24	SAT	SAT
			Completion time	0915	0837	083	1008	4480	3229	9480
	OC Operator Re	view and Page Co	OC Operator Review and Page Count Complete (initials)	B	0 1	BAN ASS	340 K	18 A	8/8	90
Note: SR 4.	<sup>1</sup> Non TSR requirement Note: SR 4.1.3.4 applies during mode I and mode 2.	I and mode 2.			-	:	1			

Note: SR 4.1.3.4 applies during mode I and mode 2.

Completed by: Date 3/b/12 Time 0846 Reviewed by: D.

A55-STF	TA55-STP-004, R15.1	LATTA		Surveillance Rounds	nds	Dahano	DE 4 Now	(origo)	Page 30 of 38	of 38
		ATTACHMENT		B-2: Daily Surveillance Kounds (PF-4 North Side) (Page 1 of 4)	Surveillance I (Page 1 of 4)	Kounds (1	F-4 Nor	th Side)		
			Date:	3/11/13	3/12/13	3/13/13	3 मिन्छि	3/15/13	33/19/3	98/17/R
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
			Initials:	9	de de	\$	3	3	183	133
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	ESULTS		)
	Vault re-circulation	'PDI-840-1	$\leq 2.0 & > 0^{1} \text{ in. wc}$	STBY	STBY	5787	STBY	STBY	195	A.S.
	filter plenum	PDI-840-2	<2.0 & > 0 in wc	STB/	STBV	STBY	STBy	87.64	务	199
		PDI-840-3	≤2.0 & > 01 in. wc	Sray	STBY	310%	ST0 y	\$184	É	X.Fo
4.1.1.7	Vault re-circulation	¹PDI-841-1	<2.0 & > 0 in. wc	St.	44,	44.	sh.	<i>ከከ</i> "	MI	מה'
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	/5.	.52	.52	.52	.52	65.	Ŋ
	177 (710-111)	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	50	05.0	.50	.50	95.	SO	南
	200 area re-circulation	¹PDI-831-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		3	.31	127	16.	٦٠	K
	filter plenum	PDI-831-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	14.	04.	141	14.	14.	17.	17.
	177 (100-111)	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	35.	.35	36	.35	.36	35	35
	200 area re-circulation	'PDI-832-I	≤2.0 & > 0¹ in. wc	.23	.23	23	.23	.23	Ķ	ú
	filter plenum	PDI-832-2	≤2.0 & > 0 in. wc	.51	15.	), s.	15.	15.	ĬŽ.	Ń
	(200 1 12)	PDI-832-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	49	64.	64.	49	94°	, H9	bhi
		¹PDI-807-1	≤2.0 & > 0 in. wc	111	. 11	11.	17	11	0).	Q.
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	28	78	300	78	.78	78	. K
	(FF-820A) ∆F	PDI-807-3	≤2.0 & > 0¹ in. wc	35.	817	87	340	.48	, ng	Str.
	North Ried off filter	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	off	OFF	OFF	off	OFF	¥	#0
4.1.3.4	plenum (FF-820B) AP	PDI-809-2	<2.0 & > 01 in. wc	250	OFF	950	off	350	き	岩
		PDI-809-3	$\leq 2.0 \& > 0^4$ in. wc	716	550	230	77	744	d	ŧ
		•								

Page 31 of 38 ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 2 of 4) TA55-STP-004, R15.1

				-0	(, = 2 = 2 = )					
			Date:	3/11/13	3/11/8	3/13/13	3/14/13	3/15/13	63/16/13	ציינו/ינס
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	Wb	(ام	gw.	A.	de de	Mint	13/1 4:
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS		
		<sup>1</sup> PDI-829-1	<2.0 & > 01 in. wc	90.	90.	90.	90.	90.	පි	5
4.1.3.4	filter plenum (FF-828) AP	PDI-829-2	≤2.0 & > 0¹ in. wc	.23	.22	.21	17.	17.	10	£
		PDI-829-3	<2.0 & > 0 <sup>1</sup> in. wc	.21	17.	10	20	20	7	<u>C</u> 6.
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.87	88.	88.	88.	0.0 0.0	.64	88,
	filter plenum	PDI-833-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	94.	34.	74.	94.	94	9 	97
4.1.1.7	157 (500-1411)	PDI-833-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	777	44	Sh:	54.	Sh.	ا	7,1
	100 area re-circulation	<sup>1</sup> PDI-835-1	≤2.0 & > 0¹ in. wc	.13	13	.13	./3	./3	ch ch	, si
	filter plenum	PDI-835-2	<2.0 & > 0 <sup>1</sup> in. wc	Sh.	. 45	hh.	hh	St.	4	. ŠÝ
	187 (400-1411)	PDI-835-3	$\leq 2.0 \& > 0^4 \text{ in. wc}$	04.	OF	96	94,	04.	7.	Q.
		1-815-I	<2.0 & > 0 <sup>1</sup> in. wc	ST84	STBY	V8.42	STBV	STBY	SHb/	Xax Xax
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STB Y	STB	\$7.67	\$TBY	546(	Ster
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5737	STBY	STBY		C#b/	Stry
		PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	\$7.67	57.13 %	\$7.89	STRY		Sthv	) af
		<sup>1</sup> PDI-816-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.34	.32	.32	33		,35	137
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	94.	14.	14.	14.	04.	9 <del>4</del> .	DH,
	exhaust filter plenum (FF853) AP	PDI-816-4	<2.0 & > 01 in. wc.	141	14.	14.	16	lh.	ĮŢ.	H.
		PDI-816-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	141	14.	14.	47	.42	7	CH

ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

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				(rage	(rage 5 of 4)					
			Date:	3/11/13	3/12/13	3/13/13	3/14/3	3/15/13	03/16/13	FYLV50
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	Par Jan	9	1	4	٤	8	1333
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	ESULTS		J
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	51.	5/.	3/	51	\$1.	13	15
	exhaust filter plenum (FF850) ΔP	PDI-812-2	$< 2.0 R > 0^{1}$ in. wc	35	45,	.35	35	35		35
4.1.3.4		PDI-812-3	<2.0 & > 0 in wc	36	.35	.36	36	36	K.	સં
		PDI-812-4	<2.0 & > 01 in. wc	33	.33	.33	33	22	Ķ	135
		PDI-812-5	<2.0 & > 01 in. we	30	.30	.30	3.0	.30	30	ୟ
	200 area glovebox	1-813-I	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	1872	STB 4	STBY	STBV	57.8 V	F	145.
	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	1845	STB 4	STBY	\$787	57.87	\ <del>\</del> \ <del>\</del> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ま
4.1.3.4		PDI-813-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	Y072	vars	STBV	STAV	57.07	亲	Ē
		PDI-813-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	57.BV	STBY	57.84	STBV		孟	考
	,	PDI-813-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	\$7.BY	1	STBY	57.137		F	A.S.
	IFIT exhaust filter plepnyn	1-598-IGd <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	50		.63	.03		~ હૈ	40.
4.1.3.4	(FF-865) △P	PDI-865-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.34	32	34	z,	32	5	Ą
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	oh.	14.	Oh	14.	40	S.	ولا
	IFIT supply filter plenum	<sup>1</sup> PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	90	90.	90	106	99	ફ	ક
4.1.3.4	(HVP-863) ΔP	PDI-863-2	<2.0 & >01 in. wc	17	04.	40	117	42	杂	Č.

435 SYCINO Sun. 2630 5 13 18 Page 33 of 38 5 03/6/13 18 Sat. 03.75 15 To Se £ 1. E 3/15/13 ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) F. 2 0731 SURVEILLANCE RESULTS .47 49 SAT 8 Date: 3-15-19 ime: 08 3/14/13 Thu. SAT .47 SAT व 3/13/13 B 4580 1. 5 SAT 3/11/13 5480 (Page 4 of 4) Tue. 5 5 SAT J Surveillance Rounds g Mon. 3 0060 Ž SA SAT 46 69 8 Reviewed by: Date: designated exclusion area 0 lb/ft2 combustibles in rooms, whichever is less Initials: Weekday: Completion time (within 15 feet of fans) between gloveboxes, or  $\leq 2.0 \& > 0^{1} \text{ in. wc}$ perpendicular from the face of the PMMA, the OC Operator Review and Page Count Complete (initials)  $\leq 2.0 \& > 0^{1} \text{ in. wc}$ <2.0 & > 01 in. wc <2.0 & > 01 in. we up to the walls of the Acceptance Criteria 0 lb/ft² combustibles width of the aisles within 3.5 feet Completed by: Michael Tink Date 63/14 Time Chase <sup>1</sup>PDI-856-1 Note: SR 4.1.3.4 applies during mode 1 and mode 2. 'PDI-857-1 PDI-857-2 PDI-856-2 Gauge Combustible exclusion area FE820B, FE820C, FE822A, North Basement supply around basement exhaust fans FE828, FE829 and Rooms 201, 204, 206, & bleed-off fans FE820A, North corridor supply FE822B, FE822C (HVP-840) AP (HVP-809) AP filter plenum filter plenum Description TA55-STP-004, R15.1 Non TSR requirement Comments: 4.1.3.4 4.1.3.4 4.3.2.2 SRS YN,

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 1 of 4)

				(rage	(rage 1 01 4)					
			Date:	3/18/18	3719/13	32013	3/21/13	3/22/13	3-28-13	3-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	gir	De la company de	P	4	3	7 %	7.0
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SSULTS		
	Vault re-circulation	'PDI-840-1	<2.0 &>01 in. wc	ST8V	5767	Sibu	STBY	37.By	57.84	STRY
	filter plenum (HVP-811) $\Delta P$	PDI-840-2	<2.0 & > 0 in wc	STBV	शक	5/by	STBV	STRV	5.78%	5784
		PDI-840-3	<2.0 & > 01 in. wc	97.BY	57157	542m	5737	STB Y	57.RV	8781
4.1.1.7	Vault re-circulation	¹PDI-841-1	≤2.0 & > 0¹ in. wc	<b>h</b> b:	٠٧٢	. 44	.45	Sh°	44.	5/1.
	filter plenum	PDI-841-2	<2.0 & > 0 in. wc	23	£5;	.52	.52	75	.52	127
	153 (210-111)	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	.50	.50	.50	50	,50	15 4
	200 area re-circulation	<sup>1</sup> PDI-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	7.34	18.	.31	.3/	,31	١ ،
	filter plenum	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in wc}$	lh	ah.	17.	17	04.	- 7,	7 7 .
		PDI-831-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	36	3.5	34	36	32.	35.	-/2'
	200 area re-circulation	<sup>1</sup> PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	52.	. 23	123	.23	.23	. 23	. 23
	filter plenum (HVP-802) AP	PDI-832-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	/5	.52	. 52	Sí	15	15,	18,
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	64.	٠ ۲٩	. 50	bh	697.	64.	613 .
		<sup>1</sup> PDI-807-1	<2.0 & > 01 in. wc	n.	17.	111.	71	110	".	),,
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	36	-78	.79	29	378	80	Q a
	(FF-820A) ∆F	PDI-807-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	49	٠٦٠	64	64	24.	94.	617.
?	North Bleed off filter	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	ŋţţ	40	्र राज्य	340	0.55	OFF	ひんた
4.1.3.4	plenum (FF-820B) $\triangle$ P	PDI-809-2	$\leq 2.0 \& > 0^{4}$ in. wc	OFF	240	of to	OFF	OFF	OFF	OFF
		PDI-809-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	ofic	2 de la companya della companya della companya de la companya della companya dell	off	off.	250	OFF	0 % %

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 2 of 4)

SRS   Description   Cauge   Question   Cauge   Citeta   Citeta   Cauge   Citeta   Citeta   Cauge   Cauge   Cauge   Citeta   Cauge   C					)						
North Basement chaust   PDI-829-1   Cauge   Acceptance Criteria   Acceptance Criteria   Acceptance Criteria   Acceptance Criteria   Acceptance Criteria   Acceptance Criteria   PDI-829-2   Call & C				Date:	2/18/12	3/19/13	3/20/13	- 1	3/22/3	3-23-14	3-24-13
Description   Gauge   Acceptance Criteria   Survella, IANCE RESIN				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
North Basement exhaust   PDI-829-1   \$\int \text{Geoplance Criteria} \rightarrow{Porth Basement exhaust   PDI-829-2   \$\int \text{Geoplance Criteria} \rightarrow{POI-829-3   \$\int \text{Geoplance Criteria} POI-829-3   \$\int \text{Geoplance				Initials:	Gur	Sue	Ŋ	gr	de S	t q	pt
PDI-829-1   PDI-829-1   PDI-829-1   PDI-829-2   PDI-829-2   PDI-829-2   PDI-829-2   PDI-829-3   S.O.& > O' Im we   1.0   PDI-833-1   S.O.& > O' Im we   1.0   PDI-833-1   S.O.& > O' Im we   1.0   PDI-833-3   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-3   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-3   PDI-835-4   S.O.& > O' Im we   1.0   PDI-835-4   S.O.& S.O. Im we   1.0   PDI-83	SRs	Description	Gauge	Acceptance Criteria	`		SURVE	SILLANCE RE (in. wc)	SULTS		
		New Post		<2.0 & > 0 in. wc	,00	90.	70.	90.	90.	90.	0
PDI-833-1   \$\int 0.0 area re-circulation   PDI-833-1   \$\int 0.0 area re-circulation   PDI-833-1   \$\int 0.0 area re-circulation   PDI-833-2   \$\int 0.0 area re-circulation   PDI-833-3   \$\int 0.0 area glovebox   PDI-835-3   \$\int 0.0 area glovebox   PDI-815-2   \$\int 0.0 area glovebox   PDI-815-3   \$\int 0.0 area glovebox   PDI-815-3   \$\int 0.0 area glovebox   PDI-815-2   \$\int 0.0 area glovebox   PDI-815-2   \$\int 0.0 area glovebox   PDI-815-3   \$\int 0.0 area glovebox   PDI-81	4.1.3.4	filter plenum (FF-828)		≤2.0 & > 0 in, wc	.22	72		.23	.13	. 26	128
PDI-833-1   \$\alpha=0.00 \text{ in. we}   \text{FIDI-833-1}   \$\alpha=0.00 \text{ in. we}   \text{FIDI-833-1}   \$\alpha=0.00 \text{ in. we}   \text{App}   \tex			PDI-829-3	≤2.0 & > 0' in. wc	.20	9.0		17.	12.	, 25	, 24
filter plenum (HVP-803) AP PDI-833-3 \$\leq 2.0 & > 0^1 \text{ in. wc}\$ \rightarrow 4\sqrt{s}\$ \rightarrow 4s		100 area re-circulation	'PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	187	80	. 88	90	Q.	587	68.
100 area glovebox   PDI-815-3   \$\inpropersises 2.0 & > 0^1 in. wc   \frac{45}{19} \cdot \frac{45}{19} \cdot \frac{1}{19} \cd		filter plenum (HVP-803) AP	PDI-833-2	≤2.0 & > 0¹ in. wc	346	35'	L4.	94.	Ch.	871	, 48
PDI-835-1   S_2 0 & > 0¹ in. wc   Hy   Gr   Gr   Hy     FILET plenum (HVP-804) AP   PDI-835-2   S_2 0 & > 0¹ in. wc   Hy   Gr   Gr   Hy     FILET plenum (HVP-804) AP   PDI-815-1   S_2 0 & > 0¹ in. wc   Hy   Gr   Gr   Gr     FILET plenum (FF852) AP   PDI-815-2   S_2 0 & > 0¹ in. wc   Gr   Gr   Gr     FILET plenum (FF852) AP   PDI-815-4   S_2 0 & > 0¹ in. wc   Gr   Gr   Gr     FILET plenum (FF853) AP   PDI-815-5   S_2 0 & > 0¹ in. wc   Gr   Gr   Gr     FILET plenum (FF853) AP   PDI-816-1   S_2 0 & > 0¹ in. wc   Gr   Gr   Gr     FILET plenum (FF853) AP   PDI-816-2   S_2 0 & > 0¹ in. wc   Gr   Gr   Gr     FILET plenum (FF853) AP   FILET   Gr   Gr   Gr   Gr   Gr     FILET plenum (FF853) AP   FILET   Gr   Gr   Gr   Gr   Gr     FILET plenum (FF853) AP   FILET   Gr   Gr   Gr   Gr   Gr     FILET plenum (FF853) AP   FILET   Gr   Gr   Gr   Gr   Gr   Gr     FILET plenum (FF853) AP   FILET   Gr   Gr   Gr   Gr   Gr   Gr   Gr     FILET plenum (FF853) AP   FILET   Gr   Gr   Gr   Gr   Gr   Gr   Gr   G	4.1.1.7	147 (CAO- 1 A 11)	PDI-833-3	≤2.0 & > 0¹ in. wc	54	. 45	. 45	ħħ.	hh"	hh.	P4 .
HIPP-804) AP   PDI-835-2   \$\( 2.0 & \& > 0^1 \) in. wc   \( 444 \)   \( \lambda \) \( \lambda \)   \( \lamb		100 area re-circulation	'PDI-835-1	≤2.0 & > 0¹ in. wc	. 13	2	.13	-13	.13	21.	. 13
PDI-815-3   \$\leq 2.0 & \times \gamma\rightarrow  \text{.qo}  \text{.qo}   \text{.qo}   \text{.qo}   \text{.qo}  \q		filter plenum	PDI-835-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	44	37	.45	ħħ.	. 45	441	44.
PDI-815-1   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$5.84   \$1.89   \$1.80     Carta glovebox   PDI-815-2   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84   \$1.89     PDI-815-4   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$1.84     PDI-815-5   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84     PDI-816-1   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84     PDI-816-2   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84     PDI-816-2   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84     PDI-816-5   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.8   \$7.84   \$7.84     PDI-816-5   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84     PDI-816-5   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84     PDI-816-5   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84     PDI-816-5   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84     PDI-816-5   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84     PDI-816-5   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.84   \$7.84     PDI-816-5   \$2.0 & > 0 <sup>1</sup> in. wc   \$7.84   \$7.			PDI-835-3	<2.0 & > 0 in. wc	04.	er.	14.	.40	04.	14.	1 7 1
100 area glovebox   PDI-815-2   \$\leq 2.0 & > 0^1 in. wc   \text{stay}   \text{stay}  \text{stay}  \text{stay}  \text{stay}  \text{stay}  \text{stay}  \text{stay}  \text{stay}  \text{stay}  \text{stay}  \text{stay}  \text{stay}  \text{stay}  \text{stay}			1-815-1	<2.0 & > 01 in. wc	57.04	SIB	SABW	STGV	STBY	S TB4	STBY
PDI-815-4   \$2.0 & > 0 <sup>1</sup> in. wc   \$50.0   \$700   \$7100   \$7	4.1.3.4	100 area glovebox	PDI-815-2	<2.0 & > 0 in. wc	SYBV	7073		\$137	57.84	STBV	5584
PDI-815-5   \$\leq 2.0 & \times \rightarrow \rightarr		exhaust filter plenum (FF852) AP	PDI-815-4	< 30 0	STDV	18181		STBY	STRY	5784	5781
PDI-816-1   \$2.0 & > 0 <sup>1</sup> in. wc   13   .36   .33   .35			PDI-815-5	<2.0 & > 0 in. wc	STOY	87104	Stew	gra	\$7.34	> TBV	STBY
100 area glovebox			1-918-IGd <sub>1</sub>	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.33	.30	.33	, EE	.32	.32	.32
PDI-816-4 ≤2.0 &>0¹ in. wc41 .41 .42 .42 .42 .42	4.1.3.4	100 area glovebox	PDI-816-2	% O.	14,	۶.	7.	14.	411	142	. 42
52.0 & > 01 in. wc 42 .42 .42		exhaust filter plenum (FF853) AP	PDI-816-4	<b>3</b> 0.	16.	٠٧ (	)#.	42	42	74.	24.
			PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	42	מנ	. 42	42.	25.	, 43	. 4.3

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Surveillance Rounds	ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)	(Page 3 of 4)
TA55-STP-004, R15.1		

				(Page	(Page 3 of 4)					
			Date:	3/18/13	3/19/13	उद्यि।उ	3/21/13	3/22/13	3-25-13	3-24-13
	ÿ		Weekday:	Mon.	Tue.	Wed.	Thu.	Frri.	Sat.	Sun.
			Initials:	du	Bre	ति	કુ	7	p	4
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	200 area glovebox	<sup>1</sup> PDI-812-1	≤2.0 & > 0 <sup>4</sup> in. wc	51.	.15	.75	5/	51.	51.	. 15
	exhaust filter plenum (FF850) $\Delta P$	PDI-812-2	<2.0 & > 01 in. wc	.36	. 32	.33	yE.	.33	.83	. 3.2
4.1.3.4		PDI-812-3	<2.0 & > 0 in wc	.36	. 32	.32	36	35	.35	v
		PDI-812-4	≤2.0 & > 0¹ in. wc	32	.32	. 32	32	.32	,32	135
		PDI-812-5	\$2.0 & > 01 in. we	189	18.	.3)	.3/	.3.	.31	. 30
	200 area glovebox	¹PDI-813-1	≤2.0 & > 0¹ in. wc	55130	S7 M7	Stby	<b>5</b> 7.13V	STBV	5787	57.84
7 6 7	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	≤2.0 & > 0¹ in. wc	57.81	6787	Stby	ST.3./	V872	STBU	57.81
4.1.3.4		PDI-813-3	<2.0 & > 0 <sup>1</sup> in. wc	STBY	1818	Stbu	\$7.87	0815	ST 8%	2787
		PDI-813-4	<2.0 & > 01 in. wc	STBY	8-10-1	Stby	57.04	MELS	STBY	5 7 8 9
		PDI-813-5	<2.0 & > 0 in. wc	STBY	mes	ngas	YELLS.	4673	\$ 7.30	C+80
	IFIT exhaust	1-865-1	$\leq$ 2.0 & > 0 in. wc	40.	9	40.	40	70	70	70
4.1.3.4	(FF-865) AP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.36	.35	.35	ΣĘ	\$5.	.35	,35
		PDI-865-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	14.	٠ جره	94	141	70	177	17.
	IFIT supply filter plenum	<sup>1</sup> PDI-863-1	<2.0 & > 01 in. wc	90	30.	00.	90	90.	. 0.	90.
4.1.3.4	(HVP-863) ΔP	PDI-863-2	≤2.0 & >0¹ in. wc	14	37.	14.	177	40	05.	1 /10 .

SAT Page 33 of 38 800 DT 60 83 SAT SAT Sat. Combustula 3/22/13 ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) 3 0242 Fri 69 87 SAT SAT SURVEILLANCE RESULTS 65 00 Date: 3-26-13 Time: 0745 trun Thu. S ombush Sle Storage g 87 24 3/20/13 5/4/13 INSAT .66 9 7 <u>0</u> 如 K V 1000 3/19/13 30 ما #5 81. 200 5 0853 (Page 4 of 4) Tue Surveillance Rounds 8 bean Z 3/18/13 0840 60 48 Reviewed by Day SAT Date: designated exclusion area Initials: 0 lb/ft2 combustibles in Weekday: rooms, whichever is less (within 15 feet of fans) Completion time perpendicular from the between gloveboxes, or OC Operator Review and Page Count Complete (initials)  $\leq 2.0 \text{ &> } 0^4 \text{ in. wc}$ face of the PMMA, the <2.0 & > 0 in. wc <2.0 & > 01 in. wc  $\leq 2.0 \text{ es} > 0^1 \text{ in. we}$ up to the walls of the 0 lb/ft<sup>2</sup> combustibles Acceptance Criteria width of the aisles within 3.5 feet Completed by: Jan Lyille Date 3 24 13 Time 0744 Coon 204 204 Room 204 Note: SR 4.1.3.4 applies during mode 1 and mode 2. PDI-857-1 PDI-857-2 PDI-856-2 PDI-856-1 Gauge 400m Combustible exclusion area blecd-off fans FE820A, FE820B, FE820C, FE822A, North Basement supply around basement exhaust fans FE828, FE829 and Rooms 201, 204, 206, & North corridor supply FE822B, FE822C (HVP-840) AP (HVP-809) AP filter plenum filter plenum Description TA55-STP-004, R15.1 Non TSR requirement 43.2.2 Comments: 4.1.3.4 4.1.3.4 4.3.2.2 SRs YZ.

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 1 of 4)

				37	(1 TO 1 OF 1)					
			Date:	3/15/13	3/26/13	3-27-13	3/28/13	3/29/13	3/20/2	3/21/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			lnitials:	- Jan	dr-	A.	db	1/8	13	18
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS	<b>,</b>	
	Vault re-circulation	<sup>1</sup> PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	y 8173	31.	91.	91"	9	, N	1/
	filter plenum	PDI-840-2	$\leq 2.0 \& > 0 \text{ in}^{1}$ . wc	Y878	,52	15.	.57	60	12/2	52
		PDI-840-3	$\leq 2.0 \& > 0^{4} \text{ in. wc}$	Y672	15	15.	25.	N.	12	12
4.1.1.7	Vault re-circulation	<sup>1</sup> PDI-841-1	$\leq 2.0 \& > 0^{1} \text{ in. wg}$	34.	STBY	STBY	1815	STBY	25.774	5734
	filter plenum	PDI-841-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	51	STBY	STEX	27.84	STBY	57.24	1484
		PDI-841-3	≤2.0 & > 0¹ in. wc	51	7572	STBY	\$7.8%	SIBY	4845	48145
	200 area re-circulation	<sup>1</sup> PD <b>I-</b> 831-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	31	.31	.31	.31	28.	32	R
	filter plenum	PDI-831-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	14.	246	( h.	141	lk <sup>,</sup>	1/2"	14.
		PDI-831-3	≤2.0 & > 0¹ in. wc	36	nc.	137	36	98.	28'	37
	200 area re-circulation	<sup>1</sup> PDI-832-1	≤2.0 & > 0 <sup>1</sup> in. wc	23	.23	23	.23	52.	23	٤٧,
	filter plenum (HVP-802) AP	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.51	15.	Ole.	51	25.	,52	52
		PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	66	64.	ьн·	449	.49	6/2	65
		¹PD <b>I-</b> 807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	11.	055	9氏	off	off	210	OFF
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	80	off.	94	550	OFF	110	240
	(FF-820A) △F	PDI-807-3	$\leq 2.0 & > 0^1 \text{ in. wc}$	84.	off	OF	955	OFF	220	OFF
	North Read of Glear	1-608-IQ4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	70.	. O6	,06	9O.	90'	90'
4.1.3.4	plenum (FF-820B) AP	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	7-30	.50	5.	20	8.	05,	50
		PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	550	60	[#:	90	84.	47	747

ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)
(Page 2 of 4)

Page 31 of 38

Tue   Wed   Thu   Fri   Sat					0	(, == == =)				The second second	2000
Noverthein   Description   Cauge   Creptance Criteria				Date:	3/25/12	3/26/13	3-27-13	3/25/12	3/29/13	2/26/2	3/21/13
Polescription   Gauge   Acceptance Criteria   Polescription				Weekday:	Mon.	Tue	Wed.	Thu.	Fri	Sat	Sun.
North Basement cahants    PD1-829-1				Initials:	\$	an	1	9	Y	K	18
Fig. 828   Fig. 829   Fig. 820	SRs	Description	Gauge	Acceptance Criteria			SURVE	SILLANCE RE (in. wc)	SULTS		
Hiter plenum (FP-523)		North Becoment as house		0 1	50.	<i>Co.</i>	90.	90.	90	90	90
100 area re-circulation   PDI-833-1   \$\int 0.0 & > 0^{\text{in}} \text{inter plenum}   PDI-833-1   \$\int 0.0 & > 0^{\text{in}} \text{inter plenum}   PDI-833-1   \$\int 0.0 & > 0^{\text{in}} \text{inter plenum}   PDI-833-2   \$\int 0.0 & > 0^{\text{in}} \text{inter plenum}   PDI-833-3   \$\int 0.0 & > 0^{\text{in}} \text{inter plenum}   PDI-835-1   \$\int 0.0 & > 0^{\text{in}} \text{inter plenum}   PDI-835-2   \$\int 0.0 & > 0^{\text{in}} \text{inter plenum}   PDI-835-3   \$\int 0.0 & > 0^{\text	4.1.3.4	filter plenum (FF-828)		> 0 <sup>1</sup> in.	.19	3.26	22.	17.	12:	KK	67.
FD1-833-1   \$\frac{1}{2}\Omega \times \frac{1}{2}\Omega \times \frac{1}{2}\Omega \times \frac{1}{2}\Omega \trace{1}{2}\Omega \frac{1}{2}\Omega \frac{1}{2}			PDI-829-3	0	.25	.21	12.	20	12.	.21	æ
HVP-804) AP   PDI-833-2   \$\insigma_0 \color{\text{PDI-833-2}}  \text{SO} \pi_0 \text{in we}  \text{96}  \text{45}  \text{47}  \tex	-95.0	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wg}$	53	63.	.89	bis.	06.	36.	06
PDI-835-3   \$\leq 0.0 & > 0^1 in. we   \frac{44}{44}  \frac{44}{47}  \frac		filter plenum (HVP-803) AP	PDI-833-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc.	9.5	.45	ſ₩.	94	L. 1.	46	7
PDI-835-1   \$\( \frac{1}{2}\text{Distance} \)   PDI-835-2   \$\( \frac{2}{2}\text{0.6.8} \times 0^{\text{l in wc}} \)   \( \frac{1}{4}\text{0.5} \)   \( \f	4.1.1.7		PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Sh.	.43	714.	43	77.	pt.	p/r
HVP-804 AP		100 area re-circulation	<sup>1</sup> PDI-835-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	57	19	.13	. (3	.13	5),	(3
PDI-835-3   \$\( \circ 2 \tilde 8 \circ 0 \tilde 1 \tilde 1 \tilde 2 \circ 0 \tilde 8 \circ 0 \tilde 1 \tilde 1 \tilde 3 \tilde 1 \tilde 3 \tilde 3 \tilde 3 \tilde 1 \tilde 3 \tilde		filter plenum (HVP-804) AP	PDI-835-2	ચ્ચ	44.	4.5	SH.	43	. 45	**	hh
100 area glovebox   PDI-815-1   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-815-2   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-815-5   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-1   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-2   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-2   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-2   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-2   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-3   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-5   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-5   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-5   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-5   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-5   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   PDI-816-5   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox   1.0 area glovebox   PDI-816-5   \$\( 2.0 \& \circ \rightarrow{2} \)   1.0 area glovebox			PDI-835-3	^ %	04.	42	( F.	05	न्	ch.	Op
100 area glovebox exhaust filter plenum (FF852) AP         PDI-815-2         \$2.0 \→{2.0 \&right			¹PDI-815-1	ચ	STBY	6	91.	61.	.19	9).	60
(FF852) AP         PDI-815-4         \$2.0 & > 0^1 in. wc         \$100 area glovebox         PDI-816-1         \$2.0 & > 0^1 in. wc         \$100 area glovebox         PDI-816-2         \$2.0 & > 0^1 in. wc         \$100 area glovebox         PDI-816-3         \$2.0 & > 0^1 in. wc         \$100 area glovebox         \$100 area g	4.1.3.4	100 area glovebox	PDI-815-2	શ્ર	STBV	94.	AR.	440	7	ch	14
PDI-815-5   \$\(\frac{2.0 \&2 \gamma^2 \text{in. wc}}{\text{100 area glovebox}}\)   PDI-816-1   \$\(\frac{2.0 \&2 \gamma^2 \text{in. wc}}{\text{41}}\)   \$\(\frac{5.0 \&2}{5.0 \&2}\)   \(\frac{1.0  area glovebox}{\text{100 area glovebox}}\)   PDI-816-2   \$\(\frac{2.0 \&2 \gamma^2 \text{in. wc}}{\text{41}}\)   \$\(\frac{5.0  4}{5.0  8}\)   \(\frac{4.0  1}{10.0 \text{in. wc}}\)   \(\frac{4.0  5}{4.0  5}\)   \(\frac{5.0  8}{5.0  6}\)   \(\frac{1.0  6}{10.0  6}\)   \(\frac{5.0  8}{5.0  6}\)   \(\frac{1.0  6}{10.0  6}\)   \(\frac{5.0  8}{10.0  6}\)   \(\frac{5.0  8}{10.0  6}\)   \(\frac{1.0  6}{10.0  6}\)   \(\frac{1.0  6}{10.0  6}\)   \(\frac{5.0  8}{10.0  6}\)   \(\frac{1.0  6}{10.0  6}\)   \(1.0		exhaust filter plenum (FF852) AP	PDI-815-4	^ %	\$4 DV	.35	.35	36	.37	92	85 85
PDI-816-1   \$\leq 2.0 & > 0^1 \text{ in. wc}   35   \$\leq 57.0 \text{ y}  \text{STBY}   \text{STBY}  \text{STBY}  \text{STBY}  \text{STBY}  \text{STBY}  \text{STBY}  \text{STBY} \qu	<i>[</i> ]		PDI-815-5		7072	.39	98.	2	80,	CS	CF.
100 area glovebox			1-918-IQ4 <sub>1</sub>	શ્ર	.35	STBY	STØY	\$ 7.0 %	STBY	5,24	27/34
PDI-816-4 \$\leq 2.0 & > 0^1 \text{ in. wc.} \\ \frac{42}{42} \\ \\$\\$\\$\\$\\$\\\\\\\\\\\\\\\\\\\\\\\\\\\	4.1.3.4	100 area glovebox	PDI-816-2	\ \ \ \	141	Srav	्राक्षर	57.0%	श्रहर	35/24	Shy
\$2.0 & > 0 in. wc		exnaust niter pienum (FF853) AP	PDI-816-4	એ	.42	STBV	316/	\$7.8%	STGY	4/24	474
			PDI-816-5		45	57.07	STBY	\$7/37	STEY	MELS	57.74

Page 32 of 38		
Surveillance Rounds	ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)	(Page 3 of 4)
TA55-STP-004, R15.1		

				(rage	(rage 3 01 4)					
			Date:	3/25/0	3/16/13	3-17-13	3/28/13	3/29/12	2/30/2	3/51/13
	5		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	h	4	1. W	40	3	B	181
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS	SULTS		
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 & > 0^1 \text{ in. wc}$	51.	87.84	STBY	27.04	57.87	2534	1818
•	exhaust filter plenum (FF850) $\Delta P$	PDI-812-2	$\leq$ 2.0 & > 0 in. wc	.35	STOY	57.67	57.04	STBS	Mak	pres
4.1.3.4		PDI-812-3	<2.0 & > 0 in. wc	36	ST BY	SIBY	5r Bt/	STBY	2534	1484
		PDI-812-4	≤2.0 & > 0¹ in. wc	.32	STBY	STAST	STOW	STåY	84/34	SFRW
		PDI-812-5	≤2.0 & > 0¹ in. we	30	\$7.04	STBY	\$7.68	STBY	68/13	hE13
	200 area glovebox	¹PDI-813-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	sus.	46.	40.	hL.	41.	bC.	the.
	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	4015	30	Ş	30	58.	13/	1/6
4.1.3.4		PDI-813-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	24	8.	15.	18.	32	.30
		PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5784	.30	15.	.30	.30	,30	30
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	7872	.72	.26	32	92.	260	, as
	IFIT exhaust filter plenum	1-598-IQ4 <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	40.	30	.03	НО	.03	.03	50
4.1.3.4	(FF-865) AP	PDI-865-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.32	35	28.	25.	35.	33	33
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	04	/4	7	, 5	27	di	4
	IFIT supply filter plenum	¹PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.06	90°	90.	90	3	06	00
4.1.3.4	(HVP-863) AP	PDI-863-2	<2.0 & >01 in. wc	0h.	ć.	7	3	75	16	4

Page 33 of 38 0827 1 Part 3/29/13 ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) 3 541 SAT 28 5 윤, SURVEILLANCE RESULTS 7 Ĩ, 3/28/13 Date: 4-1-13 Time: 13 4 N 826 Thu. BS 8/7 4 SAT = 3-21-13 Wed. 3 AHBO AHBO 7 17 SAT 1. F 3/26/18 (Page 4 of 4) Tue. 4480 517 87 70 9 5 Surveillance Rounds B 3/25/17 933 Mon. 0820 54 85 SAT 16 10 Date: designated exclusion area (within 15 feet of fans) 0 lb/ft2 combustibles in Weekday: Initials: between gloveboxes, or ooms, whichever is less Completion time <2.0 & > 01 in. wc. perpendicular from the face of the PMMA, the OC Operator Review and Page Count Complete (initials) ≤ 2.0 & > 01 in. wc  $\leq 2.0 \& > 0^{1} \text{ in. wc}$ <2.0 & > 01 in. wc 0 lb/ft<sup>2</sup> combustibles up to the walls of the Acceptance Criteria width of the aisles within 3.5 feet 'PDI-856-1 mode I and mode 2. PDI-857-2 PDI-857-1 PDI-856-2 Gauge Date Combustible exclusion area FE820B, FE820C, FE822A, North Basement supply around basement exhaust fans FE828, FE829 and Rooms 201, 204, 206, & North corridor supply bleed-off fans FE820A, (HVP-840) ∆P (HVP-809) AP FE822B, FE822C filter plenum filter plenum Description TA55-STP-004, R15.1 Non TSR requirement Note: SR 4.1.3.4 applied Completed by: 4.1.3.4 4.1.3.4 4.3.2.2 SRs YZ.

13

0 Z.

20 00

1

1

Sun.

Sat.

3/1/3 Time 080 A Reviewed by: D

			M&TE Calibrated Data			
	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.: 6 4.2254	64.2254	V-701 Thermistor File No.: 040373	040373
Record September	Calibration Expiration Date:	5-14-13	5 . 14 - 13   Calibration Expiration Date:   5-30-13	5-30-13	Calibration Expiration Date:	21-278
through April only F	PF-11 Thermometer File No.:	029746	PF-11 Thermistor File No.: OHO376	040376	V-704 Thermistor File No.:	HH L 650
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date: 8-13-13	8-13-13	Calibration Expiration Date:	8-13-13

1	PF-10 & PF-11 Pumphor	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	d V-701 & V-70	14 Fire Water S	Storage Tank 7	emperature			
		Date:					3-1-13	3-1-13 3/4/13	3/3/13
	Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:					PT	A	B
SR	Description	Acceptance Criteria							
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	SAT /UNSAT	SAT/UNSAT	SAT /UNSAT	SAT /UNSAT	SAT JUNSAT	SATAUNSAT	SAT UNSAT
4.3.1.11	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	P				46.8	4615	797
4.3.1.11	RECORD fire water storage tank V-704 temperature	≥ 42.1 F					u 5.7	46.3	11.7
4.3.1.31	RECORD PF-10 room temperature	≥ 50.1 F					59.7	(0,3	9.19
4.3.1.31	RECORD PF-11 room temperature	≥ 50.1 F					1	63.1	62.11
		Completion Time:					08413		0803
	OC Operator Review and Page Count Complete (initials)	ount Complete (initials)		)	1		ONO PA	80	200
							1	47700	

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Reviewed by: On-duty Supervisor Completed by:

Date: 3-4-12 Date 3/3/13

Time ORAS

# ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

				M&TE Ca	M&TE Calibrated Data					ē	
		PF-10 Thermometer File No.:	39745	PF-10 The	PF-10 Thermistor File No.: 84225 4	10.: B4?	2254	V-701 T	V-701 Thermistor File No.:		040373
Record	Record September	Calibration Expiration Date:	5-14-13	Calibration	Calibration Expiration Date:		5-30-13	Calibration	Calibration Expiration Date:		8-13-13
through	through April only	PF-11 Thermometer File No.:	039746	PF-11 The	PF-11 Thermistor File No.: 040376	Vo.: 0403	16	V-704 Th	V-704 Thermistor File No.:		94146
		Calibration Expiration Date	8-14-13	Calibration	Calibration Expiration Date:		8-13-13	Calibration	Calibration Expiration Date:	L.,,	8-13-13
		(\$7)	3-4-13								
	-	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	house Room Temp	perature and	V-701 & V-704	Fire Water	Storage Tank T	emperature			
			1	Date:	3-4-13	3-5-13	3-5-13 3-6-13	3-7-13 3-8-13	3-8-13	3.9.13	3-16-13
	Daily (Sept	Daily (September through April only)		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	Š	T	7	PT	Š	h	4
SR	Description		Acceptance Criteria	Criteria						k	
NA	ENSURE M8 and calibratio	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.		SAT UNSAT SAT UNSAT	SAT UNSAT	SA UNSAT (SAT) UNSAT (SAT) UNSAT	SATONSAT		SAT UNSAT	SATAUNSAT
4.3.1.11	RECORD fire	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	F	40° F	46.3	463	46.6 47.2	47.2	h 9h	45.9
4.3.1.11	RECORD fire	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	įt,	41.6	46.9	45.8	1.18	48.4	46.8	45.3
4.3.1.31	RECORD PF.	RECORD PF-10 room temperature	≥ 50.1 F	ĮΤ	62.5	60.6	9.19	42,3	62.6	60.9	4.03
4.3.1.31	RECORD PF	RECORD PF-11 room temperature	≥ 50.1 F	Ĺ	67.1	64.1	63.5	62,3	63.3	64.8	63.8
			Comple	Completion Time:	10:48	0918	6848	0854	०क्ष्मा	6835	5460
		OC Operator Review and Page Count Complete (initials)	: Count Complete	(initials)	B B	BN	3,00 K3	9A0	12 B	BB	RN
-					*						

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Time

Date: 3-11-12

Completed by:
Reviewed by:
On-duty Supervisor

		M&TE Calibrated Data			
PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.: CH22 SH	04225H	V-701 Thermistor File No.: OH'O 3 73	040373
 Calibration Expiration Date:	5-14-13	Calibration Expiration Date: 5.30.13	5-30-13	Calibration Expiration Date:	8-13-13
PF-11 Thermometer File No.:	4 97 50 50	9397 46 1 PF-11 Thermistor File No.: 040376	040376	V-704 Thermistor File No.: 0397 44	D39744
 Calibration Expiration Date:	5-14-13	Calibration Expiration Date: 8-13.13	8-13-13	Calibration Expiration Date: $g = 13 - 13$	8-13-13

	PF-10 & PF-11 Pumpho	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	V-701 & V-70	4 Fire Water	Storage Tank	Femperature			
		Date:	3-11-13 3-12-13	3-12-13	3-13-13	3-13-13 3-14-13	3-15-13	3/16/12 18:17:13	8.17.13
	Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	10	The	Ma	4	みて	Cal	8
SR	Description	Acceptance Criteria						)	
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed	SAT)UNSAT	(A) UNSAT	(SATAUNSAT	6AT UNSAT	SAT)UNSAT	SATAUNSAT	(SA) /UNSAT
4.3.1.11	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	46.7	46.5	46.6	47.2	47.9	49.0	49.0
4.3.1.11	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	나 <b>?,</b> 다	46.9	47.8	48.0	48.8	50.2	50.4
4.3.1.31	RECORD PF-10 room temperature	≥ 50.1 F	59.6	0.89	62.1	62,6	63.3	64.5	62.1
4.3.1.31	RECORD PF-I I room temperature	≥ 50.1 F	b.5	63.5	63.6	63.0	2.44	65.2	65.3
		Completion Time:	0832	S 53-0-3	7060	0828	0827	0935	one
	OC Operator Review and Page Count Complete (initials)	ount Complete (initials)	100 8	X	188 A	RBD	18 B	120	18

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: Canal St.

Reviewed by: David On-duty Supervisor

Date: 03-19-13 Time 0720

			M&TE Calibrated Data			
	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.: 042254	p22240	V-701 Thermistor File No.: 040373	040373
	Calibration Expiration Date: S.	5-14-13	Calibration Expiration Date:   5-30-13	5-30-13	Calibration Expiration Date: 8-13-13	8-13-13
through April only	PF-11 Thermometer File No.: 639	94798	PF-11 Thermistor File No.: 040376	040376	V-704 Thermistor File No.: 8399144	47168
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date: 8-13-13	8-13-13	Calibration Expiration Date: 8-13-13	8-13-13

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Time 1049

Date 3/24/15

Completed by:
Reviewed by:
On-duty Supervisor

			M&TE Calibrated Data			
	PF-10 Thermometer File No.: 639745	57145	PF-10 Thermistor File No.: O42254	452240	V-701 Thermistor File No.:	040373
Record September	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:   5   30   13	5/30/13	Calibration Expiration Date: 8/15/13	8/15/13
through April only	PF-11 Thermometer File No.: 039 146	039 146	PF-11 Thermistor File No.: 040376	040376	V-704 Thermistor File No.: 639744	447660
	Calibration Expiration Date:	5/14/13	Calibration Expiration Date: 8/15/13	8/15/13	Calibration Expiration Date: 8/13/13	8/13/13

8	PF-10 & PF-11 Pumpho	house Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	I V-701 & V-70	4 Fire Water !	Storage Tank	Cemperature			
		Date:		3/26/13	3/27/13	3/28/13	3/25/13 3/26/13 3/27/13 3/28/13 3/29/13	3/30/13	3/31/13
	Daily (September through April only)	Weekday:	Mon	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
		Initials:	7	Z	म्र	Z	4	06/6	Circi
SR	Description	Acceptance Criteria							
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	SAT UNSAT	SALTUNSAT	SA) /UNSAT	SAD UNSAT SAD UNSAT SAD UNSAT		GATAUNSAT	SAT /UNSAT
4.3.1.1	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	45.8	47)	48.6 49.4	49.4	58.2	So.S	51.0
4.3.1.1	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	45.4	45.8	46.7 47.3	47.3	$\Box$	49,1	50.3
4.3.1.31	RECORD PF-10 room temperature	≥ 50.1 F	57.3	59.4	61.9	635	P-60)	1:59	62.3
4.3.1.3	RECORD PF-11 room temperature	≥ 50.1 F	63.5	63.6	43.7	67.3	63.0	63.9	67.8
		Completion Time:	9646	9630	0916 0833	5833	5080	0435	0440
	OC Operator Review and Page Count Complete (initials)	ount Complete (initials)	1000	Je 980	de	J. B. C.	A 020 000	930	X GAO
•		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2		0 00				1

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Time ogu

Date 3/31/13

Time: 1249

Date: 4-1-13

Completed by:

Reviewed by: Dand On-duty Supervisor

Surveillance Rounds

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ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-344	Southeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sat / Unsat.		3/13/13	2
4.1.3.2	Confinement Door DR-149	Northeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	(Sat) / Unsat.	0859	3/18/18	70
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sat / Unsat.	0883	Sileile	See
			AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position wa the automatic door closure is ≤ 30 seconds.	(Sat) Unsat.	5380	3/13/13	3ee

300 Z Page 36 of 38 Initials X 3 10,0,0 [3-13-13] (3,7,3) OC Operator Review and Page Count Complete Date: 1130 ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) Completi on Time: 2060 2060 29601 21601 Date: 3/13/13 Time: Sat Sat or Unsat. Sat Sat Unsat Sat. Onsat. 152599 Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement Exercise fully open and Verify that the door goes to the fully closed position Exercise fully open and Verify that the door goes to the fully closed position via the automatic door elosure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is  $\leq 30$  seconds. (asch (Page 2 of 2) Acceptance criteria Surveillance Rounds Date 3/13/13 Time 092 Reviewed by: C Seconds via the automatic door closure. door). N. Basement Personnel door DR-4 South Basement Door (Tunnel) Location Southwest Note: SR 4.1.3.2 applies during mode 1 and 2, Confinement Door DR-4 Confinement Door DR-302 Confinement Door DR-90 TA55-STP-004, R15. Equipment On-duty Supervisor Comments: Completed by: 4.1.3.2 4.1.3.2 4.1.3.2 SRS

Surveillance Rounds TA55-STP-004, R15.1

Page 37 of 38 ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center) (Page 1 of 2)

				(1 age 1 01 2)			
SR	Desc	Description	Acceptance Criteria	Sat. / Unsat.	Completion Time:	Date:	Initials:
	Channel #	Location					
	1	Rm. 201	> 1 mR/hr	(Sa) / Unsat.	()(0,5)	3-1-13	ర
	2	Rm. 106	> 1 mR/hr	(Sat)/ Unsat.	2076	3-1-13	ব
4.2.1.1	33	Rm. 305	> 1 mR/hr	(Sat)/Unsat.	(76.07	3-1-13	3
	4	Rm. 401	> 1 mR/hr	(Sat) / Unsat.	2090	3-1-13	
	5	Rm. 206	> 1 mR/hr	(Sa). / Unsat.	20%0	3-1-13	3
	9	Rm. 114	> 1 mR/hr	(sat)/ Unsat.	2070	2-1-12	
	7	Rm. 319 W	> 1 mR/hr	(Sa) / Unsat.	2090	2-1-13	3
	<b>∞</b>	Rm. 409	> 1 mR/hr	San / Unsat.	0607	2-1-13	3
	6	Rm. 208	> 1 mR/hr	Say / Unsat.	2010	3-1-13	્રી હ
	10	Rm. 124	> 1 mR/hr	Say Unsat	2070	2-1-13	3
	Ξ	Rm. 319 E	> 1 mR/hr	Sat.) Unsat.	0607.	51-1-5	3
	12	Rm. 420	> 1 mR/hr	Sat.) Unsat.	2000	3-1-13	<b>3</b>
	13	Rm. 209	> 1 mR/hr	(Sap / Unsat.	7070	3-1-13	ડ
	14	Rm. 126	> 1 mR/hr	(Sat.)/ Unsat.	20,00	3-1-13	ی
	15	Rm. 327	> 1 mR/hr	(Sat) / Unsat.	(300)	3-1-13	ડ
	16	Rm. 429	> 1 mR/hr	(Sat.)/ Unsat.	2036	2-1-13	3
	17	Vault 17	> 1 mR/hr	(Sat)/ Unsat.	20%	3-[-13	ک
4.2.2.1	18	Vault 18	> 1 mR/hr	(Sat.) Unsat.	2096	3-1-13	) उ
	61	Vault 19	> 1 mR/hr	(Sat) / Unsat.	2010	3-1-13	ర
	20	Vault 20	> 1 mR/hr	(Sat.) / Unsat.	2070	3-1-13	ડ

Note: These readings SHALL be taken on the rate meters in rack RK-801-3 in the OC.

ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)	Date 3-1-13 Time (2,02 Reviewed by: Dood of Outs Supervisor			
TA55-STP-004, R15.1	Completed by:			

#### Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TASS-STP-004 RIS IPC#1
Date of issue:	2-1-13
Working copy issued to:	B. CHANCE
Working copy issued by:	A. ONTIZ
	Certified Operations Center Operator

Signature Lequired Reading for this Surveillance has been completed.  Training Checklist		ate
Workers Performing Surveillance	Applicable Surveilland	ce Training Current
Workers & Stromming But Formation	Initials	Date
R. BRISCOE	P	2-1-13
B CHANCE	P	2-1-13
D DUNLAUY	D	2-1-13
A DUNSEITH	D	2-1-13
R LVM	$\beta$	2-1-13
A ontir	D	2-1-13
F SEYBERT	P	2-1-13
M WITTMAN	D	2-1-13
N CHAVEZ	<u> </u>	2-1-13
R HOHNER	B	2-1-13

Page 20 of 29

#### Attachment B, Surveillance Training Checklist (Page 2 of 2)

#### Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveilland	ce Training Current
	Initials	Date
J MARTINEZ	P	2-1-13
T LANGUORTHY P TRUJILLO	D	2-1-13
P TRUSILLO	Q	2-1-13
N MONTOYA	0	2-1-13
A SANCHER	D	2-1-13
G CORIZ	ρ	2-1-13
M IRISH	P	2-1-13
A HERRENT	P	2-1-13

R-13-25881 -----

Surveillance Rounds

TA55-STr-004, R15.1

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# ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)

(Page 1 of 2)

				(r ago r or 2)			
SR	Desc	Description	Acceptance Criteria	Sat. / Unsat.	Completion Time:	Date:	Initials:
	Channel #	Location					
	1	Rm. 201	> 1 mR/hr	(Sat) Unsat.	0635	2-1-13	0
,	2	Rm. 106	> 1 mR/hr	(Sat) / Unsat.	0635	2-1-13	2
4.2.1.1	3	Rm. 305	> 1 mR/hr	(Sat) / Unsat.	0635	2-1-13	2
	4	Rm. 401	> 1 mR/hr	(Sat) / Unsat.	0635	2-1-13	P
	5	Rm. 206	> 1 mR/hr	(Sa) / Unsat.	0635	2-1-13	P
	6	Rm. 114	> 1 mR/hr	(Sa) / Unsat.	0675	2-)-13	P
	7	Rm. 319 W	> l mR/hr	(Sat) / Unsat.	0635	2-(-13	O
	8	Rm. 409	> 1 mR/hr	(Sa) / Unsat.	0635	2-1-13	P
	9	Rm. 208	> 1 mR/hr	(Sat) / Unsat.	0635	2-1-13	D
	10	Rm. 124	> 1 mR/hr	(Sat) / Unsat	0635	2-1-13	P
	11	Rm. 319 E	> 1 mR/hr	(Sa). / Unsat.	0635	2-1-13	D
	12	Rm. 420	> 1 mR/hr	(Sa) / Unsat.	0635	2-1-13	D
	13	Rm. 209	> 1 mR/hr	(Sa). / Unsat.	0635	2-1-13	Q
	14	Rm. 126	> 1 mR/hr	(3a). / Unsat.	0635	2-1-13	P
	15	Rm. 327	> 1 mR/hr	(Sat) / Unsat.	0635	2-1-13	7
	16	Rm. 429	> 1 mR/hr	(Sat) / Unsat.	0635	2-1-13	D
	17	Vault 17	> 1 mR/hr	🚱 / Unsat.	0635	2-1-13	P
4.2.2.1	18	Vault 18	> 1 mR/hr	🚱 / Unsat.	0635	2-1-13	7
	19	Vault 19	> 1 mR/hr	💋 / Unsat.	0635	2-1-13	J.
	20	Vault 20	> 1 mR/hr	(sat) / Unsat.	0635	2-1-13	P

Note: These readings SHALL be taken on the rate meters in rack RK-801-3 in the OC.

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# ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) (Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-344	Southeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sat. / Unsat.		8	8
4.1.3.2	Confinement Door DR-149	Northeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sak / Unsat.	0920	यार्व दी	74
- - -	Configuration Doct DB 100	Noth	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sal./ Unsat.	0852	Welsone State	¥
	Commented poor pre-192	ISAMILION	AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is \leq 30 seconds.	(Sat. / Unsat.	0852	2/10/12 2/	T

#### Surveillance Rounds

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# ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) (Page 2 of 2)

Sat or Unsat.	Completi on Time:
sition (Sak./ Unsat.	0855 Zialis ZA
Unsai.	0855 21913 RELL
Unsal.	0904 2/13/13 AL
Unsat	0900 21313
OC Operator Review and Page Count Complete	age Count
Und Date 2-13-15 Time: 1100	
	ime: 1/6
Exercise fully open and Verify that the door goes to the fully closvia the automatic door closure.  For each confinement door, VERIFY that one leaf of the door secured shut (NW, NE, SW, SE, south basement door).  AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is \$\leq 30\$ seconds.  Exercise fully open and Verify that the door goes to the fully closvia the automatic door closure. For each confinement door, VEI one leaf of the door(s) is secured shut (NW, NE, SW, SE, sou door).  Reviewed by:  ACCRASS Reviewed by:  ACCRASS Reviewed by:  ACCRASS ACCR	Sat or Unsat.  (s) is  (s) is  (Sat / Unsat.  (s) is  (Sat / Unsat.  Unsat.  (h basement  OC Operator Review and

### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

	4.1.1.3 4.1.2.3 <sup>2</sup>			_	$\begin{array}{c} 4.1.1.2 \\ 4.1.1.5 \\ 4.1.2.2^2 \end{array}$					$4.1.1.1$ $4.1.2.1^2$	_	SRs	allemak	whenev	taken o	)	
IRT Tunnel AP	South basement AP	North basement ΔP	IFIT Facility $\Delta P$	400 area laboratory PDI-852-1 or header AP PDI-852-2	300 area laboratory PDI-853-1 or header AP PDI-853-2	100 area laboratory PDI-802-1 or header $\Delta P$ PDI-802-2	200 area laboratory header $\Delta P$	400 area glovebox exhaust header ΔP	300 area glovebox exhaust header ΔP	100 area glovebox exhaust header ΔP	200 area glovebox exhaust header $\Delta P$	Description	allemate rols are used.	whenever possible. Document if	Gauge readings should be taken on rack #4 in the OC.	Note	
PDT-901 or PDI-901	PDI-854-1 or PDI-854-2	PDI-804-1 or PDI-804-2	PDI-865-4 or PDI-865-5	PDI-852-1 or PDI-852-2	PDI-853-1 or PDI-853-2	PDI-802-1 or PDI-802-2	PDI-803-1 or PDI-803-2	PDI-864-1 or PDI-864-2	PDI-870-1 or PDI-870-2	PDI-820-1 or PDI-820-2	PDI-814-1 or PDI-814-2	Gauge Acce					
< 0.00 in. wc	< 0.00 in. wc	< 0.00 in. wc	≤-0.05 in. wc	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:	
														AM PM	Mon.		
									_				_	AM PM	Tue.		(
												SURVEIL		AM PM	Wed.		
										,				AM PM	Thu.		•
D. 35	11.0	0,0	10.10.00	or- cx.0.	10, 2c, 7c, 0	1. T. O.	10.19	197 191	-8	189 131	7.00 I.s.	LANCE RESULTS (in. wc)	Core	AM PM	Fri.	2/1/13	
141 /35	7	<u>o</u> ,	19 -19	20.70	J. 12.	3. 3.	19 19	-197 191	-198 Van	1-89	1.03 2.01		<b>8 3</b>	AM PM	Sat.	02.02.13	
1987. 1841.	1. II.	01.	19:00	20 120	25	21 120	-18	198 198	197 191	03:	.2.06 J.D.A		SE 33	AM PM	Sun.	02.03-13	

## ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

		4.1.1.6			SRs	and 2021 and local p be used if F	FMT#15	Readings should b	:
Vault recirculation fan/ plenum	400 area re- circulation fan/ plenum	300 area re- circulation fan/ plenum	100 area re- circulation fan/ plenum	200 area re- circulation fan/ plenum	Description	and 202LD. Field vertication and local plenum PDIs may be used if FCS is unavailable.	FMT#151,152,201LD	Readings should be taken	Note
FR-811 Icon red and PDT-840 ΔP > .050 or FR-812 Icon red and PDT-841 ΔP > .050	FR-807 Icon red and PDT-838 ΔP > .050 or FR-808 Icon red and PDT-839 ΔP > .050	FR-805 Icon red and PDT-836 $\Delta P$ > .050 or FR-806 Icon red and PDT-837 $\Delta P$ > .050	FR-803 Icon red and PDT-833 $\Delta P > 0.050$ or FR-804 Icon red and PDT-835 $\Delta P > 0.050$	FR-801 Icon red and PDT-831 ΔP > .050 or FR-802 Icon red and PDT-832 ΔP > .050	Readings				
At least one fan/plenum is in service	At least one fan/plenum is in service	At least one fan/plenum is in service	At least one fan/plenum is in service	At least one fan/plenum is in service	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:
Sat	Sat	Sat	Sat	Sat Unsat			AM PM	Mon.	
Sat Insat U	Sat Jnsat [	Sat Jnsat [	Sat Jnsat [	Sat Unsat l			PM	Ď.	,
Sat Insat [	Sat Jnsat (	Sat Jnsat l	Sat Insat U	Sat Unsat l			AM PM	Tue	,
Sat Jnsat [	Sat Insat [	Sat Insat I	Sat Jnsat l	Sat Unsat l	_			.e 	
Sat Insat I	Sat Insat I	Sat Jnsat (	Sat Unsat l	Sat Unsat l	SURVE Sat./		AM PM	Wed.	
Sat Jnsat L	Sat Jnsat (	Sat Jnsat (	Sat Jnsat (	Sat Jnsat I				<u>.</u>	
Sat Jnsat (	Sat Jnsat (	Sat Jnsat U	Sat Jnsat [	Sat   Jnsat	ILLANCE RESULTS Unsat. (circle one)		AM PM	Thu.	
Sat (	Sat t	Sat Jnsat (	Sat (	Sat (	CE R (circl	_	PM	<u>-</u>	
Jnsat U	Sat U	Sat (	Unsat [	Sat Unsat U	ESUI	18	AM	Fri.	2/./,3
Sat U	Jnsat U	Sat U	Sat Unsat U	(Sat)	LTS e)	SAS	PM		
Sat (	Jnsat (	Jnsat (	Jinsat (	Sat Sat Sat Sat Sat Sat Sat Sat Sat Unsat		080 BC P80	AM PM	Sat.	02.02.13
(Sat) Unsat (	Sait Unsat U	Sat Unsat	(Sat) Unsat	San Jusat L		DAG	PM	<u>.</u>	ü
(Sat) Unsat	Cinsat (	Unsat U	(Insat	(Sat)	12	SE SE	AM PM	Sun.	02.03.13
(Sat) Unsat	Cinsat	(Sat) Unsat	(Sa) Unsat	(Sab) Unsat		3	PM	n.	73

### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

,			4.		70		be us	the C	)
			4.1.1.4		SRs	500	be used if no	ge read X wher	_
		and 400	< laboratory $\Delta Ps$ < basement $\Delta Ps$ for areas 100, 200, 300	Glovebox exhaust	Description		be used if necessary. Document any alternate	the OC when possible, local PDI equivalents may	Note
	400 Area	300 Area		200 Area	Area		ıt any alteı	equivaler	
Comple	PDI-864-2 PDI-852-2 PDI-854-2	PDI-870-2 PDI-853-2 PDI-854-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-814-2 PDI-803-2 PDI-804-2	Gauge		mate	ok #4 in	
Completion Time	PDI-864-2   PDI-864-2 < PDI-852-2   Unsat	PDI-870-2 PDI-853-2 PDI-854-2 PDI-854-2 PDI-854-2	PDI-820-2 PDI-820-2 < PDI-802- Unsat	PDI-814-2 PDI-803- PDI-804-2 PDI-804-2 2 < PDI-804-2	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:
	Sat Unsat	Sat	Sat Unsat	Sat			AM	Mon.	
	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat			PM	on.	
	Sat Unsat	Sat Unsat	Sat Unsat l	Sat Unsat			AM	Tue	
	Sat Unsat l	Sat Unsat	Sat Unsat	Sat Unsat			PM	i.e	
	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	SURVI Sat.		AM	Wed	
	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	RVEII Sat./U		PM	jā.	
	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	EILLANCE RESUI / Unsat. (circle one)		AM	Thu.	
	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	CE R (circl		PM	Ë	
0689	Unsat U	Vnsat (	Vinsat Unsat	Unsat U	/ Unsat. (circle one)	B	AM	Fri.	2/,
932	(Sat Unsat	(Sat) Unsat	Unsat I	(Sat) Unsat	TS,	900 BC	PM		13
one	Unsat 1	(Sat) Unsat Unsat	Sat Sat Unsat Unsat	Unsat I	)		AM	Sat.	2/1/13 02.02.13
068 1932 orac 1930 orac	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat (a) (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Unsat Unsat Unsat)		800 BC	PM	ř.	
520	Unsat	(Sah) Unsat	(Sat) Unsat	Unsat			AM	Sun.	02.03.13
1953	(Sat Unsat	(Sat) Unsat	(Sa) Unsat	(Sat) Unsat		CARO	РМ	n.	<del>5</del> .13

Comments:	Completed by: Dell Dull	Note: \(^1\) Mode 2 acceptance criteria is < 0.00 in. wc Note: \(^2\) SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2
	Date 43/3 Time 1953 Reviewed by Da	< 0.00 in. wc ode 2 in accordance with LCO 3.1.2.
	teviewed by On-duty Supervisor	> -
	Date	

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## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of  $(\ge -0.1; \le 0.1)$ . cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

			4.4.1.1	SR				
	(LCD Reading) (LED Reading)	(DET-305-3) - (CP-305H)	CP-305-H (LED Reading)	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Description / Gauge			
Completion Time:	≥ -0.1; ≤+0.1	Record Calculated Value		NA	Acceptance Criteria	Initials:	Weekday:	Date:
	Sat. / Unsat.						Mon.	
	Sat. / Unsat. Sat. / Unsat.						Tue.	
	Sat. / Unsat.				SURVEILLANCE RESULTS (percentage)		Wed.	
	Sat. / Unsat.				CE RESULTS		Thu.	
0734	🔊. / Unsat.	0.	0.3	0.2	(percentage)	gr.	Fri.	2-1-13
0807	Sat. / Unsat. Sp. / Unsat. The Unsat. (Sat.) Unsat.	-0.1	0.3	0.0		8	Sat.	02.02.13
0847	(Sat.) Unsat.	-0. (	6,3	9,	,	B	Sun.	2/3/13

## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

	4.1.5.4	2			4.1.3.4			4.1.3.4				4.1.3.4		4.1.3.4			4.1.3.4	SRs			
(FF859) ΔP	exhaust filter plenum	300 area special recovery glovebox		exnaust inter pienum (FF855) ΔP	300 area glovebox		(FF858) ΔP	recovery glovebox exhaust filter plenum	300 area special		exhaust lifer plenum (FF854) ΔP	300 area glovebox		810) AP	South Corridor	(HVP-841) AP	South basement	Description			
PDI-821-4	PDI-821-3	PDI-821-1	PDI-818-5	PDI-818-4	PDI-818-2	<sup>1</sup> PDI-818-1	PDI-819-4	PDI-81 9-3	PDI-81 9-1	PDI-817-5	PDI-817-4	PDI-817-2	<sup>1</sup> PDI-817-1	PDI-895-2	¹PDI-895-1	PDI-894-2	¹PDI-894-1	Gauge			
$\leq 2.0 \& > 0^1$ in wc	$\leq 2.0 \& > 0^1$ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	≤2.0 & > 0 <sup>1</sup> in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	≤2.0 & > 0¹ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Acceptance Criteria	Initials:	Weekday:	Date:
																				Mon.	
																				Tue.	
																		SURVI		Wed.	
																		SURVEILLANCE RESULTS (in. wc)		Thu.	
.3\$	.42	.39	28	نن	.36	. 23	STBK	\$7.64	57/34	Yev	STBY	5184	STBY	88	.06	4 8	.05	SULTS	Qn	Fri.	2-1-13
. 38	.42	. 40	, %	. 32	.30	, 23	STBY	STBU	STRY	1878	5784	STBY	×5784	. 88	. 08	8 17 .	.07		77	Sat.	2-2-13
.38	.42	, 39	, 200 000	2	. 70	, 23	5-24	82.15	2424	STAY	51734	1825	25.739	. 88	30.	. 48	,07		A	Sun.	2/3/13

## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

			4.1.1.7				4.1.3.4				4.1.3.4				4.1.3.4		SRs			
	filter plenum	300 area re-circulation	(**************************************	filter plenum	300 area re-circulation	(XX-020) DX	filter plenum	South Basement exhaust		(FF857) AP	400 area glovebox			exhaust filter plenum (FF856) ΔP	400 area glovebox		Description			
PDI-837-3	PDI-837-2	<sup>1</sup> PDI-837-1	PDI-836-3	PDI-836-2	<sup>1</sup> PDI-836-1	PDI-830-3	PDI-830-2	<sup>1</sup> PDI-830-1	PDI-823—5	PDI-823-4	PDI-823-2	<sup>1</sup> PDI-823-1	PDI-822-5	PDI-822-4	PDI-822-2	¹PDI-822-1	Gauge			
$\leq 2.0 \& > 0^1$ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Acceptance Criteria	Initials:	Weekday:	Date:
																			Mon.	
																			Tue.	
																	SURVI		Wed.	
																	SURVEILLANCE RESULTS (in. wc)		Thu.	
84.	50	. 60	.52	53	3	.30	35	.52	5704	4615	STBY	46135	44	.47	.50	. هې	STIUS	an	Fri.	2-1-13
. 48	. 50	(4)	. 5: 3	.56	. 87	, 31	.35	9.5.	STBY	STBY	STBY	57BY	. 49	242	٠٧٥	66		74	Sat.	2-2-13
,47	01	19,	, 52	22	.87	,3/	,35	56	STAY	11/18	15775	15:23	A,	17	ist	,65		A	Sun.	2/2/13

## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

		1							ement:	Non TSR requirement:
8	D	Se 18					lete (initials)	age Count Comp	OC Operator Review and Page Count Complete (initials)	00
0902	0826	25.00					. Completion Time			
is	. 50	.50					≤2.0 & > 0¹ in. wc	PDI -811 -3	(AF OLDER) CAL	
,52	. 5 2	is:					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI -811 -2	plenum	4.1.3.4
	./2	.12					$\leq 2.0 \& > 0^1 \text{ in. wc}$	<sup>1</sup> PDI -811 - 1	South Bleed off filter	
OFF	6FF	£50					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-810-3		
075	230	eff					$\leq 2.0 \& > 0^1$ in. wc	PDI-810-2	plenum ( FF-822A) AP	4.1.5.4
279	340	089					$\leq 2.0 \& > 0^{1} in. wc$	'PDI-810-1	South Bleed off filter	-
141	141	TH.					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-839-3	( ** * * * * * * * * * * * * * * * * *	
, <del>V</del>	.4)	14.					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-839-2	filter plenum	
,27	127	.23					$\leq 2.0 \& > 0^1 \text{ in. wc}$	¹PDI-839-1	400 area re-circulation	
,38	,38	%					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-838-3		4.1.1.7
.41	. 41	-41					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-838-2	filter plenum	
,28	, 12 8	18					$\leq 2.0 \& > 0^1 \text{ in. wc}$	¹PDI-838-1	400 area re-circulation	
		ESULTS	SURVEILLANCE RESULTS (in. wc)	SURVI			Acceptance Criteria	Gauge	Description	SRs
1	79	GW.					Initials:			
Sun.	Sat.	Fri.	Thu.	Wed.	Tue.	Mon.	Weekday:			
3 2/	2-2-13	2-1-13					Date:			

'Non TSR requirement:

Note: SR 4.1.1.7 applies Auring mode Las Stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Date <u>2/17/13</u> Time <u>098</u>

Reviewed by:

On-duty Supervisor

Date 25-15 Time: 0820

Comments

Completed by:

Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 1 of 4)

'Sp	<u>ئ</u>	.49					≤2.0 & > 0¹ in. wc	PDI-809-3	(K.K. OHVB) CA	
23	.53	.52					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-809-2	plenum (FF-820R) AP	4.1.5.4
9	.07	.07					≤2.0 & > 0 <sup>1</sup> in. wc	<sup>1</sup> PDJ-809-1	North Riged off filter	
7	8	270					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-807-3	(FF-820A) AF	
OF P	87	250					≤2.0 & > 0 <sup>1</sup> in. wc	PDI-807-2	North Bleed off lifter	4.1.5.4
97	OFF.	27,0					$\leq 2.0 \& > 0^1 \text{ in. wc}$	'PDI-807-I		
Ē	. 49	49					≤2.0 & > 0 <sup>1</sup> in. wc	PDI-832-3		
S	·x	.51					$\leq 2.0 \& > 0^{1} \text{ in. wc}$	PDI-832-2	filter plenum (HVP-802) AP	
Ä	4	. 43					$\leq 2.0 \& > 0^{1} \text{ in. wc}$	¹PDI-832-I	200 area re-circulation	
55:	.35	,35					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-831-3		
Ŧ	. <del>U</del>	, 40					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-831-2	filter plenum	
B	3	ن -					$\leq 2.0 \& > 0^{1} \text{ in. wc}$	<sup>1</sup> PDI-831-1	200 area re-circulation	
Sta	STRA	STBY					≤2.0 & > 0¹ in. wc	PDI-841-3	(*** * ***) ***	
SHE	KERS	V875					≤2.0 & > 0 <sup>1</sup> in. wc	PDI-841-2	filter plenum	
SHbX	KAES	STBY					≤2.0 & > 0¹ in. wc	¹PDI-841-1	Vault re-circulation	4.1.1.7
Ò	is.	.51					$\leq 2.0 \& > 0^{1} \text{ in. wc}$	PDI-840-3		
S	.5	٠\$٦					≤2.0 & > 0 in¹. wc	PDI-840-2	filter plenum (HVP-811) AP	
. 16	16	.16					$\leq 2.0 \& > 0^{1} \text{ in. wc}$	¹PDI-840-1	Vault re-circulation	_
		ESULTS	SURVEILLANCE RESULTS (in. wc)	SURVI			Acceptance Criteria	Gauge	Description	SRs
S wy	8ª	Que					Initials:			
Sun.	Sat.	Fri.	Thu.	Wed.	Tue.	Mon.	Weekday:			
exco/eo	02.02.13	2-1-13					Date:			
					(Page 1 of 4)	(Fage				

Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 2 of 4)

			,		( , , , , , , )					
			Date:					7-1-13	02.02.13	02/03/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					Jan	80	N/A
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS		
		1PD1-829-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$					40.	عاص .	06
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$					.12	.22	8
	Ş	PDI-829-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$					.21	.2	Ŋ
	100 area re-circulation	<sup>1</sup> PD1-833-1	$\leq 2.0 \& > 0^1$ in. wc					58	.86	.96.
	filter plenum	PDI-833-2	$\leq 2.0 \& > 0^{1}$ in. wc					.45	4	矛
4.1.1.7	(XX YX -000) CXX	PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$					<b>.</b> 45	47	东
	100 area re-circulation	<sup>1</sup> PDI-835-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$					12	·12	, , ,
	filter plenum	PDI-835-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$					. 42	4	Fi
	(**************************************	PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$					, <del>4</del> 0	01.	j.
		¹PD1-815-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$					./8	. P	14
4.1.3.4	100 area glovebox	PDI-815-2	≤2.0 & > 0 <sup>1</sup> in. wc					.39	.39	3
	exhaust filter plenum (FF852) AP	PDI-815-4	≤2.0 & > 0 <sup>1</sup> in. wc					.32	.32	65.
		PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$					.38	.38	ÿ
		¹PDI-816-1	≤2.0 & > 0 <sup>1</sup> jn. wc					STBY	haks.	S
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$					STBY		Stay
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$					SPBY		S
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$					STBY		St

#### Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

E	.40	.40					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-863-2	(HVP-863) ΔP	7.1.J.4
.06	.06	.06					$\leq 2.0 \& > 0^1 \text{ in. wc}$	<sup>1</sup> PD1-863-1	IFIT supply filter plenum	4134
. Fo	.4o	. 40					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-865-3		
تر	.32	.32					$\leq 2.0 \& > 0^{1} in. wc$	PD1-865-2	(FF-865) ΔP	4.1.3.4
.03	8	,04					$\leq 2.0 \& > 0^1 \text{ in. wc}$	¹PDI-865-1	IFIT exhaust filter plenum	4134
i) OCi	Ċ	120					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-813-5		
روا م	.29	.29					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-813-4		
مهر	.26	25					≤2.0 & > 0 in. wc	PDI-813-3		4.1.3.4
ij K	.28	, ,					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-813-2	exhaust filter plenum (FF851) $\Delta P$	
િહિટ	Ė.	.62					$\leq 2.0 \& > 0^1 \text{ in. wc}$	¹PDI-813-1	200 area glovebox	
Sty	প্ৰস্কু	S7B4					$\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-812-5		
Stby	SARS.	1815					$\leq 2.0 \& > 0^{1} \text{ in. wc}$	PDI-812-4		
Stay	STR	5781					$\leq 2.0 \& > 0^{1} \text{ in. wc}$	PDI-812-3		4.1.3.4
J.	SIB	5784					$\leq 2.0 \& > 0^{1} \text{ in. wc}$	PDI-812-2	exhaust filter plenum (FF850) $\Delta P$	2
Sthr	SBY	STBY					$\leq 2.0 \& > 0^1 \text{ in. wc}$	¹PDI-812-1	200 area glovebox	
		surrs	SURVEILLANCE RESULTS	SURVE			Acceptance Criteria	Gauge	Description	SRs
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	82	W					Initials:			
Sun.	Sat.	Fri.	Thu.	Wed.	Tue.	Mon.	Weekday:			
03/03/18	02.02.13	2-1-13					Date:			
					, ,	(2, 20, 2)				

Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 4 of 4)

. 00		4.3.2.2	NA C		4.1.3.4	4.1.3.4	3	SRs			
OC Operator Re		Rooms 201, 204, 206, & 207	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE822B, FE822C	(HVP-809) ΔP	North corridor supply	(HVP-840) ΔP	North Basement supply filter plenum	Description			
view and Page (				PDI-856-2	<sup>1</sup> PDI-856-1	PDI-857-2	¹PDI-857-1	Gauge			
OC Operator Review and Page Count Complete (initials)	Completion time	o lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	$\leq 2.0 \& > 0^1$ in. wc	≤2.0 & > 0¹ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Acceptance Criteria	Initials:	Weekday:	Date:
,										Mon.	
										Tue.	
								SURV		Wed.	
								SURVEILLANCE RESULTS		Thu.	
S.	08/0	SAT	SAT	69	ره.	٠ باري	- 14	ESULTS	Jm	Fri.	2-1-13
No. of the last of	280	ŠĄ.	\$	.69	Ö	45	.[d	•	82	Sat.	02.02.13
N. N	0910	ž	S	69	ġ	话	, LY		Š.	Sun.	02/03/3

Comments:

Completed by: Michael Trosh Date 0903B Time 0411 Reviewed by: Date On-duty Supervisor

## ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

			M.	M&TE Calibrated Data	ed Data						
	PF-10 Thermometer File No.:	No.: 039745		PF-10 Thermistor File No.:	or File No.:	042	042254	V-701 The	V-701 Thermistor File No.:	П	040373
Record September	mber Calibration Expiration Date:	Date: 5/14/13		Calibration Expiration Date:	ration Date:	5/3	5/30/13	Calibration	Calibration Expiration Date:		8/13/13
through April only	only PF-11 Thermometer File No.:	No.: 039746		PF-11 Thermistor File No.:	or File No.:	240	040376	V-704 The	V-704 Thermistor File No.:		039744
	Calibration Expiration Date:	Date: 6/13/13		Calibration Expiration Date:	ration Date:	6/	13/13	Calibration	Calibration Expiration Date:		8/13/13
	PF-10 & P	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	Room Temperat	ure and V-701	& V-704 Fir	e Water Sto	rage Tank T	emperature			
				Date:					2/1/13	ElPete	2/3/13
	Daily (September through April only)		Wee	Weekday: M	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			In	Initials:					7+5	B	h
SR De	Description		Acceptance Criteria	eria							
NA EN and	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.		Calibration dates have not elapsed.		SAT /UNSAT SAT	SAT /UNSAT	SAT /UNSAT	SAT /UNSAT	CAT UNSAT (	SATIONSAT	(SAT/UNSAT (SAT/UNSAT
4.3.1.1 RE	RECORD fire water storage tank V-701 temperature	perature	≥ 42.1 F						45.5	46.5	024
4.3.1.1 <sup>1</sup> RE	RECORD fire water storage tank V-704 temperature	perature	≥ 42.1 F						46.7 "	45.8	45,5
4.3.1.3 <sup>1</sup> RE	RECORD PF-10 room temperature		≥ 50.1 F						58.2	1:85	59.4
4.3.1.3 <sup>1</sup> RE	RECORD PF-11 room temperature		≥ 50.1 F						62.9	61.4	61.9
			Completion Time:	Time:					0830	0830	5400

Completed by: Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent). Date 0/3/13 Time OSON

Date: 2-5-13

Time: 082-3

OC Operator Review and Page Count Complete (initials)

Reviewed by:

Reviewed by:
On-duty Supervisor

Comments:

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

	$4.1.1.3$ $4.1.2.3^2$				$4.1.1.2 \\ 4.1.1.5 \\ 4.1.2.2^{2}$				,	$4.1.1.1$ $4.1.2.1^2$		SRs	alternate P	whenever	Gauge re	)
IRT Tunnel AP	South basement $\Delta P$	North basement ΔP	IFIT Facility AP	400 area laboratory PDI-852-1 or header AP PDI-852-2	300 area laboratory PDI-853-1 or PDI-853-2	100 area laboratory header ΔΡ	200 area laboratory header ΔP	400 area glovebox exhaust header ΔP	300 area glovebox exhaust header AP	100 area glovebox exhaust header ΔP	200 area glovebox exhaust header ΔP	Description	alternate PDIs are used.	whenever possible. Document if	Gauge readings should be taken on rack #4 in the OC	Note
PDT-901 or PDI-901	PDI-854-1 or PDI-854-2	PDI-804-1 or PDI-804-2	PDI-865-4 or PDI-865-5	PDI-852-1 or PDI-852-2	PDI-853-1 or PDI-853-2	PDI-802-1 or PDI-802-2	PDI-803-1 or PDI-803-2	PDI-864-1 or PDI-864-2	PDI-870-1 or PDI-870-2	PDI-820-1 or PDI-820-2	PDI-814-1 or PDI-814-2	Gauge Accep				
< 0.00 in. wc	< 0.00 in. wc	< 0.00 in. wc	≤-0.05 in. wc	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:
-, 132	<u></u>	1.10	7	.\	7.	7.	119	-497	-1.98	-1.89	-2.07	-	B	AM		2/4
-132 M3 -134 TH2 0.59 -108	-1/2	. 10	7.19	۰,20	-25 -25	ا له-	81.70C=	-497 -197 7.97	26:1-861-86:1-	-187	26-2.05-26.207		B	AM PM	Mon.	214/13
-, 134	-11	0	-18	~ 20 ~ 20°	. 24	-6		1.97	26.1-	-187-1.88	-2,05		N	AM	Tue	2/5/13
145	11.	-10	7.7	20	24	ريد ا <b>لا:</b>	,0/s	-1.77 Tad	-1.98 1.99	-1.891. P.S.	-2,16		P	AM PM	ıe.	1/13
,0,0%	0//	,0,10	9/9	0,20	0.22		10/5	194	ا مم	)\B9	1.07	SUR	B	AM PM	Wed.	2/6/13
1/20	3	16	10	6	1/2	.5	.19	20	100	1.06	300	VEII	0000	PM	ed.	//3
0/2	6/	Ø,	,0,1s	`o. 40	Se'0.	,4.0,	, S.	1,98	7.98	,\@	20	SURVEILLANCE RESULTS	8/	AM	Thu.	2/7
-14.	3	.6	10	.5.	5.	12	3.	500	120	1.00	بئ	Wc)	280	PM	ir.	3
32.0	11.0	0.10	0.19	اه م	5	100	10,19	12	20%	128	,5°	ŒSU	B	AM PM	Fri.	2/8/13
740 2137	4	10	-9	120	3	1.21	11-11-	-1,97 -1.98	1981-1891-	-1.89	<i>2</i> 0 80	LTS	P	PM	· · ·	
	7	0	1.19	21,	. 23	1,2		-1.98	1921	-1.89	200,200		8	AM	Sat.	2/9/
-142-136	1	-10	51.	7	32	- 20	18-19	200-1.95	26:1-86.1-	281-067-	シャイルの	-	P	PM	t.	13
: (36	17	1.10	19	21.0	12	1,21	المالة		24:1-	28.1	7.05		8	AM	Sun.	1/6
735	1.	10	10	٠, ١	.25	-22	720	-1,9%	-1.98	190	203		4	PM	n.	10/13

## **ATTACHMENT A: Per Shift Surveillance Rounds**

(Page 2 of 3)

					4.1.1.6					SRs	and local pl and local if F	FMT#151	Readings should busing FCS screens	:	
Vault re- circulation fan/ plenum		plenum	400 area re- circulation fan/	plenum	300 area re- circulation fan/	plenum	100 area re- circulation fan/	plenum	200 area re- circulation fan/	Description	and 2021. The divernication and local plenum PDIs may be used if FCS is unavailable.	FMT#151,152,201LD	Readings should be taken using FCS screens	Note	
Or FR-812 Icon red and PDT-841 $\Delta$ P > .050	PDT-839 ΔP >.050 FR-811 Icon red and	FR-808 Icon red and	FR-807 Icon red and PDT-838 $\Delta$ P >.050 or	FR-806 Icon red and PDT-837 $\Delta P > .050$	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	FR-804 Icon red and PDT-835 ΔP > .050	FR-803 Icon red and PDT-833 AP > .050 or	FR-802 Icon red and PDT-832 $\Delta P > .050$	FR-801 Icon red and PDT-831 ΔP >.050 or	Readings					
fan/plenum is in service			At least one fan/plenum is in	service	At least one fan/plenum is in	service	At least one fan/plenum is in	service	At least one fan/plenum is in	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:	
Unsat Unsat Unsat Unsat Unsat		I Incat I Incat I Incat I Incat I Incat	(S) (S)	Unsat Unsat Unsat Unsat Unsat	(S)	Unsat Unsat Unsat Unsat Unsat		Unsat Unsat Unsat Unsat Unsat	Sy San		9	AM PM	Mon.	2/4/13	
at Unsat U		at I Incat I	(Sa)	at Unsat L	<b>(A)</b>	at Unsat U	@	at Unsat L	Sã		B	1 AM PM	Tue.	2/5/1	1 480 H OT 0
Jnsat U	3	l I sau	<u></u>	Jnsat U	<u>&amp;</u>	Jnsat U		Jnsat U	<b>®</b>		P			U	(0.10)
Jnsat U		neat I J	Sat	'nsat U	Sat	insat U	Sat	Insat U	Sat	SURVEII Sat. / U	8	AM PM	Wed.	2/16/13	
		$\overline{}$	(S)				San		Sar	EILI / Un	245		-		
nsat Ur		nsat II Ir	Sat S	nsat Ur	(Sat)	nsat Ur	(Sax)	nsat Ur	<u> </u>	ANC sat. (	13	MP	Thu.	2/7/	
Jnsat Unsa	9 8	sat I In	Sail Sail	ısat Un	Sat Sat	ısat Un	Sap Sap	ısat Un	<u></u>	Sat. / Unsat. (circle one)	000	MA		2	
sat Unsa		sat II Inc	Sait Sait	sat Uns	Sa)	sat Uns	Say	sat Uns	Sat Sat	ILANCE RESULTS Insat. (circle one)	0	M PI	Fri.	2/7/13 2/8/13	
sat Unsat	2)	at I Ins	San	sat Uns	San	sat Uns	San	sat Uns		S	N	MAN			
at Unsat		at II Insa	(a)	at Unsa	San	at Unsa	(Sat)	at Unse	Sat	,	5	1 PM	Sat.	2/9/13	
Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat		[ Insat   I Insa	Sar	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	Sal	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	<b>®</b>	Unsat Unsat Unsat Unsat Unsat Unsat Unsat	<b>(2)</b>		B	AM PM AM PM AM PM AM PM	S	21	
t Unsat	9	- Insat	Sar	Unsat	(Sat)	t Unsat	Sat	t Unsat	Sat		P	PM	Sun.	10/13	

### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

0729 1930 10730 1930 1023 1933 1629 1940 10737 1930 1930 1930 1930 1930 1930	025	1930	いる	1930.	0737	Chy	229	1933	0623	1980	6730	1930	0779	Completion 1 mile	Compie			
Sat	(Sat) Unsat	Unsat Unsat Unsat Unsat	(Sat) Unsat	Unsat	(Sat) (Sat) Unsat Unsat	(Sat) Unsat	(Sat) 824 Unsat Unsat	(Sat) Unsat	(Sat Unsat	Unsat	Unsat	Unsat	Unsat	PDI-864-2 PDI-852-2 PDI-864-2 < PDI-852- PDI-854-2 2 < PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2	400 Area		
(a) Unsat	(San) Unsat	(sat) Unsat	(Sat) Unsat	Sat San Sat	Unsat	(Sab Unsat	Unsat	(Saf) Unsat	(Sat Unsat	Unsat	Unsat	U Sat		PDI-870-2 PDI-853-2 PDI-854-2 PDI-854-2 PDI-854-2	PDI-870-2 PDI-853-2 PDI-854-2	300 Area	and 400	
(sat) Unsat	(Sa) Unsat	Unsat Unsat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) (Sat) (Sat) Unsat Unsat Unsat	(Sat) Unsat	Unsat	(Sat) Unsat	Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Unsat	PDI-820-2 PDI-820-2 < PDI-802- Unsat	PDI-820-2 PDI-802-2 PDI-804-2	100 Area	< laboratory ΔPs < basement ΔPs for areas 100, 200, 300	4.1.1.4
(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Unsat	Unsat	Unsat	Unsat	(Sat Unsat	Sat Unsat	(Sat) (Sat) Unsat Unsat	(Sat) Unsat	Unsat		PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-814-2 PDI-803-2 PDI-804-2	200 Area	Glovebox exhaust header $\Delta Ps$	
}	) (		}	LTS	SURVEILLANCE KESULTS Sat. / Unsat. (circle one)	NCE A	[LLA] Unsat	RVEJ Sat./	SU	}				Acceptance Criteria	Gauge	Area	Description	SRs
9		P	130	P	2	8 000 00 - 000B	B	995.	B	9	B	P	19	Initials:				i Dia dacd.
PM	AM	PM	AM	PM	AM	PM	AM	.PM	AM	PM	AM	PM	AM	Shift:	mate	nt any alte	be used if necessary. Document any alternate	be used if no
Sun.	Sı	Sat.	Š	Fri.	מי	Thu.	н	Wed.	٤	Tue.	-,	Mon.	Z	Weekday:	nts may	ken on ra I equivale	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	Gauge read the OC wher
113	2/9/13 2/10/13	26/	2/9		d/1/13 2/8/13	2//2	Q.	8/6/13	2/6	13	2/5/13	2/4/13	2/4	Date:		•	Note	)

Comments:	Completed by:	Note: 2 SRs 4.1.2.x only apply during mode 2 in accord
	4	apply during
	Date 1013 Time 1930 Reviewed by:	Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.
	e 1930	th LCO 3.1.2.
	Reviewed by: Date 2-11-15 Time: 0780	
	ime: 0780	

Surveillance Rounds

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#### ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (>-0.1; <0.1). cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system

			4.4.1.1	SR				
	(LCD Reading) (LED Reading)	(DET-305-3) - (CP-305H)	CP-305-H (LED Reading)	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Description / Gauge			
Completion Time:	≥ -0.1; ≤+0.1	Record Calculated Value		NA	Acceptance Criteria	Initials:	Weekday:	Date:
74	(Sat.)/ Unsat.	0.0	0.2	0,2		77	Mon.	2-4-13 2-5 43
0800	(Sat)/ Unsat. (Sat)/ Unsat.	6.0	0.2	0,2	(0	<b>*</b>	Tue.	2-5 43
0759	Sat. / Unsat.	0.0	0.2	0.2	SURVEILLANCE RESULTS (percentage)	of	Wed.	2-6-13 2/
0828	Sat / Unsat.	0.0	0.2	0.2	CE RESULTS	In	Thu.	2/1/13
0759 0805	Sat. Unsat.	- O. /	ю. О	0,2	S (percentage)	7.6	Fri.	2-8-13 2/9/13
	Sat. / Unsat. (Sat. / Unsat.	0,7	0.3	0,7		A	Sat.	2/9/13
0848	(Sat) / Unsat.	o,	0.5	0.2		8	Sun.	2-10-13

Surveillance Rounds

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## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

SRs	Description	Gauge	Weekday: Initials: Acceptance Criteria	2-4- Mon.	4-13 Mon.	7 YM	13 2-5 13 2-4 Tue W	13 2-5 13 2-4 Tue W	13 2-5 13 2-4-13 2, Tue. Wed. SURVEIL	13 2-5-13 2-4-13 2/2//3 2.  Tue. Wed. Thu.  SURVEILLANCE RESUL
S	Description	Gauge	Acceptance Criteria							
4.1.3.4	South basement supply filter plenum	¹PDI-894-1	≤2.0 & > 0¹ in. wc	٥٥.		.06			. 0 (	, 30, 40.
	South Corridor	¹PDI-895-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	8 P P P P P P P P P P P P P P P P P P P		, 46 , 37	70. TO.	•	.0.7	.07 .07
4.1.3.4	810) AP	PDI-895-2	≤2.0 & > 0 <sup>1</sup> in. wc	83 99		& 9	.6939	39	. 39	. 39 . 88 . 89
		<sup>1</sup> PDI-817-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY		STLY	STBY ST M	STAY	STAY STBY S	STAY STBY STBY
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY		KAIS	57	4013	5704 STB4	4215 ABIS ABIS
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ST BY		SIGY		1818	5187 S134	न्तरा इम्हर इम्हर
		PDI-817-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY		ASTIS	হাজ সন্ধ	2	77 M STBY	7764 5764 5784
	300 area special	PD1-81 9-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY		Y815	SIBY 57.67	57/57	57.51 <b>S</b> TBY	57157 STBY STBY
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	≤2.0 & > 0 <sup>1</sup> in. wc	5 7 84		SIBY	SIEN MM	<u> </u>	X1 tx1 27 BY	MM STBY STBY
	(FF858) ΔP	PDI-819-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5 T BY		1815	12013 1815	1201.5	1801.5	ABIS LULS
		¹PDI-818-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 23		,23	.25	. 25	. 25 .24	. 25 .24 . 25
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 30		. 29	.29 .30	. 30	. 30	. 30 .30
	exhaust filter plenum (FF855) AP	PDI-818-4	$. \le 2.0 \& > 0^1 \text{ in. wc}$	. 3/		ک	.3/ ,32	رون	.32 .37	.32 .32
		PD1-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 12 80		.27	.27 .29		.29	.29 .18
	300 area special	PD1-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 40	-	.39			. 39	. 39
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^{1}$ in. wc	. 43		.42	.42	.45	.45	.45 .43
	(FF859) ΔP	PDI-821-4	$\leq 2.0 \& > 0^1$ in. wc	.39		, 39	.39		. 39	. 39 .39

#### Surveillance Rounds

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## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

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			4.1.1.7				4.1.3.4				4.1.3.4				4.1.3.4		SRs			
	filter plenum ( HVP-806) AP	300 area re-circulation		filter plenum	300 area re-circulation		filter plenum	South Basement exhaust		(FF857) ΔP	400 area glovebox			exhaust titter plenum (FF856) $\Delta P$	400 area glovebox		Description			
PDI-837-3	PDI-837-2	¹PDI-837-1	PDI-836-3	PDI-836-2	¹PDI-836-1	PDI-830-3	PDI-830-2	¹PDI-830-1	PDI-823—5	PDI-823-4	PDI-823-2	<sup>1</sup> PDI-823-1	PDI-822-5	PDI-822-4	PDI-822-2	¹PDI-822-1	Gauge			
$\leq 2.0 \& > 0^1$ in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	≤2.0 & > 0¹ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1}$ in. wc	Acceptance Criteria	Initials:	Weekday:	Date:
, 4	, 50	.61	° 57	55.	7.8.7	.30	. 35	, 56	5787	STBY	5.781	5787	- 49	.42	. 24	6 Vi		74	Mon.	2 - 4-E
L	ર્જ	<u>e</u> .	,52	.56	1.8	.30	(N)	.56	SIBY	ASTS	SIGY	हाहर	.49	,42	Ŝ	. 65		3	Tue.	3-5-1
45	.50	.60	152	٠ ٣ ٢	88	. 3 (	. 3 ~	. 65	4205	भुवा	57127	57124	. <b>4</b> 9	47	.2	. 65	SURV	<u>ئ</u> ج	Wed.	2-1-13
	.50	6	.52	13	.87	يا	ند. ان	.55	5734	4872	<b>5</b> 787	STBY	<b>6</b>	.42	:5)	.64	SURVEILLANCE RESULTS	Im	Thu.	2/2/13
3 0×	, v	. 61	, 52	52	6 ½ 3	.30	,32	156	STBY	5 T BY	STBY	STBY	.49	. 42	.50	: 65	ESULTS	77	Fri.	2-8-13
. 50	50	,60	.50	.50	. 88	.30	50	.52	5884	STBY	57784	7007	.50	.40	.50	:65	-	N	Sat.	2/9/13
×	50	,60	:52	:51	88,	.30	.32	S	Norls	STORY	STBY	STG.Y	841	24	. 50	.65		۶	Sun.	2-10-13

#### Surveillance Rounds

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## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

			Weekday:	Mon	Tue.	Wed		Thu	Fri	Fri.
			Weekday:	Mon.	Tue,	Wed.		Thu.		Thu.
			Initials:	T G	3	ne		Que	7	Gar
SRs	Description	Gauge	Acceptance Criteria				SURVI	SURVEILLANCE RE	RVEILI	SURVEILLANCE RESULTS (in. wc)
	400 area re-circulation	¹PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	. 22	35.		78	.28 ,28		.28
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^{1} in. wc$	١ ٢ ١	<u>.</u>		١٢.		14.	.40
4.1.1.7	( HYE-90/) AE	PDI-838-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 38	. 36		. 38			.38
	400 area re-circulation	¹PDI-839-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	2 80	. 27	l	.27	7	77	27 27
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	13.5	<u>.</u>		٠ ۲		.41	F
	( xx + 1 -000) ax	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	1 10.	· 14		٠٢١			.41
	South Bleed off filter	¹PDI-810-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	979	© FI		140		25.0	250
4.1.3.4	plenum (FF-877A) AP	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc	OFF	041		740	130 110		0££
	(AR OWEG) GA	PDI-810-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	off	1	ot		0£±	0FF 6FF
	South Bleed off filter	1- 118- IGd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. /2	.12		. /2	12 .13	,	.12
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	152	. કડ		. 52	. 52 .52		.5%
	(FF-022B) AX	PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 51	.51		.50		•5)	•51
			. Completion Time	0900	0837		0 % 13	0813 0840	813 0840 816	813 0840 0
00	OC Operator Review and Page Count Complete (initials)	Jame Count Co	molata (initiale)	2	3	-	6	The same of the sa	The Car	1 Section of the sect
		age Coult Co	mpre (minas)	00	_	10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 11 KM - MM	- 11 KB - MO 11 C	- 1 B B B B B B

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode, 2 as stated in LCO 3.1.3.

Completed by:

Comments

Date 2-1475 Time 0910

Reviewed by:

Date 2-11-13 Time: 0705

On-duty Supervisor

Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 1 of 4)

				(1 agc	1 age 1 OI +)					
			Date:	2-4-13	25-73	2-6-13	2-7-13	2 8 13	\$V60/40	EVOVER
			Weekday:		Tue.	Wed.	Thu.		Sat.	Sun.
			Initials:	76	3	77	<b>≯</b>	\$ 7	Z A	3 (3)
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	- 14	· } 6	6	.16	, 16	۵)۱۰	ماراه
	filter plenum	PDI-840-2	$\leq 2.0 \& > 0 \text{ in}^1 \text{ wc}$	, 52	.52	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	32	, 52	55	V ·
	(**************************************	PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.5)	5	. 5/	. S	, 5. /	S	·S/
4.1.1.7	Vault re-circulation	'PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	SCRY	STBY	S16/	5784	Str	Coby
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5484	Site	STBY	5761	5784	SE SE	9
	) (710-14H)	PDI-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5164	SIBY	કાહેર	STRY	Sthy	CF.
	200 area re-circulation	¹PD1-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	w 22	.3)	- 3/	W	31	14.	37
	filter plenum	PDI-831-2	$\leq 2.0 \cdot \& > 0^1 \text{ in. wc}$	141	Ŀ	. 4)	·41	14,	王	主
	(*** * * * * * * * * * * * * * * * * *	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 38	.37	, 38	31	, 37	37	3
	200 area re-circulation	¹PDI-832-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 23	.23	نز ک	.23	, 23	4	
	filter plenum	PDI-832-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	٠, ١	.8	, 5,	.52	. 5/	Ė	£
	(22.2)	PDI-832-3	$\leq 2.0 \& > 0^{1} in. wc$	64,	. HG	.49	.50	, 49	140	\$
		¹PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	470	C A	ع يرن	017	710	SF.	7
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	0 = 1	966	086	OFF	077	7	7
	(FF-820A) ΔP	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	077	OA A	220	OPF	OFF	40	7
	North Blood off filter	¹PDI-809-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.67	.07	: 07	. 0	,06	.06	8
4.1.3.4	plenum (FF-820B) AP	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,52	55	+ 53	,52	5 5.	55%	53
		PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	64.	.50	. 50	, H 4	, 49	15	59

Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 2 of 4)

				,						1
			Date:	2-4-13	2-5-13	2-6-13	2-7-13	2-8-13	5120/E0	09/10/13
			Weekday:	Mon.	Tue.	Wed.	Thu.			Sun
			Initials:	16	3	76	7 7	79	× ( × )	3 3
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS	I	7
	North Bosomont achoust	¹PDI-829-I	$\leq 2.0 \& > 0^1 \text{ in. wc}$	89,	. 06	79,	. 06	,06	900	30,
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.21		3	. 2/	.2\	U .
	ţ	PDI-829-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 22	. 20	٠ % ٥	. 20	, 20	S	, A
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 85	58.		. 65		, ECO	É
	filter plenum	PDI-833-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 49	.46	. 48	٠٣٠		Î,	5
4.1.1.7	(**** 000) 6**	PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	44,	,45	34.	.T		15	步
	100 area re-circulation	<sup>1</sup> PDI-835-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 12	i.	, 13	(û	. /3	Ú	į.
	filter plenum	PDI-835-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	-42	.42	٠ 42	44.	141	占	H.
	(** * * * * * * * * * * * * * * * * * *	PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, H )	.41	.41	. Ho	, 40	, TO	-FO
		¹PDI-815-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 19	, 19	. 19	. 19	. 19	19	19
4.1.3.4	100 area glovebox	PDI-815-2	≤2.0 & > 0 <sup>1</sup> in. wc	, 4¢	.40	, 39	. 39	041	F	E
	exhaust lifter plenum (FF852) $\Delta P$	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	કું 2	24	s 3 2	. 32	, 32	.32	J 7
		PDI-815-5	≤2.0 & > 0 <sup>1</sup> in. wc	, 38	.37	, 38	36	, 38	,34	34
		'PDI-816-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5784	1,515	5781	<b>1818</b>	5 T BY	SET	St PX
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	5781	SWY	STBY	Sty	£
	exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0 <sup>1</sup> in. wc	5784	YBIS	5784	Kajs	5784	STE	8
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STRY	<b>1935</b>	5784	STBY	STBY	SH X	Stay

Surveillance Rounds

Page 32 of 38

## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 3 of 4)

			Date:	2-4-13 2-5-13	2-5-13	2-6-13	2-7-13	2-8-3	02/09/13	CACAS
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	74	~ X	75	<b>*</b>	77	541	5 31
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
	200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	<b>1915</b>	5787	Y81.5	5781	SHV	Stay
	exhaust filter plenum (FF850) $\Delta P$	PDI-812-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	1815	7-815	5784	STBY	5784	XGFS	96/
4.1.5.4		PDI-812-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5784	KSIS	5784	Susy		SHS	St.
		PDI-812-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5184	Yals	57B1	ARIS	5734	745	Sh.
		PDI-812-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5784	SIBY	5781	5167	5+81	545	GHZ -
	200 area glovebox	'PDI-813-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 63	.63	, 64	. 64	,64	F.	F
	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	- - :: ::0	.78	, 29	.29	. 28	AC.	铲
4.1.3.4		PDI-813-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	2.8	. 28	). ). ).	.29	> &	35	净
		PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 29	.29	, 29	. 29	, 29	ŏ	23
		PDI-813-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	٠ 2 ن	.21	. 21	.21	. 20		i)
	IFIT exhaust filter plenum	¹PDI-865-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	404	.03	. 03	.03	, o 4	ig .	G Y
4.1.3.4	(FF-865) ΔP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 32	, 34	, 32	.32	32	(5)	3
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.40	ok.	. 4 G	,40°	, 40	8	£.
	IFIT supply filter plenum	<sup>1</sup> PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.06	. 06	.06	,06	,06	Ö	8
4.1.3.4	(HVP-863) ΔP	PDI-863-2	$\leq 2.0 \& >0^{1} \text{ in. wc}$	. 40	, H0	, 40	. 40	. 40	H	· &

## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 4 of 4)

				7	101.					
			Date:	2,4-13	2-5-13	2-6-13	2-7-13	2-8-13	2/20/20	0a/0/2
			Weekday:		Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	74	7	79	¥	74	7 31	K K
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	SULTS	`	
	North Basement supply	¹PDI-857-1	$\leq 2.0 \& > 0^{1} in. wc$	, 12	17	, /3	.15	, , , 2	5	9
4.1.3.4	(HVP-840) ΔP	PDI-857-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	545	.45	146	ን የትን	645	)HS	E,
4.1.3.4	North corridor supply	¹PDI-856-I	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.67	01	. 0 .	. 07	, 09	900	G
	(HVP-809) ΔP	PDI-856-2	$\leq 2.0 \& > 0^{1}$ in. wc	269	. હવ	. 69	ું હવ	,70	69	129.
Ž A	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	SP	SAT	5 <b>A</b> Y	SAT	SAT	2.7	5.7
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet							
			perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	S# T	S	547	SAT	SAT	U.	E.
			Completion time	0916	1030	0816	0835	0820	043>	Color
	OC Operator Rev	view and Page C	OC Operator Review and Page Count Complete (initials)	0 3	an	Rob	alab	A a	8	5
Note: SR 4.	<sup>1</sup> Non TSR requirement Note: SR 4.1.3.4 applies during mode 1 and mode 2	and mode 2.		-	10	//				1
Completed b	Completed by: This drug Troch Date 03/10/13 Time 09/01	39/10/13 Time (	Peviewed by:	S.	On-duty Supervisor	Date 2-11-13 Time: 8706	Time: 8706			
Comments:										

## ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

			M&T	M&TE Calibrated Data						
		PF-10 Thermometer File No.: 639 745		PF-10 Thermistor File No.:	Wo: 042254	254	V-701 Th	V-701 Thermistor File No.:	10: 040373	373
Record September	tember	Calibration Expiration Date: 5 1	5) 14   13 Calibra	Calibration Expiration Date:		0 13	Calibration	Calibration Expiration Date:		3 13
through April only	ril only	PF-11 Thermometer File No.: 039746		PF-11 Thermistor File No.:	.c. 0403	376	V-704 Th	V-704 Thermistor File No.:		444
		Calibration Expiration Date:   5   14   13		Calibration Expiration Date:	ate:   8   13	3/13	Calibration	Calibration Expiration Date:	ate:   6/13/13	3/13
		PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	ise Room Temperature	and V-701 & V-70	4 Fire Water S	Storage Tank T	emperature			
			Da	Date: 24/13	2/5/13	2/6/13	2/7/13	2/8/13	2-9-13	2/10/13
	Daily (Sept	Daily (September through April only)	Weekday:	ay: Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	ıls:	NA	1	7	1	2	8
SR I	Description		Acceptance Criteria							"
NA I	ENSURE M& and calibratio	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	<u>SAT</u> VUNSAT	SA) /UNSAT	<b>SATUNSAT</b>	SATUNSAT	SAD/UNSAT (	(SATI/UNSAT	(SAT)/UNSAT
4.3.1.1 H	RECORD fire	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	45.8	He.8	46.4	46.3	45.5	47.6	47.1
4.3.1.1 H	RECORD fire	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	45.4	47.0	47.)	47.0	45.8	46.3	44.8
4.3.1.3 <sup>1</sup> F	RECORD PF	RECORD PF-10 room temperature	≥ 50.1 F	(4.D	59.0	59.5	59.4	58. 6	59.7	8.85
4.3.1.3 <sup>1</sup> I	CECORD PF	RECORD PF-11 room temperature	≥ 50.1 F	62.3	63.0	<b>(3.3</b>	60.6	63.3	63,2	Jac. 7
				-						(

Reviewed by: \_\_\_\_\_ On-duty Supervisor Completed by: Date 2/10/13 Date: 2-11-13 Time: 0706 Time 1035

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Pobe Fluke Model 5610-9 (or approved engineered equivalent).

OC Operator Review and Page Count Complete (initials)

Completion Time:

**4**853 8

085

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120

1035

Comments:

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

	$4.1.1.3 \\ 4.1.2.32$				$4.1.1.2 \\ 4.1.1.5 \\ 4.1.2.2^{2}$					4.1.1.1		SRs	allemale i	whenever	taken on	)
IRT Tunnel AP	South basement AP	North basement ΔP	IFIT Facility AP	400 area laboratory PDI-852-1 or header AP PDI-852-2	300 area laboratory PDI-853-1 or header AP PDI-853-2	100 area laboratory header ΔP	200 area laboratory PDI-803-1 or header $\Delta P$ PDI-803-2	400 area glovebox exhaust header ΔP	300 area glovebox exhaust header ΔP	100 area glovebox exhaust header ΔP	200 area glovebox exhaust header AP	Description	allemate PDIs are used	whenever possible. Document if	Gauge readings should be taken on rack #4 in the OC.	Note
PDT-901 or PDI-901	PDI-854-1 or PDI-854-2	PDI-804-1 or PDI-804-2	PDI-865-4 or PDI-865-5	PDI-852-1 or PDI-852-2	PDI-853-1 or PDI-853-2	PDI-802-1 or PDI-802-2	PDI-803-1 or PDI-803-2	PDI-864-1 or PDI-864-2	PDI-870-1 or PDI-870-2	PDI-820-1 or PDI-820-2	PDI-814-1 or PDI-814-2	Gauge Accel				
< 0.00 in. wc	< 0.00 in. wc	< 0.00 in. wc	≤-0.05 in. wc	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:
103		3	1/2		, st	_	1/4	1,0	138	7,00	F.00		25	AM PM	Mon.	2/11/13
7.38	`=`	, OI.	.79	1917	<i>''</i>	.2'	.7.0	204	198	88.1	-2.00 to		200		n.	w
,0/s	70,12	0.10	٠٥٠١٩		620	وک	93	(gb.).	1.gg	7150	8		19	AM PM	Tue.	2/12/13
137 281-1817	=	01:	513	100-20	72.	Ε,	21.0	-1.48	188	181-181	101325 20		8		ē.	
581	7 (0	7,10	-,(<	120	1 kg.	) ) )	元	Bir.	\$		ر بر بر بر	SUR	\$	AM PM	Wed	3/13/13
137	1,1,2	710	719	731	- 35	00	17	-197	1.98	1,88	20	VEII	P	PM	ed.	<u>B</u>
	,0,1	01.0	10,10	100%	25	40 John	20,19	8b. ( 15.1-	200	1.881.20	202	SURVEILLANCE RESULTS (in. wc)	CO.	AM PM	11	2/14
T39	=,	0) %	-,19	<u>-</u>	76	2	2 - 19	-198 197	-197-190 B	-1861-001	2.03 20	ANCE I	D	PM	Thu.	14/13
75/	1	0,1	1/2	.8	`&\	3	1/20	1/97	1,20	200	بغض	RESU	9.850	AM	Ŧ	2/1
hh!	-12	01:	7.9	2'	ξ'	.22	7.9	1.97 197	Z.	90	20	ILTS	R	PM	Fri.	2/15/13
(E)	1	1.0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	i,fo	.,5	<i>j5</i>	7	10	1,20	1.00	2.03		980	AM	S	1/2
7E15	11:	01.	19	<u>'z'</u>	72.	2	-19	-1.97	85-1-	,   %	-2.08		W.	PM	Sat.	6/13
0.140	ر٥٠١٦	010	A.Q.	, O. H	124.0.24	,0,2×	81.0	1.97 197	1.98 1.90	1.88/1.89	2.03,20		(E)	AM	S	-1/16/13 d/17/13
HE ON OBEIL STANIS	113	01:	79	-10	6	2'	-1	851-	.1.58	1.89	2:04		S.	PM	Sun.	3

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					4.1.1.6						SRs	and local ple be used if FC	FMT#151,	Readings should busing FCS screens	:	
fan/ plenum	Vault re-	plenum	400 area recirculation fan/	plenum	300 area re- circulation fan/	Şiciidii	nleniim	100 area re-	plenum	200 area re- circulation fan/	Description	and local plenum PDIs may be used if FCS is unavailable.	FMT#151,152,201LD	Readings should be taken using FCS screens	Note	
red and P > .050	FR-811 Icon red and PDT-840 \( \Delta P > .050 \) or	FR-808 Icon red and PDT-839 ∆P > .050	FR-807 Icon red and PDT-838 ∆P >.050 or	PDT-837 ΔP > .050	PDT-836 ΔP >.050 or	PDT-835 \( \Delta P > .050 \) FR-805 Icon red and	FR-804 Icon red and	FR-803 Icon red and PDT-833 $\Delta P > .050$	FR-802 Icon red and PDT-832 \( \Delta P > .050 \)	FR-801 Icon red and PDT-831 $\Delta P > .050$ or	Readings					
service	At least one fan/plenum is in	service	At least one fan/plenum is in	service	At least one fan/plenum is in		service	At least one	service	At least one fan/plenum is in	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:	
Unsat	(Sat)	Unsat	Sap	Unsat	Sat	Onsat		\S_{\sigma}	Unsat	(S)		\$ <b>6</b>	AM PM AM PM	Mon.	2/11/13	
sat Unsa	Sat	sat Unsa	Sat Sat	sat Unsa	Sat Sat	sat Onsa		Sat Sat	sat Unsa	San San	,	2/ C	M AN		₩	(
ıt Unsat	Sat	ut Unsat	Sat	Unsat	Sat	II Onsai			at Unsat			80	1 PM	Tue.	2/12/13	C
Unsat U	Sat	Unsat U	Sa	Unsat U	Say	Onsar	7 1 1	Sat	Unsat U	Sat	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	63	AM PM	Wed.	213/13	]
Insat Ur	(a)	Insat Ur	(S)	Insat Ur	(S)	nsat Or		(S)	Insat U	San	ŒIĽI . / Un	0			3 2	-
ısat Uns	Sat Sat	ısat Uns	Sat) Sat	ısat Uns	Sat Sat	ISAL OHS		Sat Sa	ısat Uns	Sat Sa	ANCI sat. (c	6	AM PM	Thu.	11/13	
at Unsa	Sat	at Unsa	Sat	at Unsa	Sai	at Onsa	1 1	(B)	at Unsa	(S)	JRVEILLANCE RESUL Sat. / Unsat. (circle one)	POM			11	
ıt Ünsat	<b>(a)</b>	ıt Unsat	<b>(2)</b>	Unsat	( <u>a</u> )	i Olisat	Thorn	<u></u>	t Unsat	<b>(2)</b>	ULTS ne)	000 Des	AM PM	Fri.	15/13	
Unsat	Sat	Unsat	Sat	Unsat	Sat	OIISAL		Sat	Unsat	(Sat)		090	AM PM	Sat.	2/16/12	1
Unsat		Unsat		Unsat	Sar	Cirsai	The cot	Sat	Unsat	Sag	-	£.	PM	Ĩ.Ť	/12	
Jnsat	Sat	Jnsat L	(B)	Jnsat (	(S)	JISat		(A)	Jnsat C	(E)		E	AM	Sun.	21.7/13	
Jnsat	(a)	Jnsat		Insat		Jusan	1		nsat	(S)		20	PM	۲,	63	

#### **ATTACHMENT A: Per Shift Surveillance Rounds**

(Page 3 of 3)

				4.1.1.4 < labo   areas 1	_	SRs Desc	i Dia uaca.	be used if necessary. Document any alternate	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents mav	
			and 400	< laboratory $\Delta Ps$ < basement $\Delta Ps$ for areas 100, 200, 300	Glovebox exhaust header APs	Description		. Documen	iould be tal e, local PDI	Note
		400 Area	300 Area		200 Area	Area		t any alter	eguivaler	
	Complet	PDI-864-2 PDI-852-2 PDI-854-2	PDI-870-2 PDI-853-2 PDI-854-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-814-2 PDI-803-2 PDI-804-2	Gauge		nate	ck #4 in   its may	
	Completion Time	PDI-864-2 PDI-852-2 PDI-864-2 < PDI-852- PDI-854-2 2 < PDI-854-2	PDI-870-2 PDI-853-2 PDI-854-2 PDI-854-2 PDI-854-2 PDI-854-2 PDI-854-2 PDI-854-2 Vinsat	PDI-820-2 PDI-802-2 PDI-802-2 PDI-804-2 2 < PDI-804-2	PDI-814-2 PDI-803-2 PDI-804-2 PDI-804-2	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:
Sent		(Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Unsat   Unsat   Unsat	(Sat) Unsat	(Sat) (Sat) Unsat Unsat	Sat Unsat		9AG	AM	Mon.	2/11/13
06 W DELS 8761 LPLA 0861		©at) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Sat Sat Sat Sat Sab Sab Insat Unsat Unsat Unsat Unsat Unsat		BC.	PM	on.	<u>ر</u> ک
9729		Unsat	(Say Unsat	Sat Unsat	&at Unsat	)	8	AM	Tue	2/12/13
826		(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Saj) Unsat	•	200	PM	Iē.	//3
0730		(Sat) Unsat	(Sat) Unsat	Sat Sat Sat Sat Sat Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat	(Sat) Unsat	SU	RS	AM	Wed	عارءاره
1930		(Sat) Unsat	ta≱ Unsat	(Sá) Unsat	(Sá) Unsat	RVEIL Sat. / U	2	PM	E.	(3
0725			(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(LAN Unsat		AM	71	12
1970		Unsat	(Sat Unsat	(Sa) Unsat	(Sa) Unsat	CE R	Ø	PΜ	Thu.	1 13
b63		(Sat) Unsat	(Sat) Unsat	(Sa) Unsat	(Sat) Unsat	SURVEIL LANCE RESULTS Sat. / Unsat. (circle one)	<u> </u>	AM	Fri.	2/14/13 2/18/13
1926		Consat Cons	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	TS	<u>s</u>	PM	) ja.	
تثاره		Sat Sat Unsat Unsat	Sat Sat Sat Sat Sat Unsat Unsat Unsat	(Sat) Unsat	(Sap Unsat		9480 	AM	Sat	2/14
1935		(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Unsai		0 000 BC 000 BC 80	PM	F	1/3
<b>2</b> 40		Sat) (Sat) (	(Sat)	(Sat)	Sat Car Ear Say Say (Sa) (Sa) (Sa) (Sa) (Sar) (S	(	13	AM	Sun.	2/w/13 2/17/13
0715 1930 bes 3 1920 one 1935 078 1933		Unsai	Unsat	San	Unsat	,	20	PΜ	, Ħ	7/13

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2

Completed by:

Comments:

Date 12-17-13 Time 1933 Reviewed by

On-duty Supervisor Date 275-15Time: 0914

## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of  $(\ge -0.1; \le 0.1)$ . The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage

						_		
	(LCD Reading) (LED Reading)	(DET-305-3) – (CP-305H)	CP-305-H (LED Reading)	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Description / Gauge			
Completion Time:	≥ <b>-</b> 0.1; ≤+0.1	Record Calculated Value		N <sub>A</sub>	Acceptance Criteria	Initials:	Weekday:	Date:
0816	San / Unsat.	-0.1	O.3	0.2	,	In	Mon.	Date: 7/11/13
1080	San / Unsat. Sak / Unsat. Sat / Unsat.	-0.1	0.3	<i>i</i> ,		Ju	Tue.	2/12/13
D 804		1.0 -	0 .v	0.2	SURVEILLANCE RESULTS (percentage)	Suc	Wed.	2-13-13
0824	(Sat.) Unsat. (Say. / Unsat. (Say. / Unsat.	1.0-	0.3	b 6	CE RESULTS	355	Thu.	2-14-13
0800	Sal. / Unsat.	0.0	0.3	0.3	(percentage)	h	Fri.	2/15/13
0807	Sat. / Unsat.	0.0	OL.	0.3		ghe	Sat.	2//6/13
08/9	Sat / Unsat.	0.0	0.3	0.3		an	Sun.	2/17/13

Surveillance Rounds

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## ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

	_		_																			7
4.1.3.4				4.1.3.4				4.1.3.4		4.1.3.4			4.1.3.4	SRs								
exhaust filter plenum (FF855) AP  300 area special recovery glovebox exhaust filter plenum (FF859) AP		300 area glovebox		300 area special recovery glovebox exhaust filter plenum (FF858) AP		300 area special		300 area glovebox exhaust filter plenum (FF854) $\Delta P$			South Corridor supply (HVP-810) AP		(HVP-841) ΔP	South basement	Description							
PDI-821-4	PDI-821-3	PDI-821-1	PDI-818-5	PDI-818-4	PDI-818-2	'PDI-818-1	PDI-819-4	PDI-81 9-3	PDI-81 9-1	PDI-817-5	PDI-817-4	PDI-817-2	<sup>1</sup> PDI-817-1	PDI-895-2	'PDI-895-1	PDI-894-2	<sup>1</sup> PDI-894-1	Gauge				
$\leq 2.0 \& > 0^1$ in wc	$\leq 2.0 \& > 0^1$ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{+} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in wc}$	Acceptance Criteria	Initials:	Weekday:	Date:	
2 9	.42	.40	. 29	.32	.30	.25	S7134	81134	57134	SIBY	8784	STBY	<b>S</b> TBY	. <b>S</b> a	80.	84.	.06		g~	Mon.	2/11/2	-
49	, 45	.39	28	32	-30	.24	STBY	STOY	SIBY	STBY	Y672	4815	SrBy	· 3	. 08	.48	.06		g/m	Tue.	2/12/15	
٠ . ١٩	34,	. 39	٠, کو	٠٤٠	٥ ئى ،	٠٤٩	5154	57 <b>5</b> 7	5737	870W	57BY	5784	51134	. 89	,08	87.	, 66	SURV	Jake	Wed.	2.13.13	
1812	15.05	57134	57.07	5707	5704	5704	. 32	رده	٠ 40	.29	. 30	. 31	. 27	. 92	. 09	87.	. 0 6	VEILLANCE RESULTS (in. wc)	race	Thu.	2-14-13	
5784	STBY	STBY	STBY	<b>S</b> 7BY	STBY	5784	.35	· 42	14)	.30	.31	.3(	.27	92	.09	94.	.06	ESULTS	Jun (	Fri	2/15/13	
405	SHO!	Stby	7975	34645	Jug42	Stay	. 35	14.	Ŧ.	. W 0	. 4		,27	.93	.09	44	.04		₩ F	Sat.	2/14/13	1
A -	Stor o	Story	Story	Star	Stor	Sher	35	14.	,40	30	.31	.31	,20	:13	,09	,46	.06		999	Sun	417/13	1



# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

													_				Γ			
			4.1.1.7				4.1.3.4				4.1.3.4				4.1.3.4		SRs			
(	filter plenum	300 area re-circulation		filter plenum (HVP-805) AP	300 area re-circulation		filter plenum (FF-829) AP	South Basement exhaust		(FF857) ΔP	400 area glovebox			(FF856) AP	400 area glovebox		Description			
PDI-837-3	PDI-837-2	¹PDI-837-1	PDI-836-3	PDI-836-2	¹PDI-836-1	PDI-830-3	PDI-830-2	¹PDI-830-I	PDI-823—5	PDI-823-4	PDI-823-2	¹PDI-823-I	PDI-822-5	PDI-822-4	PDI-822-2	<sup>1</sup> PDI-822-1	Gauge			
$\leq 2.0 \& > 0^1$ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in wc}$	$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^{3}$ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	≤2.0 & > 0 <sup>1</sup> in. wc	Acceptance Criteria	Initials:	Weekday:	Date:
34.	.50	.61	,52	.52	28	.30	.35	.56	5134	5184	STB Y	5184	.50	.45	.50	-66		lan	Mon.	2/n/13
9.4	.50	.61	.52	45	2	.30	.32	.55	57B'y	5784	3784	STBY	.49	.42	.50	.66		gm	Tue.	2/11/13
.45	.50	19.	.52	.55.	. 88	.30	.35	.5.5	5784	47.04	6713Y	57137	20	د لا پا	. 50	65	SURV	she	Wed.	2-15-13
545	.50	,61	Ę	.55	. 88	.30	.35	. 8 %	.50	34.	.45	78.	S 7/34	761	414	5101	SURVEILLANCE RESULTS (in. wc)	Bee	Thu.	2-14-13
34.	.50	.61	.51	.54	3	.30	.35	.56	.\$0	86.	.43	. 82/	4015	3784	2734	STBY	ESULTS	(M	Fri.	2/15/13
.46	.50	.62	.51	. 55	89	. 30	.35	.56	.50	. 48	+4	+13	54B7	Silber	Sibr	SHA		NT.	Sat.	2/14/13
7	370	7.9.	:50	,54	83	30	333	7.	50		.42	.505	Stow	Stoy.	nate C	rats		OF/FI	Sun.	2/17/13

### ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				,	1					
			Date:	2/11/13	2 la/13	2-13-13	2-14-13	2/15/13	2/16/13	417/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	far	an	Short Confe	ysm	gm	+12	DAD
SRs	Description	Gauge	Acceptance Criteria	,	,	SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	¹PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	.18	.28	۶۵.	. 28	.28	. 28	.28
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.40	.40	٥4,	. 40	.41	14.	T.
4.1.1.7	(HTE -00/) AX	PDI-838-3	$\leq 2.0 \& > 0^{1}$ in. wc	.39	.39	.38	. 38	.38	. 38	38
	400 area re-circulation	¹PDI-839-1	$\leq 2.0 \& > 0^{1} \text{ in wc}$	27	.27	. 27	.a7	.27	. 27	(2) (X)
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, HO	.40	. 40	٠46	.40	14.	142
	( 11 * 1 -000) (31	PDI-839-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, ii/	<u>.</u> د	14.	۰۲۰	.41	.41	, H
	South Bleed off filter	'PDI-810-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	cff	. 15	.15	. /7	.17	.17	
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc	مئي	.70	.70	۽ ٦٢	.71	72	.72
		PDI-810-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	O.A.	45	. 45	.49	.49	64.	ir Q
	South Bleed off filter	'PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. IZ	0 <del>6</del> 5	140	200	0 ====	O E	OF.
4.1.3.4	plenum	PD1-811-2	≤2.0 & > 0 <sup>1</sup> in. wc	52	955	1,40	2	0:FF	057	37
	(FF-022B) AI	PD1-811-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5)	770	40	43	975	4.40	の子
			Completion Time	(280	08/2	0834	6280	0836	083-	548
0000	OC Operator Review and Page Count Complete (initials)	nge Count Comp	lete (initials)	980 CAN	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	N RES	800	{\	TES A	25
Non TSR requirement:	nent:			2/1	0	W/W		201	7	

Comments

Completed by:

The Date

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

13 Time 0849 Reviewed by:

Supervisor

Date 235-Brime: 0930

Surveillance Rounds

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# ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 1 of 4)

	4.			4.										4	_							7
	4.1.3.4			4.1.3.4										4.1.1.7				SRs				
,	plenum (FF-820B) ∆P	North Blood off filter	(FF-820A) AF	North Bleed off filter			filter plenum (HVP-802) \( \Delta P \)	200 area re-circulation		filter plenum	200 area re-circulation		filter plenum	Vault re-circulation	,	filter plenum (HVP-811) ∆P	Vault re-circulation	Description				
PDI-809-3	PDI-809-2	¹PDI-809-1	PDI-807-3	PDI-807-2	'PDI-807-1	PDI-832-3	PDI-832-2	¹PDI-832-1	PDI-831-3	PDI-831-2	¹PDI-831-1	PDI-841-3	PDJ-841-2	¹PDI-841-1	PDI-840-3	PDI-840-2	¹PDI-840-1	Gauge				
$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} in. wc$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	≤2.0 & > 0 in¹. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Acceptance Criteria	Initials:	Weekday:	Date:	
. 49	. 5'2	.06	off	0FF	3.40	.49	13.	. 23	.38	40	.3/	5107	SIBY	SIBY	.51	.52	16	-	Ex.	Mon.	2/11/13	(3.20
off.	0 <del>13</del>	270	.50	18.	-	.49	<u>.5</u>	.22	,36	.41	.31	STBY	STBY	\$1B1	. 51	15.	.15		gm	Tue.	2/12/13	(, 20, ,
帛	9	(OF?	.50	90		.49	.51	. 22	.36	÷	.w	SHOW	the state of the s	Stor	.51	. 52	. 15	SURV	72	Wed.	2/13/13	7
OH	220	off	. 4.7	.78		- 49	.5	:23	-36	114	31	-50	15.	.44	STBY	STBY	STBY	SURVEILLANCE RESULTS	Q.	Thu.	2/14/13	
O FETS	DEF	2.20	Ch.	29	11	.49	.51	.23	36	171	.3)	.50	.5/	44	\$ TD 4	57BY	K815	ESULTS	P.	Fri.	2/15/13	
255	off:	off	84.	.79	•11	.49	.51	. 73	.36	.41	.3/	.so	.51	, 44	STBY	Sray	STBY		gr.	Sat.	2/1//13	
off	o#	250	34.	.79	. 11	64	.51	.23	.36	.41	ليز	.50	is	44	STBY	STBY	STBY		am	Sun.	2/12/13	

Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 2 of 4)

				(rage	(rage 2 01 4)					
			Date:	2/11/13	2/12/15	2/13/13	2/14/13	2/15/13	2/1///3	2/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	- Ann	J/M	£	N	(m)	J.v.	Qn
SRs	Description	Gauge	Acceptance Criteria			SURVI	EILLANCE RESULTS (in. wc)	SULTS	-	,
		¹PDI-829-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.06	.06	.05	90.	.06	90,	.06
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.22	.25	. 20	.23	نئ	. 23	.22
	ţ	PD1-829-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.20	2	. 20	.21	.21	Ľ	7.
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in wc}$	24	. 85	. 65	58	ક્ક	. 85	. & S
	filter plenum	PDI-833-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.48	. 45	.44	47	915	.46	14.
4.1.1.7	300)	PDI-833-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.45	55	÷	44	.44	. 44	HF
	100 area re-circulation	<sup>1</sup> PDI-835-1	≤2.0 & > 0 <sup>1</sup> in. wc	÷	, 12	./2	.13	,13	. 13	. /3
	filter plenum	PD1-835-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	42	.42	. £	.42	.42	.42	.43
	3000	PDI-835-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.40	.40	5	.40	·40	.40	.40
		<sup>1</sup> PDI-815-1	$\leq 2.0 \& > 0^{1}$ in. wc	.19	.19	. 130	\$734	STOY	SIBY	5134
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.39	.40	. 39	STRY	STBY	STBY	STEY
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	32	.32	. 32	X70Y	5784	STBY	\$7/34
		PD1-815-5	$\leq 2.0 \& > 0^{4}$ in. wc	-39	.38	. 38	STBY	S7BY	STBY	STBY
		'PDI-816-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5784	STBY	Stay	.34	.34	.34	,34
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	4025	STBY	2484	1H°	.41	(4)	.41
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	5784	Stby	<b>.42</b>	.42	.42	• 42
		PDI-816-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5764	STBY	Stay	.42	.¥2	.42	£4.

# ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

4.1.5.4 HV			+11.5.4 (FF			_	4:1:0:4	exnaus (FF	200 a			4.1.3.4		200 a	SRs De			
(HVP-863) ΔP	IFIT supply filter plenum		(FF-865) ΔP	IFIT exhaust filter plenum				exnaust filter pienum (FF851) ΔP	200 area glovebox				exhaust filter plenum (FF850) ΔP	200 area glovebox	Description			
PDI-863-2	'PDI-863-I	PDI-865-3	PDI-865-2	<sup>1</sup> PDI-865-1	PDI-813-5	PDI-813-4	PDI-813-3	PDI-813-2	¹PDI-813-1	PDI-812-5	PDI-812-4	PDI-812-3	PDI-812-2	<sup>1</sup> PDI-812-1	Gauge			
$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	Acceptance Criteria	Initials:	Weekday:	Date:
5	.06	.40	32	.04	.20	.30	.25	.29	.64	STBY	V815	85184	STBY	57131	,	Jun	Mon.	2/18/13
7	.05	.39	.31	,04	11	29	.29	29	.66	5737	STB /	<i>Sr/3</i> Y	STBY	57 BY	,	Jin	Tue.	2/12/13
\$	. 05	. 39	. 32	. 23 .	. 21	. 30	. 29	. 29	.68	atter ?	att.	Stor	Story	5164	SURV	£	Wed.	2/13/13
£	.0 ó	.40	. 32	40.	•21	. 29	.28	.29	.63.	5737	STBY	\$7B 4	STBY	STBY	EILLANCE RESULTS (in. wc)	QN.	Thu.	2/14/13
ν. 1	.06	114	.32	40.	.21	.29	27	.29	63.	STBY	STBY	57.87	STBY	STBY	ESULTS	9/1	Fri.	2/15/13
2	.06	oh.	.32	40.	21	29	27	.29	.67	57134	STBV	STBU	SYBY	5-134		4/	Sat.	2/16/13
2	.06	.40	.32	ટ	.23	. 19	. 17	29	.67	STBY	57.64	रधरऽ	STBY	s acs	,	gm	Sun.	2/10/10

Surveillance Rounds

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# ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 4 of 4)

				(Page	Page 4 of 4)					
			Date:	2/11/13	2/12/13	2/13/13	2/14/13	2/15/13	2////3	2/15/13
			Weekday:	Mon.	Tue	Wed	Thu.	Fri.	Sat.	Sun.
			Initials:	Ø.M	g/m	72	gn	P.	*	gn
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	ESULTS		
	North Basement supply	¹PDI-857-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.13	G	- /4	:	lų.	14	./4
4.1.5.4	(HVP-840) ΔP	PDI-857-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	34.	0.F	.47	817	\$h.	.40	۲4,
4.1.3.4	North corridor supply	1-958-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.09	<b>%</b> 0.	.00	-80	.08	\$6.	.08
	(HVP-809) ΔP	PDI-856-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.70	.69	.49	12	.62	62	62
NA A	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, &		0 lb/ft² combustibles							
	207		within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the							
			rooms, whichever is less	SAT	SAT	775	SAT	SAT	SAT	SH
			Completion time	083)	0825	2480	0850	082)	o <b>\$35</b>	0842
	OC Operator Re	eview and Page (	OC Operator Review and Page Count Complete (initials)	SE SE	38	35	8	*/ ***********************************	8	1
Non TSR lote: SR 4	Non TSR requirement Note: SR 4.1.3.4 applies during mode 1 and mode 2.	1 and mode 2.			A.	8				(
Completed by:	Glan &	Date <u>2/17/17</u> Time <u>6842</u>	6842 Reviewed by	Ord-dut	Supervisor	Date 2 45 45 Time: 8422	Time: <u>842</u>	2		
Comments.										

### ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

			4	_	_												
-			4.3.1.3	4.3.1.3	4.3.1.1	4.3.1.1	NA	SR						through April only	Record September		
			RECORD I	RECORD I	RECORD 1	RECORD 1	ENSURE A	Description		Daily (Se				pril only	ptember		
	OC Operator Review and Page Count Complete (initials)		RECORD PF-11 room temperature	RECORD PF-10 room temperature	RECORD fire water storage tank V-704 temperature	RECORD fire water storage tank V-701 temperature	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	n		Daily (September through April only)		PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	Calibration Expiration Date:	PF-11 Thermometer File No.:	Calibration Expiration Date:	PF-10 Thermometer File No.:	
	d Page Cou				ure	ure						Pumphouse	8-13-13	040376	5-30-13	042254	
	nt Complete	Comple	≥ 50.1 F	≥.50.1 F	≥ 42.1 F	≥ 42.1 F	Calibration dates have not elapsed.	Acceptance Criteria				Room Temp	-13	376	<u>-</u> 13	54	
1	e (initials)	Completion Time:	F	F		, 13	tes have	Criteria	Initials:	Weekday:	Date:	erature and	Calibratio	PF-11 Th	Calibratio	PF-10 Th	M&TE C
	000	9:47	63.3	57.6	45.4	47.6	SATYUNSAT		Z	Mon.	2-11-13	1 V-701 & V-70	Calibration Expiration Date:	PF-11 Thermistor File No.:	Calibration Expiration Date:	PF-10 Thermistor File No.:	M&TE Calibrated Data
/	18	1160	60,5	56,9	46.7	45.9	(SAT) UNSAT		PT	Tue.	2-12-13	4 Fire Water	)ate: 3-14	No: 0397	)ate: 5-14	No.: 039	
	188	2060	64.6	57.4	45.8	47	SATUNSAT		74	Wed.	2 13-13	Storage Tank T	14-13	974682	14-13	3474S	
	00	0939	57.9	57.8	46.0	47.0	SAT UNSAT SAT UNSAT		RH	Thu.	2-14-13	Cemperature	Calibration	4682-13V-704 Thermistor File No.:	Calibration	V-701 Th	
/	000/00	0840	67.9	57.8	46.0	461	SATJUNSAT		ah	Fri.	2-14-13 2-15-13 2		Calibration Expiration Date:	ermistor File	Calibration Expiration Date:	V-701 Thermistor File No.:	
\	of sepan w	0831	65.4	57.7	45,7	46.4	SATJUNSAT		ge.	Sat.	2/11/13				-		
1	Ne Sow	0805	62.0	28,8	75.7	46.8	&AT /UNSAT		æ	Sun.	116/15 2/17/13		8-13-13	947744	8-13-13	040313	

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Reviewed by: \_\_\_\_ On-duty Supervisor Completed by:

Date  $\frac{\partial l/7/l}{\partial me}$  Time  $\frac{\partial g}{\partial m}$ 

Date: 2-26-13 Time: 092-3

Comments:

#### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

	4.1.1.3 4.1.2.3 <sup>2</sup>	7			$\begin{array}{c c} 4.1.1.2 \\ 4.1.1.5 \\ 4.1.2.2^2 \end{array}$		, h			4.1.1.1		SRs	alternate PDIs are used.	whenever po	Gauge read	7
IRT Tunnel AP	South basement AP	North basement ΔP	IFIT Facility AP	400 area laboratory PDI-852-1 or header ΔP PDI-852-2	300 area laboratory PDI-853-1 or PDI-853-2	100 area laboratory PDI-802-1 or header AP PDI-802-2	200 area laboratory PDI-803-1 or header AP PDI-803-2	400 area glovebox exhaust header ΔP	300 area glovebox exhaust header ΔP	100 area glovebox exhaust header ΔP	200 area glovebox exhaust header ΔP	Description	s are used.	whenever possible. Document if	Gauge readings should be taken on rack #4 in the OC	Note
PDT-901 or PDI-901	PDI-854-1 or PDI-854-2	PDI-804-1 or PDI-804-2	PDI-865-4 or PDI-865-5	PDI-852-1 or PDI-852-2	PDI-853-1 or PDI-853-2	PDI-802-1 or PDI-802-2	PDI-803-1 or PDI-803-2	PDI-864-1 or PDI-864-2	PDI-870-1 or PDI-870-2	PDI-820-1 or PDI-820-2	PDI-814-1 or PDI-814-2	Gauge Accep				
< 0.00 in. wc	< 0.00 in. wc	< 0.00 in. wc	≤-0.05 in. wc	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-0.05 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	≤-1.0 in. wc¹	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:
-185-129 139-1861-1861-1861-	-11-11	-,10 -10	-19 -17	41. 19:-	-23 -23	12: 167	61-81-	-198-197-198-198 Jen	-198 -198	-/.88 -197	2,00 -2.07		3	AM PM	Mon.	2-18-13 2-19-13 2/10/13
134	;	-16	- 19 -	500	٠	-21	-19	-192	198-198-198	-[97-	-24-200 20		P	AM PM	Tue.	2-19
7.28.7	15 15	10 /c	19 , 19	ai a.	, ra' ra:	~. Zi _ ZZ	-19 /	98	198 198	1.00.100	12.	ısı	See 2			13 2
71-14 Je	12	75	7	21	22.	22.	19:19	-19	-143	184	ري ا ا	SURVEILLANCE RESULTS (in. wc)	8	AM PM	Wed.	100/13
1/3	バ	1/2	./2	19			35	-1981ab	-198 1198 -198 -198 -198 -198 -198 -198	7.00	206-208	LLAN (in.	000 8	AM	Thu.	23
' ' '	-10	0),	191	20	22	is'	ō	861	851	1.87	2.04	ANCE R	81	PM	າu.	21/13
70	-11	210	19	06.	, ye.	122	219	-197-197	-188 J.98	-1,90 -1.97	202	ŒSU	Q	AM	Fri.	2-22-13
134		-10	-19	20	125	12	118		198	187	202	LTS'	8	PM /		<u>ا</u>
4512 HELT HELT BU		0,7	<u>.,</u>	.20	526 .25	12:	13	-197-197	188.1	7.88	205		-	AM I	Sat.	2/23/13
133		.70	-19-	Ė		22	- 02.2		1.97 -	1.98 -	2.03		3	PM /		
126 - 103	11:	6	2	0 6	. E & .	722	7,00	4,97 -1.57	-1,98-1-98	-1,90-186	-J06 -		9	AM I	Sun.	2.24-13
103	11.	ô	19	-19	79	12'	317	1.57	88-	86	7.92		Sp	PM	<u>-</u>	Ü

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

	<b>.</b>	4.1.1.6			SRs	and 202L and local pl be used if F	FMT#151	Readings should b	
Vault re- circulation fan/ plenum	400 area re- circulation fan/ plenum	300 area re- circulation fan/ plenum	100 area re- circulation fan/ plenum	200 area re- circulation fan/ plenum	Description	and 202LD. Field vertication and local plenum PDIs may be used if FCS is unavailable.	FMT#151,152,201LD	Readings should be taken using FCS screens	Note
FR-811 Icon red and PDT-840 ΔP > .050 or FR-812 Icon red and PDT-841 ΔP > .050	FR-807 Icon red and PDT-838 ΔP > .050 or FR-808 Icon red and PDT-839 ΔP > .050	FR-805 Icon red and PDT-836 $\Delta P > .050$ or FR-806 Icon red and PDT-837 $\Delta P > .050$	FR-803 I con red and PDT-833 AP > .050 or FR-804 I con red and PDT-835 AP > .050	FR-801 Icon red and PDT-831 ΔP > .050 or FR-802 Icon red and PDT-832 ΔP > .050	Readings				
At least one fan/plenum is in service	At least one fan/plenum is in service	At least one fan/plenum is in service	At least one fan/plenum is in service	At least one fan/plenum is in service	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:
East Unsat	Say (Say) Unsat Unsay	(Sa) (Sa) Unsat Unsa	Sat Unsar	Sat (Sat) Unsat Unsat		2	AM PM	Mon.	2-1813
(Sa) (Sa)	\$at (Sat)	Sat Sat t Unsat Unsat	Sat Sat Unsat	Sat (Sat)		9	AM PM	Tue.	3 2-1943
Sat Sat at Unsat Unsat	at Unsat Unsat	Sat Sat at Unsat Unsat	t) Sat) Sat) at Unsat Unsat	t) Sat Sat at Unsat Unsat	SURVE Sat. /		1 AM PM AM	Wed.	3 2/20/13
Sat Sat at Unsat Unsat	(Sat) (Sat) at Unsat Unsat	Sat San at Unsat Unsa	at Unsat Unsa	i) (Sat) (Sa) at Unsat Unsa	JRVEILLANCE RESUL Sat. / Unsat. (circle one)	2 000 80	1 AM PM	Thu.	5 421/13
Say Sat Unsat Unsat	Sat Unsat Unsat	Say Say	Say Sat at Unsat Unsat	Sat Unsat Unsat	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	940 BC 0100 BC P O		Fri.	3 2-22-73
(Sat )(Sat)	Sax Say	San San (San)	San Sat) Unsat Unsat	) (Sat (Sa) at Unsat Unsa	SV	B C	AM PM AM PM		2/23/13
Sat	(Sat)	Sat	Sat	Say (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Say (Say) (Sa	•	P P	AM PM	Sun.	2-24-13

#### **ATTACHMENT A: Per Shift Surveillance Rounds**

(Page 3 of 3)

2016 0520 Hei Hilo (261 0690 0691 LILO 1261 050) QEI 0610 8141 (AL)	Completion Time
PDI-864-2 PDI-864-2 PDI-852- Unsat U	PDI-864-2 400 Area PDI-852-2 PDI-854-2
PDI-870-2 PDI-870-2 PDI-853- Sat Sat Sat Unsat U	and 400 PDI-870-2 300 Area PDI-853-2 PDI-854-2
Sat (Sat (Sat (Sat (Sat (Sat (Sat (Sat Unsat Uns	4.1.1.4 < laboratory \(\Delta Ps\)
PDI-814-2 < PDI-803- Sat Unsat	Glovebox exhaust 200 Area PDI-803-2 header APs PDI-804-2
SURVEILLAN Sat. / Unsat	Description Area Gauge
Initials: 2 C 0 C 080 BC 039 BC 1	
Shift: AM PM AM PM AM PM AM PM AM	PDIs used
Weekday: Mon. Tue. Wed. Thu.	he need if necessary. Document any alternate
Date: 2-18-13 2-19-13 260/03 2/4/13 2-22-13	the OC when possible, local PDI equivalents medical if necessary. Document any alternat
	Note Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate

Note:  $^1$  Mode 2 acceptance criteria is < 0.00 in. wc Note:  $^2$  SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2

Completed by:

Comments:

Date 022413 Time 2103 Reviewed by:

Date Date Time: 07

# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of  $(\ge -0.1; \le 0.1)$ . cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage

			4.4.1.1	SR				
	(LCD Reading) (LED Reading)	(DET-305-3) - (CP-305H)	CP-305-H (LED Reading)	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Description / Gauge			
Completion Time:	≥ <b>-</b> 0.1; ≤+0.1	Record Calculated Value		N A	Acceptance Criteria	Initials:	Weekday:	Date:
0756	Sat. Y Unsat.	0.0	0.3	013		28	Mon.	2-18-13 2/19/13
0756 0849	Jnsat.	0.0	03	0.3	,	On	Tue.	2/19/13
1290	Sat / Unsat.	0	8-0	0.3	SURVEILLANCE	Y	Wed.	2/20/13 2
0820	(Sat). / Unsat.	0.0	0.3	2-3		10	Thu.	121/13
0745	Sat)/ Unsat.	0.0	0.3	.0,3	RESULTS (percentage)	79	Fri.	2-22-13
0815	Sat.) Unsat. (Sat.) Unsat. (Sat.) Unsat	0.0	Ø. ¥	Э.		79	Sat.	2-12-13 2-23-13 2-24-13
0803	Sat)/ Unsat.	0.0	0,3	D L		74	Sun.	2-24-13

Surveillance Rounds

# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

				(Page	(Page 2 of 4)					
			Date:	2-18-13	2/18/13	2/20/13	2/2/1/2	2-22-13	2-23-13	2-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	74	W	F.Q.	An	79	PT	77
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	<sup>1</sup> PDI-894-I	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,07	ġ	.04	,06	90.	101	€
	(HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, 46	.45	.44	SH	5 H s	2.8.5	545
	South Corridor	¹PDI-895-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	04.	.09	,09	.69	,09	.09	. 09
4.1.5.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 95	.95	.94	. 95	.92	. 92	92
		<sup>1</sup> PDI-817-1	$\leq 2.0 \& > 0^1 \text{ in wc}$	27	18	. 27	.17	. 27	.27	- 27
4.1.3.4	300 area glovebox	PDI-817-2	≤2 0 & > 0 <sup>1</sup> in. wc	, 31	3	. 30	.3/	. 3/	. 7/	03/
	(FF854) AP	PDI-817-4	≤2.0 & > 0 <sup>1</sup> in. wc	ا چې د	31	. 3 -	ن	.3/	. 3)	+ 3/
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. %0	30	08.	.30	, 30	. 30	. 20
	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	141	.41	,£	.¥I	14.	141	141
4.1.3.4	exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, 41	114.	·£	114	, 41	. 41	, 4,
	(FF858) ΔP	PDI-819-4	≤2.0 & > 0 <sup>1</sup> In. wc	,34	کڈ.	. 35	.35	٠ 3 گ	, 32 ,	w W
		<sup>1</sup> PD1-818-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5184	<b>\$</b> 7BY	3Hby	5184	5784	STBY	5784
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5784	<b>5</b> 7.64	Stay	5784	5784	STBY	STBY
	(FF855) AP	PDI-818-4	≤2.0 & > 0 <sup>1</sup> in. wc	57Bi)	5734	Star	STBV	5104	5734	57 BY
		PDI-818-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STRY	STBY	SH V.	\$734	57BY	STBY	5784
3	300 area special recovery glovebox	PDI-821-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57BY	5784	Silley	STBY	5784	57By	STBY
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1$ in. wc	STBY	\$7.84	SABy	STAY	STBY	STBY	STBY
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^1$ in. wc	5784	STBY	Stage	STBY	STBY	5784	STBY

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

				(Lage	(+ 10 c 38p.1)	•				
			Date:	2-18-13	2/19/13	2/20/13	2/2/1/3	2-22-13	2.23-13	2-24-17
			Weekday:	Mon.		Wed.		Fri.	Sat.	Sun.
			Initials:	PT	dm.	N#	gm.	74	77	4 6
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STRY	<b>5</b> 7B7	SHOW	57B4	57BV	578Y	S T B Y
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	STBY	74by.	STBY	5781	5789	5784
	exhaust filter plenum (FF856) ΔP	PDI-822-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	SIRV	STBI	SHOW	27BV	STBY	5784	5+134
		PDI-822-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5780	STBY	SHOW	S 173 Y	STBY	STBY	5731
		¹PDI-823-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, 84	<b>,28,</b>	.004	.84	* 82	- 82	. 82
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1$ in. wc	, 42	. 42	.42	144	. 42	. 4.2	(, 17)
	(FF857) ΔP	PDI-823-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 48	,49	. 48	, 4 <b>8</b>	, 4/8	. 4 S	. 4/8
		PDI-823-5	$\leq 2.0 \& > 0^{1} \text{ in wc}$	,56	.53	, 40	.So	.50	.50	150
	South Basement exhaust	'PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.56	.56	. 54	.56	.57	,56	. 57
4.1.3.4	filter plenum	PDI-830-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 33	.35	. 35	45.	.35	25	+ 35
		PDI-830-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	,36	-30	. 30	30	, 3 /	, 30	0 £,
	300 area re-circulation	<sup>1</sup> PDI-836-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 82 %	<b>8</b> 89	.67	.87	. 87	• 88 80	* & 7
	filter plenum	PDI-836-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, 55	•3 <b>5</b>	. 55	ني	. 55	. 55	. 53.
4.1.1.7	(20)	PD1-836-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	15.	.51	.51	15.	.51	. 52	. 57
	300 area re-circulation	¹PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	F 66	.61	.61	.61	. 61	. 61	.61
	filter plenum ( HVP-806) AP	PDI-837-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0¹ in wc	. 45	.46	.46	46	,47	. 47	× 47

### ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

	OC			4.1.3.4			4.1.3.4					4.1.1.7			SRs			
	OC Operator Review and Page Count Complete (initials)		(11 70220) 03	plenum	South Bleed off filter		plenum (FF-822A) AP	South Bleed off filter		filter plenum	400 area re-circulation		filter plenum	400 area re-circulation	Description			
	age Count Com		PDI -811 -3	PDI -811 -2	<sup>1</sup> PDI -811 - 1	PDI-810-3	PDI-810-2	'PDI-810-1	PDI-839-3	PDI-839-2	<sup>1</sup> PDI-839-1	PDI-838-3	PDI-838-2	<sup>1</sup> PDI-838-1	Gauge			
	plete (initials)	. Completion Time	≤2.0 & > 0¹ in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{+} in. wc$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	Acceptance Criteria	Initials:	Weekday:	Date:
11/10	2	0805	OFF	OFF	0; ř	,44	,7)	. 15	1 4 4	141	, 27	, 35	. H.	. 18		707	Mon.	2-18-13
1	R.	0945	off	offe	350	.49	21	16	14.	111	.27	200	.41	28		gm	Tue.	2/19/13
4 1 4	P CER	004	9 <del>1</del> 3	273	0 B	.50	.72	. 17	. 4.	Ŧ.	77.	. 38	÷.	. 78	SURV	Ţ	Wed.	2/20/13
Mary Color	N.	0852	2 <del>3</del> 40	o <del>R</del>	0 <del>-53</del>	,49	,7/	.17	.41	14.	:27	.37	2	.28	SURVEILLANCE RESULTS (in. wc)	In	W. M. Call	2 100/12
1111	8	10140	, 5/	. 55	.13	OFF	0 5 5	OFF	. 41	. 41	. 27	,38	141	. 18	ESULTS	27	Fri.	2-22.13
11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	BP	0754	BFF	575	310	, 5/	,52	. 19	141	14.	. 27	. 38	141	. 2.8		79	Sat.	2-23-13
17/1	A	0750	のデア	0 F F	OFF	. 50	.50	, )7	14.	141	, 27	88.	14.	128		7.4	Sun.	2-24-13

Non TSR requirement:

Note: SR 4 1 1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Completed by: Coul Frield Date 2-2413 Time 0808 Reviewed by

Date 225-Blime: OU 26

Comments

Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 1 of 4)

	4.1.3.4			4.1.3.4										4.1.1.7				SRs				
(11 (000))	plenum (FF-820R) AP	North Blood off filter	(FF-820A) ΔF	North Bleed off filter		(** * * * * * * * * * * * * * * * * * *	filter plenum	200 area re-circulation		filter plenum	200 area re-circulation	(11.11.012)	filter plenum	Vault re-circulation		filter plenum (HVP-811) AP	Vault re-circulation	Description				
PDI-809-3	PDI-809-2	<sup>1</sup> PDI-809-1	PDI-807-3	PDI-807-2	<sup>1</sup> PDI-807-1	PDI-832-3	PDI-832-2	¹PDI-832-1	PDI-831-3	PDI-831-2	<sup>1</sup> PDI-831-1	PDI-841-3	PDI-841-2	¹PDI-841-1	PDI-840-3	PDI-840-2	¹PDI-840-1	Gauge				
$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{3}$ in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	≤2.0 & > 0 in <sup>1</sup> . wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Acceptance Criteria	Initials:	Weekday:	Date:	_
のデド	730	ロドド	.49	,79	: 11	649	72	, 23	12:	:4)	31	.50	• 5,2	144	621.5	57.By	87 B V		Pj	Mon.	2-18-13	(1 480
355	300	350	34	<b>3</b> 9		.49	.5.	.23	,36	14.	.31	.50	.52	. 44	510 7	STBY	STBY		g.m	Tue.	2/19/13	1 486 1 01 7)
120	70	off	. 49	.79	11.	.49	.51	24.	. 38	٠4٥	,31	.50	٠٠٠٠	. 44	अक्ष	5701	7818	SURV	Har	Wed.	2/20/13	_
7	9 P3	OH.	.48	.79	.//	.49	.57	. 23	.34	Ţ.,	<u>س</u>	. 50	.52	+ +	Story	Show	Star	SURVEILLANCE RESULTS (in. wc)	P	Thu.	2/21/13	-
OFF	940	0 F F	.49	79	, 11	.49	15.	, 23	.36	14.	. 31	, 50	. 52	, uu	STRY	5184	5784	ESULTS	79	Fri.	2 22-13	_
011	OFF	330	, 49	.79	, 1/	. 49	/ځ،	, 23	.36	14.	.31	.50	,52	, 44	5784	5784	5784		PJ	Sat.	2-23-13	
OFF	ořř	DEF	· 49	.79	. //	543	,51	. 23	, 34	, 4/	15.1	. 50	: 52	,44	5781	57811	< \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		79	Sun.	224-13	

Surveillance Rounds

Page 31 of 38

# ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 2 of 4)

		4.1.3.4				4.1.3.4					4.1.1.7				4.1.3.4		SRs			
	exhaust filter plenum (FF853) AP	100 area glovebox			exhaust filter plenum (FF852) $\Delta P$	100 area glovebox			filter plenum (HVP-804) AP	100 area re-circulation		filter plenum (HVP-803) AP	100 area re-circulation -		filter plenum (FF-828)	North Rassment exhaust	Description			
PDI-816-5	PDI-816-4	PDI-816-2	¹PDI-816-1	PDI-815-5	PDI-815-4	PDI-815-2	'PDI-815-1	PDI-835-3	PDI-835-2	<sup>1</sup> PDI-835-1	PDI-833-3	PDI-833-2	¹PDI-833-1	PDI-829-3	PDI-829-2	¹PDI-829-1	Gauge			
$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ tn. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	Acceptance Criteria	Initials:	Weekday:	Date:
.42	.41	141	, 30	STRY	57B4	57BY	5784	140	.42	. /3	:45	2 2	.86	, 2/	122	. 06		py	Mon.	2 -18-13
.42	.42	14.	32	\$7B4	¥272¥	5734	\$787	.40	.42	.13	. 44	.47	ئى	.2)	.22	.06		gw~	Tue.	1/2//2
<b>4</b>	<u> </u>	, 4°0	ب	5782	4757	5707	5784	۲,40	\$2	.(3	14.50	. 48	. 88	2 0	دلا	Ö	SURVI	The state of the s	Wed.	2-20-13
+4.	.£	.42	. 33	SHAV	3468	5 to (s)	27PM	.40	.43	. 13	.45	.47	98.	.2/	-23	.04	SURVEILLANCE RESULTS (in. wc)	<b>8</b> 0 <i>E</i>	Thu.	2-21-13
, r) <i>t</i> /	, 42	. H .	. 35	STRY	STBY	5 T B Y	<1R4	,41	443	. / 3	. 43	8 4 .	*86	. 2)	, 23	.06	ESULTS	77	Fri.	2-22-13
، ۲۰۲	. 42	, 42	, 35	5784	5784	STBU	STBY	.41	. 43	. 13	. 4. 3	84.	. 86	, 2/	. 25	10.		27	Sat.	2-23-13
h 6,	.42	, 42	58.	STBY	5781/	57BY	STBY	143	543	. 13	. H3	118	,28;	. 2/	. 22	.OL		Pr	Sun.	2:24-13

#### Page 32 of 38

# Surveillance Rounds ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 3 of 4)

4.1.3.4			4.1.3.4				4.1.5.4	1 2 2				4.1.5.4			SRs			
(HVP-863) ΔP	IFIT supply filter plenum		(FF-865) ΔP	IFIT exhaust filter plenum				exhaust filter plenum (FF851) ΔP	200 area glovebox				exhaust filter plenum (FF850) ΔP	200 area glovebox	Description			
PDI-863-2	¹PDI-863-1	PDI-865-3	PDI-865-2	¹PDI-865-I	PDI-813-5	PDI-813-4	PDI-813-3	PDI-813-2	¹PDI-813-I	PDI-812-5	PDI-812-4	PDI-812-3	PDI-812-2	<sup>1</sup> PDI-812-1	Gauge			
$\leq 2.0 \& >0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	Acceptance Criteria	Initials:	Weckday:	Date:
,41	٤٥٠.	, t <sub>t</sub>	333	. 63	.3/	, 29	. 28	, 29	, 67	STBY	STAY	5784	57.BY	5 TBV		79	Mon.	2-19-13
.41	.06	.41	32	.03	22	30	28	.29	.68	Stay	SYBY	57 34	STBY	STBY		q,v~	Tue.	2/19/13
٠, ٧٥	90,	, yo	.32	٠,٥٢	12.	. 30	. 25	۾ .	.66	87.87	29.63	6707	8781	8184	SURVI	Act	Wed.	2-28-13
\$	.06	. 40	. 32	. 0 <del>f</del> .	Silder	Stary	SHOW	SHOW	odby	. 3/	. 32	.30	. 35	.15	EILLANCE RESULTS (in. wc)	Ð	Thu.	2-21-13
.40	, 06	0 17	, 32	1 63	STBY	STBY	STBY	STRY	STRY	.31	.32	. 32	۶٤.	.15	SULTS	79	Fri.	2-22-13
0/2	. 06	140	.32	٧٥٠	5784	STBY	STRY	5784	STRV	.3)	,32	.32	. 35	, /5		77	Sat.	2: 23-13
.40	,06	14,	,32	. 63	5781	5781	57B11	57B'/	57BY	1 5 1	,32	.32	134	, 15		79	Sun.	2-24-13

# ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 4 of 4)

Non TSF			4.3.2.2	'NA		4.1.3.4	4.1.3.4	4134	SRs			
Non TSR requirement	OC Operator Re		Rooms 201, 204, 206, & 207	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	(HVP-809) ΔP	North corridor supply	(HVP-840) ΔP	North Basement supply	Description			
	view and Page C				PDI-856-2	'PDI-856-1	PDI-857-2	¹PDI-857-1	Gauge			
7	OC Operator Review and Page Count Complete (initials)	Completion time	0 lb/ft² combustibles within 3.5 feet within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	Acceptance Criteria	Initials:	Weekday:	Date:
	R	0811	SAT	SAT	, 6 H	07	. 48	201		4.4	Mon.	218-13
3	82	250	LKS.	SH	.63	.67	. H8	.67	,	QM	Tue.	2/19/12
\	P ros	0839	sat	Spt	.63	.07	.45	.67	SURV	es ce	Wed.	SI-04. P
10	3000/80	0856	497	SAT	. 42	.07	. 48	.15	SURVEILLANCE RESULTS	¥	Thu.	واسدو
	8	,0750	547	SAT	62	.07	. 45	.15	SULTS	PT	Fri.	2-22-13
	P	6/20	SAT	547	. 62	.07	. 47	. /5		74	Sat.	2-23- 13
1	A S	0807	5 A T	SAT	.62	.07	, 47	57,		+¢	Sun.	2-24-/3

Comments:

Completed by: fame June 2014 13 Time 0807 Reviewed by June Date 2015 Time: 0930

### ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

			M&TE Cali	M&TE Calibrated Data						
	PF-10 Thermometer File No.:	WASHLEED	PF-10 The	PF-10 Thermistor File No.:	12	では描	V-701 Th	V-701 Thermistor File No.:		040 373
Record September	Calibration Expiration Date:	S- 24-12 200	alibration	13 2 Wellalibration Expiration Date:	ر. از	18-13 m	Calibration	Calibration Expiration Date:		8-13
through April only	PF-11 Thermometer File No.:	w Shi Geo	PF-11 The	PF-11 Thermistor File No.:	\$2.52 \$2.52	14 h	V-704 Th	V-704 Thermistor File No.:	$\neg$	039744
	Calibration Expiration Date:	8-17-17-18	Calibration	Calibration Expiration Date		1413	Calibration	Calibration Expiration Date:		8-13-13
		5/14/13			×19017 8 13	13/13				
	PF-10 & PF-11 P	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	rature and \	V-701 & V-704	Fire Water	Storage Tank T	emperature			
			Date:	2-18-13	2 19-13 2	13	2/21/13	2/22/13	2.23.13	2/24/13
Daily (	Daily (September through April only)	v	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
			Initials:	P	P 7	7	4	4	P	B
SR Description	ion	Acceptance Criteria	riteria						22	11
NA ENSURI and calib	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	ed Calibration dates have not elapsed.		SATI/UNSAT 6	<b>EAT</b> JUNSAT	(AT)UNSAT	(SA) JUNSAT	<b>SAD</b> /UNSAT	SATYUNSAT (SATYUNSAT	TASNU (AS)
4.3.1.1 RECORI	RECORD fire water storage tank V-701 temperature	e ≥ 42.1 F		46,4	46.2	469	45.6	47.6	46.0	45.9
4.3.1.1 RECORI	RECORD fire water storage tank V-704 temperature	re ≥ 42.1 F	*,	46.1	46.44	6.6		46.5	45.9	45.7
4.3.1.3 <sup>1</sup> RECORI	RECORD PF-10 room temperature	≥ 50.1 F	1)	54.3	57,4	59.4	57.7	58.6	56.8	56.6
4.3.1.3' RECORI	RECORD PF-11 room temperature	≥ 50.1 F		67.9	61,3	<i>6</i> %.੧	(GE-)	64.8	8.43	63.9
		Completion Time:	ion Time:	1650	10:13	0925	5907	0803	2h80	0959
	OC Operator Review and Page Count Complete (initials)	Page Count Complete	:	20	0	) B	935	× 83	8	A
Temperatures should be recorded using Reference Thermometer ETHKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 for annoyed engineered equivalent)			(initials)							

Reviewed by: \_\_\_\_ On-duty Supervisor

Date: 2-25-13 Time: 0925

Date 2/24/13

Time 0959

Comments:

Completed by:

#### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

				0.00	`				
	Note	Date:	02/25/13	2/26/13	02.07.13	81-82-20			
Gauge re	Gauge readings should be	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
whenever	whenever possible. Document if	Shift:	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
alternate P	alternate PDIs are used.	Initials:	0000	BU TE	SC 02	77 Jee C			
SRs	Description	Gauge Acceptance Criteria	(	6	SURVEI	SURVEILLANCE RESULTS	RESULTS		
	200 area glovebox exhaust header ΔΡ	PDI-814-1 or ≤-1.0 in. wc¹ PDI-814-2	2.04 7.06	10 t 30.2	1520	205 204			
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or $\leq$ -1.0 in. wc <sup>1</sup> PDI-820-2	98,1	18/ 88/	981-06-1-	7.89 1.90			
	300 area glovebox exhaust header ΔP	PDI-870-1 or <-1.0 in. wc <sup>1</sup> PDI-870-2	-1.98 198	198 /198	-198-197	1,08 \1.99			
	400 area glovebox exhaust header ΔP	PDI-864-1 or <-1.0 in. wc <sup>1</sup> PDI-864-2	1.97 197	1.98	-138 -196	2.98 1.97			
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or <-0.05 in. wc <sup>1</sup> PDI-803-2	ot. O 121.0	D, O 02.00	7,9 -,19	Dr. 810			
	100 area laboratory PDI-802-1 or header ΔP PDI-802-2	PDI-802-1 or <-0.05 in. wc <sup>1</sup> PDI-802-2	14.0 22.0.	20,0	n. n.	Dr. 120,00			
$4.1.1.2 \\ 4.1.1.5 \\ 4.1.2.2^{2}$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or <-0.05 in. wc <sup>1</sup> PDI-853-2	,0,23 ,0,23	10.0% Ser. O. 22	32: 52.	P. M. C. C.			
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or <-0.05 in. wc <sup>1</sup> PDI-852-2	0.20 D. 20	الإوراد	720 721	,019 [N. 1910]			
	IFIT Facility AP	PDI-865-4 or <-0.05 in. wc PDI-865-5	10.00 p.0.	04.0 19 00	19 19	JUNA ,19			
	North basement AP	PDI-804-1 or < 0.00 in. wc PDI-804-2	0,10	0,00	710 210	,010 JO			
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	PDI-854-1 or < 0.00 in. wc PDI-854-2	1.00	0	01.0	11 Mg			
	IRT Tunnel AP	PDT-901 or < 0.00 in. wc PDI-901	210,012	0.13/	121: 20	A11-500			

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					4.1.1.6					SRs	and local pl be used if F	FMT#151	Readings should busing FCS screens	
fan/ plenum	Vault re- circulation	plenum	400 area re- circulation fan/	plenum	300 area recirculation fan/	plenum	100 area re- circulation fan/	plenum	200 area re- circulation fan/	Description	and 202LD ried ventication and local plenum PDIs may be used if FCS is unavailable.	FMT#151,152,201LD	Readings should be taken using FCS screens	Note
FR-812 Icon red and PDT-841 ΔP > .050		FR-808 Icon red and PDT-839 ∆P > .050	FR-807 Icon red and PDT-838 ∆P > .050 or	PDT-837 ΔP > .050	FR-805 Icon red and PDT-836 $\Delta P > .050$	FR-804 Icon red and PDT-835 ∆P > .050	FR-803 Icon red and PDT-833 AP > .050	FR-802 Icon red and PDT-832 ΔP > .050	FR-801 Icon red and PDT-831 ∆P >.050 or	Readings				
service	At least one fan/plenum is in	service	At least one fan/plenum is in	service	At least one fan/plenum is in	service	At least one fan/plenum is in	service	At least one fan/plenum is in	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:
Unsat   Unsat	(Sat) (Sat)	Unsat	Sat Sat	Unsat	(Sat) (Sat)	Unsat	Sat Sat	Unsat	(Sat) (Sat		8	AM PM	Mon.	02/25/13
ut Unsat U	Sat	it Unsat U	Sat	at Unsat U	Sat	at Unsat U	Sat	at Unsat U	(Sat)		E.		Tue.	02/26/13
nsat Unsa	(Sa) (Sa)	nsat Unsa	Sat Sat	nsat Unsa	Sat Sat	nsat Unsa	Sat Sat	Insat Unsa	Sat Sat	SUS	2	AM PM AM PM AM		
ut Unsat	Sat	at Unsat	(Sap	at Unsat	<b>Sa</b>	at Unsat	Sat	at Unsat	(Sa)	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	7	1 PM	Wed.	02-26-13
Unsat	Sat	Unsat U	Sat	Unsat	Sat	Unsat	Sat	Unsat U	Sat	LANC nsat. (	\$ 2	AM I	Thu.	02/28/13
nsat Ur	Sat)	nsat Ur	(Sat)	nsat Ur	Sal S	nsat Ur	S	nsat Ur	SS	E RE	2	PM A		199
ısat Un	Sat Sat	ısat Un	Sat   Sat	ısat Un	Sat   Sat	ısat Un	Sat   Sat	ısat Un	Sat   Sat	SULT one)		AM PM	Fri.	
satUns	at Sat	sat Uns	at Sat	sat Uns	at Sat	sat Uns	at Sat	sat Uns	at Sat	S				
sat Unsa	at Sat	sat Unsi	at Sat	;at Uns:	at Sat	sat Unsi	at Sat	sat Unsa	at Sat			AM PM	Sat.	
at Unsa	t Sat	at Unsa	t Sat	at Unsa	t Sat	at Unsa	t Sat	at Unsa	t Sat			1 AM	S	
tUnsat	Sat	tUnsat	Sat	tUnsat	Sat	Unsat	Sat	t Unsat	Sat			I PM	Sun.	

#### Surveillance Rounds ATTACHMENT A: Per Shift Surveillance Rounds (Page 3 of 3)

			4.1.1.4		SRs	i Dis usca.	be used if ned	Gauge readi	:
		and 400	< laboratory \( \Delta P \)s < basement \( \Delta P \)s for areas 100, 200, 300	Glovebox exhaust header APs	Description		be used if necessary. Document any alternate	Gauge readings should be taken on rack #4 in the OC when possible. Jocal PDI equivalents may	Note
	400 Area	300 Area		200 Area	Area		nt any alten	ken on rad Geguivaler	
Comple	PDI-864-2 PDI-852-2 PDI-854-2	PDI-870-2 PDI-853-2 PDI-854-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-814-2 PDI-803-2 PDI-804-2	Gauge		mate	ck #4 in its may	
Completion Time	PDI-864-2 PDI-852-2 PDI-854-2 PDI-854-2 2 < PDI-854-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	PDI-820-2 PDI-802-2 PDI-804-2 PDI-804-2 PDI-804-2	PDI-814-2 PDI-803-2 PDI-804-2 PDI-804-2 PDI-804-2	Acceptance Criteria	Initials:	Shift:	Weekday:	Date:
5742 0724 0724 0723	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) (Sat (Sat) Unsat Unsat Unsat	,	200	AM	Mon.	02/20
Mad	<b>&amp;at</b> Unsat	Sat Unsat	Sax Unsat	(Sax) Unsat		B	PM	Ď	5/13
0724	(Sa) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat Unsat	<b>)</b>	8	AM	Tue	02/25/13 02/26/13
1779	(Sad Unsat	Sat	ξat Unsat	Sat Unsat	5	B	PM	Ĭē.	6/13
0723	Unsai	Unsat	Unsat	Unsat	SU	200	AM	Wed	82.27.13
<u>x</u>	(Sat) Unsat	(Sa) Unsat	CSay	Jnsat Unsat U	Sat. / Unsat. (circle one)	5	PM	ed	3.53
Gres 8169	Unsat	Sat) Unsat	(Sar Unsat	(Ŝat) Unsat	LLAN	38 BC	AM	Thu.	02/20/13
(FE)	(Sat) Unsat	Sat) (Sat) Insat Unsat	Unsat Sa	Unsat	CE R	36 C	PM	u.	13
	Sat Unsat	Sat Unsat	Sat Unsat	Sat Sat Unsat Unsat	LANCE RESULTS nsat. (circle one)		AM	711	
	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	CTS		PM	Fri.	
	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat			AM	Sat.	
	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat			PM	at.	
	(Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) Sat   Sat   Sat   Sat   Sat   Sat   Sat   Sat   Sat   Unsat   Unsat	(Sat) (Sat) (Sat) (Sat) (Sa) (Sat) (Sat) Sat Sat Sat Sat Sat Sat Sat Sat Unsat	(Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) Sat   Unsat   Unsat	(Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) (Sat) Sat Sat Sat Sat Sat Sat Sat Unsat Un			AM	Sı	
	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat			ΡM	Sun.	

Comments:	Completed by: Date 2-24-13 Time 1819	Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.
	Completed by: Date:31-13 Time 1997 Reviewed by: Date:31-13 Time: 0815	

# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of  $(\ge -0.1; \le 0.1)$ . **SR 4.4.1.1**, The OPERABILITY acceptance criterion for this surveillance is:

The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage

			4.4.1.1	SR				
	(LCD Reading) (LED Reading)	(DET-305-3) - (CP-305H)	CP-305-H (LED Reading)	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Description / Gauge			
Completion Time: 0820	≥ -0.1; ≤+0.1	Record Calculated Value		NA	Acceptance Criteria	Initials:	Weekday:	Date:
0820	Sat) Unsat.	0,0	0.3	0.3		M	Mon.	Date: 1/5//3
CTHY	Sat/ Unsat. (Sat/ Unsat.	G. 0	0.3	O.W	7.0	7	Tue.	2-26-13
0757	(Sat.)/ Unsat.	Ø.0	6.2	Ö W	SURVEILLANCE'	3	Wed.	2-27-13
0801	Sat. / Unsat. Sat. / Unsat. Sat. / Unsat.	0.0	0.3	0.3	CE'RESULTS	an	Thu.	2/18/13
	Sat. / Unsat.				RESULTS (percentage)		Fri.	
	Sat. / Unsat.						Sat.	
	Sat. / Unsat.						Sun.	

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 2 of 4)

				(1 486	1 age 2 OI +)					
•			Date:	2/25/12	2-26-13	2-27-13	218.13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	).m-	<b>*</b>	12	3			
SRs	Description	Gauge	Acceptance Criteria	-3		SURVE	VEILLANCE RESULTS	SULTS		
4.1.3.4	South basement	'PDI-894-I	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	90.	, o S	O	O			
ě	supply filter plenum (HVP-841) $\Delta P$	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	545	3 <del>1</del> 5	ર્પુક	. 45			
	South Corridor	1-895-I	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 94	့ ဝင္	် ၀၈	. 6			
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	93	.92	ુ <b>ય</b> િ	.97			
		<sup>1</sup> PDI-817-1	$\leq 2.0 \& > 0^{1}$ in. wc	.22	.27	. 27	<i>l</i> 1.			
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^{1} \text{ in wc}$	<u>ل</u>	.30	.30	.3)			
ę	exhaust filter plenum (FF854) $\Delta P$	PDI-817-4	≤2.0 & > 0 <sup>1</sup> in. wc	٥٥	, 3		ပ			
		PDI-817-5	$\leq 2.0 \& > 0^{1} in. wc$	.29	.30	. 29	. 30			
	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	115	<u>.</u>	.포	<u>'4</u>			
4.1.3.4 ex	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.41	.A)	ř.	4			
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	36	.35	. 35	. 3 <b>%</b>			
		¹PDI-818-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	5767	STBY	25.67			
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5784	STRY	A91.5	STEY			
ex	exhaust filter plenum (FF855) $\Delta P$	PDI-818-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	ट्राह्म	SIBS	হাজ			
		PDI-818-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5-134	5187	564	STBY			
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STAY	5767	5784	KAIS			
4.1.3,4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1$ in. wc	1572	STEN	SBY	APIS			
	(FF859) AP	PDI-821-4	<2.0 & > 01 in. wc	\$104	STBY	SIGY	সম্প			

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# Surveillance Rounds ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

				, (1 ago	1 age 2 01 T)					
			Date:	2/25/3	2-26-05	227-13	2-28-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	In	<b>1</b> 2 m	WY	mer			
SRs	Description	Gauge	Acceptance Criteria			SURVI	VEILLANCE RESULTS (in. wc)	SULTS		
		¹PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57134	5.784	787S	STBY			
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	5164	ह्या ह्य	STAY			
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	57BY	STAY	डाक्र	STBY			
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5784	STAY	STBY	SIBY			
		¹PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.83	. 63	. 93	84			
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^{1}$ in. wc	.42	.42	.42	٠ ٢٢.			
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5		117	<del>ر</del>			
		PDI-823—5	≤2.0 & > 0¹ ın. wc	50	50	.50	.50			
	South Basement exhaust	¹PDI-830-1	$\leq 2.0. \& > 0^1$ in. wc	,	.57	.57	.57			
4.1.3.4	filter plenum	PDI-830-2	≤2.0 & > 0 <sup>1</sup> in. wc	35	. 34	. <b>3</b> %	. 32			
	(A A - 0 A ) GA	PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	30	. 3c	.30	.30			
	300 area re-circulation	<sup>1</sup> PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ż	6.7	.88	. 88			
	filter plenum	PDI-836-2	$\leq 2.0 \& > 0^{1}$ in. wc	<i>y</i> 4	. 55	Ė	.56			
4.1.1.7	(33.7 % 000) 65.	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.51	.52	.52	.52			
	300 area re-circulation	¹PDI-837-1	$\leq 2.0 \& > 0^{1}$ in. wc	.61	.61	6	. 6e t			
	filter plenum	PDI-837-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}^{-1}$	<b>.5</b> 0	٠ ٢	.50	.50			
	( 11 7 X -000) AX	PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	96	L	.47	.47			

### ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				(	1					
			Date:	2/25/13	2-24-45	2-27-13	2-28-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
			Initials:	In	7 %	W.Y.	1/1			
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	¹PDJ-838-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,28	.28	. 28	. 28			
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, <del>4</del> 1	<u>L</u>	¥	ř.			
4.1.1.7	(HVF-80/) AF	PDI-838-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	24	i.	, ya CO	, 36 8			
	400 area re-circulation	¹PDI-839-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.27	. 27	.28	. 16			
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	41	<u>1</u>	. 또)	٠ <del>٠</del>			
	( M v r - 808) Ar	PDI-839-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	141	. 시	.4 <sub>1</sub>	. 4 በ			
	South Bleed off filter	<sup>1</sup> PDI-810-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 17	ï		.17			
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^{1}$ in. wc	.50	.50	. 50°	.50			
	(11.0220) 01	PDI-810-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.49	.50	.50	.50			
	South Bleed off filter	<sup>1</sup> PDI -811 - 1	$\leq 2.0 \& > 0^{1}$ in wc	04.5¢	CA	0FK	of a			
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^{1}$ in. wc	4 <del>1</del>	0 F	OFF.	97			
	(FF-022B) Ar	PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	740	०त	965	७स			
			. Completion Time	2580	2180	0833	0880			
000	OC Operator Review and Page Count Complete (initials)	age Count Comp	lete (initials)	mon Ros	000 60	1 78	88 M			
Non TSR requirement:	ment.					0	-			

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Completed by: Date 2-28 13 Time Cesso Reviewed by: Date 2-28 13 Time

Comments

Date: 3-(-13 Time: 08)-0

LA-UR-13-25881

TA55-STP-004, R15.1 Surveillance Rounds Page 30 of 38

# ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 1 of 4)

	4.1.3.4			4.1.3.4										4.1.1.7				SRs				
	plenum (FF-870B) AP	Name Disable of Glass	(FF-820A) AF	North Bleed off filter plenum			filter plenum (HVP-802) AP	200 area re-circulation	13	filter plenum (HVP-801) AP	200 area re-circulation	(22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	filter plenum	Vault re-circulation		filter plenum (HVP-811) AP	Vault re-circulation	Description				
PDI-809-3	PDI-809-2	¹PDI-809-1	PDI-807-3	PDI-807-2	'PDI-807-1	PDI-832-3	PDI-832-2	<sup>1</sup> PD1-832-1	PDI-831-3	PDI-831-2	¹PDI-831-1	PDI-841-3	PDI-841-2	¹PDI-841-1	PDI-840-3	PDI-840-2	¹PDI-840-1	Gauge				
$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in wc}$	$\leq 2.0 \& > 0^1 \text{ in wc}$	≤2.0 & > 0 in¹ wc	$\leq 2.0 \& > 0^1 \text{ in wc}$	Acceptance Criteria	Initials:	Weekday:	Date:	
o FF	J.J.	750	.48	.78	È	. 4 <i>q</i>	.51	.23	.38	.41	. 3)	.50	:5/	.44	57.04	\$104	5584		J.M.	Mon.	2/25/13	(rage
of a	e fr	Ž.	٠48	79	-1	.49	. 5]	. 22 23	.38	ah	<u>.</u>	. 50	٠ 52	th.	57.04	57737	15178	1	25	Tue.	2/26/13	rage 1 of 4)
25	g B	25	. #	.79	. 10	- - - - - -	. 81	.23	. 37	.41	<u>अ</u>	.50	.52	<del>,</del> +	Story	Short	Stor	SURV	POE	Wed	2/27/13	
o fi	23.0	250	47	.79	.10	٠,45	.51	. 23	.37	. 41	.31	.50	52	. 44	STBY	STDY	STB Y	SURVEILLANCE RESULTS (in. wc)	Que	Thu.	2/25/13	
																		SULTS		Fri.		
																				Sat.		
																				Sun.		

Surveillance Rounds

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# ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 2 of 4)

			Date:	2/25//3	(rage 2 01 4)	2-27-13	2/26/13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	gr	jt Z	Ð	em			
SRs	Description	Gauge	Acceptance Criteria			SURVI	EILLANCE RESULTS (in. we)	SULTS		
		1-628-1Ud,	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.06	.હ <b>િ</b>	۲۵.	.06			
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \& > 0^{1} in. wc$	.25	٠2٢	.25.	.21			
	ç	PDI-829-3	$\leq 2.0 \& > 0^{1} \text{ in wc}$	.21	. 22	. 22	20			
	100 area re-circulation	¹PDI-833-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.85	585	A3.	86			
	filter plenum	PDI-833-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	46	.45	94.	946			
4.1.1.7	(H V I - 000) AX	PDI-833-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	<b>3</b>	.45	£	94			
	100 area re-circulation	<sup>1</sup> PDI-835-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.13	. 13		• i3			
	filter plenum	PDI-835-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	42	£ .	5	.45			
	(11 71 -007) (31	PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.40	. 40	ਨੂੰ	.4o			
		<sup>1</sup> PDI-815-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ST By	5754	Stowy	\$1734			
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	57.84	6707	Stary	STAY			
	exhaust filter plenum (FF852) ΔP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	87BY	5707	SHOW	STBY			
		PDI-815-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBV	121.53	Stan	<b>9</b> 784			
		¹PDI-816-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.39	. GD	. 35	.33			
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.42	, 43°	.£2	115			
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 45	E	.42	42			
		PDI-816-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	34.	4	, <del>†</del>	.42			

# ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 3 of 4)

				3 20	(x 480 0 0x 1)					
			Date:	2/15/13	2-26-13	2-27-13	2/28/13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	lin	sa	É				
SRs	Description	Gauge	Acceptance Criteria	,		SURVI	EILLANCE RESULTS (in. wc)	SULTS		
	200 area glovebox	¹PDI-812-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	51.	٠١٢	-15	51.			
	exhaust filter plenum (FF850) \( \Delta P	PDI-812-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.35	. 35	.35	.35			
4.1.3.4		PDI-812-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.36	.35	.35	.35			
		PDI-812-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	3/	. دي	.32	32			
		PDI-812-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	30	. 30	.30	ين			
	200 area glovebox	¹PDI-813-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	57BY	57 137	Sta	SIBY			
	exhaust filter plenum (FF851) ΔP	PDI-813-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	2002	SHOW	STBY			
4.1.5.4		PDI-813-3	$\leq 2.0 \& > 0^{1}$ in wc	54.136	87/31	SH	2704			
		PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	SIBY	5704	2467	57B Y			
		PDI-813-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5734	5784	SHOY	481.5			
	IFIT exhaust filter plenum	¹PDI-865-1	$\leq 2.0 \& > 0^{1}$ in wc	.03	70	.03	.03			
4.1.5.4	(FF-865) ΔP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.34	.32	. 35	. 33			
		PDI-865-3	$\leq 2.0 \& > 0^{1}$ in. wc	411	. tte	<u>+</u>	.40			
	IFIT supply filter plenum	<sup>1</sup> PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,06	٠٥٧	٠٥١٠	.06			
4.1.3.4	(HVP-863) ΔP	PDI-863-2	$\leq 2.0 \& >0^1 \text{ in. wc}$	ī	Č L	<u>÷</u>	14.			

## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 4 of 4)

				1 182	( u50 : 0x ·)					
			Date:	2/25/13	21-26-13	7-27-13	2/28/13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	gm	sec	H2	Jan-			
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	SULTS		
	North Basement supply	¹PDI-857-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	./5	. ا ی	-15	. 15			
4.1.3.4	(HVP-840) ∆P	PDI-857-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	£.	8h′	. <del>48</del>	\$4.			
4.1.3.4	North corridor supply	¹PDI-856-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	٠67	٠٥٠	,07	. <sub>გ</sub> ე			
	(HVP-809) ΔP	PDI-856-2	$\leq 2.0 \& > 0^{1} \text{ in wc}$	.63	٠6٢	+4.	18			
N <sub>A</sub>	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE822C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	SIT	Sp +	N FT	SAT			
4.3.2.2	Rooms 201, 204, 206, & 207		o lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	v p t	S 47	SAT			
			Completion time	2	3	2000	o o			
	OC Operator Re	view and Page C	OC Operator Review and Page Count Complete (initials)	क्ष्र्य ००००	80 930 930	1	80			
Note: SR 4	Note: SR 4 1 3 4 applies during mode 1 and mode 2	and mode 2				0				

Completed by Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Comments:

Date 2/1/1/2 Time 07/8 Reviewed by: bow On-duty Supervisor

### ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

		М&	M&TE Calibrated Data	p					
	PF-10 Thermometer File No.: 036	039145 PF-	PF-10 Thermistor File No.:		642254	V-701 The	V-701 Thermistor File No.:	°: 040373	373
Record September	Calibration Expiration Date: 5 14	5) 14) 13 Calit	Calibration Expiration Date:	Date:   5   30	<del>30)</del> 13	Calibration	Calibration Expiration Date:	ite:   8) 13/13	1/13
through April only	PF-11 Thermometer File No.: 639	р	PF-11 Thermistor File No.:	e No.: 0403	376	V-704 The	V-704 Thermistor File No.:		144
	Calibration Expiration Date: 5)	5) 14) 13 Calib	Calibration Expiration Date:		8) 13/13	Calibration	Calibration Expiration Date:	lte: 8/13/13	3/13
	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	use Room Temperatu	re and V-701 & V-	704 Fire Water	Storage Tank T	emperature			
			Date: 2/25/13	2/26/13 2	2/27/13	2-28-13			
Daily (Se	Daily (September through April only)	Weekday:	day: Mon.	Tue	Wed.	Thu	Fri.	Sat.	Sun.
		Init	Initials:	4	an-	74			
SR Description	n	Acceptance Criteria	ria					,	
NA ENSURE A and calibrat	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	e SATIVINSAT	TASHUNTAS	<b>EAT</b> UNSAT	SAT JUNSAT SAT JUNSAT	SAT /UNSAT	SAT /UNSAT	SAT /UNSAT
<b>4.3.1.1</b> RECORD f	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	45.9	46.5	45.9	47			
4.3.1.1 <sup>1</sup> RECORD f	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	47.6	47.1	45.8	45.5			
4.3.1.3 <sup>1</sup> RECORD F	RECORD PF-10 room temperature	≥ 50.1 F	57.3	59.2	58.4	59.9			
4.3.1.3 <sup>1</sup> RECORD F	RECORD PF-11 room temperature	≥ 50.1 F	65.8	65.9	645	62.7			
		Completion Time:	ime: 6910	0925	0905	0840			
	OC Operator Review and Page Count Complete (initials)	Count Complete (init	ials) NO ASS	2000	of BL	BY NO			

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

On-duty Supervisor	Reviewed by: Bank R Class	Completed by: Park Triple
	Date: 3-1-13 Time: 0822	Date 2 - 2 g - 13 Time 0 8 4

Comments:

# ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) (Page 1 of 2)

1	70.		NA	Seconds			
	A NA		Sat. / Unsat.	AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is $\leq 30$ seconds.	MOLUIMESE	Continental Door DX-102	1.1.3.2
>	NA NA	21.4	Sat / Unsat	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Nothing		
N	81/2/18	1201 3/6/3	Sat Unsat	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Northeast	Confinement Door DR-149	4.1.3.2
*	NA NA	NA	Sat. / Unsat.	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Southeast	Confinement Door DR-344	4.1.3.2
Initials	Date:	Completion Time:	Sat or Unsat.	Acceptance criteria	Location	Equipment	SRs

Page 20 of 29

#### Attachment B, Surveillance Training Checklist (Page 2 of 2)

#### Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance	Training Current
Workers Forterming out vernance	Initials	Date
J. MARTINEZ	ВС	1.1.13
T LANGWORDLY	BC	1.1.13
P TRUILLO	ВС	1.1.13
N HONTOVA	86	1.1.13
A SANCHEZ		1.1.13
& Overz	Bc	1.1.13
M leisy	BC	1.1.13
A HEBBERA	BC	1.1.13
		<u> </u>

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

should be in the C.  Shift: AM PM PM AM PM	Note		Date:	٤	(C to 1 0gn 1)			1-2-13	///				(1/9
Shift: AM PM AM	e ss should be #4 in the OC		Weekday:	Mon.	/////Tue.	1/2/18 Wed.		Chu.		~	Sat.	<u> </u>	3un.
SURVEILLANCE RESULTS	ole. Document if		Shift:					1 PM	AM		AM PI	_	1 PM
SURVEILLANCE RESULTS  (in. wc)  = -1.0 in. wc¹ 1.0 in. wc¹   1.0 in. wc¹  1.0 i	e used.		Initials:			9			181	8			8
=-1.0 in. wc <sup>1</sup> =-1.0 in. wc <sup>1</sup>   \( \lambda \rightarrow{\text{Cos}} \) \( \lambda \rightarrow{\text{Cos}} \	scription	Gauge Acceptan	nce Criteria			SURV	EILLA (i)	NCE I	RESUI	CTS		J 	
=-1.0 in. wc <sup>1</sup> =-1.0 in. wc <sup>1</sup>	area glovebox aust header ΔP		-1.0 in. wc <sup>1</sup>		301-102	1.03		3 -201	40.4	503	1.04-7.0		7.01
\$\left\{ \text{-1.0 in. wc} \text{-1.94}   \	0 area glovebox naust header ΔP	PDI-820-1 or PDI-820-2	-1.0 in. wc <sup>1</sup>		45°)-08°/	1- bg: 1-		\$	80.	0,0 0,0	87	8.	180
=-1.0 in. wc¹	) area glovebox iaust header ΔP	j.	-1.0 in. wc <sup>1</sup>		1991	1-86-1-		661- 81	g5)	- 28)	61-8-19	75.1	1.58
\$\leq -0.05 \text{ in. wc}\$\rightarrow{\circle{1.9}}{\circle{1.9}} \frac{1.9}{\circle{1.9}} \fra	0 area glovebox naust header ΔP	PDI-864-1 or PDI-864-2	-1.0 in. wc <sup>1</sup>		197 7.97	11.97		28-13	1.61	1-47-	F1- L15	7.19	157
\$\left\{ \cdot \text{in. wc} \right\{ \text{o.} o.	area laboratory ader ΔP		0.05 in. wc		P10	10,19		61. 9	8,00				91.
\$\left\{\sigma}\text{in. wc}\text{  \text{o.}   \text{o.}   \text{o.}   \text{o.}   \text{o.}	area laboratory header ΔP		0.05 in. wc <sup>1</sup>		7.	27.0	150		12.0	7	33. 2		1.22
\$\leq \text{-0.05 in. wc}\$\rightarrow{\text{-0.05 in. wc}}\$\rightarrow{\text{-0.05 in. wc}}\$\rightarrow{\text{-0.07 in. wc}}\$\rightarrow{\text{-0.09 in. wc}}\$\rightarrow{\text{-0.00 in. wc}}\$\righta	area laboratory header ΔP		).05 in. wc <sup>1</sup>		52.	h2.9		12,	10°	К	2: 175		5.
PDI-865-4 or \$\left\{-0.05 \text{ in. wc}}\\ \text{PDI-865-4}\\ \text{PDI-865-5}\\ \text{PDI-865-5}\\ \text{PDI-865-5}\\ \text{PDI-865-5}\\ \text{PDI-804-1 or }\\ \left\{-0.00 \text{ in. wc}}\\ \text{PDI-804-2}\\ \text{PDI-804-2}\\ \text{PDI-854-2}\\ \text{PDI-854-2}\\ \text{PDI-854-2}\\ \text{PDI-854-2}\\ \text{PDI-901 or }\\ \left\{-0.10 \text{ in. wc}}\\ \text{PDI-901}\\ \text{PDI-901-901}\\ \text{PDI-901-901}\\ \text{PDI-901-901}\\ \text{PDI-901-901}\\ \text{PDI-901-901}\\ \text{PDI-901-901}\\ \text{PDI-901-901}\\ \text{PDI-901-901-901}\\ \text{PDI-901-901-901-901}\\ PDI-901-901-901-901-901-901-901-901-901-901	area laboratory header ΔP		).05 in. wc <sup>1</sup>		2	70,0		33	1no	3		<u> </u>	2.
PDI-804-1 or < 0.00 in. wc PDI-804-2 bril or < 0.00 in. wc PDI-854-1 or < 0.00 in. wc PDI-854-2 bril or < 0.00 in. wc PDI-901 or < 0.00 in. wc PDI	IT Facility AP		£-0.05 in. wc		5	P1.0-		61.	6/0				21.
PDI-854-1 or < 0.00 in. wc pDI-854-2	rth basement AP	PDI-804-1 or PDI-804-2			3.10	01.00		01,1	0,0	0		0,0	0,
PDT-901 or < 0.00 in. wc   0.13   0.13   0.14   0.15   0.1	th basement AP	PDI-854-1 or PDI-854-2	0.00 in. wc		n. 0, 1	2,0			100	5		I	1.
	RT Tunnel AP				251: N. V	30,00	32	2-127	18,0	32	13( )(1)	1.0	1/2

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					(Fag	(Fage 2 of 5	5)				,				
;	Note		Date:			1/1/3	1/2	1/2/13	1-3-13	<u>u</u>	2/4/13		1(5(13	7	1/1/3
Readings	Readings should be taken using FCS screens		Weekday:	Mon.	n.	Tue.	*	Wed.	Thu.	r.	Fri.		Sat.		Sun.
FMT#15	FMT#151,152,201LD		Shift:	AM	PM /	AM PM	1 AM	1 PM	AM	PM	AM P	PM A	AM PM	ИАМ	A PM
and 2021 and local p be used if I	and 2021.D. rield venncation and local plenum PDIs may be used if FCS is unavailable.		Initials:			18	P	3	9	3	Jan 18	∑ ₹	Š.	bo	as A
SRs	Description	Readings	Acceptance Criteria			<b>\</b>	SCI	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	LAN Jusat.	CE R (circl	ESUL' e one)	LS			<b>b</b>
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 △P>.050 or	At least one fan/plenum is in	Sat	Sat (	ASS.	Çat	Sat	(Saf)	Sat	Sat	Sat	(Sa)	(Feg)	8
	plenum	FR-802 Icon red and PDT-832 AP >.050	service	Unsat	Jnsat	Unsat	atUnsa	ıt Unsat	Unsat	Unsat	Jnsat Un	sat Un	sat Uns	sat Uns	at Uns
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 $\Delta P > .050$ or	At least one fan/plenum is in	Sat	Sat (	Sal Sal	Sat		3	(\$\$)	Say	Sat	Sat Sat		
	plenum	FR-804 Icon red and PDT-835 \( \D P > .050 \)	service	Unsat	Jnsat U	Unsat	at Unsa	ıt Unsat	Unsat	Unsat	Insat Un	sat Un	sat Uns	at Uns	at Unsi
4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in	Sat	Sat (	Sat	Sat		Sat	Sat	&at &	Sat	(S)	Sat	<b>®</b>
	plenum	FR-806 Icon red and PDT-837 △P>.050	service	Unsat [	Jnsat U	Unsat	at Unsa	ıt Unsat	Unsat	Unsat [	Jnsat Un	sat Un	satUns	sat Uns	at Unsa
	400 area re- circulation fan/	FR-807 Icon red and PDT-838 $\Delta P > .050$	At least one fan/plenum is in	Sat	Sat	Sat Sat	Sat	(SE)	PES)	Sat	Sat	Sat (Sa	Sat) (Sat)	Sat	t)
	plenum	FR-808 Icon red and PDT-839 △P >.050	service	Unsat	Jnsat U	Unsat	at Unsa	t Unsat	Unsat	Jnsat L	Insat Un	sat	sat Uns	at Uns	at Unsa
	Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$	At least one	Sat	Sat (	Jes Jes	Sag	Sat	) PES	(Sat	Sat	Sat	Sat Sat	Sat Sat	
	fan/ plenum	FR-812 Icon red and PDT-841 $\Delta P > .050$		Unsat	Jnsat U	Unsat	at Unsa	t Unsat	Unsat	Jnsat [	nsat Un	sat Un	sat Uns	sat Uns	at Unsi

Surveillance Rounds

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### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

				_					
21/	Sun.	PM	100		Unsat	Unsat	Unsat	Onsat	1936
9/1	. So	AM	18		(Sat Unsat	Sat	Sat Unsat	Unsat	06.35
3		PM	8		Sat Unsat	Sat	Unsat	Tes Tes	7861
1/5/13	Sat.	AM	Ð	]		Say Unsat	Sar	Say (Sat) Jusat Unsat	0630 1925 DISO 1932 0638 1936
//3	:	PM	183	TS	(Say Unsat Unsat	Say (Say Unsat Unsat	Unsat	©lsat	1925
1/2/	Fi	AM	3	ESUL e one)	Sat	Unsat	Unsat	Unsat	0630
r)	n.	PM	3	CE R (circl	Sat Omsat	Sat	Sat	Sat Unsat [	0561
1-3-13	Thu.	AM	9	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	(Sa) Unsat	Éát Unsat	Sat Unsat	Čat Unsat	DER 1820
	òd.	PM	ರ	RVEII Sat. / U	Sat	Cast Cast Cast Cast Cast Cast Cast Cast	Sat	Sat	1984
1/2/13	Wed.	AM	P	SUI	(Sat Unsat	Sat Sat Unsat Uneat	Sat Unsat	Unsat	1790
1,3		PM	8		Sat	Sat Unsat Umsat	Sat Unsat	Sat Taga	1928 0641
////	, Tue.	AM	13/		Sat	Unsat	Sat Unsat	Unsat	0635
,	ın.	PM			Sat Sat Unsat Unsat	Sat Unsat	Sat Sat Jnsat Unsat	Sat Unsat	
	Mon.	AM			Sat Unsat	Sat Sat Unsat Unsat	Sat Unsat	Sat Sat Unsat Unsat	
Date:	Weekday:	Shift:	Initials:	Acceptance Criteria	PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-820-2 PDI-802-2 PDI-820-2 < PDI-802- PDI-804-2 2 < PDI-804-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	PDI-864-2 PDI-852-2 PDI-864-2 < PDI-852- PDI-854-2 2 < PDI-854-2	Completion
	ck #4 in	mate		Gauge	PDI-814-2 PDI-803-2 PDI-804-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-870-2 PDI-853-2 PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2	
	ken on ra Feguivaler	ıt any alte		Area	200 Area	100 Area	300 Area	400 Area	
Note	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	be used if necessary. Document any alternate		Description	Glovebox exhaust header APs	< laboratory APs < basement APs for areas 100, 200, 300	and 400		
	Gauge read the OC wher	be used if no	PDIs used.	SRs		4.1.1.4			

Note: 1 Mode 2 acceptance criteria is < 0.00 in. wc

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

- Date Or-06-12 Time 1936

Reviewed by: Dart R. Ond Date: 1-713 Time: 1530

Comments:

Completed by:

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

	1-13-13																
1-13-13	17. T.	Sun.	PM	D.		-2,02 2.03	4.28	261-1-67	198	J.	-,24	52.	12'-	61:-	-, 10	71'-	734-136
+	1	S	AM	4		2,00		197		18	7	76.	730	41	1.1	Ξ,	
	<u>~</u>	Sat.	PM	R		2.03	1.89	1.98	197	-,19	7:-	+2-	2	19	0.0	71-	-136
	[-12-1]		AM	ડ	76	-2.03-203	3.5%	161-1851-	197-197	M-14	22.	72	3.	-19	2.	11-01:	CH- 151,-
	1-11-13	Fri.	I PM	6	UCTS	30	-1.88	1-1.5	5-	21	02-	-,12	21.	2).	0)'-	)-	15.
	-		I AM	વ	RES	10 201-	161	هر ۽	191	215	-15	21.1	71-	-19	=	下	7.142 JA6
	81/01/1	Thu.	AM PM	18	SURVEILLANCE RESULTS (in. wc)	101-	881-	861-	1.97	7.8	7.	.23	9	- 19	0),	11:	71.
		T			ELA E	, José	\$6'\	1.91	(p)	P).0(	D.33			م/٥٪	oria.	£1.0	05,00
	21/6/	Wed.	1 PM	200	RVE	7.03	-1.88	-1.48	851-	-119	12.	3.24	'5	-r9	:10	711	J-134
(	\	>	I AM	18/	4	20.7.2	861	g5) D	167	0.0	16.0.	15 N. O.	61.0	6).0			25.0
1 01	1/8/13	Tue.	1 PM	R		207-	1.88	76.1-97	7-198	1.20	2-13	32.15	72.	4.19	1.	5.15	OH! 15%
(rage 1 01 3)			1 AM	DAG		13.20	18/18/	98.1. A	1816	9-19		3.33	P. 9.	7	٥١١ ٥	\(\cdot\)	1-13
	01/07/2013	Mon.	A PM	1	0	2,03	8-1-8	18 -1.99	1999	61-19	12:17	52-123	57.	4-19	0/-0	11:-	121-12
ĺ	or je		AM	ડ	_	10.5	\$8:1	1.98	197	161.0	12.0	25,01	20,00	10.19	01.0	11.00	221.0
	Date:	eekday:	Shift:	nitials:	Criteria	in. wc	in. wc¹	in. wc¹	in. wc¹	in. wc¹	wc	in. wc <sup>1</sup>	in. wc <sup>1</sup>	1. wc	in. wc	in. wc	r. wc
	1	Wee	Ø	Ini		<-1.0 in.	<-1.0 in.	<-1.0 in.	≤-1.0 in.		.05 in.	.05 in.	.05 in.	<-0.05 in. wc	< 0.00 in	< 0.00 in	< 0.00 in. wc
					eptan	VI	<b>√</b> 1	<b>∛</b> 1	٧̈́١	<-0.05	<-0.05	<-0.05	<-0.05	√l	V	V	V
					Acc	4-1 or 4-2	0-1 or 20-2	0-1 or 70-2	4-1 or 54-2	3-1 or	2-1 or 12-2	3-1 or 33-2	2-1 or 52-2	4 or	4-1 or	4-1 or	)1 or
					Gauge Acceptance	PDI-814-1 or PDI-814-2	PDI-820-1 or PDI-820-2	PDI-870-1 or PDI-870-2	PDI-864-1 or PDI-864-2	200 area laboratory PDI-803-1 or header $\Delta P$ PDI-803-2	100 area laboratory PDI-802-1 or header ΔP PDI-802-2	300 area laboratory PDI-853-1 or header AP PDI-853-2	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-865-4 or PDI-865-5	PDI-804-1 or PDI-804-2	PDI-854-1 or PDI-854-2	PDT-901 or PDI-901
		0. 7	ıtif							atory H	atory [	atory F	atory				
		ould be	cumer		ption	glovel	glove heade	glovel	glove heade	labor:	irea labora header ΔP	rea labora header AP	ırea labora header ΔP	acility	semen	semen	nunel ,
	te	igs shc	ble. Do	ensec	Description	200 area glovebox exhaust header ΔP	100 area glovebox exhaust header ΔP	300 area glovebox exhaust header ΔP	400 area glovebox exhaust header ΔP	00 area labo header AP	0 area head	0 area head	0 area head	IFIT Facility AP	North basement $\Delta P$	South basement $\Delta P$	IRT Tunnel AP
	Note	readin n rack	er possi	PDIsa	<u> </u>	8 8			4 ex	20	10				ž		
		Gauge readings should be taken on rack #4 in the OC	whenever possible. Document if	altemate PDIs are used.	SRs		4.1.1.1					$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$				$4.1.1.3$ $4.1.2.3^2$	
				a			4 4	ř				444				4 4	

## ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					Page 2 of 5	(5 10 2							
:	Note		Date:	5102/10/10	1/3/	5/13	2//2/	1/10/13	-	1-11-13	1-12-13		-13-13
Readings using FC	Readings should be taken using FCS screens		Weekday:	Mon.	T.	Tue.	Wed.	Thu.		Fri.	Sat.		Sun.
FMT#15	FMT#151,152,201LD		Shift:	AM PM	4 AM	PM	AM PM	AM	PM AM	M PM	AM P	PM A	AM PM
and 2021 and local p be used if I	and 2021.D. Frield Verification and local plenum PDIs may be used if FCS is unavailable.		Initials:	3	CARD	W.	(3)	13	9	(A)	3	0	4
SRs	Description	Readings	Acceptance Criteria				SURVEIL Sat. / Ur		E RES	CANCE RESULTS (sat. (circle one)	5		
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 $\Delta P > .050$ or	At least one fan/plenum is in	Sat Sa	Sat	(Sat)	Sat Sab	(gg)	&a Sat	() Sa	S	Sat	Sat Sar
	plenum	FR-802 Icon red and PDT-832 AP >.050			sat Unsa	tUnsat	Unsat Unsa	Unsat Unsat Unsat Unsat Unsat Unsat Unsat Unsat	sat Uns	at Unsat	Unsat Unsat Unsat Unsat Unsat	ısat Ur	ısat Uns
	100 area re- circulation fan/	FR-803 Icon red and PDT-833 △P >.050 or	At least one fan/plenum is in	Sat Sat	(F)	(Sa)	NES SES	(Jegy	Sat	Sat	(S)	Sail	Sati San
	plenum	FR-804 Icon red and PDT-835 ΔP > .050	service	Unsat Uns	atUnsa	tUnsat	Unsat Unsa	Unsat	sat Uns	at Unsat	Unsat Un	ısat Ur	ısat Uns
4.1.1.6	300 area re- circulation fan/	FR-805 Icon red and PDT-836 $\triangle$ P >.050 or	At least one fan/plenum is in	Sat	San	Sail	Bay Bat	Zag.	Sat (Sat	San	\$	Sal	Sat Sat
	plenum	FR-806 Icon red and PDT-837 $\Delta P > .050$	service	Unsat Uns	atUnsa	tUnsat	Unsat Unsa	Unsat	sat Uns	at Unsat	Unsat Un	ısat Ur	ısat Uns
	400 area re-	FR-807 Icon red and PDT-838 $\Delta P > .050$	At least one	(Sat) (Sa	Sat	(8)	Les Sala		Sal Sal	Or Sale	Seg	Sab	Sat (Sat
	plenum	FR-808 Icon red and PDT-839 AP >.050		Unsat	at Unsai	t Unsat I	Unsat Unsa	Unsat	sat Uns	at Unsat	Unsat Un	ısat Ur	ısat Uns
	Vault re-	FR-811 Icon red and PDT-840 $\Delta P > .050$	At least one	Sat Sa	Sat	Sart	gay Sat	Agy Agy	and (Sat	(Seg)	Sat	Saf	Sat Sat
	circulation fan/ plenum	or FR-812 Icon red and PDT-841 △P >.050	ran/pienum is in service		at Unsal	t Unsat	Unsat Unsa	Unsat	sat Uns	at Unsat	Unsat Un	ısat Ur	sat Uns

Surveillance Rounds

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### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

											\
	-13	Sun.	PM	B	1	(	Sat Unsat	Say Unsat	Sa) Unsat	(Sat.) (Sa) Unsat Unsat	0720 1925
	1-13-13	S	AM	9		(	(Sat Unsat	(Sat Unsat	(Sat) Unsat		0/3
	4	Sat.	PM	V			Sat Sat Unsat Unsat	Sat Unsat	Sat Christ	Sat) Unsat	1973
	1-12-13	Š	AM	3				Sab	Sat	Sat	8261 600 1881 8000 1881 8090 1880 1880 1880 18
,	<u>,</u>	Fri.	PM	10	ZTS	(	Say Say Jusat Unsat Unsat	(Sat) Unsat	Sa Unsat	Sat Unsat	1831
	711-12	ĬΤ	AM	3	SURVEILLANCE RESULTS	Sat. / Unsat. (circle one)	(Sat) (Sat) Unsat Unsat	Sat Unsat	(Say) Unsat	Sat Unsat	8,040
_	2	Thu.	PM	18	CE R	. (circ		Unsat	Unsat	Unsat	1261
	1/10	` 🛱	AM	3	LLAN	Unsat	Chrsat	8at Unsat	Sat Unsat	Sat Unsat	ge90
7	<u>^</u>	Wed.	Md	8/.	RVEI	Sat.	Sat Unsat	Sat	(Sat Unsat	Sat Umsat	1822
_	٦	M	AM	Se	SU		(Sat) Unsat	Sav (Sa) sat) Unsat Unsat Unsat	Unsat	&at Unsat	ps.40
	1,3	Tue.	PM	a			(Sat Unsat	Sat Unsat	(Sat) (Sat) Unsat Unsat	(Sat) (Sat) (Sat) Unsat Unsat Unsat	676
	1/8/13	Ţ	AM	DAO	3	(	Sat Unsat	Sat Unsat		Sat Unsat	1510
	510010	Mon.	PM	9		(	(Sat) (Sat) Unsat Unsat	Sat Unsat	(Sa) Unsat	(Sa) Unsat	128
_	0	Ž	AM	ડ		(	(Sat) Unsat	Sat Unsat (	(Sat) Unsat		2160
Dote	Date:	Weekday:	Shift:	Initials:	Acceptance	Criteria	PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	PDI-864-2 < PDI-852- 2 < PDI-854-2	Completion
		ck #4 in	mate		Contract	Cauge	PDI-814-2 PDI-803-2 PDI-804-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-870-2 PDI-853-2 PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2	
		ken on rad Feguivaler	nt any alter		Aroa	WI CZ	200 Area	100 Area	300 Area	400 Area	
	Note	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	be used if necessary. Document any alternate		Description		Glovebox exhaust	<ul> <li>laboratory ΔPs</li> <li>basement ΔPs for areas 100, 200, 300</li> </ul>	and 400		
	;	Gauge read! the OC when	be used if nea	r Dis used.	SRs			4.1.1.4			

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Reviewed by Dox 1 Lot D Date 1/15/13 Time 1935

Comments:

Completed by:

Date: 14-6 Time: 12-10

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

				\												
i.	Sun.	PM	R	)	J.06	1989	798	18%	9.0	120	P4.0.	04.0	61,0	0,00	50	59,0
01.20.13	Su	AM	[g]		-209 J.B	-1.88	-1.48	-1.98	61,	12:	-24	91.	61.	0.	71.	.18
1.13	Sat.	Md	De	\	-2.04 J.Os	رحی	867	8.	8.0	12.00	Ft.0.	Ot Q	8/.0	0,0	7.0´	78/O
51.6.13	Se	AM	3	0	-7.09	<del>/%</del> )-	16)-	86)-	6.	33:	.23	6-	7.9	5	ا کھ	51.
2	Fri.	PM	181	LTS	1.4	).gb	PP.).	86)\	4).O	17.0	ζ*.ο΄	&,	<i>ح</i> ر و ر	8,0	5,0	J'\
01.18.13	표	AM	8	RESU	2.03	2	198	-1.97	17.		ħ;	2.	21.	210	,2	180
22	Thu.	PM	C/II	SURVEILLAÑCE RESULTS (in. wc)	-7.03	-1,89 -1.8 +102,000	-1.99	1.97	-,19	- 21	-,25	-2	613	2) '-	<u>و</u> <u>۱</u>	1 081 781 - OH- 1512
1-17-13	TI	AM	ઠ	CLAÎ (in.	203	-1.84	-1.9%	198	-,13	12	-74	32	-19	<u>., , , , , , , , , , , , , , , , , , , </u>	7	91.
(13	Wed.	PM	De	ИЕП	2,00	-1.89	198	1-93	61.	17	42.	5	7.19	010	71-	50.
1(6,13	M	AM	83	SUR	-3.03	135.1	1545	84)-	1	کر	tc'_	96.	5	01:	<u>رة</u>	(3)
.13	Tue.	PM	181	7	50%	88,	85.	8%	&.√	12.00	No.O.	Of a	Sia	9.0	17, Q	(5/2
01.18.13	Tı	AM	18		2.03	OL:)-	-199	-1.48	91.	12.	72:	2	61.	01.	21.	137
67	Mon.	PM	18		to't'	98)	96)	8%	810	120	30,	02.0	8/.	وين	11.0	Ryo,
01.14.13	Ň	AM	BC		7.07	-1.89	1.98	197	2.	72_	124	220	<u>a.                                    </u>	01.	51.	1.18
Date:	Weekday:	Shift:	Initials:	ptance Criteria	<-1.0 in. wc <sup>1</sup>	<-1.0 in. wc <sup>1</sup>	<-1.0 in. wc <sup>1</sup>	<-1.0 in. wc <sup>1</sup>	<-0.05 in. wc	<-0.05 in. wc <sup>1</sup>	<-0.05 in. wc <sup>1</sup>	≤-0.05 in. wc¹	<-0.05 in. wc	< 0.00 in. wc	< 0.00 in. wc	< 0.00 in. wc
				Gauge Acceptan	PDI-814-1 or PDI-814-2	PDI-820-1 or PDI-820-2	PDI-870-1 or PDI-870-2	PDI-864-1 or PDI-864-2	PDI-803-1 or PDI-803-2	PDI-802-1 or PDI-802-2	PDI-853-1 or PDI-853-2	PDI-852-1 or PDI-852-2	PDI-865-4 or PDI-865-5	PDI-804-1 or PDI-804-2	PDI-854-1 or PDI-854-2	PDT-901 or PDI-901
Note	Gauge readings should be taken on rack #4 in the OC	whenever possible. Document if	alternate PDIs are used.	Description	200 area glovebox exhaust header ΔP	100 area glovebox exhaust header ΔP	300 area glovebox exhaust header ΔP	400 area glovebox exhaust header ΔP	200 area laboratory PDI-803-1 or header AP PDI-803-2	100 area laboratory PDI-802-1 or header AP PDI-802-2	300 area laboratory PDI-853-1 or header AP PDI-853-2	400 area laboratory PDI-852-1 or header AP PDI-852-2	LFIT Facility AP	North basement AP	South basement AP	IRT Tunnel AP
	Gauge rea	wheneverp	atternate PL	SRs		4.1.1.1	· · · · · · · · · · · · · · · · · · ·	•			4.1.1.5				$4.1.1.3$ $4.1.2.3^2$	

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

		Date:	D1.24.13	30 T) P)	(rage 2 01 3)	~	1/10/13	1-17-13		01-18-13		0.19.15		01.20.13
		Weekday:	Mon.	· .:	Tue.		Wed.	Thu.		Fri.	•	Sat.		Sun.
		Shift:	AM	PM A	AM PM	M AM	M PM	AM	PM	AM F	PM Al	AM PM	1 AM	I PM
		Initials:	8	1/3	130	12	4	3	M	3	18 Jan	13	- Vag	18
Readings		Acceptance Criteria	D			S	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	LLAN Jusat.	CE R (circl	ESUL e one)	TS	<b>b</b>		
		At least one fan/plenum is in	(E)	Sat	Sat Say	Sat	at Sat	(8)	Sat		Teg S			(E)
FR-802 Icon red and PDT-832 $\Delta P > .050$			Unsat U	nsat U	nsat Un	sat Un	Unsat	Unsat	Jnsat L	Insat Ui	sat Un	sat Uns	at Unsa	ıt Unsat
		At least one fan/plenum is in	<b>©</b>	<b>3</b>	(Sat	Sat Sat	Sat	(%)	(3)	(Tage)	Sat Sa	(§)		<u> </u>
FR-804 Icon red and PDT-835 AP >.050		service	Unsat U	nsat U	ısat Un	sat Uns	Unsat	Unsat [	Jnsat	Insat U	ısat Un	sat Unsa	at Unsa	ıt Unsat
		At least one fan/plenum is in	2	(2)	Sat	Sat	Sat)		Sac		(F)	<b>3</b>	<b>©</b>	(S)
FR-806 Icon red and PDT-837 $\Delta P > .050$		service	Unsat U	nsat U1	ısat Un	sat Uns	Unsat	Unsat L	Jusat	nsat Ur	ısat Uns	sat Unsa	at Unse	t Unsat
FR-807 Icon red and PDT-838 AP > .050		At least one fan/nlenum is in	Sag.	Argy Argy	Sal (sa)	(Say	Sag.	Sat	(Feg)	Sar	Sat	(A)	(E)	Sat
red and P>.050	2		Unsat U	nsat Ur	ısat Uns	sat Uns	Unsat	Unsat	Jusat	nsat Ur	sat Uns	sat Unsa	ut Unsa	t Unsat
77	4	At least one	(Feg)	(A)	Say Say	Sat	Sab	(Safe	Sat		Sat	The state of the s	(Eg)	Sat
FR-812 Icon red and PDT-841 $\Delta P > .050$			Unsat U.	nsat Ur	ısat Uns	sat Uns	Unsat	Unsat [	Jusat L	nsat Ur	ısat Uns	at Unsa	ıt Unsa	t Unsat

Surveillance Rounds

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### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

							_				
	2,13	Sun.	PM	1		Sat Unsat	Unsat	Unsat (	(Sat Unsat		1921
	01.20,13	S	AM	18		Chrisat	Unsat	<u>Sat</u> Unsat	Onsat		p110
	Ü	Sat.	PM	R	)	Sat Uhsat	Unsat	8at Unsat	Say Unsat		1925
	0.19.13	Ss	AM	10		Cab Sat Cat Unsat Unsat Unsat	Unsat	Onsat	Sar Sat Insat Unsat		1728 0755 1925 074 1927
	01-18 13	Ť.	PM	13	TS	Sat Unsat	Unsat	Unsat	Unsat		138
	01-1	Fri.	AM	99	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)		<b>Sat</b> Unsat	Unsat	Unsat		1931 0656 1941 acep
	-13	Thu.	PM	6	CE R	Sat Unsat	Sab Unsat	Sa) Unsat	Sal) Unsat		1941
	1-17-13	ΤΤ	АМ	3	LLAN Unsat.	(Sat) Unsat	Sat) Unsat	(Sat) Unsat	Sat Unsat		0%56
	(16/43	.d.	PM	Co	KVEII Sat. / U	Kat Sat Sat Sat Unsat Unsat	(Sat) Unsat	Sat	(Sat) Unsat		193
	16	Wed.	AM	Z	SU	Sar	(Sat Unsat	(Sat Unsat	(Sat) Unsat		
	ū	ه ن	PM	13	5	Sat Unsat	Cath Rat Sat Sat Unsat Unsat Unsat	Sat	Cay (Say Say Unsat Unsat Unsat		1942 0251 1930 0730
6	21.72.13	Tue.	AM	2		Onsat	Chsat	Sat Unsat	Chsat		18
0		ı.	PM	18		Sat	Jusat (	Sat	Jhsat		1922
	61.14.13	Mon.	AM	8		Ø Unsat	Unsat	Unsat	Unsat		8290
	Date:	Weekday:	Shift:	Initials:	Acceptance Criteria	PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-820-2 PDI-802-2 PDI-820-2 < PDI-802- PDI-804-2 2 < PDI-804-2	PDJ-870-2 < PDJ-853- 2 < PDJ-854-2	PDI-864-2 < PDI-852-	Completion	Time
	•	ck #4 in	mate		Gauge	PDI-814-2 PDI-803-2 PDI-804-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-870-2 PDI-853-2 PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2		
		ken on ra Feguivale	nt any alte		Area	200 Area	100 Area	300 Area	400 Area		
	Note	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	be used if necessary. Document any alternate		Description	Glovebox exhaust header APs	< laboratory APs < basement APs for areas 100, 200, 300	and 400			
	(	Gauge read the OC wher	be used if n	PDIS used.	SRs		4.1.1.4				

Note: 1 Mode 2 acceptance criteria is < 0.00 in., wc

Note: 2 SRs 4.1.2.x only apply diffine anode 2 in accordance with LCO 3.1.2.

Date 1/20/1 3Time 1927

Completed by:

Comments:

Reviewed by

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

	01.24.15 1/25/13 1.26-13 1/22/13	Fri.	AM PM AM PM AM PM AM PM	4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ESULTS (F)	-2.10 A. 0-2.11 =210 231 =211 -2.11 310	06.1-09.1- 82.1.881. 88.1. 88.1. 88.	199 199 - 1991 - 891 - 891 - 1971 891-	19-19-1-89.1-	6119.0, 81.	22 C. 12,- 12,- 12, 12	$ \mathcal{S} $	7	P1.0, 05:	01-01-01-01-01-01-01	(1,- 1,0, 21.	
(1 ago 1 01 3)	122/13 04.23.13	Tue. Wed.	AM PM AM PM	8 8	<b>⊣</b>	2/10.9.10	-1,92-1.89		1.97-1.97		12. 22  2	5.35 /23	8,0° PT 18- 02,	P1 - 19 - 19	ol. 615	1,0, 11, 21- 12-	
(1 ag	1/21/13		AM PM	BA		-2.03 -201 -2.10	-18'1-68'1-	197 -198-1.97	161-86-161	-19 -19	- 16- 72-	52- 48- 92-	- 0 E- 12	- 19 - 19 -	0-1	ا اله	
	Date:	Weekday:	Shift:	Initials:	Gauge Acceptance Criteria	PDI-814-1 or <-1.0 in. wc <sup>1</sup>	PDI-820-1 or ≤-1.0 in. wc¹ PDI-820-2	PDI-870-1 or <-1.0 in. wc <sup>1</sup> PDI-870-2	PDI-864-1 or <-1.0 in. wc <sup>-1</sup> PDI-864-2	PDI-803-1 or <-0.05 in. wc <sup>1</sup> PDI-803-2	PDI-802-1 or <-0.05 in. wc <sup>1</sup> PDI-802-2	PDI-853-1 or <-0.05 in. wc <sup>1</sup> PDI-853-2	PDI-852-1 or <-0.05 in. wc <sup>1</sup> PDI-852-2	PDI-865-4 or <-0.05 in. wc PDI-865-5	PDI-804-1 or < 0.00 in. wc PDI-804-2	PDI-854-1 or < 0.00 in. wc PDI-854-2	
	Note	Gauge readings should be	whenever possible. Document if	alternate PDIs are used.	Description	200 area glovebox exhaust header ΔP	100 area glovebox exhaust header ΔP	300 area glovebox exhaust header ΔP	400 area glovebox exhaust header ΔP	200 area laboratory PDI-803-1 or header $\Delta P$ PDI-803-2	100 area laboratory PDI-802-1 or header AP PDI-802-2	300 area laboratory PDI-853-1 or header AP PDI-853-2	400 area laboratory PDI-852-1 or header AP PDI-852-2	IFIT Facility AP	North basement $\Delta P$	South basement AP	
		Gauge re	whenever	altemate Pl	SRs		4.1.1.1					$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$				4.1.1.3	

# ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					-	)_	,					L				
	Note		Date:	1/2/1	13	1/22/13	01.	01.23.13	\$1-62-10	s)	1/25/13		5-22-1	25	[12]	13
Reading	Readings should be taken using FCS screens		Weekday:	Mon.		Tue.	·>	Wed.	Thu.	r.	Fri.		Sat:		Sun.	
FMT#1	FMT#151,152,201LD		Shift:	AM	PM A	AM PM	1 AM	1 PM	AM	PM	AM	PM A	AM P	PM	AM	PM
and 202 and local be used i	and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.		Initials:	D	9	0	8	(3)	88	18	S.	9	d	d.	-	9
SRs	Description	Readings	Acceptance Criteria				$\mathbf{s}$	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	LAN Jusat.	CE R (circl	ESUI le one	TS				
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 $\Delta P > .050$ or	At least one fan/plenum is in	Sat	(Sat)	(Sa)	Sat	()	Sat	(F)	Sar	Say (S	(Sat	(Sat)	<b>ES</b>	<b>③</b>
	plenum	FR-802 Icon red and PDT-832 ∆P >.050	service		Insat Ui	nsat Uns	atUns	Unsat	Unsat	Jusat	Jnsat U	nsat U1	nsat U	nsat U	nsat U	Insat
	100 area re-	FR-803 Icon red and PDT-833 △P > .050	At least one fan/olenum is in	Sart	Sap	Sat Sat	D (Sat	Jeg (	(at	(A)	(3)	(Sat)	Sat	Sah (Sah	Peg Peg	Say.
	plenum	FR-804 Icon red and PDT-835 $\Delta P > .050$	service		nsat UI	ısat Uns	at Uns	Unsat	Unsat l	Jnsat L	Jnsat U	'nsat Ui	nsat U	nsat U	nsat U	Insat
4.1.1.6	300 area re-	FR-805 Icon red and PDT-836 $\Delta P > .050$ or	At least one fan/plenum is in	(Sa)	Sat	Saj (Sa)	(E)	Cast S	(ag)	(\$)	(Sat	Egg (S	(kg)	(Sat)	(ss)	<b>(</b>
	plenum	FR-806 Icon red and PDT-837 $\Delta P > .050$	service		nsat U1	ısat Uns	at Uns	Unsat	Unsat (	Jusat	Jnsat U	nsat Uı	nsat U	nsat U	nsat U	Insat
	400 area re-	FR-807 Icon red and PDT-838 $\Delta P > .050$	At least one fan/plenum is in	(3)	Sair	Sal Sal	(E)	(Say	Sat	(FE)	(Sa)	Egt C	Sait	(Sa)	Say	
	plenum	FR-808 Icon red and PDT-839 AP > .050	service		nsat Ui	ısat Uns	at Uns	Unsat	Unsat	Jnsat	Jnsat U	nsat Uı	nsat U	nsat U	nsat U	Insat
	Vault re-	FR-811 Icon red and PDT-840 △P > .050	At least one fandeleant	Sat	Sai	Sat Sat	<u>Sat</u>	(S)	Sat	B	(Fig.)	Sat	Sat	Sat		
	fan/ plenum	FR-812 Icon red and PDT-841 △P >.050	service		nsat Ui	ısat Uns	at Unsi	Unsat	Unsat [	Unsat	Jnsat U	nsat Ui	nsat	nsat U	nsat U	Jnsat

Surveillance Rounds

Page 24 of 38

### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

	8		PM	4			Sau	Sat Insat	Sa Unsat	Christ Christ	8
	1/27/13	Sun.	AM	1		(	Sab Sab Unsat Unsat	Sat Sat Sat Unsat Unsat		Jusat Ui	1 2 CT 72
ŀ	13	ıt.	PM	4			(Sat) Unsat	Sat Unsat l	(Sa) (Sa) Unsat Unsat	Sat	25
	5-92-1	Sat.	AM	3			Sati	Sat	(Sat Sat Unsat Unsat	Sat Unsat	
	71.3	Fri.	PM	P	LTS	,	(Sat Unsat	Sat Sav Unsat Unsat	(Sat Unsat	(Sat) Unsat	1930 0249
	1125/13	- G1	AM	T	RESUI	ie one	(Sat) Unsat	Sat	Sab Unsat	(Sa) Unsat	1924 0731
	4-13	Thu.	PM	136	SURVEILLANCE RESULTS	Sat. / Unsat. (circle one)	Sat Say Sat Unsat Unsat Unsat	Sat Unsat	Sat Unsat	Unsat	121
	01.24-13	T	AM	8	ILLA	Cusai		r Unsat	r Unsat	t Unsat	0719 1930 031 1930 0891 1937 0710
	3.13	Wed.	PM	18	RVE	Sal.	(Sat Unsat	Say t Unsat	Chisat Unsat	t Chart	(4)
	01.23.13	n	AM	80	ns		t Unsat	t Unsat	r Omsat	t Unsat	88
2 22	2/13	Tue.	PM	9			(Sat) t Unsat	(Sat) (Sat) (Sat) Unsat Unsat Unsat	Sat Sat Unsat Unsat	Sat t Unsat	28
(1000)	1/2	-	AM	A	7	(	(Sa)	t Unsal	t Unsat	(Consat	073
۷	21/13	Mon.	PM	0		d	(Sat) t Unsat	(Sat t Unsat	(Sat) t Unsat	Sat (Sat) Unsat Unsat	1631
	1 16		AM	a			Sat Umsat	Sat Unsat	Chisat Sat		6719
	Date:	Weekday:	Shift:	Initials:	Acceptance	CHICHIA	PDI-814-2 < PDI-803- 2 < PDI-804-2	PDI-820-2 < PDI-802- 2 < PDI-804-2	PDI-870-2 < PDI-853- 2 < PDI-854-2	PDI-864-2 < PDI-852- 2 < PDI-854-2	Completion
		ck #4 in	rnate		Gauge		PDI-814-2 PDI-803-2 PDI-804-2	PDI-820-2 PDI-802-2 PDI-804-2	PDI-870-2 PDI-853-2 PDI-854-2	PDI-864-2 PDI-852-2 PDI-854-2	
	,	ken on ra Lequivale	nt any alte		Area		200 Area	100 Area	300 Area	400 Area	
	Note	Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may	be used if necessary. Document any alternate		Description		Glovebox exhaust header APs	< laboratory APs < basement APs for areas 100, 200, 300	and 400		
	ı	Gauge read	be used if n	r Dis useu.	SRs			4.1.1.4			

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2. Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc

Date 1-1713 Time 1930 Completed by: 0 d

Date: 12873 Time: 1255 Reviewed by

Comments:

Page 22 of 38

Surveillance Rounds

TA55-STP-004, R14

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

		-			: ا ا	(2 2 2 2 2 2 )										
	Note		Date:	1/28/	73/											
Gauge rea	Gauge readings should be taken on rack #4 in the OC		Weekday:	Mon.	'n.	Tue.	^	Wed.	T	Thu.	Fri.		Sat.	ند	Sun.	٦.
whenever	whenever possible. Document if		Shift:	AM	PM ,	AM PM AM PM		AM PM AM PM	AM	PM	AM PM		AM PM		AM	PM
alternate P	alternate PDIs are used.		Initials:	B	ONO											
SRs	Description	Gauge Acce	Gauge Acceptance Criteria				SU	SURVEILLANCE RESULTS (in. wc)	LAY (in.	JANCE F (in. wc)	ESU	CTS				
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	<-1.0 in. wc¹	= 4	60.07											
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	<-1.0 in. wc <sup>1</sup>	98)	80%											
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	8.	187		_									
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	<-1.0 in. wc <sup>1</sup>	< 8.j.	81											
	200 area laboratory PDI-803-1 or header $\Delta P$	PDI-803-1 or PDI-803-2	<-0.05 in. wc	0.19	3											
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc¹	400	Z,							_				
$\begin{array}{c} 4.1.1.2 \\ 4.1.1.5 \\ 4.1.2.2^2 \end{array}$	300 area laboratory PDI-853-1 or header $\Delta P$ PDI-853-2	PDI-853-1 or PDI-853-2	<-0.05 in. wc <sup>1</sup>	520	か								_		_	
	400 area laboratory PDI-852-1 or header AP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc <sup>1</sup>	7.00.Q	2.	_	_								_	
	IFIT Facility AP	PDI-865-4 or PDI-865-5	<-0.05 in. wc	8.0.	5.											
	North basement.∆P	PDI-804-1 or PDI-804-2	< 0.00 in. wc	01.0	\$						_					
4.1.1.3	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	11.	1:											
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	Or O	13											

# ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

					3)	(Page 2 of 5	015)										
	Note		Date:	90/1	13												
Readings	Readings should be taken using FCS screens		Weekday:	Mon.	n.	Tue.		Wed.	Ġ.	Thu.	٦.	Fri.		Sat:		Sun.	
FMT#15	FMT#151,152,201LD		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM ,	AM	PM
and 202L and local p be used if I	and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.		Initials:	R	046											_	_
SRs	Description	Readings	Acceptance Criteria				, <del>-</del>	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	VEIL t./U	RVEILLANCE RESUL Sat. / Unsat. (circle one)	CE R (circ)	ESUI e one	LTS				
	200 area re- circulation fan/	FR-801 Icon red and PDT-831 $\Delta P > .050$ or	At least one fan/plenum is in	Şat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	plenum	FR-802 Icon red and PDT-832 AP > .050	service	Unsat	Unsat	Unsat	Unsat	Jnsat [	Jusat	Jnsat	Jnsat	Jusat [	Jnsat [	Jnsat	Jnsat [	nsat U	Insat
	100 area re-	FR-803 Icon red and PDT-833 △P > .050	At least one fan/olenum is in	\$at	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	plenum	FR-804 Icon red and PDT-835 AP >.050	service	Unsat	Unsat	Unsat	Jnsat [	Jnsat	Jnsat	Jnsat	Jnsat	Jusat L	Jusat	Jusat	Jusat	nsat U	Insat
4.1.1.6	.300 area re-	FR-805 Icon red and PDT-836 $\Delta P > .050$	At least one fan/plenum is in	Çsaf	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	plenum	FR-806 Icon red and PDT-837 \( \DY > .050 \)	service	Unsat	Unsat	Unsat	Jnsat [	Jnsat l	Jnsat (	Jnsat	Jnsat L	Insat U	Jnsat L	Jusat	Jusat U	nsat U	nsat
	400 area re- circulation fan/	FR-807 Icon red and PDT-838 $\Delta P > .050$ or	At least one fan/plenum is in	Say	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	plenum	FR-808 Icon red and PDT-839 △P>.050		Unsat	Unsat	Unsat	Jnsat (	Jnsat L	Jusat	Jnsat [	Jnsat L	Insat U	Jusat L	Jnsat L	Jnsat U	nsat	nsat
	Vault re-	FR-811 Icon redand PDT-840 △P >.050	At least one	Say	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	fan/ plenum	FR-812 Icon red and PDT-841 △P >.050	service	Unsat	Unsat	Unsat	Jnsat	Jusat	Jnsat	Jusat	Jnsat [	Insat U	Jnsat [	Jusat	Jnsat U	nsat	nsat

Surveillance Rounds

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ATTACHMENT A: Per Shift Surveillance Rounds

PDI-864-2 PDI-864-2 - PDI-852- Unsat PMSun. AM PMSat. ΑM ΡM SURVEILLANCE RESULTS Fri Sat. / Unsat. (circle one) AM PM Thu. AM PMWed AM Page 3 of 3) PMTue. AM 80 346  $\overline{PM}$ Mon Obsy AM PDI-870-2 PDI-853-PDI-853-2 PDI-853-2 < PDI-854-2 PDI-814-2 PDI-803-2 PDI-804-2 C PDI-804-2 PDI-820-2 PDI-802-2 PDI-820-2 < PDI-802-PDI-804-2 2 < PDI-804-2 Date: Initials: Shift: Weekday: Completion Acceptance Criteria Time Gauge Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate 300 Area 200 Area 100 Area 400 Area Area < basement APs for Glovebox exhaust areas 100, 200, 300 < laboratory APs Description header APs and 400 PDIs used. 4.1.1.4 SRS

Note: 1 Mode 2 acceptance criteria is < 0.00 in. wc

Note: 2 SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Date 13 Time 1946 Completed by Dell

Reviewed by: Date: 25-15 Time: 0860

Comments:

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Surveillance Rounds

TA55-STP-004, R15.1

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 1 of 3)

				,	,	٠		-						
	Note		Date:		1/44/13		1/30/13	3 1/	1/21/13					
rauge re	Gauge readings should be		Weekday:	Mon.	Tue.	. –	Wed.		Thu.	Fri.	Sat.		Sun.	5
whenever	whenever possible. Document if	<u> </u>	Shift:	AM PM	AM PM		AM PM		AM PM	AM PM	AM	PM A	am PM	M
ltemate P	alternate PDIs are used.		Initials:		18/ 18/	9	080	9	BB					
SRs	Description	Gauge Acce	Acceptance Criteria	,	\ \	-	RVE	n.k. (6	LANCE 1 (in. wc)	SURVEII/LANCE RESULTS (in. wc)				
	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	<-1.0 in. wc¹		7.03	101 -2.01	24	1,5	1.05 31					
4.1.1.1	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	<-1.0 in. wc <sup>1</sup>		& X8.)	80 7	10.	1.89	198/1-					
1.7.1	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	<-1.0 in. wc¹		151/	8:1- VX	,6%	187-1.99	861- 6					
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	<-1.0 in. wc <sup>1</sup>	_	167-151 161	\(\frac{1}{4}\)	27	1.98	16)- 81				-	
	200 area laboratory PDI-803-1 or header AP PDI-803-2	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>		& O'	٥, ١	9/	11-19-19-17				_		
	100 area laboratory PDI-802-1 or header AP PDI-802-2	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>		18.0	22'-	W 2	7.18	1C: 8					
$4.1.1.2$ $4.1.1.5$ $4.1.2.2^2$	300 area laboratory PDI-853-1 or header AP PDI-853-2	PDI-853-1 or PDI-853-2	≤-0.05 in. wc¹		52: 00 10	7.	12.	E- 50	3 - 24					
	400 area laboratory PDI-852-1 or header ΔP PDI-852-2	PDI-852-1 or PDI-852-2	<-0.05 in. wc <sup>1</sup>		0x0	×,	7	121 2 18	8 :19					
	IFIT Facility AP	PDI-865-4 or PDI-865-5	<-0.05 in. wc		8,0.	97.	3.1	٠.	51: 19					
	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc		01.	12	4	0)-	01:0					
$4.1.1.3$ $4.1.2.3^2$	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc			7-12-0	5.	1.	2 -13					
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc		\$20	里小		1	132 -134 JA					

### ATTACHMENT A: Per Shift Surveillance Rounds (Page 2 of 3)

Weekday: Shift: Shift: Acceptance Criteria At least one fan/plenum is in service					,											1
Weekday:  Shift:  Shift:  Readings  Readings  FR-801 Icon red and PDT-831 △P > 050  or FR-802 Icon red and PDT-832 △P > 050 FR-803 Icon red and PDT-832 △P > 050 FR-803 Icon red and PDT-832 △P > 050 FR-804 Icon red and PDT-835 △P > 050 FR-804 Icon red and PDT-836 △P > 050 FR-805 Icon red and PDT-836 △P > 050 FR-806 Icon red and PDT-836 △P > 050	Note		Date:			1/19/13		1/30/13	1/30	1,3						
Readings Readings Criteria FR-801 Icon red and PDT-831 \triangle PDT-831 \triangle PDT-832 \triangle PDT-834 \triangle PDT-836 \triangle PDT-837 \triangle P	s should be take 'S screens	ue	Weekday:	Mon.	٦.	Tue.	*	Wed.	Thu.	, <u>-</u> ;	Fri.		Sat.	نډ	Sun.	n.
Readings Readings Criteria Cri	51,152,201LD		Shift:	AM PM		AM PM		AM PM	AM	PM.	AM	PM ,	AM PM		AM	PM
Description         Readings         Acceptance Criteria           200 area re- circulation fan/ plenum         FR-801 Icon red and plenum         At least one fan/plenum is in plenum           100 area re- circulation fan/ plenum         FR-803 Icon red and plenum         At least one fan/plenum is in fan/plenum is in fan/plenum is in fan/plenum is in plenum           300 area re- plenum         PDT-833 ΔP > 050         At least one fan/plenum is in fan/plenum is in fan/plenum is in plenum           300 area re- pDT-835 ΔP > 050         FR-804 Icon red and plenum is in fan/plenum	U.D. Frield verificat plenum PDIs may FCS is unavailable	tion y e.	Initials:			13.		990	Ø	9						
200 area re- circulation fan/ plenum	Description	Readings	Acceptance Criteria		,	,	Sul	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)	LAN nsat.	CE R (circl	ESUI e one	CTS				
PDT-832 \text{\text{AP}} > .050	200 area re	-		Sat	Sat (	Sat		Sat	(g)		Sat	Sat	Sat	Sat	Sat	Sat
100 area re-   circulation fan/   plenum   FR-804 Icon red and   service   PDT-835 \text{\text{AP}} > .050   At least one   fan/plenum is in   FR-804 Icon red and   service   PDT-835 \text{\text{\text{AP}}} > .050   At least one   FR-805 Icon red and   pDT-835 \text{\text{\text{AP}}} > .050   At least one   fan/plenum is in   FR-806 Icon red and   pDT-835 \text{\text{\text{\text{AP}}} > .050   At least one   pDT-835 \text{\text{\text{\text{\text{AP}}}} > .050   At least one   pDT-835 \text{\	plenum			Unsat	Insat U	Unsat	at Unsa	t Unsat	Unsat	Jnsat	Jnsat	Jnsat (	Jnsat	Jnsat	Jnsat	Jnsat
PPR-804 Icon red and   Service	100 area r			Sat	Sat (	Say Sar	<b>B</b>	(Sat)	(B)		Sat	Sat	Sat	Sat	Sat	Sat
300 area re-     PDT-836 △P > 050	plenum			Unsat C	nsat U	Unsat	at Unsa	Unsat	Unsat	Jnsat	Jnsat	Insat C	Jnsat	Jusat	Jnsat	Jnsat
FR-806 Icon red and service PDT-837 $\Delta P > .050$	300 area re			Sat	Sat	Say (Sat)	8	Sat	Ø	<b>(3)</b>	Sat	Sat	Sat	Sat	Sat	Sat
	plenum			Unsat U	insat U	Unsat	at Unsa	t Unsat	Unsat	Jnsat	Jnsat	Insat U	Jnsat	Jnsat	Jusat	Jnsat
400 area re- PDT-838 $\Delta P > .050$ At least one circulation fan/ or fan/plenum is in	400 area r	<u></u>		Sat	Sat (	Say (Sat	(8)	Sat	7	(Sal	Sat	Sat	Sat	Sat	Sat	Sat
FR-808 Icon red and service PDT-839 $\Delta P > .050$	plenum			Unsat U	nsat	Unsat	at Unsa	Unsat	Unsat	Jnsat	Jnsat	Jnsat U	Jnsat [	Jnsat	Jnsat (	Jnsat
Yault re- PDT-840 △P > .050 At least one or fan/plenum is in	Vault re-	FR-811 Icon red and PDT-840 △P >.050 or		Sat	Sat (	Say Sat	Sat	Sat		(Sa)	Sat	Sat	Sat	Sat	Sat	Sat
FR-812 Icon red and service PDT-841 $\Delta P > .050$	fan/ plenum	FR-812 Icon red and PDT-841 AP >.050		Unsat	nsat U	Unsat	at Unsa	t Unsat	Unsat	Jnsat	Jnsat (	Insat L	Jnsat	Jusat [	Jnsat	Jnsat

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Surveillance Rounds

### ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

		·					<del>+:</del>		<del>+-</del>		<del>+</del> ;				
	Sun.	PM				Sat	Unsa	Sat	Unsa	Sat	Unsa	Sat	Unsa		
	S	AM				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
	Sat.	PM				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
	Š	AM				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
		PM		TS		Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
	Fri	AM		ESUL	e one)	Sat	Jnsat	Sat	Jnsat	Sat	Jnsat Unsat Unsat Unsat Unsat Unsat Unsat	Sat	Unsat Unsat Unsat Unsat Unsat Unsat		
/3		PM	9	CE R	(circle		Jusat	3	Jnsat	<b>S</b>	Jnsat	(ES)	Jnsat		1930
1/31/	Thu.	AM	Œ	LAN	nsat.		Jusat		Jusat		Unsat		Jnsat		0220
1/50/15 1/31/13	j	PM	G#G	SURVEILLANCE RESULTS	Sat. / Unsat. (circle one)		Unsat	Sato Sa	Unsat	Sat	Jusat	Sat	Unsat Unsat Unsat		06.30 1934 1944 1020 1930
1/50	Wed	AM	Ca	SUR	S		Jusat		Jnsat l		Unsat Unsat		Jusat		1234
139/13		PM	85	2	(		Jnsat	(FS)	Jnsat (	Sat	Jnsat	Sat	Jnsat (	١,	73°7
1/29	Tue.	AM	18			(Sat	Jnsat	AES)	Jusat	AES)	Unsat Unsat Unsat Unsat	Ag.	Jnsat		830°
		PM				Sat	Jusat	Sat	Jusat	Sat	Jusat	Sat	Jnsat (	$\vdash$	9
	Mon.	AM				Sat	nsat	Sat	nsat	Sat	nsat (	Sat	nsat U		
Date:	Weekday:	Shift:	Initials:	Acceptance	Criteria	PDI-814-2 < PDI-803-	2 < PDI-804-2	PDI-820-2 < PDI-802-	2 < PDI-804-2	PDI-870-2 < PDI-853-		050 Idd - C 100 Idd	PDI-854-2	Completion Time	
	ck #4 in ck may	mate		Ç	Gauge	PDI-814-2 PDI-803-2	PDI-804-2	PDI-820-2 PDI-802-2	PDI-804-2	PDI-870-2	PDI-854-2	PDI-864-2	PDI-854-2	Complet	
	ken on ra [equivale	nt any alte			Area	200 Area		100 Area	B2 P / 01	200 Area	200 72	1 007	400 Area		
Note	Gauge readings should be taken on rack #4 in the OC when cossible, local PDI equivalents may	be used if necessary. Document any alternate		Description	mondy uses of		header APs	< laboratory APs	< basement APs for areas 100, 200, 300	and 400					
	Gauge read the OC when	be used if ne	r Dis used.	SRs				4.1.1.4							

Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2. Note: 1 Mode 2 acceptance criteria is < 0.00 in. wc

Completed by:

Date 1-31-17 ime 1930 Reviewed by: Mark Date 1-31-17 Time: OBIS

Comments:

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:		1-1-13	1-2-13	1.3-13	14-13	1/5/13	1/6/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		* }	74	an	The	RSS	A
	Description / Gauge	Acceptance Criteria		92	SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)		
	Flammable Gas Channel								
SR	DET-305-3 (LCD Reading)	NA		0.0	2.0	0.7	0.7	٦.۶	, ,
4.4.1.1	CP-30S-H (LED							,	,
	Keaumg)			50	2.2	0.2	0.2	6.9	0.1
	(DET-305-3) – (CP-305H)	Record Calculated Value	- "	0	0.0	0.0	0.0	0.0	0
	(LCD Reading) (LED Reading)	> -0.1; <+0.1	Sat. / Unsat.	Sat. / Unsat. (Sat.) Unsat. (Sat. / Unsat.	(Sa). / Unsat.	Say/Unsat. (Say/Unsat. (Say/Unsat.	ھ / Unsat.	(Sat) / Unsat. (	Sat. / Unsat.
		Completion Time:		2180	1000 o	0823	1070	0159	0798

Surveillance Rounds

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			Date:		1-1-13	1-2-13	(-3-13	1-4-13	1/5/13	1.6-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		Yes	Ŋ	7	dur	255	9
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS		
4.1.3.4	South basement	'PDI-894-1	<2.0 & > 0 in. wc		30.	50.	50.	, 05	70'	50.
	(HVP-841) $\Delta P$	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		٠. ناز	.43	74.	.42	671	. 42
	South Corridor	I-568-IQd <sub>1</sub>	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		To.	.07	(0.	۲٥٠	6	60
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		٥٤٠	16.	16	16.	15.	16.
		1-718-IOd'	$\leq 2.0 \& > 0^1 \text{ in. wc}$		121	12.	C£,	77	ړه.	,27
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.30	.30	.30	.30	130	.30
	exhaust filter plenum (FF854) ΔP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$		15.	18.	.3/	.31	131	,31
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$		ઝ	.30	30	.30	081	30
	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		Ţ	Ŧ.	141	14.	) T,	14
4.1.3.4	rccovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		0	구.	14.	14.	47.	74.
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$		35.	. 35	35.	.35	.36	36
		<sup>1</sup> PDI-818-1	≤2.0 & > 0¹ in. wc		\$187	543 <sub>K</sub>	57.8 Y	57 (34	1875	\$7.07
4.1.3.4	300 area glovebox	PDI-818-2	<2.0 & > 0 <sup>1</sup> in. wc		STBY	Stby	2700	57.8%	57.BV	51134
	exhaust filter plenum (FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$		STBY	SFBW	STBY	87.13	SIBY	57.84
		PDI-818-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		STBY	S+5m	57.B.V	57.137	SIBY	87724
	300 area special	PD1-821-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		S(16%	545.7	\$ 27.13 4	57.3%	5164	5713 1/
4.1.3.4	exhaust filter	PDI-821-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		STBY	5+12	8704	STRV	5184	27.87
	(FF859) AP	PDI-8214	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	Sthy	8784	\$7.69	STBU	55134

Surveillance Rounds

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				(Page	(Page 3 of 4)					
			Date:		1-1-13	1-2-13	1-3-13	F4-13	1/5/13	0-9-1
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		ww	24	am	an	45.8	gan
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	ESULTS		
		¹PDI-822-1	<2.0 & > 01 in. wc		Y218	24p	5784	57134	STBY	STBY
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		STBY	SHOW	5787	\$1137	57.BV	5787
	exhaust filter plenum (FF8S6) AP	PDI-822-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$		5181	SHOW	5787	818	STBY	5787
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$		5164	Silber	STBY	\$7.13%	51.81	STBY
		1-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		Kê	10.	90.	38.	38.	.86
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.45	ż	54.	<i>μ</i> γ.	.45	7.4.5
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.49	49	84.	54.	7	64.
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$		15.	.51	15.	,5,	151	15.
	South Basement exhaust	1-0£8-IQd <sub>1</sub>	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		ئ گ	.55	,55	.55	.56	.55
4.1.3.4	filter plenum	PDI-830-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		,32	ري دي	.33	.33	,33	.33
	(FF-629) AF	PDI-830-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		.30	. <b>3</b> 0	.30	.30	\$5	30
	300 area re-circulation	1-988-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$		، كان	. 84	98	.8%	\$	93.
	filter plenum	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		,55	. 55	55.	55,	.55	55.
4.1.1.7	(AAAA -OU-5)	PDI-836-3	$\leq 2.0 \& > 0^4 \text{ in. wc}$		.52	. 52	.52	23	(53)	52
	300 area re-circulation	<sup>1</sup> PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		0,9	٠ له٥	09.	09.	07	19.
	filter plenum	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		. 50	. 50	.50	50	150	.50
	1000	PDI-837-3	$\leq 2.0 \& > 0^{1}$ in. wc		. 47	14.	ď.	۲4.	. 45	94,

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

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				(Fage 4 of 4)	4 OI 4)					
			Date:		1.1-13	1-2-13	1.3-13	1-4-13	1/5/13	1-6-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		ww	ZF.	gw	9	RSS	Ju
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	400 area re-circulation	1-828-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.27	72.	.17	72.	88	.27
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		H.	14.	14.	/4.	15.	14.
4.1.1.7	157 (700-1411)	PDI-838-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		38	.38	86	38	137	38
	400 area re-circulation	<sup>1</sup> PDI-839-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		.27	۲2.	æ.	7.	2	.27
	filter plenum	PDI-839-2	≤2.0 & > 0¹ in; wc		ĩ.	ーナ・	14.	- <del>-</del>	) h.	14.
	( HVF-808) ΔF	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		٥٢.	ーナ	141	7.	) 7.	/4,
	South Bleed off filter	1-018-IQd,	$\leq 2.0 \& > 0^1 \text{ in. wc}$		1.1	17	·	Ü	۲),	71.
4.1.3.4	plenum	PDJ-810-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		21.	32.	5C°	.73	7.	273
	15 (5776-33)	PDI-810-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		25,	. 50	15.	95.	50	.50
	South Bleed off filter	i - 118- IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$		00	DFF	250	0.F.F	OFF	550
4.1.3.4	plenum	PDI -811 -2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		9年	COFFE	510	££	Off	£50
	( FF-822B) AF	PDI -811 -3	<2.0 & > 0 <sup>1</sup> in. wc		to	\$	J#0	250	440	540
			. Completion Time		2137	6280	0855	023/	0815	0820
00	OC Operator Review and Page Count Complete (init	age Count Comp	olete (initials)		By By	M core	9 and	See See	3	1
Non TSR requirement:	ement:			7	7		B	)		)

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

On-duty Supervisor Date 1-6-19 Time 68:22 Reviewed by: Dat Cont Completed by:

Date -7-13 Time: 1340

Comments 1.1.13 VERIFIED MODE 2 SIGNAGE & STATION HOF VANIT AREA ((5/13 SAME 45 AROUR 21-2-1

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

		Date:	1-7-13	1-2-13	1-9-13	[-10-13	61-11-1	1-12-13	1-13-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	DT	Sh-	gn	an	ysel	79	74
	Description / Gauge	Acceptance Criteria		s /	URVEILLAN	SURVEILLANCE RESULTS (percentage)	(percentage)		
	Flammable Gas Channel								
SR	DET-305-3 (LCD Reading)	A Z	0.2	0.3	2.0	2.0	5.5	4.0	6.5
4.4.1.1	CP-305-H (LED								
	Reading)		0.2	A.0	0.7	2.0	ئ	0.3	2,2
	(DET-305-3) - (CP-305H)	Record Calculated	(	, ,	1		0.	4	
	(I CD Reading) (I FD	-	3	0.0	9:0	_		2 (	0 (
	Reading)	>-0.1; <+0.1	Sat.)/ Unsat.	Sat.)/ Unsat. Sat./ Unsat.	Sap/ Unsat.	&a ∕ Unsat. (	Sat./ Unsat.	Sat)/ Unsat. (Sat)/ Unsat.	(Sat.)/ Unsat.
		Completion Time:	0630 /1 280	0830	8180	0827	08 C	0770	0870

Surveillance Rounds

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Polt-894-1   F. 10-13   F. 17-13   F. 19-13   F. 19-15					(Page	(Page 2 of 4)					
Poseription   Gauge   Acceptance Criteria   Poseription   Gauge   Acceptance Criteria   South bassencent   Pol-894-1   \$\less{0.0 k} \geq 0' \text{ in. wc} \cdot \frac{1}{\text{OL}}  \frac{1}{\				Date:	1-7-13	1-8-13	1-9-13	1-10-13	1-11-13	1-12-13	1-13-12
Description   Gauge   Acceptance Criteria   South basement   PDI-894-1   \$\lambda 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
South basement				Initials:	Ž	gan	gun	an	34	pt	74
South basement 'PDI-894-1 \$\times 0.0 \columns 0.0 \colum	SRs	Description	. Саиве	Acceptance Criteria		-	SURV	/EILLANCE R (in. wc)	ESULTS		
South Corridor   PDI-8942   \$\leq 2.0 & > 0^1 \text{ in. wc}   \text{. 45}   \text{. 46}   \text{. 47}   \text{. 42}   .	4.1.3.4	South basement	<sup>1</sup> PDI-894-1	જ	,0¢	90.	90'	90,	90.	90.	401
South Corridor         PDI-895-1         \$\int 2.0 \& > 0^{\text{tirt.}} \text{ of }		supply filter plenum (HVP-841) AP	PDI-894-2	જ ^	, 4 S	48	ħħ°	. 45	٣٧,	HH	. 43
\$10) AP  PDI-817-1 \$\( \insertain \text{PDI-817-1} \) \$\( \insertain \text{C} \text{PDI-817-1} \) \$\( \insertain \text{C} \text{PDI-817-2} \) \$\( \insertain \text{SO} \text{R} \text{POI-1} \text{in wc} \) \$\( \insertain \text{PDI-817-2} \) \$\( \int \text{SO} \text{R} \text{POI-1} \text{in wc} \) \$\( \int \text{POI-817-2} \) \$\( \int \text{R} \text{POI-1} \) \$\( \int \text{R} \tex		South Corridor	1-895-1	ચ	80.	.08	80.	80.	80-	.08	80.
300 area glovebox exhaust filter plenum (FF858) AP PDI-817-1 \$\( \infty \alpha \rightarrow	4.1.3.4	810) AP	PDI-895-2	8 ^	141	.92	.92	.92	.95	.93	26
300 area glovebox         PDI-817-2         \$\infty\$0 = \$\tilde{\chi}\$0 = \$\tilde{\chi}\$1   \tilde{\chi}\$2   \tilde{\chi}\$3   \c			1-718-IQd1	શ્ર	1.2.	127	123	.27	.27	, 21	. 27
CFR854  AP   PDI-8174   \$\leq 2.0 & > 0^1 \text{ in wc}   \$\leq 31   \$\leq 31   \$\leq 31   \$\leq 32   \$\leq 30   \$\leq	4.1.3.4	300 area glovebox	PDI-817-2	× ×	.31	.31	,3}	,37	36,	. 29	30
300 area special PDI-819-1 \$ 2.0 & > 0^1 \text{ in. wc}  \text{, \$\frac{7}{3}\text{ of }  \text{ in. wc}  \text{, \$\frac{7}{4}\text{ of }  \text{, \$\frac{4}{4}\text{ of }  o		exhaust filter plenum (FF854) AP	PDI-817-4	~ ~	,31	.37	.3/	36.	.30	20	.31
300 area special			PDI-817-5	જ	,30	30	.30	.30	ى گە	.23	.30
cxhaust filter plenum         PDI-819-3         \$\( 2.0 \& > 0^1 \) in. wc         \( 4\) \(		300 area special	PDI-81 9-1	× × ×		24.	ih.	.42	. 41	04.	14.
FF858  AP   PDI-819-4   \$\leq 2.0 & > 0^1 in. wc   \$\leq 778  \text{STB} STB	4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	× ×	163	.42	.42	13.	. 41	0111	07
300 area glovebox exhaust filter plenum (FF855) ΔP PDI-818-2 ≤2.0 & > 0¹ in. wc STBy STBy STBy STBy STBy STBy STBy STBy		(FF858) AP	PDI-819-4	શ્ર	.31	32	34	34	સ	.32	22
300 area glovebox         PDI-818-2         ≤2.0 & > 0¹ in. wc         STBy         STBy         STBy         STBy           exhaust filter plenum (FF855) ΔP         PDI-818-4         ≤2.0 & > 0¹ in. wc         STBy         STBy         STBy         STBy           PDI-818-5         ≤2.0 & > 0¹ in. wc         STBy         STBy         STBy         STBy         STBy           300 area special recovery glovebox         PDI-821-1         ≤2.0 & > 0¹ in. wc         STBy         STBy         STBy           spraed         PDI-821-3         ≤2.0 & > 0¹ in. wc         STBy         STBy         STBy			1-818-1	ચ	STBY	8784	STBY	y ara	s784	STRY	57.84
CFR855  AP   PDI-818-4   \$\leq 2.0 & > 0^1 in. wc   \$\text{TRy}  \text{stdy}   \text{stdy}   \text{stdy}   \text{stdy}   \text{stdy}   \text{stdy}    \text{stdy}   \text{stdy}   \text{stdy}	4.1.3.4	300 arca glovebox	PDJ-818-2	જ	STBy	51131	57.34	518 4	5787	57.57	5 7 8 1
300 area special PDI-811-1 \$\leq 2.0 & > 0^1 in. wc \ STB \rightarrow \ STB \rightar		exhaust filter plenum (FF855) AP	PDI-818-4	× ×	ST8y	STDY	STBY	85028	57187	5787	57.8 4
300 area special PDI-821-I < \$2.0 & > 0 \ in. wc   STB \rightarrow			PDI-818-5	એ	STBy	STBY	STBY	28.83	57.07	STRY	57.84
STBY		300 area special	PDI-821-1	ચ	STBY	STBY	57.81	57BY	5187	578 4	5 T RY
4D PDI-8914 < 0.0 & > 0 lin wc	4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBy	8928	8734	\$7.0 Y	57.18.7	5784	57.87
15121   STIST   STIST   STIST   STIST		(FF859) AP	PDI-8214	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	4 EL 13	3734	57137	Luce	5184	5784

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) (Page 3 of 4)

				(Fage	(Fage 5 of 4)					
			Date:	1-7-13	1-8-13	1-9-13	1-10-13	1-11-13	1-12-13	1.15-12
			Weekday:	Mon.	Tue.	Wed.	Thu.	<i>(۱۳/د)</i> Fri.	Sat.	Sun.
			Initials:	MS	du	an	~^/	Bec	77	TA
SRs	Description	Gauge	Acceptance Criteria		•	SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		
		¹PDI-822-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBy	57134	srby	57.8 4	5704	STBY	STRY
4.1.3.4	400 arca glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBy	STBY	sroy	\$50%	7.620	5781	57.84
	exhaust filter plenum (FF8S6) ΔP	PDI-822-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	sTBy	57.04	STBY	81.34	57078	STBY	5784
	*	PDI-822-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	sTBy	57.8 %	\$7.34	5184	47.07	STRY	STBY
		'PDI-823-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	18.	<b>.9</b> 6	۲8.	98.	<b>3.</b> ⊗.	.80	38.
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	£ \$2	84,	94	84.	` خرق	24.	.42
	(FF857) $\Delta P$	PDJ-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	٠ 4٩	64.	49	64.	83.	34.	61,
		PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 51	15.	.51	.50	.51	54.	,50
	South Bacement exhaust	¹PDI-830-1	$\leq 2.0 \& > 0^4 \text{ in. wc}$	. 55	.55	55.	55.	. 5.5	9	36
4.1.3.4	filter plenum	PDJ-830-2	$\leq 2.0 \& > 0^4 \text{ in. wc}$	,35	.35	.35	35	32	. 32	.32
	(F1°-029) Δ1	PDI-830-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.30	30	.30	30	06,	.30	. 30
	300 area re-circulation	¹PDI-836-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	74	.8	.87	, 87	.87	181	187
	filter plenum	PDI-836-2	$\leq 2.0 \& > 0^4 \text{ in. wc}$	.52	55.	55.	.55	.55	55	.55
4.1.1.7	15 (CIO- JAH)	PDI-836-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	15:	75.	23	.52	45)	152	,52
	200 ores re-circulation	¹PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	09.	09.	9.9	09.	07.	09.	. 60
	filter plenum	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	.50	.50	05	. 50	,50	150
	( HVF-900) AF	PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	.45	640	47	48	, L&	7.	841

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				(rage 4 01 4)	4 01 4)					
			Date:	1-7-13	1-8-13	1-9-13	1-10-13	1-11-13	1-12-13	1-13-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	X,	2	Q.V.	70	Hec	Y	5
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	400 area re-circulation	1-888-IOd,	$\leq 2.0 \& > 0^1 \text{ in. wc}$	75.	.27	. 27	.27	اري	. 27	. 27
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	16,	lh•	14.	141	٠٠,	14.	. 4
4.1.1.7	15 (100-1411)	PDI-838-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 36	.37	.37	.37	38	38	38
	400 area re-circulation	<sup>1</sup> PDI-839-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	۲۲,	(2,	.27	22	۲۲.	. 27	27
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	۲۰.	lħ'	<u>, r</u>	7	97	77.	14.
	( HVF-808) ΔF	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	٠ ۴،	1h	<i>'h</i> '	15.	03.	14.	14.
	South Bleed off filter	1-018-IOd1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	11 "	٠١.	П.	61.	17	11	81.
4.1.3.4	plenum	PDI-810-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.75	.73	کرہ	.75	. 72	. 73	475
	15 (17 A )	PDI-810-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 50	.50	.50	150	63.	. 50	,50
	South Bleed off filter	¹PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF 35	3.00	<i>5</i> 50	f)O	40	OFF	OFF
4.1.3.4	plenum	PDI -811 -2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	OFF &	£50	230	<i>\$</i> }0	140	OFF	OFF
	(FF-522B) AF	PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF		££	\$50	oH	OFF	OFF
			. Completion Time	9:00 pm	0060	2489	80	8080	1210	6440
00	OC Operator Review and Page Count Complete (initials)	age Count Com	plete (initials)	B Copo	9 sms/	1/5/ SAD	A Res	200	9	\$ c
'Non TSR requirement:	ement:			B			2	18/1		

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Date 14-15 Time: (2-1) Completed by: Jour Just Date 1-17-13 Time 07-19 Reviewed by: Bud HALL

(11)1 mg/ A or or 8 Signa SySie 4 Comments Mode Mode

On-duty Supervisor

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:
The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (>-0.1; <0.1).

		Date:	1-14-13	1-15-13	1-16-13	1-17-13	1-18-13	01.19.13	01:00:13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	Jm	gin	}	z z	YW	46	E
	Description / Gauge	Acceptance Criteria		S	SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)		
	Flammable Gas Channel Check								
SR	DET-305-3 (LCD Reading)	AN	2.0	2.0	5.6	0.7	2.0	2.0	7:0
4.4.1.1	CP-305-H (LED Reading)		,	Ç	_ (	2.0	د د	c	ę
		L 24-11-12-12	0.3	0.4	7		1	1.0	2.0
	(DET-305-3) - (CP-305H)	Record Calculated	0.0	0.0	٥.0	0.0	0.0	0,0	0.0
	(LCD Reading) (LED Reading)	> -0.1; <+0.1	Sat. / Unsat.	Sall / Unsat. Sall / Unsat.	Sat)/ Unsat.	(Sat)/ Unsat.	(Sat) / Unsat. (Sat) / Unsat. (Sat) Unsat.	(Sat) / Unsat.	San/ Unsat.
		Completion Time:	0880	1490	2530	083L	רורס	62/12	0912

Surveillance Rounds

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				(Page	(Page 2 of 4)					
			Date:	1-14-13	1-15-13	1-16-13	1-17-13	1-18-13	01.19.13	01.20.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	Ar-	4~	Pr	24	m	BC	88
SRs	Description	Gauge	Acceptance Criteria	~	-	SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
4.1.3.4	South basement	'PDI-894-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	,00	90,	.0	) 0 '	0	90	06
	(HVP-841) $\Delta P$	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.43	.42	. 42	.45	Ω. 1.	£,	.43
	South Corridor	1-895-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	80	70.	60.	60.	20°	60.	Ė
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	40.8	76.	76.	. 92	. 43	92	,93
		¹PDI-817-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.27	.27	121	4	121	12.	12'
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31	,3,	, 28	25	.3j	8	30
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.30	.3/	. 2	28	R	30	18.
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	30	.30	. 22	.27	. 30	.30	30
	300 arca special	PDI-81 9-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 41	14.	. 41	. 39	ī	7	<u>ئ</u>
4.1.3.4	rccovery glovebox exhaust filter plenum	PD1-81 9-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	/ <b>/</b> -	16.	.39	.37	1 ਜ	<i>O</i> \$,	01-
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	35	36	ر بي .	.32	.35	Ŕ	,38
		<sup>1</sup> PDI-818-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.8Y	57.8 %	S TBY	57.01	STOY	STEY	IAS
4.1.3.4	300 arca glovebox	PDI-818-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ያፕሆኑ	5737	5 1 8 4	2787	5167	SIBY	STBY
	exhaust filter plenum (FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5787	57.81	STBY	5707	STBY	STBY	STBY
		S-818-IQd	$\leq 2.0 \& > 0^{-1}$ in. wc	\$672	STBY	S T.B.V	1012	डाहर	STEY	STBY
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	<i>y</i> 222	42125	S T By	1500	SIBY	SIBY	STBY
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	\$8.8	85131	5784	67.07	8187	STBY	SIEV
	(FF859) AP	PD1-821-4	$\leq 2.0 \& > 0^{1}$ in. wc	STBY	76178	STBY	40 63	STBY	STBY	STBY

Surveillance Rounds

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				(Page	(Page 3 of 4)					
			Date:	1-14-13	1-15-13	1-16-13	1-17-13	1-18-13	01.19.13	01.20.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	fm.	gn	74	Buc	71	8C	8
SRs	Description	Gauge	Acceptance Criteria	`		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	•	¹PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5 TB 4	57.84	STBY	57.04	5187	STBY	SiBy
4.1.3.4	400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBV	5787	STBY	4016	STAT	STEN	STBY
	exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	57.8-7	STBY	का ८३५	डाकर	STBY	STBY
		PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	7872	STBY	57.84	57.137	5187	STBY	STB/
	,	¹PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	98.	C&	08	.81	. 65	8	.85
4.1.3.4	400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	hh.	24,	44	.45	.45	Zh'	\$
	(FF857) AP	PDI-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	£4.	64.	, 48	48	٦٤,	94.	Pp.
		PDI-823-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	50	15.	98,	, 49	iè	8	,50
,	South Basement exhaust	¹PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	55,	55.	,56	ر ما	એ.C.	.5%	R
4.1.3.4	filter plenum	PDI-830-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	32	45,	. 3 2	35	.33	32	135
	(F.F-9.2) Al	PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	.30	.30	. 36	35.	30	130
	300 area re-circulation	'PDI-836-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.86	9,8.	.87	22	.86	. 97	\$
	filter plenum	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	22	\$5.	. 55	. 55	55,	58	.55
4.1.1.7	VE (COS- VA IV)	PDI-836-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	7.5	.52	152	.5.	.52	25	Ş
	300 area re-circulation	'PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	09.	09.	99,	و(	09.	9	09:
	filter plenum	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.50	.50	95.	.50	, 50	8	જ
	12 (000-1411)	PDI-837-3	$\leq 2.0 \& > 0^{1}$ in. wc	54.	94.	. 47	<b>8</b> 5.	٢٦	3	<u>بح.</u>

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

				(T 10 F 28 I)	7 10 7					
			Date:	£1-h1-1	i-15-i3	1-16-13	1-17-13	2-18-13	61.19.13	0.20.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	Ar-	A.	74	300	Ja-Y-	Ř	8
SRs	Description	Gauge	Acceptance Criteria	•		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	PDI-838-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	72.	72.	, 28	80	L7.	12.	12'
	filter plenum	PDI-838-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	14,	14.	141	3	Ŧ,	14,	7
4.1.1.7	7 ( , , , , , , , , , , , , , , , , , ,	PDI-838-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.36	.38	. 38	. 38	.3A	3%	,38
	400 area re-circulation	'PDI-839-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.23	.27	. 28	76.	32.	12:	12.
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.41	14.	14.	٠٠٠	٠41	14.	,4 <i>î</i>
	12 (000-1411)	PDI-839-3	$\leq$ 2.0 & > 0 in. wc	14.	.41	. 41	٦,	7.5	. ų j	نې
	South Bleed off filter	1-018-IQd1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	77.	r.	81.	17	۵۱.	. į	(5)
4.1.3.4	plenum	PDJ-810-2	$\leq 2.0 \& > 0^1$ in. wc	.72	.22	.75	.75	.70	.10	01.
	15 (5770-XX)	PDI-810-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.50	.50	. 51	08.	. A.B.	.48	$\frac{2}{80}$
	South Bleed off filter	1- 118- IQd <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	230	off	9 7 9	4	上の	At A	9FF
4.1.3.4	plenum	PDI -811 -2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	OF.	o F\$	OFF	7+0	H-	#	#
	( F.F-922B) SA	PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	4	dyo	0 F F	240	出	#	告
			. Completion Time	0106	0855	0842	0830	0749	GW	0927
00	OC Operator Review and Page Count Complete (initials)	age Count Com		_	J808	8	3	ડ ૪	R B	8

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and moder2 as stated in LCO 3.1.3.

Date Of 20 S Time OPE 7 Reviewed by

Date 121-13 Time: U716

aty Supervisor

Comments

Completed by:

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system SR 4.1.1, The OPERABILITY acceptance criterion for this surveillance is:
The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

Surveillance Rounds

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				(Page	(Page 2 of 4)					
			Date:	1-21-13	j-11-13	4-57-1	1.24-13	1-25-13	1.26-13	1.22-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	dr-	GM	~	dr-	PT	dw.	8
SRs	Description	Gauge	Acceptance Criteria	,	•	SURV	SURVEILLANCE RESULTS (in. wc)	ESULTS	-	
4.1.3.4	South basement	'PD[-894-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	90.	70.	50.	\$0.	20,	50.	Ř
	supply filter plenum (HVP-841) AP	PDI-894-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 43	47.	£h.	2h.	, , ,	.45	-1 -1
	South Corridor	1-568 <b>-</b> IQd,	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	80.	70.	80.	80.	. O	80	80
4.1.3.4	810) AP	PDI-895-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 94	.93	46°	46,	46.	7.7	×,
		1-718-10d1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.27	cx.	17	.27		27	12)
4.1.3.4	300 area glovebox	PDI-817-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	,30	i,	12:	.31	5	(5,
	exhaust filter plenum (FF854) AP	PDI-817-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, Ķ.	13.	.31	.7,	, 30	30	,3(
		PDI-817-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	20	67.	.30	30	29	.29	130
	300 area special	PDI-81 9-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	14.	14.	14.	5.	/ h :	17-	7,
4.1.3.4	recovery glovebox exhaust filter plenum	PDI-81 9-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	14	/,	īħ.	//η·	, 4)	14.	14,
	(FF858) AP	PDI-819-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	36	.36	.36	.36	, 3,5	.36	1-5
		¹PDI-818-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	2513 1	5713 4	\$184	57.04	5784	STBY	STRIV
4.1.3.4	300 area glovebox	PDI-818-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	5787	5787	5737	5184	57.8 y	STON
	exhaust filter plenum (FF855) AP	PDI-818-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	<i>\</i> द्योप्ड	2018	\$7.34	ST.B.V	5784	57.04	\$78 <i>Y</i>
		PDI-818-5	$\leq 2.0 \& > 0^4 \text{ in. wc}$	STDV	57.04	STBY	४६८४	5137	\$7.0%	STIB!
	300 area special	PDI-821-1	$\leq 2.0 \& > 0^4 \text{ in. wc}$	STBY	\$7.B.Y	5789	STBY	5 784	4878	Sto:
4.1.3.4	exhaust filter	PDI-821-3	$\leq 2.0 \& > 0^1$ in. wc	57.84	\$ 57.8 %	\$781	KELLS	57.84	57.87	STRY
	(FF859) AP	PDI-821-4	$\leq 2.0 \& > 0^{1}$ in. wc	5707	578 %	5787	STOY	5184	5737	stoy

Surveillance Rounds

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		Date:	1-11-13	1-22-13	1-23-13	1-24-13	1-25-13	1-26-13	1-2213
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fii	Sat.	Sun.
		Initials:	dr-	dr.	du	d.m	10	gn	S
Description	Gauge	Acceptance Criteria	•		SURV	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	<sup>1</sup> PDI-822-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5134	5184	5134	5784	57.84	STB 7	STBY
400 area glovebox	PDI-822-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	51.84	87.8 У	STBY	5187	5784	STBY	STOY
exhaust filter plenum (FF856) AP	PDI-822-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5187	57.8 Y	87.34	57BY	5784	57.87	57.58
	PDI-822-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	57.87	SrBy	5787	5181	STB4	STOV
	¹PDI-823-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.86	18.	.87	95.	98,	98	1%
400 area glovebox	PDI-823-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 43	<i>hh</i> •	5h•	.45	54,	ħħ*	, 4H
(FF857) AP	PDJ-823-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	66	64.	54	9¥.	64.	9.7	95,
	PDI-823—5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	-50	.50	15.	.50	. 50	72.	ls,
South Basement exhaust	<sup>1</sup> PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	95	95.	95.	<b>95</b> °	, 576	.56	.86
filter plenum	PDI-830-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.33	34	»34	hE.	. 32	.34	.34
(FF-629) AF	PDI-830-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ەر	30	.36	.30	,30	٥ <b>٤</b> .	.30
300 area re-circulation	¹PDI-836-1	$\leq 2.0 \ \& > 0^1 \ \text{in. wc}$	98.	.86	99.	.86	18.	98.	, 87
filter plenum	PDI-836-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.54	54	, <b>s</b> 4	,57	, 54	h2.	.53
(II V K =0U3) ΔA	PDI-836-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.52	.51	.52	.52	45	. 52	,52
300 area re-circulation	<sup>1</sup> PDJ-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Mrs. 60	09.	99.	09.	09.	09.	07.
filter plenum	PDI-837-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	50	.50	05.	20	.50	.50	05,
( VI V - 000)	PDI-837-3	$\leq 2.0 \& > 0^1$ in. wc	94	čh,	.47	74.	, 47	74.	14

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

				(Page	(Page 4 ot 4)			ı		
			Date:	(1.17.1	1-22-13	1-23-13	6-4-1	1-25-13	1-26-13	1-2745
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	din din	Jan-	gra-	g.a.	74	-wD	S
SRs	Description	Gauge	Acceptance Criteria		<u> </u>	SURV	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	400 area re-circulation	1-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	۲2)	72.	72.	.27	1.28	.28	8%;
	filter plenum	PDI-838-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	16.	14.	161	lh.	11, '	15	(1)
4.1.1.7	15 ( 10-1411 )	PDI-838-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.39	.39	39	34	. 39	-39	62.
	400 area re-circulation	I-688-IQd <sub>1</sub>	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	(2,	72.	Œ	.27	, 27	.27	,27
	filter plenum	PDI-839-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	<i>I</i> k.	7	. 41	ıh.	14,	14.	.41
	(1111-000)	PDI-839-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	14.	14.	14.	17.	16,	14.	'4
,	South Bleed off filter	1-018-IQq1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.16	91°	ri.	.17	. 77	71	7
4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^{1}$ in wc	.70	20	,7,	.71	71.	17,	121
		PDI-810-3	$\leq 2.0 \& > 0^{4} \text{ in. wc}$	40	667	64.	6.5	64,	64.	gh,
	South Bleed off filter	¹PDI -811 - 1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	off	sto.	J <b>‡</b> €	250	DFF	£\$0	9#
4.1.3.4	plenum	2- 118- IQd	$\leq 2.0 \& > 0^1 \text{ in. wc}$	27.5	0 f.F	## C	246	OFF	330	540
	( FF-822B) ΔF	PDI -811 -3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	att	off.	0.85	<i>340</i>	OFF	)Jf0	96
			. Completion Time	9780	0807	0900	0833	0812	6713	(28.27
0C	OC Operator Review and Page Count Complete (initials)	age Count Com	olete (initials)	2 C		000 al	) 90° 90°	8	5	000
					/					

<sup>1</sup>Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Date 1-27-13 Time 0837 Completed by:

Reviewed by:

Date: 1-28-13Time: 1300

Comments

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥-0.1; ≤0.1).

Surveillance Rounds

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Sat
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Surveillance Rounds

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Description  400 area glovebox exhaust filter plenum (FF856) AP  400 area glovebox exhaust filter plenum (FF857) AP  South Basement exhaust filter plenum (FF-829) AP  (FF-829) AP  (FF-829) AP  (FF-829) AP	Gauge Accep	Date:           Weekday:           Initials:           \$\leq 2.0 & > 0^1\$ in. wc           \$\leq 2.0 & > 0^1\$ in. wc	Mon.  Non.  5784  5784	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Description  400 area glovebox exhaust filter plenum (FF856) AP  400 area glovebox exhaust filter plenum (FF857) AP  South Basement exhaust filter plenum (FF-829) AP  (FF-829) AP  (FF-829) AP  (HVP-805) AP		Weekday:         Initials:         2.0 &> 0¹ in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Description  400 area glovebox exhaust filter plenum (FF856) AP  400 area glovebox exhaust filter plenum (FF857) AP  South Basement exhaust filter plenum (FF-829) AP  (FF-829) AP  (FF-829) AP  (HVP-805) AP		Initials:  2.0 &> 0¹ in. wc	7.m.7. 57.84						
Description  400 area glovebox exhaust filter plenum (FF856) AP  400 area glovebox exhaust filter plenum (FF857) AP  South Basement exhaust filter plenum (FF-829) AP  (FF-829) AP  (FF-829) AP  (HVP-805) AP		2.0 & > 0 <sup>1</sup> in. wc 2.0 & > 0 <sup>1</sup> in. wc	57.87						
400 area glovebox exhaust filter plenum (FF856) ΔP 400 area glovebox exhaust filter plenum (FF857) ΔP filter plenum (FF829) ΔP (FF-829) ΔP filter plenum (FF-829) ΔP filter plenum (FF-829) ΔP filter plenum (FF-829) ΔP			STBY		SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
400 area glovebox exhaust filter plenum (FF856) ΔP  400 area glovebox exhaust filter plenum (FF857) ΔP  South Basement exhaust filter plenum (FF-829) ΔP  (FF-829) ΔP  filter plenum (FF-829) ΔP  (FF-829) ΔP			STBY						
(FF856) AP  400 area glovebox exhaust filter plenum (FF857) AP  South Basement exhaust filter plenum (FF-829) AP  300 area re-circulation filter plenum (HVP-805) AP									
400 area glovebox exhaust filter plenum (FF857) AP  South Basement exhaust filter plenum (FF-829) AP  300 area re-circulation filter plenum (HVP-805) AP			5787						
400 area glovebox exhaust filter plenum (FF857) AP South Basement exhaust filter plenum (FF-829) AP filter plenum (FF-829) AP filter plenum (HVP-805) AP		8	STBY						
400 area glovebox exhaust filter plenum (FF857) $\Delta P$ South Basement exhaust filter plenum (FF-829) $\Delta P$ 300 area re-circulation filter plenum (HVP-805) $\Delta P$			2						
(FF857) $\Delta P$ South Basement exhaust filter plenum (FF-829) $\Delta P$ 300 area re-circulation filter plenum	PDI-823-2 <=2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.45						
South Basement exhaust filter plenum (FF-829) AP 300 area re-circulation filter plenum (HVP-805) AP	PDJ-823-4 <=2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	P4.						
South Basement exhaust filter plenum (FF-829) AP  300 area re-circulation filter plenum (HVP-805) AP	PDI-823—5 <2	≤2.0 & > 0¹ in. wc	15.						
Tilter plenum (FF-829) AP  300 area re-circulation filter plenum (HVP-805) AP	¹PDI-830-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	96.						
300 area re-circulation filter plenum (HVP-805) $\Delta P$	PDI-830-2 <2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32						
300 area re-circulation filter plenum (HVP-805) ΔP	PDI-830-3 <2	<2.0 & > 01 in. wc	. 30						
filter plenum (HVP-805) ΔP	¹PDI-836-1 ≤2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	9A.						
(HVF-805) AF	PDI-836-2 <2	≤2.0 & > 0 <sup>1</sup> in. wc	,55						
4.1.1.7	PDI-836-3 <2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.52						
	PDI-837-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	9.						
filter plenum PDI-	PDI-837-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	'n,						
	PDI-837-3 ≤2.0 o	.0 & > 01 in. wc	٠ ٩ ٢						

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

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				(, zo , 20 z)	10 - 1					
			Date:	1-28-13						
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	NM						
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	400 area re-circulation	1-838-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	33,						
	filter plenum	PDI-838-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	) 17'						
4.1.1.7	10 (100-101)	PDI-838-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 38						
	400 area re-circulation	1-688-IQd <sub>1</sub>	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	12.						
	filter plenum	PDI-839-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	٠٠.						
	( HVF-808) ΔF	PDI-839-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.4)						
	South Bleed off filter	1-018-IQd,	$\leq 2.0 \& > 0^1 \text{ in. wc}$	۲۱.						
4.1.3.4	plenum	PDJ-810-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	21.						
	( FF-044A) (31	PDI-810-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,49						
	South Bleed off filter	<sup>1</sup> PDI -811 - 1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	OFF						
4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	9年						
	( FF-822B) AF	PDI -811 -3	<2.0 & > 0 <sup>1</sup> in. wc	770						
			. Completion Time	2733	,					
00	OC Operator Review and Page Count Complete (initials)	age Count Comp	lete (initials)	BEC						

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Completed by: wese traffy Date 1-28-15 Time 0133 Reviewed by:

Date 2-5-13 Time: 0 862

Comments

Surveillance Rounds

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# ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:

cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (>-0.1; <0.1).

		,							
		Date:		21-52-1	1.30-3	1-31-13			
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		* -	gn	gn			
<u> </u>	Description / Gauge	Acceptance Criteria		<b>3</b> 2	SURVEILLANCE RESULTS (percentage)	CE RESULTS	(percentage)		
Flai	Flammable Gas Channel Check DET-305-3 (LCD Reading)	ÑA		2.5	0.5	0.2			
_	CP-305-H (LED Reading)			2.0	0.3	7.0			
(DET	(DET-305-3) – (CP-305H)	Record Calculated Value		0.0	0.0	0.0			
(T)	(LCD Reading) (LED Reading)	> -0.1; <+0.1	Sat. / Unsat.	(Sat) / Unsat.	Sat. / Unsat. (Sat) / Unsat. (Sat. / Unsat. (Sat. / Unsat.	Sag. / Unsat.	Sat. / Unsat. Sat. / Unsat. Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:		0813	7080	083/			

Surveillance Rounds

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		Sun.															٠	·				
		Sat.																				
		Fri.		SULTS																		
	1-31-13	Thu.	4	SURVEILLANCE RESULTS (in. wc)	.05	45	7٥.	38	51.8 4	3181	STAY	3787	S7B Y	SrBY	5184	.24	.30	15.	28	.29	54.	65
,	1-30-13	Wed.	da	SURVE	30.	.43	80	92	. 27	.30	30	.29	ah.	ah.	.33	8784	37137	5787	\$134	81731	\$7.0 X	18118
(Page 2 of 4)	81-12-13	Tue.	44		30,	74.	75.	36	12	.30	, 30	, 30	,40	oh.	,35	STBY	STBY	\$167	SIBY	5164	SIEX	STRY
(Page		Mon.																				_
	Date:	Weekday:	Initials:	Acceptance Criteria	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^4 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$. \le 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$
			_	Gauge	<sup>1</sup> PDI-894-1	PDI-894-2	1-895-1	PDI-895-2	<sup>1</sup> PDI-817-1	PDI-817-2	PDI-817-4	PDI-817-5	PDI-81 9-1	PDI-81 9-3	PDI-819-4	¹PDI-818-1	PDI-818-2	PDI-818-4	PDI-818-5	PDI-821-1	PDI-821-3	PDI-821-4
				Description	South basement	(HVP-841) AP	South Corridor	810) AP		300 area glovebox	exhaust filter plenum (FF854) AP		300 area special	recovery glovebox exhaust filter plenum	(FF858) AP		300 area glovebox	exhaust filter plenum (FF855) AP		300 area special	exhaust filter	(FF859) AP
				SRs	4.1.3.4			4.1.3.4		4.1.3.4				4.1.3.4			4.1.3.4			_	4.1.3.4	

Surveillance Rounds

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SRS					(Page	(Page 3 of 4)						
Description   Gauge   Acceptance Criteria   Non   Tue.   Weel.   Tun   Fri.				Date:		1-23-13	1-30-13	21-18-1			_	Т
Description   Gauge   Acceptance Criteria   Acceptance Criteria   PDI-822-1   \$2.0 & > 0 <sup>1</sup> in. wc   \$5.64   \$5.72   \$1.00				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
Description   Gauge   Acceptance Criteria				Initials:		Trm	4	du.				
400 area glovebox exhaust filter plenum (FF850) AP (FF827) AP (FF827) AP (FF829) AF (FF829) AP (FF829) AF (FF	ξŞ	Description	Gauge	Acceptance Criteria			SURV	EILLANCE RE (in. wc)	SULTS			
400 area glovebox         PDI-822-2         \$\int 0.00^{2}\tilde{\text{in.}}\tilde{\text{wc}}         \$\int 6.824 \tilde{\text{s.}} \frac{\int 0.00}{\int 0.00}         \$\int 6.824 \tilde{\text{s.}} \frac{\int 0.00}{\int 0.00} \tilde{\text{s.}} \frac{\int 0.00}{\int 0.00}         \$\int 6.824 \tilde{\text{s.}} \frac{\int 0.00}{\int 0.00} \tilde{\text{s.}} \frac{\int 0.00}{\int 0.00}         \$\int 6.824 \tilde{\text{s.}} \frac{\int 0.00}{\int 0.00} \tilde{\text{s.}} \frac{\int 0.00}{\int			<sup>1</sup> PDI-822-1	શ્ર		STBY	STØY	590				
exhaust filter plenum         PDI-822-4         \$\lequiv{0}\text{c}\text{c}\text{o}\text{lin.wc}\$         \$\lequiv{0}\text{s}\text{g}\text{s}s	3.4	400 area glovebox	PDI-822-2	$\& > 0^1 \text{ in.}$		STBY	3737	.50				
400 area glovebox         PDI-823-5         \$\gequiv{0.00}{2.0.8} \times^0 \times^0         \$\gequiv{0.00}{3.00}\$		exhaust filter plenum (FF856) AP	PDI-822-4	સ્ત્ર		5167	518 1	57.				
400 area glovebox exhaust filter plenum         PDI-823-1         \$2.0 & > 0 <sup>1</sup> in. wc         .45         μγ           exhaust filter plenum (FF857) ΔP         PDI-823-4         \$2.0 & > 0 <sup>1</sup> in. wc         .45         μγ           South Basement exhaust (FF857) ΔP         PDI-823-5         \$2.0 & > 0 <sup>1</sup> in. wc         .51         50           South Basement exhaust (FF-829) ΔP         PDI-830-1         \$2.0 & > 0 <sup>1</sup> in. wc         .52         \$2.0 (R > 0 <sup>1</sup> in. wc           South Basement exhaust (FF-829) ΔP         PDI-830-2         \$2.0 & > 0 <sup>1</sup> in. wc         .30         3D           filter plenum (HF-829) ΔP         PDI-836-1         \$2.0 & > 0 <sup>1</sup> in. wc         .30         .30           300 area re-circulation filter plenum (HVP-805) ΔP         PDI-836-1         \$2.0 & > 0 <sup>1</sup> in. wc         .55         .52           300 area re-circulation filter plenum filter plenum (HVP-806) ΔP         PDI-837-1         \$2.0 & > 0 <sup>1</sup> in. wc         .50         .50           filter plenum filter plenum filter plenum filter plenum filter plenum filter plenum (HVP-806) ΔP         PDI-837-1         \$2.0 & > 0 <sup>1</sup> in. wc         .50         .50           γ         γ         γ         γ         γ         γ         γ         γ           γ         γ         γ         γ         γ         γ         γ         γ			PDI-822-5			SIBy	5787	.50				
400 area glovebox exhaust filter plenum (FF857) AP         PDI-823-4         \$2.0 & > 0^1 in. wc         .45         44           South Basement exhaust filter plenum (FF857) AP         PDI-823-5         \$2.0 & > 0^1 in. wc         .51         \$5.0           South Basement exhaust filter plenum (FF-829) AP         PDI-830-1         \$2.0 & > 0^1 in. wc         .52         \$5.2           300 area re-circulation filter plenum filter ple			<sup>1</sup> PDI-823-1	ચ		9 8	98-	STBY				
PDI-823-4   \$2.0 & > 0¹ in. wc   .445   47   47     PDI-823-5   \$2.0 & > 0¹ in. wc   .51   5.0     South Basement exhaust   PDI-830-1   \$2.0 & > 0¹ in. wc   .55   \$5.5     Ifler plenum   PDI-830-2   \$2.0 & > 0¹ in. wc   .32   .32     Ifler plenum   PDI-836-3   \$2.0 & > 0¹ in. wc   .30   .30     Ifler plenum   PDI-836-1   \$2.0 & > 0¹ in. wc   .55   .55   .55     300 area re-circulation   PDI-836-3   \$2.0 & > 0¹ in. wc   .53   .52   .55     Ifler plenum   PDI-836-3   \$2.0 & > 0¹ in. wc   .55   .55   .55     Ifler plenum   PDI-837-1   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   PDI-837-3   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   PDI-837-3   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   PDI-837-3   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   PDI-837-3   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   PDI-837-3   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   PDI-837-3   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   PDI-837-3   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   PDI-837-3   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   PDI-837-3   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   PDI-837-3   \$2.0 & > 0¹ in. wc   .50   .50     Ifler plenum   Ifler plenum   .47   .47   .47   .47	3.4	400 area glovebox	PDI-823-2			.45	hħ	Srav				
South Basement exhaust filter plenum         PDI-823—5         ≤2.0 & > 0¹ in. wc         . 51         50           South Basement exhaust filter plenum         PDI-830-1         ≤2.0 & > 0¹ in. wc         . 32         ≤2           (FF-829) AP filter plenum         PDI-836-1         ≤2.0 & > 0¹ in. wc         . 30         30           300 area re-circulation filter plenum         PDI-836-1         ≤2.0 & > 0¹ in. wc         . 66         . 52           300 area re-circulation filter plenum         PDI-836-3         ≤2.0 & > 0¹ in. wc         . 52         . 52           300 area re-circulation filter plenum         PDI-837-1         ≤2.0 & > 0¹ in. wc         . 52         . 52           filter plenum filter plenum         PDI-837-2         ≤2.0 & > 0¹ in. wc         . 50         . 50           filter plenum filter plenum         PDI-837-3         ≤2.0 & > 0¹ in. wc         . 50         . 50           filter plenum         PDI-837-3         ≤2.0 & > 0¹ in. wc         . 47         . 47		(FF857) AP	PDI-823-4			. 49	44	STBV				
South Basement exhaust filter plenum         'PDI-830-1         \$\insigma 2.0 & \insigma > 0^1 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^1 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2 0 & \insigma > 0^2 \text{ in. wc}         \$\insigma 5.2			PDI-823—5	ચ		.51	50	STBY				
Filter plenum   PDI-830-2   \$\leq 2.0 & \end{align*} \rightarrow		South Basement exhaust	1-028-IQd <sub>1</sub>	એ		55	55	.56				
PDI-830-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   \$\leq 300 \text{ area re-circulation} \text{   PDI-836-1   \$\leq 2.0 & > 0^1 \text{ in. wc}   \$\leq 66 \text{   PDI-836-2   \$\leq 2.0 & > 0^1 \text{ in. wc}   \$\leq 66 \text{   PDI-836-3   \$\leq 2.0 & > 0^1 \text{ in. wc}   \$\leq 66 \text{   PDI-836-3   \$\leq 2.0 & \leq 0^1 \text{ in. wc}   \$\leq 66 \text{   PDI-837-1   \$\leq 2.0 & \leq 0^1 \text{ in. wc}   \$\leq 66 \text{   PDI-837-2   \$\leq 2.0 & \leq 0^1 \text{ in. wc}   \$\leq 66 \text{   PDI-837-3   \$\leq 2.0 & \leq 0^1 \text{ in. wc}   \$\leq 47   \$\leq 48   \$\leq 66   \$\leq	4.	filter plenum	PDI-830-2	જ		.32	.32	.32				
300 area re-circulation filter plenum (HVP-805) AP PDI-836-2 ≤2.0 & > 0¹ in. wc (HVP-805) AP PDI-836-3 ≤2.0 & > 0¹ in. wc (HVP-805) AP PDI-836-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-1 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0¹ in. wc (HVP-806) AP PDI-837-3 ≤2.0 & > 0² in. wc (HVP-806) AP PDI-837-3 ≤2.0 & × in. wc (HV		(FF-029) ΔF	PDI-830-3			.30	30	.30				
Titter plenum   PDI-836-2   \$\leq 2.0 & \times 0^1 in. wc   . \times 5   \times 5   . \times 5   \t		300 area re circulation	1-988-IQd <sub>1</sub>	સ્ત્ર		98.	<b>68</b> °	93				
PDI-836-3   \$\leq 2.0 & \circ 0^4\$ in. wc   \$\leq 5.2 \\   PDI-837-1   \$\leq 2.0 & \circ 0^4\$ in. wc   \$\leq 5.0 \\   PDI-837-2   \$\leq 2.0 & \circ 0^4\$ in. wc   \$\leq 5.0 \\   PDI-837-3   \$\leq 2.0 & \circ 0^4\$ in. wc   \$\leq 5.0 \\   PDI-837-3   \$\leq 2.0 & \circ 0^4\$ in. wc   \$\leq 4.7   \$\leq 6.0 \\   PDI-837-3   \$\leq 5.0 & \circ 0^4\$ in. wc   \$\leq 4.7   \$		filter plenum	PDI-836-2	જ		35.	55	.55				
'PDI-837-1       ≤2.0 &> 0¹ in. wc       , φc       , φc       , 50         PDI-837-2       ≤2.0 &> 0¹ in. wc       , 50       , 50         PDI-837-3       ≤2.0 &> 0¹ in. wc       , 47       , 47	1.7	10 (COO- 14 II)	PDI-836-3	જ		.53	,5%	.52				
PDI-837-2 $\leq 2.0 \& > 0^{1} \text{ in. wc}$ , $\leq 50$ , $\leq 50$ . $\leq 50$ PDI-837-3 $\leq 2.0 \& > 0^{1} \text{ in. wc}$ , $\leq 50$ , $\leq 50$ . $\leq 50$ . $\leq 50$ PDI-837-3 $\leq 50$ . $\leq 50$ PDI-837-3 $\leq 50$ . $\leq 50$ PDI-837-3 $\leq 50$		300 ores re circulation	1-78-Idq <sup>1</sup>			ږ	.50	09.				
PDI-837-3 <2.0 & > 0 <sup>4</sup> in. wc		filter plenum	PDI-837-2	ચ		,50	05.	50		,		
		( II V F - 000) ΔK	PDI-837-3	$\leq 2.0 \& > 0^{4}$ in. wc		147	Ch.	& h.				

Surveillance Rounds

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)

(Page 4 of 4)

SRs   Description   Gauge   Acceptance Criteria   Tue   Wed   Thu,   Fri   Sat   Sum    SRs   Description   Gauge   Acceptance Criteria   Tue   Gauge   Acceptance Criteria    4.13.4   Gauge   PDI-838-1   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-1   S.O. & > 0¹ in we   .413.4    SRs   Description   PDI-818-1   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-2   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0¹ in we   .413.4    4.13.4   South Bited off filter   PDI-811-3   S.O. & > 0² in we   .413.4    4.13.4   S.O. & S.O. &	Description   Gauge   Acceptance Criteria   Tun.   Mon.   Tun.   Mod.   Tun.   Tun.   Mod.   Tun.   Mod.   Tun.   Tun.   Mod.   Tun.   Tun.   Mod.   Tun.   Tun.   Mod.   Tun.					0>	(					
Description   Gauge   Acceptance Criteria   Fin.	Description   Gauge				Date:		1-28-13	61-08-1	i-31-13			
Description   Gauge   Acceptance Criteria	Description    Description   Gauge   Acceptance Criteria				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Description   Gauge   Acceptance Criteria     400 area re-circulation   PDI-838-1   \$\( 2.0.0.0.0^{1} \) in. wc   .27   .27   .27     400 area re-circulation   PDI-838-2   \$\( 2.0.0.0.0^{1} \) in. wc   .44   .40     400 area re-circulation   PDI-839-1   \$\( 2.0.0.0.0^{1} \) in. wc   .41   .41     400 area re-circulation   PDI-839-1   \$\( 2.0.0.0.0^{1} \) in. wc   .41   .41     400 area re-circulation   PDI-839-2   \$\( 2.0.0.0.0^{1} \) in. wc   .41   .41     400 area re-circulation   PDI-839-3   \$\( 2.0.0.0.0^{1} \) in. wc   .41   .41     500 couth Bleed off filter   PDI-810-1   \$\( 2.0.0.0.0^{1} \) in. wc   .41   .41     500 conth Bleed off filter   PDI-810-2   \$\( 2.0.0.0.0^{1} \) in. wc   .41   .41   .41     6	Description   Gauge   Acceptance Criteria   PDI-838-1   \$2.0 & > 0¹ in. wc   .41   .40     HVP-807) AP   PDI-838-2   \$2.0 & > 0¹ in. wc   .36   .38     Ara re-circulation   PDI-839-1   \$2.0 & > 0¹ in. wc   .41   .41     HVP-808) AP   PDI-839-2   \$2.0 & > 0¹ in. wc   .41   .41     HVP-808) AP   PDI-839-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-810-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-810-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-810-1   \$2.0 & > 0¹ in. wc   .41   .41     PDI-810-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-810-1   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-1   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-2   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-1   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-1   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-1   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-1   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-1   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-2   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     Completion Time   .41   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .41   .41     PDI-811-3   \$2.0 & > 0¹ in. wc   .41   .				Initials:		W.Y.	gm g	g-			
400 area re-circulation filter plenum (HVP-807) AP PDI-838-1 ≤2.0 & > 0¹ in. wc (HVP-807) AP PDI-838-3 ≤2.0 & > 0¹ in. wc (HVP-807) AP PDI-838-3 ≤2.0 & > 0¹ in. wc (HVP-808) AP PDI-839-3 ≤2.0 & > 0¹ in. wc (HVP-808) AP PDI-839-3 ≤2.0 & > 0¹ in. wc (HVP-808) AP PDI-810-1 ≤2.0 & > 0¹ in. wc (HVP-802A) AP PDI-810-1 ≤2.0 & > 0¹ in. wc (HVP-822A) AP PDI-811-2 ≤2.0 & > 0¹ in. wc (HVP-822B) AP PDI-811-2 ≤2.0 & > 0¹ in. wc (HVP-822B) AP PDI-811-2 ≤2.0 & > 0¹ in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & > 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & > 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & > 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & > 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0² in. wc (HVP-822B) AP PDI-811-3 ≤2.0 & < 0²	PDI-838-1   \$2.0 & > 0 <sup>1</sup> in. wc   .27	SRs	Description	Gauge	Acceptance Criteria			SURVI	EILLANCE RI (in. wc)	ESULTS		
HVP-807) AP	HVP-807) AP   PDI-838-2   \$\leq 2.0 & > 0^1 in. wc   .41   .40   .41   .40   .40   .40   .40   .40   .41		400 area re-circulation	1-838-1	≤2.0 & > 0 tin. wc		12,	7.	cr.			
The properties of the properties   Properties	PDI-838-3   \$\leq 2.0 & \times 0^1 \times 0   \text{in. wc}   \$\leq 3.26 \times 0^1 \times 0   \text{in. wc}   \$\leq 3.27   \$\leq 3.2		filter plenum	PDI-838-2			,41	OH.	14.			
400 area re-circulation	PDI-839-1   \$\( 22.0 & \& > 0^{\text{i}} \text{ in. wc} \)   \( \text{FIP-808} \) \( APP \)   \( \text{FP-8228} \) \( APP \)   \( \text{FF-822B} \) \(	4.1.1.7	( HVF-00/) ΔF	PDI-838-3			. 38	.38	.38			
Filter plenum	HVP-808  AP   PDI-839-2   \$\leq 2.0 & > 0^1 in. wc   HIVP-808  AP   PDI-839-3   \$\leq 2.0 & > 0^1 in. wc   HIVP-808  AP   PDI-810-1   \$\leq 2.0 & > 0^1 in. wc   HIVP-808  AP   PDI-811-1   \$\leq 2.0 & > 0^1 in. wc   \leq 3.0 & \leq 3.0		400 area re-circulation	1-688-IQd <sub>1</sub>			12.	i.	77,			
Complete (initials)	th Bleed off filter         PDI-839-3         \$\leq 2.0 & \delta > 0^1 \text{ in. wc}         \dots 1         \dots 1         \dots 1           th Bleed off filter         PDI-810-1         \$\leq 2.0 & \delta > 0^1 \text{ in. wc}         \dots 1         \dots 1         \dots 1           plenum         PDI-810-3         \$\leq 2.0 & \delta > 0^1 \text{ in. wc}         \dots 50         \dots 6         \dots 6           th Bleed off filter         PDI-811-1         \$\leq 2.0 & \delta > 0^1 \text{ in. wc}         \dots 6         \dots 6         \dots 6           plenum         PDI-811-2         \$\leq 2.0 & \delta > 0^1 \text{ in. wc}         \delta FF-822B) \delta PDI-811-3         \$\leq 2.0 & \delta > 0^1 \text{ in. wc}         \delta FF           plenum         PDI-811-3         \$\leq 2.0 & \delta > 0^1 \text{ in. wc}         \delta FF         \delta FF           Tomplete (initials)		filter plenum	PDI-839-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		14.	lh.	он.			
South Bleed off filter   PDI-810-1   \$\( 22.0 \& > 0^1 \) in. wc   .17   .77   .77     PDI-810-2   \$\( 22.0 \& > 0^1 \) in. wc   .76   .76   .76   .76     PDI-810-3   \$\( 22.0 \& > 0^1 \) in. wc   .60   .50	th Bleed off filter         1PDI-810-1         \$2.0 &> 0^1 in. wc         1T         .77           plenum         PDI-810-2         \$2.0 &> 0^1 in. wc         .76         .75           FF-822A) AP         PDI-810-3         \$2.0 &> 0^1 in. wc         .50         .50           th Bleed off filter         PDI-811-1         \$2.0 &> 0^1 in. wc         0fF         0fF           plenum         PDI-811-2         \$2.0 &> 0^1 in. wc         0fF         0fF           FF-822B) AP         PDI-811-3         \$2.0 &> 0^1 in. wc         0fF         0fF           Itor Review and Page Count Complete (initials)         .6602         07/2         07/2		( HVF-008) ΔF	PDI-839-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		Ţ	115.	41			
PDI-810-2   \$\leq 2.0 & > 0^1 in. wc   .75   .20   .	plenum         PDI-810-2         \$\leq 2.0 & \& > 0^1 \text{ in. wc}\$         \$\leq 4 \\ \text{-32}\$         \$\leq 4 \\ \text{-32}\$         \$\leq 5.0 & \& > 0^1 \text{ in. wc}\$         \$\leq 4 \\ \text{-50}\$         \$\leq 5.0 \leq 6 \text{ for in. wc}\$         \$\leq 5.0 \leq 8 > 0^1 \text{ in. wc}\$         \$\leq 6 \text{ ff}\$         \$\leq 6 \text{ ff}\$         \$\leq 4 \text{ ff}\$         \$\leq 6 \text{ ff}\$         \$\leq		South Bleed off filter	<sup>1</sup> PDI-810-1				c).	JJO			
PDI-810-3   \$\int \text{South Bleed off filter} \text{   PDI -811 - 1   \$\int \text{S.0 & \$\int \text{0.1 in. wc}   } \text{   \$\int \text{PDI -811 - 1   } \text{   \$\int \text{S.0 & \$\int \text{0.1 in. wc}   } \text{   \$\int \text{FF-822B} \text{ \rightarrow PDI -811 - 3   \$\int \text{S.0 & \$\int \text{0.1 in. wc}   } \text{   \$\int \text{GFF}   \$\in	th Bleed off filter plenum         'PDI-810-3         \$\leq 2.0 & \delta > 0^1\$ in. wc         \$\leq 6 \text{ FF}\$         \$\leq 6 \text{ FF}\$           th Bleed off filter plenum         'PDI-811-1         \$\leq 2.0 & \delta > 0^1\$ in. wc         \$\text{0 fF}\$         \$\text{0 fF}\$           FF-822B) \( \text{AP} \)         PDI-811-3         \$\leq 2.0 & \delta > 0^1\$ in. wc         \$\text{0 FF}\$         \$\text{0 FF}\$           1tor Review and Page Count Complete (initials)         Completion Time         \$\text{CBC}\$         \$\text{27}\$	4.1.3.4	plenum	PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc		, नर्स	36.	OFF			
South Bleed off filter	th Bleed off filter         'PDI-811-1         \$\left(2.0 & \delta > 0^1 \text{ in. wc}\right)\$         OFF         OFF           plenum         PDI-811-2         \$\left(2.0 & \delta > 0^1 \text{ in. wc}\right)\$         \text{GRE}         \text{OFF}         \text{OFF}           FF-822B) AP         PDI-811-3         \$\left(2.0 & \delta > 0^1 \text{ in. wc}\right)\$         \text{OFF}         \text{OFF}           . Completion Time         . Completion Time         \text{CBC2}         \text{OFF}         \text{OFF}           ator Review and Page Count Complete (initials)         \text{RS}         \text{RS}		( F. F-044A) OF	PDI-810-3			.50	05.	9 <del>5</del> 6			
Per plenum         PDI -811 -2         \$\leq 2.0 & \times 0^1 \text{ in. wc}         \$\times \text{GFF}\$	plenum         PDI -811 -2         ≤2.0 & > 0¹ in. wc         g FF         off           FF-822B) ΔP         PDI -811 -3         ≤2.0 & > 0¹ in. wc         g FF         off           . Completion Time         . Complete (initials)         c 8002         o 7 / 2		South Bleed off filter	<sup>1</sup> PDI -811 - 1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		01	٥ ټو	II.			
1 in. wc OFF OFF OFF OFF OFF	TH-822B) AP PDI-811-3 S2.0 & > 0¹ in. wc ORF Completion Time CBC2 OS/A  ator Review and Page Count Complete (initials)	4.1.3.4	plenum	PDI -811 -2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		9 F	ţ	15			
n Time	tor Review and Page Count Complete (initials)		( FF-822B) AP	PDI -811 -3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		OFF	ير م	50			
1 88 N	itor Review and Page Count Complete (initials)				. Completion Time		2080	2120	0960			
		00	Operator Review and F	Page Count Comp	plete (initials)		Nag.	K8 1	W 3			

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Reviewed by: 🕰 Completed by Sewer M. Date (1911) Time 6900

Date: 2513 Time: USI7

	14/13																	l	_A-UR	-13-2	5881	
1/6/13	Holls	Sun.	18	)	57.84	57%	134	24	Š	, s/	15	7	, 37	22	7	49.	///	08	.48	2770	400	The
	1-8-13	Sat.	Jm J		5787	STBV	STB7	24.	, 5.	15.	.31	14:	,37	77.	15.	64.	, 11	્યું.	64.	<i>\$5</i>	ste	o FF
	j-4-13	Fri.	9	ESULTS	STBV	\$075	8731	54.	15°	.50	.31	14.	w %	22.	.51	ь,	1,1	080	64,	7£''	0.FF	OFF.
	1-3-13	Thu.	4	SURVEILLANCE RESULTS (in. wc)	8784	5104	8025	.45	15.	15.	.3/	ih:	80	.72	15.	64.	11.0	03	64.	250	OFF	0.45
,	1-2-13	Wed.	£	SURV	2137	5787	57.137	54.	15.	.50	15	14.	.36	.22	15.	64	:	66.	66.	OFF	530	off
(Page 1 of 4)	1-1-13	Tue.	¥		7372	STBY	SIBY	.45	15.	.50	.30	94.	.36	.22	15.	₹.			9H.	0年	OFF	the state of the s
(Page		Mon.																				
	Date:	Weekday:	Initials:	Acceptance Criteria	$\leq 2.0 \& > 0^4 \text{ in. wc}$	$\leq 2.0 \& > 0 \text{ in}^{-1} \text{ wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$
				Gauge	¹PDI-840-1	PDI-840-2	PDI-840-3	'PDI-841-1	PDI-841-2	PDI-841-3	¹PDI-831-1	PDI-831-2	PDI-831-3	<sup>1</sup> PDI-832-1	PDI-832-2	PDI-832-3	<sup>1</sup> PDI-807-1	PD1-807-2	PDI-807-3	<sup>1</sup> -608-1	PDI-809-2	PDI-809-3
				Description	Vault re-circulation	filter plenum	17 (110-1411)	Vault re-circulation	filter plenum	(HVF-812) ΔF	200 sres re-circulation	filter plenum	(HVF-801) ΔF	200 area re circulation	filter plenum	(HVF-802) AF		North Bleed off filter plenum	(FF-820A) △P		North Bleed off filter plenum	(FF-020D) 23F
				SRs				4.1.1.7										4.1.3.4			4.1.3.4	

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

Surveillance Rounds

TA55-STP-004, R14

Surveillance Rounds

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				(Page	(Page 2 of 4)					
			Date:		1-1-13	1-2-13	C1-4-1 8 1-3-1 5/4 8-1	E1-H-12	1-5-13	1/6/13
			Weekday:	Моп.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		٣٠	A.	S. D.	B	\$	B
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	ESULTS		
	9	1-628-10d <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$		લેં.	90.	80,	,04	70.	9
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		,23	. 23	.29	.23	.23	,23
	}	PDI-829-3	$\leq$ 2.0 & > 0' in. wc		.21	,21	.75	.21	17)	181
	100 area re-circulation	<sup>1</sup> PDI-833-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.63	63.	. 63	qo M	Ŝ	. ∞.
	filter plenum	PDI-833-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		بازد	46	24.	47	CF.	147
4.1.1.7	157 (200-1-11)	PDI-833-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		.45	.45	<b>5</b> H.	<i>3</i> , 45	545	1/1
	100 area re-circulation	'PDI-835-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		71.	77	.12	,12	71.	12
	filter plenum	PDI-835-2	≤2.0 & > 0¹ in. wc		7	.42	. 42	.42	.42	.43
	TX7 (4.00- TATY)	PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		$\tilde{\tau}$	.40	14.	,41	14.	0)
		<sup>1</sup> PDI-815-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		STBY	57.13 y	X E/13 X	reles	5784	55734
4.1.3.4	100 area glovebox	PDI-815-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		STBY	57.13.4	2104	57.87	57.07	5734
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		STOR	STBY	27.07	STBY	5784	57.84
		PDI-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$		Stark	5737	37.84	\$27.5%	57.87	5484
		<sup>4</sup> PDI-816-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		35,	.35	. SE.	.35	35,	کی
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		74,	.42	.42	47.	74.	3
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		F1-1-13	<i>5h</i>	.45	54.	5h	,25
		PDI-816-5	<2.0 & > 01 in. wc		÷.	, 46	95.	318	34.	.45

Surveillance Rounds

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				(Page	(Page 3 of 4)					
			Date:		1-1-13	1 - 2 - 13	(-3-(3	61-4-13	1-5-13	1/6/13
			<b>Weekday:</b>	Mon.	Tue.	Wed.	Thu.	Fri	Sat.	Sun.
			Initials:		* 1	J.	du	Ju	gr-	A
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	ESÚLTS		)
	200 area glovebox	¹PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.12	.13	71	63.	-/3	,/3
	exhaust filter plenum (FF850) $\Delta P$	PDI-812-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		.30	.3/	30	,3/	.3/	3/
4.1.3.4		PDI-812-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		. 30	.32	18.	.32	.37	٦٤,
		PDI-812-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		58.	.30	.30	15"	.3/	3/
		PDI-812-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		,29	.24	97.	.29	,29	50.
	200 area glovebox	<sup>1</sup> PDI-813-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		5.7.87	5784	87.BY	5784	5434	57.789
	exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		5767	57.87	\$134	STBY	57.34	48/18
4.1.3.4		PDI-813-3	$\leq 2.0 \& > .0^{1} \text{ in. wc}$		5767	\$5.37	57.134	\$7.0%	\$784	57.84
		PDI-813-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		5767	\$704	STBY	5784	57/37	57/24
		PDI-813-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		STBY	57.13 4	STBY	STBY	57.84	5/1/2
	IFIT exhaust	<sup>1</sup> PDI-865-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		\$0.	.03	.03	.63	.03	E0.
4.1.3.4	(FF-865) $\Delta P$	PD1-865-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		.32	.32	.34	.32	.32	33
		PDI-865-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		٤٠.	.40	,41	16.	.40	3
	IFIT supply filter plenum	'PDI-863-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		30.	50.	50.	50.	, O.	/20,
4.1.3.4	(HVP-863) AP	PDI-863-2	$\leq$ 2.0 & $>0^{1}$ in. wc		Ch.	04.	.40	40	04,	.40

above

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Surveillance Rounds

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				(Page	(Page 4 of 4)					
			Date:		1-1-13	1-2-13	1-3-19	61-4-13	(-5-1	1/6/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		Yem	go	JM-	Jun	gn	(g)
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	SULTS		
,	North Basement supply filter plenum	1-728-IOq <sup>1</sup>	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.12	δ.	.12	á	۲/ ۲	/3
4.1.3.4	(HVP-840) ΔP	PDI-857-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		IS T	94.	ċ	ζ¥.	74.	4%
4.1.3.4	North corridor supply filter plenum	1-958-IQ41	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		901	50.	90.	.05	50.	ò
	(HVP-809) ΔP	PDI-856-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		. e.	.62	. 62	79.	17	62
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)		SAT	SAT	SAT	SAT	SAT	7.87
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the							
			rooms, whichever is less		SAT	SAT	SAT	SAT	5,47	540
			Completion time		C830	0830	0844	0)20	6814	9/80
	OC Operator Re	eview and Page C	OC Operator Review and Page Count Complete (initials)		Z Ka	JG 000	1000 B	SA MIS	88	R
Note: SR 4	Note: SR 4.1.3.4 applies querify mode 1 and mode 2.	: I and mode 2.		, ,		5	po Ort			)
Completed by:		Date 1/4/12 Time 26,	26/6 Reviewed by: D	\$	- 1	Date: 1-1-13 Time: 1345	Time: 1345			
Comments: 1-2-13	1.2.13 4,11.7	oil a	drip From	Flange	c/ Unlock	100 000	rocerte			
	1-3-13 Same 4	us above		,						
	1-4-13 Same us	s about								

Surveillance Rounds

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				(Page	(Page 1 of 4)					
			Date:	1-7-13	1-8-13	1-9-13	1-10-13	1-11-13	1-12-13	1.13-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Frí.	Sat.	Sun.
			Initials:	77	an	PT	Que	سر	7	7 4
SRs	Description	Gauge	Acceptance Criteria		,	SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5 T B V	51.04	110	.15	.1s	15	. 15
	filter plenum (HVP-811) AP	PDI-840-2	$\leq 2.0 \& > 0 \text{ in}^{-1} \text{ wc}$	STBY	51.BY	.52	.52	,52	.54	.5.2
		PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	57.84	5184	,51	.52	<i>5</i> 2°	,52	,52
4.1.1.7	Vault re-circulation	¹PDI-841-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	.4.5	54.	57.87	57B4	STBY	STBY	5781
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 52	.52	5784	<b>5</b> tB4	STBY	STBY	5 7.8 4
	J77 (710-JAH)	PDJ-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.51	15.	5 781	14.1100	STBY	STBY	STRY
	200 area re-circulation	1-1831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	:31	.31	100	,31	.30	.31	3
	filter plenum	PD1-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	141	14.	141	.41	,40	40	17.
	(H V K -00 L)	PDI-831-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, 37	35.	.38	.38	,36	.36.	13%
	200 area re-circulation	'PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	: 22	.22	,22	77	22.		12
	filter plenum	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,51	,5;	150	, <u>S</u> i	ß	.5	.51
	187 (700-1411)	PDI-832-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	74	.49	64.	64.	5h.	.49	49
		<sup>1</sup> -708-104	$\leq 2.0 \& > 0^1 \text{ in. wc}$	0 11	, 1 (	.11	11	, 1ሳ	ii	11
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	38.	03·	18:	03.	0 <del>9</del> '	· 80	60
	(FF-820A) ∆P	PDI-807-3	$\leq 2.0 \text{ & > 0}^{1} \text{ in. wc}$	49	65.	.50	05.	05'	,50	, 50
	New Action is a second second	1-608-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	OFF	OFF	£50	0FF	770	OFF
4.1.3.4	North Bleed off filter plenum	PDI-809-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	OFF	off	OFF	J±0	270	OFF.	OFF
	(K.F020D) 233	PDI-809-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	OFF	er F	OFF	0,55	9.A	17	OFF

Surveillance Rounds

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	Date:	Weekday:	Initials:	Description Gauge Acceptance Criteria	¹PDI-829-1 <2.0 & > 0¹ in. wc	filter plenum (FF-828) PDI-829-2 $\leq$ 2.0 & > 0 $^{1}$ in. wc	PDI-829-3 $\leq 2.0 \& > 0^{1} \text{ in. wc}$	100 area re-circulation (PDI-833-1 <2.0 & > 0 in. wc	Titer planum PDI-833-2 $\leq 2.0 \& > 0^{1} \text{ in. wc}$	PDI-833-3 $\leq 2.0 \& > 0^{1} \text{ in. wc}$	100 area re-circulation (PDI-835-1 <2.0 & > 0 in. wc	The planum PDI-835-2 $\leq 2.0 \& > 0^{1}$ in. we	(11 VI - $0.04$ ) $\Delta I$ PDI-835-3 $\leq 2.0 \& > 0^1 \text{ in. wc}$	<sup>1</sup> PDI-815-1 $\leq 2.0 \& > 0^{1} \text{ in. wc}$	100 area glovebox PDI-815-2 $\leq 2.0 \& > 0^{1} \text{ in. wc}$	n PDI-815-4 $\leq 2.0 \& > 0^1 \text{ in. wc}$	PDI-815-5 $\leq 2.0 \& > 0^{1} \text{ in. wc}$	<sup>1</sup> PDI-816-1 $\leq 2.0 \& > 0^4 \text{ in. wc}$	100 area glovebox PDI-816-2 <2.0 & > 0 <sup>1</sup> in. wc	cxhaust filter plenum PDI-816-4 $\leq 2.0 \& > 0^{1}$ in. wc (FF853) $\Delta P$	_
(Page 2 of 4)	-7-13 1-8	Mon.	70		0.	121	20 21	H8. 48.	84.	•	113	. 42	0h. 0h:		57.84 51		57.84 57	.35	. 42 43	hh. 54.	
4)	1-8-12-13 1-9	Tue. Wed.	you pr	S	90 90	1	.21	48 · 84	84.8	45 , 45		24.2		81.84 . 19	( h .	57.BY . 3.5	55. Y 872	5787	STBY	Y 57 13 Y	
,	9-13 1-10-13	I. Thu.	T JM	SURVEILLANCE RESULTS (in. wc)	90.	.12	17.	, <del>8.</del>	84.	34,	. 12	. 42	04.	·	04.	36,	9,6	sy stay	34 5134	79 STBY	
	1-11-13	Fri.	X	RESULTS	90.	12:	Ø.	83	۲۲۰,	. 45	21.	,42	<b>9</b>	. 19	о <del>т</del> .	.35	.39	STØY	STBY	STBY	
	[-12-1]	Sat.	4		01.	.35	15:	.63	147	345	5	45	24.	OF	30	,25	,29	STBY	KEU;	STBY	
	1-13-13	Sun.	79		10.	, 27	.22	500	48	54.	11	. 43	141	. 19	/ 77	, 38	65	STBY	57.64	5584	

Surveillance Rounds

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				(Page 3 of 4)	3 of 4)	•				
			Date:	1-7-13	1-8-13	-9-13	1.10.13	1-14-13	1-12-13	1-13-13
			<b>Weekday:</b>	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	70	gr	27	gr	~~~	7	74
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	200 area glovebox	1-218-1Gd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	711	Ċi.	5784	51.64	STBY	STBY	5784
	exhaust filter plenum (FF850) $\Delta P$	PDI-812-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.30	.31	5784	\$18Y	STBY	5T89	57.84
4.1.3.4		PDI-812-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.32	.33	5784	5184	STBY	STBY	STRV
		PDI-812-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	100	30	5884	5704	5187	STBX	STRU
		PDI-812-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 29	.29	57.84	5134	STBY	\$4.TS	STRY
	200 area glovebox	¹PDI-813-1	<2.0 & > 01 in. wc	STBY	51BY	6	48.	64	50	.64
	exhaust filter plenum (FF851) $\Delta$ P	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5 789	51.04	28	.28	72.	H.	00
4.1.3.4		PDI-813-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5789	5734	. 25	.26	.28	3%,	22,
		PDI-813-4	<2.0 & > 01 in. wc	S T B y	57.84	. 29	.29	62.	. 29	. 29
		PDI-813-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	5784	5734	. 21	.21	12.	X.	121
	IFIT exhaust	1-598-1Gd <sub>1</sub>	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	F 5	,04	,0	40.	.03	500	70.
4.1.3.4	(FF-865) $\Delta P$	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	33	.32	. 34	34	35	.33	133
		PDI-865-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 40	.39	14.	42	OH.	05.	14.
	IFIT supply filter plenum	1-898-IDd <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	30	50.	50.	50.	50	500	,05
4.1.3.4	(HVP-863) ΔP	PDI-863-2	<2.0 & >01 in. wc	. 472	14.	. 40	oķ.	بر 1	, j.	04.

Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Page	(Page 4 of 4)					
			Date:	1-7-13	1-8-13	1-9-13	1.10.13	1-11-13	1-12-13	1-13-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	مي کم	1	4	wb	MAL	٦١.	PT
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	SULTS		
	North Basement supply filter plenum	1-728-Idq <sup>1</sup>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,12	31.	, /5	.8		* 15	. 15
4.1.3.4	(HVP-840) ΔP	PDI-857-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	46	48	877 :	84.	LH.	17.	48
4.1.3.4	North corridor supply filter plenum	<sup>1</sup> PDI-856-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 0.6	90	701	,06	. 06	205	101
	4∆ (908-4VH)	PDI-856-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	· 62	.62	. 1.2	,62	59.	.63	163
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 fect of fans)	3 R. T	SAT	74.5	SAT	SAT	77	5#7
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMIMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	547	tes	\$ \$ \$	SA	SAT	S4-T	1
			Completion time	0800	5480	0843	8h80	a ବ୍ୟବ୍ୟ	0503	0810
	OC Operator Re	view and Page C	OC Operator Review and Page Count Complete (initials)	F 5	P ONE	SAD SAD	S Pool	3	8	3
Non TSR	Non TSR requirement			B			RI			

Non 15K requirement
Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Date: 14-15 Time: 12-20 Completed by: faul Trifle Date 1.13-13 Time 0810 Reviewed by:

100 coline 10021C 100 6iso 1-8-13 4.11.7 Comments:

no contamination oil leak cleaned 1-8-13

detected

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				(Page	(Page 1 of 4)					
			Date:	11+13	1-15-13	1-12-13	1-17-13	1-18-13	61/4/13	Sygcho
			Weekday:	Mon.	Tue.	Wed.	. Thu.	Fri.	Sat.	Sun.
			Initials:	544	7 F	St. M.	79	۲	List of	14
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	٦١٠	116	3	. 15	9	51.	Ü
	filter plenum	PDI-840-2	$\leq 2.0 \& > 0 \text{ in}^{1}$ . wc	.52	. 52	جي.	,52	53	53	53
		PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.51	.51	15.	. 5	.52	Ś	ĺΥ
4.1.1.7	Vault re-circulation	¹PDJ-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	SHP	5787	57.07	5784	STBY	E S	stbx
	filter plenum	PDI-841-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	A Port	5784	57/31	STRY	5164	SABY	5Hb(
	(HVF-912) AF	PDI-841-3	$\leq 2.0 \ \& > 0^{1} \ in. \ wc$	Jag S	5784	47167	5784	518/	秀	Ha (
	200 area re-circulation	1-188-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1$ in. wc	.31	.31	.31	,3)	18.	, S.	36
	filter plenum	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	- <del>+</del> -	141	۸۶.	, 4,	١٢.	OH.	学
	(HYK-901) ZAF	PDI-831-3	$\leq 2.0 \& > 0^4 \text{ in. wc}$	.35	.36	38	38	36	Š	ઝેંડ
	200 area re-circulation	¹PDI-832-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	. 22	.72	.22	, 22	.22	Ç,	G
	filter plenum	PDI-832-2	$\le 2.0 \& > 0^1 \text{ in. wc}$	.51	, 5/	.51	2	.51	15,	Į,
	(700-1411)	PDI-832-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. <del>4</del> 9	66.	٤, ٢	64.	.49	F.	18 N
		¹-708-IQd¹	$\leq 2.0 \& > 0^4 \text{ in. wc}$	. 12	.12	11.	. 12	51.	ā.	9.
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.82	.82	18.	. 8.2	.62	É.	B,
	(FF-820A) ΔP	PDI-807-3	$\leq$ 2.0 & > 0 <sup>4</sup> in. wc	25.	.51	.51	181	.50	Γ <u>΄</u>	Ox.
	Total Train	<sup>1</sup> PDI-809-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	340	OFF	440	OFF	力の	75	#
4.1.3.4	North Bleed off Iller plenum	PDI-809-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	330	OFF	740	OFF	340	步	ીર્મ
	(FF-020B) 231	PDI-809-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	45	OFF	9£4	OFF	界	¥	£5

Surveillance Rounds

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					(Page	(Page 2 of 4)					
Description   Gauge   Acceptance Criteria   April   April   April   True   Word   True   True   Word   True   True   Word   True   Word   True   True   Word   True   Tr				Date:	1 14 13	1-15-13		1-17-13	1-18-13	01/19/J3	8/0c/10.
Description   Gauge   Acceptance Criteria   SurveilLance Results   Cauge   Acceptance Criteria   SurveilLance Results   Cauge   Piol-829-1   \$\infty\$   \$\infty\$				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Description   Cauge   Acceptance Criteria   SURVELLIANCE RESULTS     North Basement echants   PDI-829-1   \$\int 0.0 \text{area recirculation}   PDI-829-2   \$\int 0.0 \text{area recirculation}   PDI-829-2   \$\int 0.0 \text{area recirculation}   PDI-829-3   \$\int 0.0 \text{area recirculation}   PDI-839-1   \$\int 0.0 \text{area recirculation}   PDI-839-1   \$\int 0.0 \text{area recirculation}   PDI-839-1   \$\int 0.0 \text{area recirculation}   PDI-839-2   \$\int 0.0 \text{area recirculation}   PDI-839-2   \$\int 0.0 \text{area recirculation}   PDI-839-3   \$\int 0.0 \text{area plovebox}   \text{area plovebox}   PDI-819-3   \$\int 0.0 \text{area glovebox}   PDI-819-4   \$\int 0.0 \text{area plovebox}   PDI-819-4   \$\int 0.0 \text{area glovebox}   PDI-819-4   \$\int 0.0				Initials:	Ā	70	na	PT	لمبر	13	K E
The plenum (FF-829)   \$20 & 0 <sup>1</sup> in wc	SRs	Description	Gauge	Acceptance Criteria			SURVE	TLLANCE RE (in. wc)	SULTS		
The parameter		North Doors	·	.0 & > 0 in.		100	۲۰ ا	11.	, 09	8	6.
100 area re-circulation   PDI-833-1   \$\inside 0.0 & > 0^1 in we   \text{.87}  \text{.22}  \text{.37}  \text{.38}  \text{.37}  \text{.38}  \te	4.1.3.4	filter plenum (FF-828)		% O.	72.	25	07	, 32	30	.30	38
Holestand		1	PDI-829-3	< 30.	. 22	,22		30	,29	£.	Ŕ
Harden   Pol-833-2   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-833-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-835-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-835-2   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-835-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-835-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-815-2   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-815-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-815-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-815-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-815-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-815-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-815-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-815-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-816-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-816-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-816-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   Pol-816-3   \$\ilde{-}0.0 & > 0^{\text{in we}} \cdots \rightarrow   \text{itler plenum} \   \text{in me} \cdots \rightarrow   \text{in me} \cdots		100 area re-circulation	¹PDI-833-I	$0.62 > 0^{1}$ in.	.84	18	ye.	20 17	· & ·	¥	418,
PDI-835-1   \$\( 2.0 & > 0^1 \text{ in. wc} \)   \$\( -11 \)   \$\( 11 \)   \$\( 17 \)   \$\(		filter plenum	PDI-833-2	<b>3</b>	L4.	4 48	.45	, 47	F,	4	- 11
PDI-835-1   \$\frac{1}{2}\triangle & \frac{1}{2}\triangle & \frac{1}\triangle & \frac{1}{2}\triangle & \frac{1}{2	4.1.1.7	15 (500-1411)	PDI-833-3	$0.8 > 0^{1}$ in.	44.	77,	55	. 45	.45	145	P
FDI-835-2   \$\leq 0.0 & \circ 0^1 \text{ in wc} \circ \frac{443}{1444}  \text{, 47}		100 area re-circulation	1-588-IQd <sub>1</sub>	$0.8 > 0^1 \text{ in.}$	.12	113	. 13	13	13	ζ',	Ç
PDI-815-1   \$\( \frac{1}{2}\triangle 0.0 \text{ k} > 0^{\text{ in. wc}} \)   \( \frac{1}{1}\triangle 0.0 \text{ k} > 0^{\text{ in. wc}} \)   \( \frac{1}{1}\triangle 0.0 \text{ k} = 0^{\text{ in. wc}} \)   \( \frac{1}{1}\triangle 0.0 \text{ in. wc} \)   \( \frac{1}{2}\triangle 0.0 \text{ in. wc} \)   \( \frac{1}{2}\		filter plenum	PDI-835-2	$\leq 2.0 \& > 0^4 \text{ in. wc}$	. <del>(</del> 3	. 42	45	" 43	<i>k</i> 1.	£,	£3,
PDI-815-1   \$\leq 2.0 & > 0^1 \text{ in. wc}   \cdots		(I) Vr -004) Δr	PDI-835-3	$0.8c > 0^{4}$ in.	.41 - 14.	(1)	۰ ۲۰	4 4/	Ŧ.	, to	0H.
100 area glovebox         PDI-815-2         \$\leq 0.00 \text{k} > 0^1 \text{ in. wc}\$         \$\left( \frac{4}{3} \) \text{ i. 37}         \$\leq 0.25\$			<sup>1</sup> PDI-815-1	<b>39</b> 0.	. (8	61.	٠. ح	8/,	÷	.18	8)
exhaust filter plenum         PDI-815-4         \$\leq 0.20 & \times 0^1 \times wc         \$\leq 0.27         \$\leq 2.75         \$\leq 2.55         \$\leq 2.56\$         \$\leq 3.27         \$\leq 3.25\$	4.1.3.4	100 area glovebox	PDI-815-2		.41	14.	. 36	.3/	or.	٥h.	94.
PDI-815-5   \$\leq 2.0 & \times \rightarrow \rightarr		exhaust filter plenum (FF852) AP	PDI-815-4	.0 & > 0 <sup>1</sup> in.	.36	. 37	.35	, 75	.32	33	Œ.
PDI-816-1   \$2.0 & > 0 <sup>1</sup> in. wc   SHSy   \$7.8y   \$7.8y   \$7.8y   \$57.8y			PDI-815-5	.0 &	. 39		. 39	. 29	38	34	38
100 area glovebox         PDI-816-2         \$\leqsign(2.0 \& > 0^1 \text{ in. wc}\right) \equiv \frac{\text{HSy}}{\text{5TBy}} \equiv \frac{\text{5TBy}}{\text{7TBy}} \equiv \frac{\text{5TBy}}{\text{5TBy}} \equiv			'PDI-816-1		St. Par	VATS	2102	5781	57.67	FS.	Ť
PDI-816-5 \$2.0 & > 0 1 in. wc	4.1.3.4	100 area glovebox	PDI-816-2	.0 & > 0 1 in.	Sthen	5781	KIL	5784	STBY	5447	) wto
\$2.0 & > 0 1 in. wc Stby 57.87 57.84 51.84 Stby		exhaust filter plenum (FF853) AP	PDI-816-4		545	57.84	1014	STEY	STEI	Stby	杀
			5-918-IQd.	0	4.5°	STRY	2707	57.84	5167	Stay	东

Surveillance Rounds

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				(Page	(Page 3 of 4)					
			Date:	- म्न	1-15-13	1-16-13	1-17-13	1-18-13	5/61/10	51/06/10
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri,	Sat.	Sun.
			Initials:	A	79	34	70	Y	MA	A A
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		•
	200 area glovebox	1-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	aten	5784	1916	STRY	5187	1075	Ĵ
	exhaust filter plenum (FF850) $\Delta P$	PDI-812-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	54by	57.84	4018	8781	AFIS	No. To	京
4.1.3.4		PDI-812-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Stby	57 BV	5707	5+RV	7.515	\rightarrow{\frac{2}{3}}	瓷
		PDI-812-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	SILDY	5784	1870	5781	). 91.5	/q+>	19°4
		PDI-812-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	Steby	4875	poch	5+13 1	5187	(F)	xgx,
	200 area glovebox	1-813-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.43	158	65.	,59	. 63	۲۶)	رهم
	exhaust filter plenum (FF851) AP	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.27	29	57.	125	82'	50	35.
4.1.3.4		PDI-813-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 28	128	24.	.25	<del>6</del> 2 ·	761	St.
		PDJ-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.29	. 29	25.	25	\$2.	<b>F</b> 0	F,
		PDI-813-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	12.	. 21	.20	, 20	12.	)e:	r.
	IFIT exhaust	1-865-IQ4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	eo.	<i>50.</i>	٠٥ کې	40.	. S.	5	ø
4.1.3.4	(FF-865) ∆P	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 35	, 35	. 35	. 33	.33	בנ	33
		PDI-865-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.4.	(4)	] }	14.	٥٢.	39	95,
	IFIT supply filter plenum	1-698-104,	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	50.	* 05	۰ ه کړ	.05	30°.	Ą	5
4.1.3.4	(HVP-863) ΔP	PDI-863-2	<2.0 & >01 in. wc	\$.	. 40	oy.	.40	, HC	04.	(HC)

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

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				(I age	(1 age + 01 +)					
			Date:	1 मि	10/501.	1-16-13	1-17-13	1-18-13	5/19/13	Slvevo
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	R	,	2	Tà	<b>\$</b> }	₹ \$	A 3
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS	SULTS		
,	North Basement supply	1-28-IQd,	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	51.	111.	21.	.12.	7	4	d
4.1.3.4	(HVP-840) ΔP	PDI-857-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	L+.	11/1/2	ふか,	147	14.	745	.45
4.1.3.4	North corridor supply filter plenum	1-958-IQd <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	40.	,0,	<b>)</b> 0.	. 07	9O.	50)	185
	Δ (HVP-809)	PDI-856-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	99.	59.	65	. 65	<i>چې</i> .	rg.	¥9.
NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 1b/ft² combustibles in designated exclusion area (within 15 feet of fans)	TAR	5 M7	2mg	SAT	5a7	tus	Sat
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	ta s	SAT	tex	547	SAT	ts S	な
			Completion time	8060	0 859	0828	083.5	0139	OHA	જે જ
	OC Operator Re	view and Page C	OC Operator Review and Page Count Complete (initials)	DAY 20 mpd ac	DOD as	P 88	9	8	A A	2
1					٥		•			2

<sup>1</sup> Non TSR requirement

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Thiched h Tash Date Oxball Time Oxo

Reviewed by: Date: -2-B Time: 0720

Surveillance Rounds

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				(Page	(Fage 1 of 4)					
			Date:	121/13	1.22-13	1-23-13	1.24.13	1.25-13	1-26-13	(-27-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	1	7 9	₩.	4	14	Grand .	3
SRs	Description	Gauge	Acceptance Criteria			SURVI	SURVEILLANCE RESULTS (in. wc)	SULTS		
	Vault re-circulation	¹PDI-840-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.51	91:	91.	.16	31.	91	, 16
	filter plenum	PDI-840-2	<2.0 & > 0 in¹. wc	,52	. 52	,52	.5.	.52	.52	.52
		PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,/6	151	18	15.	35	15.	/5
4.1.1.7	Vault re-circulation	'PDJ-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY items	5784	ST 13 4	SrBY	STBY	STBY	5104
	filter plenum	PDI-841-2	<2.0 & > 0 in. wc	STBY	8781	57.134	51 13 4	STBY	27.87	2707
	157 (710-1111)	PDI-841-3	<2.0 & > 01 in. wc	STRY		57.84	57.8 y	STEN	57.87	STBY
	200 area re-circulation	'PDI-831-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	18,	,31	.31	.31	.31	*3/	,3/
	filter plenum	PDI-831-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	3	1 / 1	.41	40	14.	14.	.41
	YT (100-111)	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 3 tJ	.35	.36	35	.37	ζε.	رق.
	200 area re-circulation	¹PDI-832-1	$\leq 2.0 \& > 0^4 \text{ in. wc}$	72'	2.3	23	.23	.23	23	23
	filter plenum	PDI-832-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	,51	, y	.51	15	35.	73	15.
	(700-111)	PDI-832-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	148	57:	49	64	5- 14.	64.	64.
		'PDI-807-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	=	11.	, 11	11	. 1.4	ii	15.
4.1.3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 80	18.	, is	08.	. 80	60	080
	(FE-820A) $\Delta P$	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 49	66.	.50	05.	'n,	.50	.50
	North Rlead off filter	'PD1-809-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	アル	OFF	0.55	oft	OFF	<i>\$</i> }0	off.
4.1.3.4	plenum (FF-820B) AP	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	OFF	D F.F.	J£T.	THO	330	330
		PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	OFF	OFF	055	Japo Japo	OFF	250	Ho

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 2 of 4)

				(rage	(rage 2 01 4)					
			Date:	2//12/1	1.22-13	1-23-13	1-24-17	1-25-13	1-26-13	1.27.3
			Weekday:	Mon.	Tuè.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	6	79	g~	gu	m	d m	gar
SRs	Description	Gauge	Acceptance Criteria	5		SURVI	SURVEILLANCE RESULTS (in. wc)	SALTS		
		1-628-10d,	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.03	60.	,0,	90"	7.0.	90°	90°
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	. 29	, 30	2.1	12.1		22.	22
	<b>.</b>	PDI-829-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, 22	,29	70	.20	12:	7	.21
	100 area re-circulation	'PDI-833-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	85	90	.85	85	.65	.85	. 85
	filter plenum	PDI-833-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	. 45	45	, ų,	94.	, H7	95.	,46
4.1.1.7	15 (500-1411)	PDI-833-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 43	, 45	sh.	Sh.	2 H.	5h.	<i>Sh.</i>
	100 area re-circulation	'PDI-835-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	21	, 12	.13	7)	.13	.13	.13
	filter plenum	PDI-835-2	$\leq 2_{0} 0 \& > 0^{1} \text{ in. wc}$	, yy	74.	44.	44	.43	543	43
	(II V K -004) ΔK	F-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.40	14:	ih.	ah.	, 40	04.	.40
		1-518-10d <sub>1</sub>	$\leq 2.0 \& > 0^1 \text{ in. wc}$	ا ـــ	1.	.16	61.	8.	61.	. 19
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,38	38	.40	ah.	04.	٠٢٥.	94.
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	53	,33	.34	434	٠ ئ	34	.34
		PDI-815-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	:37	38	38	.38	,39	.39	.38
		4-918-JQq1	$\leq 2.0 \& > 0^4 \text{ in. wc}$	STBY	SYRY	STBY	578 7	STBY	\$784	STBY
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5731	57.87	37.134	STBY	8737	57131
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	57.8%	5784	8784	57.87	\$7.84	57.137
		PDI-816-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	STBY	518 y	27137	37.0 1	5187	\$5137	57/37

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

				(Page	(Page 3 of 4)					
			Date:	1/21/13	1-22-13	1-23-13	1-24-10	1-25-43	1-18-13	627-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	6	79	gn	4.4	X	an	gar
SRs	Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SSULTS		
	200 area glovebox	¹PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5787	5484	STBY	5 713 4	5787	5734	Stay
,	exhaust filter plenum (FF850) AP	PDI-812-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	5787	5184	5187	STBY	1878	7873
4.1.3.4		PDI-812-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	STBY	1818	¥918	1915	SIBY	/ 8+S	5713 1/
		PDI-812-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	1818	7973	STB4	STBY	27.04	Srby
		PDI-812-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	STBY	5 184	STBY	1815	STBY	5184	87.87
	200 area glovebox	<sup>1</sup> PDI-813-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	٠, ١٥٩	164	49.	h9°	, 60	ну.	49.
	exhaust filter plenum (FF851) AP	PDI-813-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, 25	, 25	.26	,26	.26	.26	.26
4.1.3.4		PDI-813-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	,25	, 25	.23	.25	कर	57'	\$7.
		PDI-813-4	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	.28	. 29	.29	67'	,29	.29	67°
		PDI-813-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	17	. 20	17.	.20	02.	20	07.
	JFIT exhaust	1-598-IGd <sub>1</sub>	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	20:	63	.03	<i>60</i> °	C C	50.	,63
4.1.3.4	(FF-865) ΔP	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 37	.32	.32	.32	.32	.32	.32
		PDI-865-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	0,40	, 40	.39	.40	. Ho	.40	40
	IFIT supply filter plenum	'PDI-863-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	50,	, 0.5	50.	50.	30.	<b>3</b> 0.	\$0.
4.1.3.4	(HVP-863) ΔP	PDI-863-2	$\leq 2.0 \& >0^{1} \text{ in. wc}$	141	( )	14.	lh.	ابًا	14.	Ť,

Surveillance Rounds

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## ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

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				(rage	(rage 4 of 4)					
			Date:	1/21/13	1-22-13	1-23-13	1.24-12	1-25-13	1-26-13	1-27-13
			Weekday:	/ Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	M	79	mhm	W	4	gm	An
SRs	Description	Gauge	Acceptance Criteria	>		SURV	SURVEILLANCE RESULTS	SULTS		
,	North Basement supply filter plennin	1-728-Idq <sup>1</sup>	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	1-1:	.~	41.	Hi.	51.		.13
4.1.3.4	(HVP-840) ΔP	PDI-857-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	, 45	9h:	CH.	94.	97.	24.	74.
4.1.3.4	North corridor supply filter plenum	1-958-IQd <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	, 67	7	· 6.	۲0.	10.	69.	79.
	(HVP-809) ΔP	PDI-856-2	$\leq 2.0 \& > 0^3 \text{ in. wc}$	.56	, 65	59	59	1.9.	59.	59.
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)	547	SAT	SAT	SAT	SAT	The State of the S	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	547	SAT	SAT	TAS	5AT	SAT	Sat
			Completion time	0820	4080	1355	6280	0607	ahco	0836
	OC Operator Re	view and Page C	OC Operator Review and Page Count Complete (initials)	36	00	900 an	800	coll	30	CA
Non TSR	Non TSR requirement								111	1

Non 15k requirement
Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Date 1/27/2 Time 6 736 Reviewed by: Completed by:

Comments:

On-duty Supervisor

Surveillance Rounds

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		Date: Weekday:	1-28-13 Mon. Tue	Tue.	Wed.	Thu.	Pri.	Sat.	Sun.
		Initials:	*/						
Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
Vault re-circulation	1-048-19	$\leq 2.0 \& > 0^1 \text{ in. wc}$	91.						
filter plenum	PDI-840-2	$\leq 2.0 \& > 0 \text{ im}^{1} \text{ wc}$	.52						
JV (118-JAH)	PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5.						
Vault re-circulation	¹PDJ-841-1	\$2.0 & > 01 in. wc	57.67						
filter plenum	PDI-841-2	<2.0 & > 01 in. wc	STBY						
(HVF-812) ΔF	PDJ-841-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	1915						
200 area re circulation	<sup>1</sup> PDl-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	.31						
filter plenum	PDI-831-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	07.						
(HVF-801) ΔF	PDI-831-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	36						
200 00000000000000000000000000000000000	<sup>1</sup> PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	21.						
filter plenum	PDI-832-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	75;						
(HVF-802) AF	PDI-832-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	514,						
	1-708-IQI	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	17.						
North Bleed off filter plenum	PDI-807-2	<2.0 & > 01 in. wc	0 <del>8</del> .						
(FF-820A) $\Delta$ P	PDI-807-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	51						
	1-608-IQd1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	OR						
North Biecd off filter plenum	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	340						
(FF-820B) AT	PDI-809-3	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	300						

Surveillance Rounds

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(Page 2 of 4)				SRs Descr	3	North Basen 4.1.3.4 filter plenu		100 0000	filter p	4.1.1.7	100	filter p	(nvr-		4.1.3.4 100 area glovebox	exhaust fib (FF85			4.1.3.4 100 area glovebox	cxhaust filter plenum (FF853) AP	
				Description		North Basement exhaust filter plenum (FF-828)	1	100 area re ciromotion	filter plenum	15 (Cas	100 area vo circulation	filter plenum	304) Ar		glovebox	exhaust filter plenum (FF852) AP		,	glovebox	ter plenum 3) AP	
				Gauge	¹PD1-829-1	PDI-829-2	PDI-829-3	1-833-1	PDI-833-2	PDI-833-3	1-258-104'	PDI-835-2	PDI-835-3	1-218-10q1	PDI-815-2	PDI-815-4	PDI-815-5	<sup>1</sup> PD1-816-1	PDI-816-2	PDI-816-4	PDI-816-5
	Date:	Weekday:	Tnitiske	Acceptance Criteria	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1}$ in. wc	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^4 \text{ in. wc}$	$\leq 2.0 \& > 0^4 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	≤2.0 & > 0¹ in. wc	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	<2.0 & > 01 in. wc
	1-28-13	Mon.	<b>§</b>		9	22.	12.	. 65	91.	.45	11.	. H3	04.	.19	.39	.32	, 38	5167	STSY	STBY	27.87
2 of 4)		Tue.																			
		Wed.		SURVI																	
		Thu.		SURVEILLANCE RESULTS (in. wc)																	
		Fri		SULTS																	
		Sat.																	"		
		Sun.																			

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

		Date:	(1 age 3 01 +)	J 01 +)					
			1-28-13	6	-	i	ì		
		Weekday:	Mon.	Tue.	Wed.	Thu.	Frí.	Sat.	Sun.
		Initials:	Ş						
Description	Gauge	Acceptance Criteria			SURVE	SURVEILLANCE RESULTS (in. wc)	SULTS		
200 area glovebox	<sup>1</sup> PDI-812-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5767						
exhaust filter plenum (FF850) ΔP	PDI-812-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5187						
	PDI-812-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$	5167						
	PDI-812-4	<2.0 & > 0 in. wc	SIBY						-
	PDI-812-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$	X167						
200 area glovebox	¹PDI-813-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$	, 63		_				
exhaust filter plenum (FF851) $\Delta P$	PDI-813-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	12:						
	PDI-813-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	52						
	PDI-813-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$	62.						
	PDI-813-5	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	02.						
IFIT exhaust	1-898-Idd,	<2.0 & > 01 in. wc	.03						
(FF-865) △P	PDI-865-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$	3 7 W 13						
	PDI-865-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	, HO						
IFIT supply filter plenum	'PDI-863-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	30.						
(HVP-863) ΔP	PDI-863-2	$\leq 2.0 \& >0^{1} \text{ in. wc}$	. 40						

Surveillance Rounds

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# ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

(Page 4 of 4)

Sun. Sat. Frí. SURVEILLANCE RESULTS Thu Wed Tue. 1-28-13 3 Z EC Mon SAT 2156 S SAI = છ رن ور designated exclusion area Date: 0 lb/ft2 combustibles in rooms, whichever is less Completion time Initials: between gloveboxes, or OC Operator Review and Page Count Complete (initials) Weekday: (within 15 feet of fans) within 3.5 feet perpendicular from the face of the PMMA, the  $\leq 2.0 \& > 0^1 \text{ in. wc}$ ≤2.0 & > 01 in. wc  $\leq$ 2.0 & > 0 in. wc  $\leq 2.0 \& > 0^1 \text{ in. wc}$ up to the walls of the 0 lb/ft2 combustibles Acceptance Criteria width of the aisles PDI-857-2 PDI-856-2 PDI-857-1 PDJ-856-1 Gauge Combustible exclusion area FE820B, FE820C, FE822A, around basement exhaust North Basement supply fans FE828, FE829 and bleed-off fans FE820A, Rooms 201, 204, 206, & North corridor supply FE822B, FE822C (HVP-840) ∆P (HVP-809) △P filter plenum filter plenum Description 4.1.3.4 4.3.2.2 4.1.3.4 SRs Z

Non TSR requirement

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by Wells Wells Date 1-28-13 Time OTS

Reviewed by: Mark 1 Lang Date 3-5-13 Time: 080 S

Surveillance Rounds

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Description   Gauge   Acceptance Criteria					(Page	(Page 1 of 4)					
Description   Cauge   Acceptance Criteria   Hom   The   Weed   Thu   Fr. Shit				Date:	17 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-29-13	1-30-13	1-31-13			
Vault re-circulation (HVP-812) ΔPD-840-1         Gauge (HVP-81) m. wc         Acceptance Criteria         16				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun
Description         Gauge         Acceptance Criteria           Vault re-circulation         (HVP-811) ΔP           Filter plenum         (HVP-813) ΔP           PDI-840-2         ≤2.0 & > 0 i ii. wc         ∴ 5.2           Vault re-circulation         (HVP-812) ΔP         PDI-841-1         ≤2.0 & > 0 i ii. wc         ∴ 5.2           200 area re-circulation         PDI-831-1         ≤2.0 & > 0 i ii. wc         ∴ 40         → 40           200 area re-circulation         PDI-831-3         ≤2.0 & > 0 i ii. wc         ∴ 40         → 40           200 area re-circulation         PDI-832-3         ≤2.0 & > 0 i ii. wc         ∴ 40         → 40           PDI-831-3         ≤2.0 & > 0 i ii. wc         ∴ 40         → 40           PDI-832-3         ≤2.0 & > 0 i ii. wc         ∴ 40         → 40           PDI-832-3         ≤2.0 & > 0 i ii. wc         ∴ 40         → 40           PDI-832-3         ≤2.0 & > 0 i ii. wc         ∴ 40         → 40           Poll-832-3         ≤2.0 & > 0 i iii. wc         ∴ 40         → 40 </th <th></th> <th></th> <th></th> <th>Initials:</th> <th>* * * * * * * * * * * * * * * * * * *</th> <th>J. W.</th> <th>2</th> <th>4</th> <th></th> <th></th> <th></th>				Initials:	* * * * * * * * * * * * * * * * * * *	J. W.	2	4			
Vault re-circulation filter plenum         PDI-840-1         ⊆ 2.0 & > 0 in, wc         .16         .16         .16           filter plenum         PDI-840-3         ≤ 2.0 & > 0 in, wc         .51         ≤ 2.0          .52         ≤ 2.0          .52         ≤ 2.0          .52         ≤ 2.0          .52         ≤ 2.0          .52         ≤ 2.0          .52         ≤ 2.0          .52         ≤ 2.0          .52         ≤ 2.0          .52         ≤ 2.0 </th <th>SRs</th> <th>Description</th> <th>Gauge</th> <th>Acceptance Criteria</th> <th></th> <th></th> <th>SURV</th> <th>EILLANCE RE (in. wc)</th> <th>SULTS</th> <th></th> <th></th>	SRs	Description	Gauge	Acceptance Criteria			SURV	EILLANCE RE (in. wc)	SULTS		
(HVP-811) ΔP         PDI-840-3         ≤2.0 & > 0 i in wc         .52         ≤1           Vault re-circulation (HVP-812) ΔP         PDI-841-1         ≤2.0 & > 0 i in wc         ≤16x         37Bx           200 area re-circulation (HVP-801) ΔP         PDI-831-2         ≤2.0 & > 0 i in wc         ≤16x         37Bx           200 area re-circulation (HVP-801) ΔP         PDI-831-1         ≤2.0 & > 0 i in wc         .31         .31           200 area re-circulation (HVP-801) ΔP         PDI-831-3         ≤2.0 & > 0 i in wc         .32         .32           200 area re-circulation (HVP-801) ΔP         PDI-831-3         ≤2.0 & > 0 i in wc         .34         .34           200 area re-circulation (HVP-802) ΔP         PDI-832-3         ≤2.0 & > 0 i in wc         .34         .34           200 area re-circulation (HVP-802) ΔP         PDI-832-3         ≤2.0 & > 0 i in wc         .34         .34           300 area re-circulation (HVP-802) ΔP         PDI-832-3         ≤2.0 & > 0 i in wc         .36         .36           400 area re-circulation (HVP-802) ΔP         PDI-832-3         ≤2.0 & > 0 i in wc         .36         .36           Applenum (FF-820A) ΔP         PDI-807-2         ≤2.0 & > 0 i in wc         .36         .36           Applenum (FF-820B) ΔP         PDI-809-3         ≤2.0 & > 0 i in wc		Vault re-circulation	¹PDĬ-840-1	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		46.	91.	91.			
Vault re-circulation filter plenum         PDI-840-3         ≤2.0 & > 0¹ in wc         ≤5.6         ≤1.6         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0         ≤2.0		filter plenum	PDI-840-2	<2.0 & > 0 in <sup>1</sup> , wc		.52	15.	7.5			
Vault re-circulation filter plenum         'PDI-841-1         ≤2.0 & > 0¹ in. wc         ≤7164         \$77274           (HVP-812) AP         PDI-841-3         ≤2.0 & > 0¹ in. wc         ≤7164         \$77274           200 area re-circulation filter plenum         'PDI-831-1         ≤2.0 & > 0¹ in. wc         .31         .21           200 area re-circulation filter plenum         PDI-831-2         ≤2.0 & > 0¹ in. wc         .36         .40           200 area re-circulation filter plenum         PDI-831-3         ≤2.0 & > 0¹ in. wc         .36         .35           200 area re-circulation filter plenum         PDI-832-2         ≤2.0 & > 0¹ in. wc         .49         .49           North Bleed off filter plenum         'PDI-807-2         ≤2.0 & > 0¹ in. wc         .49         .49           North Bleed off filter plenum         'PDI-807-2         ≤2.0 & > 0¹ in. wc         .50         .80           North Bleed off filter plenum         'PDI-807-3         ≤2.0 & > 0¹ in. wc         .50         .60           North Bleed off filter plenum         'PDI-807-3         ≤2.0 & > 0¹ in. wc         .50         .60           PDI-807-3         ≤2.0 & > 0¹ in. wc         .50         .50         .60           PDI-809-3         ≤2.0 & > 0¹ in. wc         .50         .60         .60 <tr< td=""><td></td><td>17 (110-141)</td><td>PDI-840-3</td><td><math>\leq 2.0 \&amp; &gt; 0^1 \text{ in. wc}</math></td><td></td><td>25.</td><td>15:</td><td>19:</td><td></td><td></td><td></td></tr<>		17 (110-141)	PDI-840-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		25.	15:	19:			
filter plenum (HVP-812) ΔP   PDI-841-2   ≤2.0 & > 0¹ in. wc   S164   S7294     200 area re-circulation (HVP-801) ΔP   PDI-831-1   ≤2.0 & > 0¹ in. wc   S164   S7294     200 area re-circulation (HVP-801) ΔP   PDI-831-2   ≤2.0 & > 0¹ in. wc   .40   .40     200 area re-circulation (HVP-801) ΔP   PDI-832-1   ≤2.0 & > 0¹ in. wc   .31   .31     200 area re-circulation (HVP-801) ΔP   PDI-832-1   ≤2.0 & > 0¹ in. wc   .32   .32     300 area re-circulation (HVP-802) ΔP   PDI-832-3   ≤2.0 & > 0¹ in. wc   .49   .49     440	.1.7	Vault re-circulation	¹PDI-841-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		STBY	STBY	STBY			
200 area re-circulation (HVP-801) ΔP PDI-831-1 ≤ 2.0 & > 0¹ in. wc (HVP-801) ΔP PDI-831-2 ≤ 2.0 & > 0¹ in. wc (HVP-801) ΔP PDI-831-3 ≤ 2.0 & > 0¹ in. wc (HVP-801) ΔP PDI-832-1 ≤ 2.0 & > 0¹ in. wc (HVP-802) ΔP PDI-832-3 ≤ 2.0 & > 0¹ in. wc (HVP-802) ΔP PDI-832-3 ≤ 2.0 & > 0¹ in. wc (FF-820A) ΔP PDI-809-1 ≤ 2.0 & > 0¹ in. wc (FF-820B) ΔP PDI-809-2 ≤ 2.0 & > 0¹ in. wc (FF-820B) ΔP PDI-809-3 ≤ 2.0 & > 0¹ in. wc (FF-820B) ΔP PDI-809-3 ≤ 2.0 & > 0¹ in. wc (FF-820B) ΔP PDI-809-3 ≤ 2.0 & > 0¹ in. wc (FF-820B) ΔP PDI-809-3 ≤ 2.0 & > 0¹ in. wc (FF-820B) ΔP PDI-809-3 ≤ 2.0 & > 0¹ in. wc (FF-820B) ΔP PDI-809-3 ≤ 2.0 & > 0¹ in. wc (FF-820B) ΔP PDI-809-3 ≤ 2.0 & > 0¹ in. wc (FF-820B) ΔP PDI-809-3 ≤ 2.0 & > 0¹ in. wc (FF-820B) ΔP		filter plenum	PDI-841-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		STBY	1875	8707			
200 area re-circulation filter plenum         ¹PDI-831-1         ≤2.0 & > 0¹ in. wc         .31         .31           filter plenum (HVP-801) ΔP         PDI-831-2         ≤2.0 & > 0¹ in. wc         .40         .40         .40           200 area re-circulation filter plenum (HVP-802) ΔP         ¹PDI-832-1         ≤2.0 & > 0¹ in. wc         .71         .22           North Bleed off filter plenum (FF-820A) ΔP         PDI-832-3         ≤2.0 & > 0¹ in. wc         .49         .49           North Bleed off filter plenum (FF-820A) ΔP         PDI-807-1         ≤2.0 & > 0¹ in. wc         .49         .49           North Bleed off filter plenum (FF-820B) ΔP         PDI-807-2         ≤2.0 & > 0¹ in. wc         .60         .80           North Bleed off filter plenum (FF-820B) ΔP         PDI-809-1         ≤2.0 & > 0¹ in. wc         .60         .60           North Bleed off filter plenum (FF-820B) ΔP         PDI-809-2         ≤2.0 & > 0¹ in. wc         .60         .60           North Bleed off filter plenum         PDI-809-3         ≤2.0 & > 0¹ in. wc         .60         .60		(HVF-912) ΔΕ	PDI-841-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		57.61	STBY	57.04			
filter plcnum		200 area re-circulation	<sup>1</sup> PDI-831-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.31	.31	.31			
PDI-831-3   S2.0 & > 0 <sup>1</sup> in. wc   .36   .35     PDI-832-1   S2.0 & > 0 <sup>1</sup> in. wc   .21   .22     PDI-832-1   S2.0 & > 0 <sup>1</sup> in. wc   .31   .21     PDI-832-2   S2.0 & > 0 <sup>1</sup> in. wc   .49   .49     PDI-832-3   S2.0 & > 0 <sup>1</sup> in. wc   .49   .49   .49     PDI-807-1   S2.0 & > 0 <sup>1</sup> in. wc   .11   .11   .11     North Bleed off filter   PDI-807-2   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-807-2   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-807-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-809-1   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50     PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50     PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50     PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   .50   .50   .50   .50     PDI-809-3   S2.0 & S0   in. wc   .50   .50   .50     PDI-809-3   S2.0 & S0   in. wc   .50		filter plenum	PDI-831-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		٠٠.	40	04.			
200 area re-circulation filter plenum         ¹PDI-832-1         ≤2.0 &> 0¹ in. wc         , 21         .22           (HVP-802) ΔP PDI-832-3         ≤2.0 &> 0¹ in. wc         , 49         .49         .49           North Bleed off filter plenum (FF-820A) ΔP PDI-807-2         ≤2.0 &> 0¹ in. wc         .11         .ii           North Bleed off filter plenum (FF-820B) ΔP         PDI-807-2         ≤2.0 &> 0¹ in. wc         , 50         .50           North Bleed off filter plenum (FF-820B) ΔP         PDI-809-1         ≤2.0 &> 0¹ in. wc         , 50         .50           North Bleed off filter plenum (FF-820B) ΔP         PDI-809-2         ≤2.0 &> 0¹ in. wc         0 FF         0 FF           PDI-809-3         ≤2.0 &> 0¹ in. wc         0 FF         0 FF         0 FF		(100-14T)	PDI-831-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		36,	.35	35			
(HVP-802) △P PDI-832-2 PDI-832-3 PDI-832-3 PDI-832-3 PDI-807-1 PDI-807-1 S2.0 &> 0 <sup>1</sup> in. wc    PDI-807-1   PDI-807-2   S2.0 &> 0 <sup>1</sup> in. wc   PDI-807-2   S2.0 &> 0 <sup>1</sup> in. wc   PDI-807-2   S2.0 &> 0 <sup>1</sup> in. wc   PDI-807-3   S2.0 &> 0 <sup>1</sup> in. wc   PDI-809-1   S2.0 &> 0 <sup>1</sup> in. wc   S60   S60   S60   S60   PDI-809-1   S2.0 &> 0 <sup>1</sup> in. wc   S60		200 area re-circulation	¹PDI-832-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.22	.22	.27			
North Bleed off filter   PDI-807-1   \$\leq 2.0 & > 0^1\$ in. wc   .49		filter plenum	PDI-832-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		15,	15.	13.			
North Bleed off filter   PDI-807-1   \$\leq 2.0 & \alpha > 0^1\$ in. wc   .11   .1    .1    .1      North Bleed off filter   PDI-807-2   \$\leq 2.0 & \alpha > 0^1\$ in. wc   .90   .80   .80     FF-820A \rangle \text{AP}		(700-144)	PDI-832-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		,49		94.			
North Bleed off filter PDI-807-2 PDI-807-3 PDI-807-3 PDI-809-1 PDI-809-1 PDI-809-1 PDI-809-2 PDI-809-3 PD			¹-708-1Ωq¹	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.11		(Fratis			
(FF-820A) ∆P PDI-807-3 ≤2.0 & > 0 <sup>1</sup> in. wc , 50 , 50 , 50 North Bleed off filter PDI-809-1 ≤2.0 & > 0 <sup>1</sup> in. wc	3.4	North Bleed off filter plenum	PDI-807-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		08.		170 E			
North Bleed off filter   PDI-809-1   ≤2.0 & > 0 <sup>1</sup> in. wc   OFF   OFF   OFF   OFF     PDI-809-2   ≤2.0 & > 0 <sup>1</sup> in. wc   OFF   OFF     FF-820B		(FF-820A) ∆P	PDI-807-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		, 50	0.5.	Care			
PDI-809-2   S2.0 & > 0 <sup>1</sup> in. wc   PDI-809-3   S2.0 & > 0 <sup>1</sup> in. wc   OFF		Nouth Disca off files.	1-608-IQd <sub>1</sub>	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		AH O	) jo	50.			
PDI-809-3 ≤2.0 & > 0¹ in. wc	3.4	plenum	PDI-809-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		340	<i>\$70</i>	/5:			
		17 (2020-11)	PDI-809-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		F100	348	87.			

Surveillance Rounds

Page 31 of 38

ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 2 of 4)

				(Fage	(Fage 2 of 4)					
			Date:		1.29.13	1-30-13	1.31-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		MY	gur	ga-			
SRs	Descríption	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS (in. wc)	SULTS		
		<sup>1</sup> PDI-829-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		30.	۲٥.	90.			
4.1.3.4	filter plenum (FF-828)	PDI-829-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		22.	.28	27.			
	35	PDI-829-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		2 i	11.	17.			
	100 area re circulation	1-833-1	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		20	58°	58.			
	filter plenum	PDI-833-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		<b>୭</b> ዚ·	94.	94.			
4.1.1.7	15) (COO-1A11)	PDI-833-3	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		Sh:	$S_{h}^{i}$	5h.			
	100 area re-circulation	<sup>1</sup> PDI-835-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.12	.12	.12			
	filter plenum	PDI-835-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		2 H.	.42	.42			
	10 (+10-14 II)	PDI-835-3	$\leq 2.0 \& > 0^1 \text{ in. wc}$		940	٠ 4٥	04.			
		1-218-1Od1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		91.	9j.	61.			
4.1.3.4	100 area glovebox	PDI-815-2	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.39	970	.39			
	exhaust filter plenum (FF852) AP	PDI-815-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$		.31	32	.32			
		PD1-815-5	$\leq 2.0 \& > 0^1 \text{ in. wc}$		. 38	38	.38			
		<sup>1</sup> PDI-816-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		STBY	57.37	51.84			
4.1.3.4	100 area glovebox	PDI-816-2	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		STEY	57.134	STBY			
	exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \& > 0^1 \text{ in. wc}$		ऽराहर	27.37	\$7.87			
		PDI-816-5	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		STEY	STBY	STBY			

Surveillance Rounds

Page 32 of 38

ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) (Page 3 of 4)

		Sun.																	
		Sat.																	
		Fri.		SULTS															
	131-13	Thu.	gr-	SURVEILLANCE RESULTS (in. wc)	¥ 213	YELBY	37.BY	5 70.9	5784	.62	.18	.25	,29	71	, 04	.32	7	\$0.	40
	1-30-13	Wed.	dr-	SURVI	5713 4	5.84	18125	5703	SYBV	,62	,28	72	.29	2.0	ΉO°.	.52	OH.	50.	40
(Page 3 of 4)	51-52-1	Tue.	X		5787	X 91.5	×918	<b>अग्र</b>	STBY	<i>چې.</i>	11	52	.29	. 20	.03	.32	٥H.	.05	740
(Page		Mon.																	
	Date:	Weekday:	Initials:	Acceptance Criteria	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	≤2.0 & > 0¹ in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq 2.0 \& > 0^1 \text{ in. wc}$	$\leq 2.0 \& > 0^{1} \text{ in. wc}$	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc	$\leq$ 2.0 & >0 <sup>1</sup> in. wc
				Gauge	<sup>1</sup> PDI-812-1	PDI-812-2	PDI-812-3	PDI-812-4	PDI-812-5	<sup>1</sup> PDI-813-1	PDI-813-2	PDI-813-3	PDI-813-4	PDI-813-5	<sup>1</sup> PDI-865-1	PDI-865-2	PDI-865-3	<sup>1</sup> PDI-863-1	PDI-863-2
				Description	200 area glovebox	exhaust filter plenum (FF850) $\Delta P$				200 area glovebox	exhaust filter plenum (FF851) $\Delta P$				IFIT exhaust	(FF-865) ΔP		IFIT supply filter plenum	(HVP-863) ∆P
				SRs			4.1.3.4					4.1.3.4				4.1.3.4		,	4.1.3.4

Surveillance Rounds

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ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)

				(Pag	(Page 4 of 4)					
			Date:		1-29-13	1-30-12	1-31-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		*	que.	ga.			,
SRs	Description	Gauge	Acceptance Criteria			SURV	SURVEILLANCE RESULTS	ESULTS	,	
	North Basement supply	¹PDI-857-1	$\leq 2.0 \& > 0^1 \text{ in. wc}$		51.	13	4.			
4.1.3.4	(HVP-840) ΔP	PDI-857-2	$\leq$ 2.0 & > 0 <sup>1</sup> in. wc		\$\frac{1}{1}.	ż	÷			
4.1.3.4	North corridor supply filter plenum	¹PDI-856-I	$\leq 2.0 \& > 0^{1} \text{ in. wc}$		.07	90.	90,			
	d∆ (908-q∨H)	PDI-856-2	<2.0 & > 01 in. wc		29	13.	.62			
NA NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft² combustibles in designated exclusion area (within 15 feet of fans)		SAT	5.47	SAT			
4.3.2.2	Rooms 201, 204, 206, &		0 lb/ft² combustibles				·			
	207		within 3.5 feet							
			perpendicular from the face of the PMMA, the							
			width of the aisles						_	
			between gloveboxes, or							
			up to the walls of the			_				
			rooms, whichever is less		SAT	SAI	SA			
			Completion time		0746	0810	0850			
	OC Operator Re	view and Page C	OC Operator Review and Page Count Complete (initials)	`	3	S.	S. S.			
Non TSR	<sup>1</sup> Non TSR requirement			1						

Non 13K requirement
Note: SR 4.1.3.4 applies during mode 1 and mode 2.

M. Date (/3//2 Time 6858 Reviewed by: Dord Louis Supervisor Completed by: Lam

Comments:

Date2-6-19 Time: 0818

Surveillance Rounds

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#### ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

PF-10 Thermometer File No.: 039745 Calibration Expiration Date: 5-14-13 PF-11 Thermometer File No.: 039746	<del></del>	PF-10 Thermistor File No.: Oct3254 Calibration Expiration Date: 5-30-13 PF-11 Thermistor File No.: Oct0310		V-701 Thermistor File No.: O40373 Calibration Expiration Date: 6-13-13 V-704 Thermistor File No.: 039744	040373 6-13-13 039744
Calibration Expiration Date: 5-14	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date: 8-13-13 Calibration Expiration Date: 8-13-13	8-13-13

	PF-10 & PF-11 Pumpho	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	I V-701 & V-70	4 Fire Water	Storage Tank T	emperature			
		Date:		1-1-13	1-1-13 1-2-13 1-3-13	1-3-13	1-4-13	1/5/13	1/6/13
	Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		司	7	A	7	A.	B
SR	Description	Acceptance Criteria							
N	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	SAT /UNSAT	SATHUNSAT	SATUNSAT (SATUNSAT	SAT UNSAT	SAT UNSAT SAT UNSAT	SAF JUNSAT	SATJUNSAT
4.3.1.11	RECORD fire water storage tank V-701 temperature	≥ 42.1 F		47.0 48.4	48.4	48.5	46.9	48.0	47.0
4.3.1.1	RECORD fire water storage tank V-704 temperature	≥ 42.1 F		46.0 46.7		44.8	45.9	WS.3	46,5
4.3.1.31	RECORD PF-10 room temperature	≥ 50.1 F		60.3 57.0	51.9	59.3	56.5	590	60.2
4.3.1.31	RECORD PF-11 room temperature	≥ 50.1 F		62,5 61.4	٢٠/٩	(40.5	59.9	6106	63.2
		Completion Time:		0920	0805	0870	0845	OSK	0830
	OC Operator Review and Page Count Complete (initials)	Count Complete (initials)		1884	8	See 17	\$3. X	DE BY REOSE	ROSE
				1	101		`		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent)

Reviewed by: DAP

Completed by: \_

Date: 1-7-13 Time: 1340

Time 0839

Date 1/6/13

Surveillance Rounds

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#### ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

			M&TE Calibrated Data			
	PF-10 Thermometer File No.:	24148	PF-10 Thermistor File No.:	042254	PF-10 Thermometer File No.: 039745 PF-10 Thermistor File No.: 042254 V-701 Thermistor File No.: 040373	040373
Record September	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	5/30/13	5/30/13 Calibration Expiration Date: 8/13/13	8/13/13
through April only	PF-11 Thermometer File No.:	039744	PF-11 Thermistor File No.:	040376	PF-11 Thermometer File No.: 039744 PF-11 Thermistor File No.: 040376 V-704 Thermistor File No.: 039744	447 689
	Calibration Expiration Date:	KO	//4//3 Calibration Expiration Date:	6/13/13	8/13/13 Calibration Expiration Date: 8/13/13	8/13/13

					AT						,
	21-12-13	Sun.	ડ		SAT)UNSAT	47.6	46,5	555	8.65	0935	Cap
	1.12.13	Sat.	Y		SATONSAT	46.9	47.5	56.8 55,5	61.1	0845	7
	1-10-13 1-11-13	Fri.	4		CAT DINSAT	47.1	46.9	63.0	5,10	6805	3
Femperature	1-10-13	Thu.	1		SA) NUNSAT	46.1	45.5	6.19	63.3	0830	8 168
Storage Tank	1/9/13	Wed.	4		SATYUNSAT	49.3	46.8	61.9	62.7	2060	000
04 Fire Water	1/8/13	Tue.	吉		SATIUNSAT SATIUNSAT	47.4 49.3	46.0 46.8	101.1	1.19	0900	980 P
I V-701 & V-70	1/1/13	Mon.	P		SAT MINSAT	48.9	45.6	62.4	42.0	4060	0.00 S 000 P
PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	Date:	Weekday:	Initials:	Acceptance Criteria	Calibration dates have not elapsed.	≥ 42.1 F	≥ 42.1 F	≥ 50.1 F	≥ 50.1 F	Completion Time: 0906 0900 0906	Count Complete (initials)
PF-10 & PF-11 Pumpho		Daily (September through April only)		Description	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	RECORD fire water storage tank V-701 temperature	RECORD fire water storage tank V-704 temperature	RECORD PF-10 room temperature	RECORD PF-11 room temperature		OC Operator Review and Page Count Complete (initials)
				SR	NA	4.3.1.1	4.3.1.1	4.3.1.31	4.3.1.31		

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Reviewed by: On-duty Supervisor Completed by:

Time 0935 Date 1-13-13 Date:

Surveillance Rounds

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#### ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

			M&TE Calibrated Data			
	PF-10 Thermometer File No.: 039145	039745	PF-10 Thermistor File No.: O42254	042254	V-701 Thermistor File No.: O40313	040313
Record September	Calibration Expiration Date: <b>5-14-13</b>	5-14-13	Calibration Expiration Date: 5-30-13	5-30-13	Calibration Expiration Date: 8-13-13	8-13-13
through April only	PF-11 Thermometer File No.: 034746	039746	PF-11 Thermistor File No.: O40376	040376	V-704 Thermistor File No.: 039 744	039744
	Calibration Expiration Date: 5 - 1	5-14-13	Calibration Expiration Date: 8-13-13	8-13-13	Calibration Expiration Date: 8-13-13	8-13-13

	PF-10 & PF-11 Pumpho	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	I V-701 & V-70	14 Fire Water S	storage Tank T	emperature			
		Date:	Date: 1-14-13	1-15-13	1-15-13 1-16-13 1-17-13 1-18-13	1-17-13	1-18-13	11(5/1/30/13	1/20113
	Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	7	杖	t 0	#	\$	St.	#
SR	Description	Acceptance Criteria							
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	(AT) UNSAT	SAT UNSAT (SA) UNSAT	SA) MINSAT	(SA) /UNSAT	(AT) UNSAT	SATDINSAT	SATUNSAT
4.3.1.1	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	48.6	49.2	47.2	489 47.9	41.9	47.6	1.84
4.3.1.11	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	46.5	46.2	45.7	45.4 46.9	46.9	46.2	48,7
4.3.1.31	RECORD PF-10 room temperature	≥ 50.1 F	57.1	57.7	58.7	61.60 02.	[mg.]	61.2	62.4
4.3.1.31	RECORD PF-11 room temperature	≥ 50.1 F	600	1.007	59.6	61.5	(p3.3	63,5	64,9
		Completion Time: D&54	0856	1034	2160	0883 5830	0830	8	8480
	OC Operator Review and Page Count Complete (initials)	Count Complete (initials)		300 Sec	P- 88 a.B		C.B. 2 A		# BC

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Reviewed by: On-duty Supervisor

Completed by:

Time OSSZ Date 1130/13 Date:

# ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

-0	~		
575040	8.13.13	039744	8.13.13
V-701 Thermistor File No.: 040373	Calibration Expiration Date: $8.73.73$	V-704 Thermistor File No.: 039744	Calibration Expiration Date: 8 . 13 . 13
43254	5.30.13	040376	8 13.13
PF-10 Thermistor File No.: O43354	Calibration Expiration Date: 5.30./5	PF-11 Thermistor File No.: 646376	Calibration Expiration Date: 8 · 13 · 13
039745	5.14.13	039746	5.14.13
PF-10 Thermometer File No.: 039	Calibration Expiration Date:	PF-11 Thermometer File No.: 0397 46	Calibration Expiration Date:
	Record September	through April only	

	PF-10 & PF-11 Pumphor	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	V-701 & V-70	4 Fire Water S	torage Tank T	emperature			
		Date:		1.21.13 1-22-13 1-23-13	1-23-13	1/24/13	1-35-13	1/24/13 1-25-13 1.26.15 1.27.13	1.27.13
	Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	h	KH	7	Z	Z	h	$\stackrel{>}{\prec}$
SR	Description	Acceptance Criteria							
X A	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	(SA) NUNSAT	SA) UNSAT	SAT UNSAT	SA) NUNSAT (SA) NUNSAT (SA) NUNSAT	SATOUNSAT	SAT UNSAT	SAT
4.3.1.1	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	1.74	49.4485	485	48.2 4B1	481	T.TH	47.4
4.3.1.1	RECORD fire water storage lank V-704 temperature	≥ 42.1 F	45.5	47.3 46.9	46.9	47.3	47.3 46.8	46.6	45.9
4.3.1.3¹	RECORD PF-10 room temperature	≥ 50.1 F	61.9	43.1	63.1	040		64.5	63.7
4.3.1.31	RECORD PF-11 room temperature	≥ 50.1 F	63.5	65.2 64.9	64.9	lo5.3	45.3 GGS 66.4	p. 99	66.1
		Completion Time:	040D	0836 6908	6908	0821	08%	0850	0830
	OC Operator Review and Page C	Count Complete (initials)	3	M C	DAD 84.	C. 7 C- 000 BC 000 BC	10	3	D

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

5680

Time

1.27.13

Date

Date: 1-28-13

Reviewed by: On-duty Supervisor Completed by:

Comments:

Surveillance Rounds

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# ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

			M&TE Calibrated Data			
PF	7-10 Thermometer File No.:	039145	PF-10 Thermometer File No.: 039745 PF-10 Thermistor File No.: 042254	042254	V-701 Thermistor File No.: O#0373	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5/30/13	calibration Expiration Date: 5/80/13 Calibration Expiration Date: 8-13-13	8-13-13
through April only PF	-11 Thermometer File No.:	039744	PF-11 Thermistor File No.:	040374	PF-11 Thermometer File No.: D39744 PF-11 Thermistor File No.: D40374 V-704 Thermistor File No.: D36744	7#4550
0	Calibration Expiration Date: 5	5-14-13	-14-13 Calibration Expiration Date:		8/13/13 Calibration Expiration Date: 8-13-13	8-13-13

					T A						
		Sun.			SAT /UNSAT						
		Sat.			SAT /UNSAT						
		Fri.			SAT /UNSAT						
emperature		Thu.			SAT /UNSAT						
Storage Tank T		Wed.			SAT /UNSAT						
14 Fire Water S		Tue.			SAT/UNSAT						
V-701 & V-70	128/13	Mon.	N#		SATUNSAT	48.5	45.4	63.8	44.2	0922	18 ac
PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	Date:	Weekday:	Initials:	Acceptance Criteria	Calibration dates have not elapsed.	≥ 42.1 F	≥ 42.1 F	≥ 50.1 F	≥ 50.1 F	Completion Time: 0922	Count Complete (initials)
PF-10 & PF-11 Pumpho		Daily (September through April only)		Description	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	RECORD fire water storage tank V-701 temperature	RECORD fire water storage tank V-704 temperature	RECORD PF-10 room temperature	RECORD PF-11 room temperature		OC Operator Review and Page C
				SR	NA	4.3.1.1	4.3.1.1	4.3.1.31	4.3.1.31		

s should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Time 0922

Date 128/13

Date: 2-5-13

Reviewed by: On-duty Supervisor

Completed by:

Comments:

Surveillance Rounds

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# ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

			M&TE Calibrated Data			
	PF-10 Thermometer File No.:	039745	PF-10 Thermometer File No.: $O39745$ PF-10 Thermistor File No.: $O42254$	042254	V-701 Thermistor File No.: 040373	040373
Record September	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	5/30/13	5/30/13 Calibration Expiration Date: $8/13/13$	6/13/13
through April only	PF-11 Thermometer File No.: 039746	039746	PF-11 Thermistor File No.: 040 376	040376	V-704 Thermistor File No.: $O39744$	039744
	Calibration Expiration Date:	3/14/13	(14/13) Calibration Expiration Date:	8/13/13	Calibration Expiration Date:	8/13/13
		•				

	PF-10 & PF-11 Pumpho	PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature	V-701 & V-70	4 Fire Water	Storage Tank T	emperature			
		Date:		1/29/13	(29/13 1/30/13)	81/18/1			
	Daily (September through April only)	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		24	+6	HZ			
SR	Description	Acceptance Criteria							
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	SAT /UNSAT	(SAT)/UNSAT	SAT KINSAT SATYUNSAT SATYUNSAT	SAT)UNSAT	SAT /UNSAT	SAT /UNSAT	SAT /UNSAT
4.3.1.11	RECORD fire water storage tank V-701 temperature	≥ 42.1 F		47.1	46.3	8.97			
4.3.1.11	RECORD fire water storage tank V-704 temperature	≥ 42.1 F		47.4	47.4 45.3	47.5			
4.3.1.31	RECORD PF-10 room temperature	≥ 50.1 F		51.9	49.2 57.2	57.2			
4.3.1.31	RECORD PF-11 room temperature	≥ 50.1 F		58.4	SB.4 56.5	61.2			
		Completion Time:		0906	1060	2160			
	OC Operator Review and Page Count Complete (initials)	Count Complete (initials)	•	and H.	63	~) W			

Teknoeratures should be froorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

\_Time\_0919

Date 1 31

2 - 5-13 Time: 0820

Date:

Reviewed by: MA Completed by:\_

Comments:

Surveillance Rounds

Page 35 of 38

# ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-344	Southeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sat) Unsat.	0916	1-46-13	Ş
4.1.3.2	Confinement Door DR-149	Northeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sat. / Unsat.	8	8	(8)
,	9 dd 300	. X	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sat.) Unsat.	1580	الدان	Sec.
4.5.2.	Continence Door Div 102	Notinwest	AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is $\le 30$ seconds.	Sat.) Unsat.	0 851	1   [ [ [ ] ]	ž

Surveillance Rounds

Page 36 of 3o

ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 2 of 2)

4	Complete	Page Count	Review and	OC Operator Review and Page Count Complete		
pT	1-16-13	1060	Sat / Unsat.	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	South Basement Door (Tunnel)	Confinement Door DR-90
75	1-16-13 PT	2060	Sat. 7 Unsat.	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	N. Basement Personnel door DR-4	Confinement Door DR-4
ž	1-16-13	75%	Sat. Unsat.	AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds.  7 Seconds	Southwest	DR-302
7	1-16, 13	و م <sup>م</sup> لا	Sat. Unsat.	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.  For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	-	Continement Door
Initials	Date:	Completi on Time:	Sat or Unsat.	Acceptance criteria	Location	Equipment

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: Time Control Date 1-16-13 Time CORZO

Date 1-16-13 Time Sazo Reviewed by: CTas Date: 1/17/13 Time: 1130

On-duty Supervisor Comments: CODFILMENT OFFOR DE-149 NE COLT OF SURLICE, Temp Mos

Surveillance Rounds

Page 37 of 38

ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center) (Page 1 of 2)

	Initials:		86	BC	B	BC	8	BC	<b>B</b> C	136	28	BC	BC	BC	86	BC	BC	82	28	8	8	8
	Date:		61.01.13	01.01.13	01.01.13	01.01.13	01.01.13	01.01.13	01.01.13	01.01.13	01-01-13	01.01.13	01.01.13	01-01-13	01.01.13	01.01.13	01-01.1\$	61.01.13	01.01.13	01.01.13	01.06.13	01.01.13
	Completion Time:		0424	h290	h290	h290	h290	٥٦٥٧	0625	0625	0625	0,625	0625	2290	0625	06.25	92 90	9290	9270	0626	9290	0626
(rage 1 01 2)	Sat. / Unsat.		(Sa) / Unsat.	(Sa) / Unsat.	Sat) / Unsat.	(Sab) / Unsat.	(Sa) / Unsat.	(Sat) / Unsat.	(Sa) / Unsat.	(Sab) / Unsat.	Sat) / Unsat.	(31) / Unsat.	(Sa) / Unsat.	(Sal) / Unsat.	(Sa) / Unsat.	Satty Unsat.	(Sat) / Unsat.	(Sa) / Unsat.	San / Unsat.	(a). / Unsat.	(Saly Unsat.	(Sa) / Unsat.
	Acceptance Criteria		> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr	> I mR/hr	> 1 mR/hr	> 1 mR/hr	> 1 mR/hr
	Description	Location	Rm. 201	Rm. 106	Rm. 305	Rm. 401	Rm. 206	Rm. 114	Rm. 319 W	Rm. 409	Rm. 208	Rm. 124	Rm. 319 E	Rm. 420	Rm. 209	Rm. 126	Rm. 327	Rm. 429	Vault 17	Vault 18	Vault 19	Vault 20
	Desci	Channel #	-	2	3	4	5	9	7	8	6	01	=	12	13	14	15	16	17	18	19	20
	SR				4.2.1.1															4.2.2.1		

Note: These readings SHALL be taken on the rate meters in rack RK-801-3 in the OC.

)	Page 38 of 38	18 Center)	ne: <u>0855</u>					
	Surveillance Rounds	ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center) (Page 2 of 2)	Reviewed by: Dave On-duty Supervisor					
	Survei	ATTACHMENT D-2: Monthly	Date Ot-13. Time 5626					
)	TA55-STP-004, R14		Completed by: Lodgian	Comments:				

# **ATTACHMENT A805.A**

## **External Combustion**

Gas Quality Section of Transportation Contract

# ON-SYSTEM STANDARD TRANSPORTATION CONTRACT TRN 39892 US.DOE NNSA aobo LANL Attachment 3 to DE-AC52-10NA29721

### ON-SYSTEM STANDARD TRANSPORTATION CONTRACT

### CONTRACT NO. TRN 39892

### JANUARY 1, 2010

## U.S. DEPARTMENT OF ENERGY NATIONAL NUCLEAR SECURITY ADMINISTRATION aobo LOS ALAMOS NATIONAL LABORATORY

### AND

### NEW MEXICO GAS COMPANY

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NOTE: This page is not considered a part of the Contract but is for the convenience of the parties only and may be removed at any time by either party hereto.

ON-SYSTEM STANDARD TRANSPORTATION CONTRACT TRN 39892

US.DOE NNSA aobo LANL

Attachment 3 to DE-AC52-10NA29721

3.7 Any retention or sale of Gas by the Company under the provisions of the Company's Rule No. 28 shall occur at the transmission system. Transportation Customer shall pay any amounts due under the provisions of the

Company's Rule No. 28 in accordance with Article XI hereof.

IV. FACILITIES

4.1 Prior to receipt or delivery of Gas hereunder, the Company shall determine the meters, pressure

regulators and other related equipment and facilities reasonably required at the Receipt or Delivery Point(s). If such

meters, pressure regulators and other related equipment and facilities are not currently in place, the parties shall negotiate

a separate facilities construction agreement.

4.2 After initial receipts and deliveries of Gas have commenced, the Company shall operate and maintain

all facilities for receiving and delivering of Gas hereunder. If damage occurs to the Company's facilities or

Transportation Customer's facilities as the result of negligence by the other party, that other party shall be liable for all

damages resulting from such negligence.

4.3 Subject to paragraphs 6.2 and 6.5, meter(s) and other related equipment and facilities installed or

maintained by or on behalf of the Company shall be the exclusive means of determining the quantity of Gas received and

delivered hereunder.

4.4 The Company may require Transportation Customer to install, at the expense of Transportation

Customer and all other users of that Receipt Point(s), including the Company, pro rata, hydrogen sulfide monitoring

equipment upstream of the Receipt Point(s) if the Company reasonably believes that such equipment is necessary.

4.5 Transportation Customer shall have the right, at its option and expense, to install and operate check

meter(s) downstream of the Delivery Point(s), as long as the installation, operation, and maintenance of said equipment

does not interfere with the operation of the Company's equipment.

V. QUALITY

5.1 All Gas Tendered at Receipts Points shall be of merchantable pipeline quality. Gas Tendered through

interstate pipelines and at tailgates of cryogenic or lean oil processing plants shall be deemed to be of merchantable

9

# ON-SYSTEM STANDARD TRANSPORTATION CONTRACT TRN 39892 US.DOE NNSA aobo LANL

Attachment 3 to DE-AC52-10NA29721

pipeline quality. Currently, the cryogenic or lean oil processing plants located in New Mexico on Company's system are the Williams Kutz 1, Kutz 2 and Lybrook plants; Duke's Artesia and Eunice plants and Frontier's Maljamar and ABO plants. All Gas Tendered from other sources shall be reasonably free of objectionable material, and commercially free of dust, gums or gumforming constituents, liquids or solid matter and any other substance which interferes with the intended purpose of Merchantability of gas, or causes interference with the proper and safe operation of the lines, meters, regulators, or other appliances through which it may flow; and which must conform to the following specifications:

- (a) Shall not contain more than a trace indication of oils and other liquids that are employed in the operation of Gas processing and/or compression facilities.
- (b) Shall be commercially free of water in their liquid state at the temperature and pressure at which delivered, and in no event contain water vapor in excess of seven (7) pounds per million cubic feet.

  The water vapor content shall be determined by use of dew-point apparatus approved by the Bureau of Mines, or by any other method that is deemed appropriate for the conditions.
- Shall not contain more than three quarters (3/4) grains of total sulfur per one hundred (100) standard cubic feet, which includes hydrogen sulfide, carbonyl sulfide, carbon disulfide, mercaptans, and monodi- and poly-sulfides. The Gas shall also meet the following individual specifications for hydrogen sulfide (H<sub>2</sub>S) and mercaptans:
  - i. Hydrogen sulfide: The Gas shall not contain more than one-quarter (1/4) grain per one hundred (100) standard cubic feet.
  - ii. Mercaptan sulfur: The Gas shall not have mercaptan sulfur content greater than three tenths(0.3) grain per one hundred (100) standard cubic feet.
- (d) Shall not contain in excess of 2-mol% of Carbon Dioxide (CO<sub>2</sub>).
- (e) Shall not contain in excess of 0.2-mol% of Oxygen (O<sub>2</sub>). Every effort shall be made to keep the Gas free of oxygen.
- (f) Shall not contain in excess of 3-mol% of total inert gasses.

# ON-SYSTEM STANDARD TRANSPORTATION CONTRACT TRN 39892 US.DOE NNSA aobo LANL

### Attachment 3 to DE-AC52-10NA29721

- (g) Shall be commercially free of hydrocarbons and not have a hydrocarbon dew point that exceeds fifteen degrees Fahrenheit (15°F) between 100 and 1,000 Psia.
- (h) Shall not be delivered into any of the Company's transmission or distribution pipeline systems at a temperature less than forty degrees Fahrenheit (40° F) nor greater than one hundred twenty degrees Fahrenheit (120° F).
- (i) Have a minimum heating value of not less than nine hundred fifty (950) British thermal units (Btu) per cubic foot, and not to exceed greater than eleven hundred (1100) Btu per standard cubic foot.
- Shall not contain hydrocarbons with a molecular carbon content of  $C_5$  and above  $(C_5+)$  in excess of 0.2 gallon per one thousand (1000) standard cubic feet.
- 5.2 If, at any time, Gas Tendered to the Company at the Receipt Point(s) hereunder fails to conform to the applicable quality specifications, the Company shall promptly provide notice to Transportation Customer of the deficiency. Transportation Customer shall remedy any such deficiency within a reasonable period of time. If, in the Company's reasonable judgment, non-conforming deliveries threaten imminent physical danger or harm to the Company's system, operations or facilities, then the Company, at its option, may immediately refuse to accept any further non-conforming Gas. In addition, in the event Gas Tendered to the Company at the Receipt Point(s) hereunder fails to conform to the applicable quality specifications and (a) are in close proximity to the Company's distribution system or (b) is a repeat offense, the Company at its sole option, may immediately refuse to accept any Gas Tendered by the Transportation Customer at said Receipt Point(s).
- 5.3 If Gas delivered to the Delivery Point(s) fails to conform to the applicable quality specifications, Transportation Customer shall notify the Company in writing of such deficiency. Transportation Customer, at its option, may refuse to take any non-conforming deliveries of Gas. The term of this Contract may be lengthened or extended by any period during which Transportation Customer has refused deliveries of non-conforming Gas by Transportation Customer submitting a written request for such extension to the Company. The Company may not unreasonably refuse such lengthening or extension.

# **ATTACHMENT A806.C**

**External Combustion** 

RLUOB (CMMR) Boilers

Method 9 Opacity Reports



LOS ALAMOS NATIONAL LABORATORY (LANL) VISIBLE EMISSION OBSERVATION FORM (10 MINUTE)

Source Name:	Observation Date Start Time End Time
THOS BOILER #3 NORTH	1/9/12 1350 HOZ
urce Location: TASS RUOB LAN	Min 0 15 30 45 Comments
Type of Source Fuel Type of Control Equipment  None  None	1 0000
Describe Emission Point (Top of stack, etc.)	2 00000
TOP OF STACK	2
Height Above Ground Level Height Relative to Observer Feet Feet	1 0 0 0
Distance From Observer Direction of Source From Observer	
45 Feet North	5 0000
Description of Plume (stack exit only)  ☐Lofting ☐Trapping ☐Looping ☐Fanning ☐Coning	6 0000
Emission Color Plume Type MNo Plume Present	7 0000
CRAY Continuous   Fugitive   Intermittent	8 0000
Water Droplets Present?  ☑NO ☐YES If YES, droplet plume is ☐Attached ☐Dctached	9 0000
At what point in the plume was opacity determined?	10 0000
Describe Background (i.e. blue sky, trees, etc.)	11
Blue KARA LL	12
Background Color Sky Conditions Sky Conditions	13
and Speed Wind Direction	
35 mph (provide from/to, i.e. from North to South)	14
Ambient Temperature Relative Humidity	15
39 °F 29 %	16
Additional Comments/Information:  FURL OIL LACTION = 0.0 GAIL SERVER	17
HIGHFLAME	18
BN1-03	19
Stack with SOURCE LAYOUT SKETCH	20
Plume Draw Arrow in	Average 10-Minute Opacity Range of Opacity Readings
Sun Direction Point	0 % Min. 0 Max.
Wind — X	OBSERVER (please print)
	Name: Title: ENV Pico
$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	Signature Date
Region Re	12 others 1/9/13
五 四	Observer Organization
V V	LANS
OBSERVER'S POSITION	Certified by Certification Date
140°	E7A 8/29/12

SUN LOCATION LINE



LOS ALAMOS NATIONAL LABORATORY (LANL)
VISIBLE EMISSION OBSERVATION FORM (10 MINUTE)

Transfer Control Contr	
Source Name:  Source Name:  Source Name:	Observation Date Start Time End Time
Jarce Location:	8ec
TASS-KLIOB, LANL	Min 0 15 30 45 Comments
Type of Source Type of Control Equipment	10000
Describe Emission Point (Top of stack, etc.)	2 0000
Top of Smell	3 0000
Height Above Ground Level Height Relative to Observer Feet	4 0000
Distance From Observer Direction of Source From Observer	
GO Feet N	
Description of Plume (stack exit only) □Lofting □Trapping □Looping □Fanning □Coning	6 0000
☑No Plume Present  Emission Color Plume Type ☑No Plume Present	7 0000
NA □Continuous □ Fugitive □Intermittent	8 0000
Water Droplets Present?  △NO □YES If YES, droplet plume is □Attached □Detached	9 0000
At what point in the plume was opacity determined?	10 0000
Describe Background (i.e. blue sky, trees, etc.)	11
Blue/Corny Sky	12
Background Color Sky Conditions And Speed Wind Direction	13
mph (provide from/to, i.e. from North to South)	14
5.5 N to 5	
Ambient Temperature Relative Humidity	15
Additional Comments/Information: 5 Moza	16
	17
AST = 36019 GALLOW (1/7/13)	18
BWH-OI HIGHFLAME	19
Stack with SOURCE LAYOUT SKETCH	20
Plume Draw Arrow in	Average 10-Minute Opacity Range of Opacity Readings
Sun Direction  Emission  Point	0%   Min. 0 Max. 0
Wind - X	OBSERVER (please print)
	Name: Title: ENV PRO_
	Signature Date
	1/9/13
	Observer Organization
	LANS
OBSERVER'S POSITION	Certified by Certification Date
140°	EtA SIZGIIZ
SUN LOOPTION LINE	

1		- •	
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LOS ALAMOS NATIONAL LABORATORY (LANL) VISIBLE EMISSION OBSERVATION FORM (10 MINUTE)

Source Name:	Observation Date Start Time End Time
RUOB BOILER & CENTER	1/10/13 1010 1022
Source Location:	Sec
TASS-RUOB, LANL	Min 0 15 30 45 Comments
Type of Source Type of Control Equipment	
DOILER- OIL NONE	
Describe Emission Point (Top of stack, etc.)	2 0000
Height Above Ground Level Height Relative to Observer	3 0000
Feet Feet Feet	4 0000
Distance From Observer Direction of Source From Observer	
AS Feet NORTH	5 0000
Description of Plume (stack exit only)	
□Lofting □Trapping □Looping □Fanning □Coning ☑No Plume Present	7 - 0
Emission Color Plume Type No Plume Present	7 0000
☐Continuous ☐ Fugitive ☐Intermittent	8 0000
Water Droplets Present?  ■NO □YES If YES, droplet plume is □Attached □Detached	9 0000
At what point in the plume was opacity determined?	
Describe Background (i.e. blue sky, trees, etc.)	11
CLOUDE STAY	12
Background Color Sky Conditions OF A	12
Wind Speed / Wind Direction	13
mph (provide from/to, i.e. from North to South)	14
$  O   N\lambda$	
Ambient Temperature Relative Humidity	15
37°F 31 %	16
Additional Comments/Information:	12
HIGH FLAME	17
	18
BWH-02	19
Stack SOURCE LAYOUT SKETCH	20
with Q	
Plume Draw Arrow in North Direction	Average 10-Minute Opacity Range of Opacity Readings Min. Max.
Sun + Point	
$ W_{\text{ind}} \longrightarrow  X $	OBSERVER (please print)
	Name: Title:
	Signature Date
	16.60
	(50H2500) /10/15
	Observer Organization
*.J	CANTA
OBSERVER'S POSITION	Certification Date
140°	FJA 18/29/17
SUN LOCATION LINE	