ESHID-603273-01

Los Alamos
NATIONAL LABORATORY

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)
locatesteam@lanl.gov, w/enc., (E-File)
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

NMED USE ONLY	
TEMPO	

REPORTING SUBMITTAL FORM

NMED USE ONLY	
Staff	
Admin	

PLEASE NOTE: ® - Indicates required field

SECTION I - GENERAL COMPANY AND FACILITY INFORMATION

A. ® Company Name: Los Alamos National Security, LLC			**D. ® Facility Name:** Los Alamos National Laboratory		
B.1 ® Company Address: P.O Box 1663 MS J978			**E.1 ® Facility Address:** Same as Company		
B.2 ® City: Los Alamos	**B.3 ® State:** NM	**B.4 ® Zip:** 87545	**E.2 ® City:**	**E.3 ® State:**	**E.4 ® Zip:**
C.1 ® Company Environmental Contact: Anthony R. Grieggs	**C.2 ® Title:** ENV Group Leader		**F.1 ® Facility Contact:** Steven L. Story	**F.2 ® Title:** Air Quality Permitting and Compliance Programs Team Leader	
C.3 ® Phone Number: (505) 665-0451	**C.4 ® Fax Number:** (505) 665-8858		**F.3 ® Phone Number:** (505) 665-2169	**F.4 ® Fax Number:** (505) 665-8858	
C.5 ® Email Address: grieggst@lanl.gov			**F.5 ® Email Address:** story@lanl.gov		
G. Responsible Official: (Title V only): Michael T. Brandt	**H. Title:** Associate Director for ESH		**I. Phone Number:** (505) 667-4218	**J. Fax Number:** (505) 665-3811	

K. ® AI Number:	L. Title V Permit Number:	M. Title V Permit Issue Date:	N. NSR Permit Number:	O. NSR Permit Issue Date:
856	P100R1M3	04/26/2013	2195	Various

P. Reporting Period: From: 01/01/2013 To: 06/30/2013

SECTION II – TYPE OF SUBMITTAL (check one that applies)

A. ☐	**Title V Annual Compliance Certification**	**Permit Condition(s):**	**Description:**	
B. ☒	**Title V Semi-annual Monitoring Report**	**Permit Condition(s):** A109.A	**Description:** LANL Semi-Annual Monitoring Report for January-June 2013	
C. ☐	**NSPS Requirement (40CFR60)**	**Regulation:**	**Section(s):**	**Description:**
D. ☐	**MACT Requirement (40CFR63)**	**Regulation:**	**Section(s):**	**Description:**
E. ☐	**NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)**	**Regulation:**	**Section(s):**	**Description:**
F. ☐	**Permit or Notice of Intent (NOI) Requirement**	**Permit No.☐: or NOI No.☐:**	**Condition(s):**	**Description:**
G. ☐	**Requirement of an Enforcement Action**	**NOV No. ☐: or SFO No. ☐: or CD No. ☐: or Other ☐:**	**Section(s):**	**Description:**

SECTION IV - CERTIFICATION

After reasonable inquiry, I Michael T. Brandt (name of reporting official) **certify that the information in this submittal is true, accurate and complete.**

® Signature of Reporting Official:	® Title:	® Date	® Responsible Official for Title V?
	Associate Director for ESH	8/7/13	☒ Yes ☐ No

Reviewed By: _____ Date Reviewed: _____

Title V Report Certification Form

I. Report Type

☐ **Annual Compliance Certification**

☒ **Semi-Annual Monitoring Report**

☐ **Other Specify:**

II. Identifying Information

Facility Name: Los Alamos National Laboratory		
Facility Address: P.O. Box 1663, MS J978, Los Alamos	State: NM	Zip: 87545
Responsible Official (RO): Michael T. Brandt	Phone: 505-667-4218	Fax: 505-665-3811
RO Title: Associate Director, Environmental, Safety, & Health	RO e-mail: mtbrandt@lanl.gov	
Permit No.: P100R1M3	Date Permit Issued: April 26, 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, 2013	To: June 30, 2013	

III. Certification of Truth, Accuracy, and Completeness

I am the Responsible Official indicated above. I, (Michael T. Brandt) certify that I meet the requirements of 20.2.70.7.AD NMAC. I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in the attached Title V report are true, accurate, and complete.

Signature _____ Date: 8/7/13

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:

A605 **Fuel Requirements – Asphalt Production**
A. Asphalt Plant Combustion Sources

Requirement: Combustion sources located at the asphalt plant shall only use propane as fuel.

Monitoring: N/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:

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.

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.

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

Requirement: The rotary dryer/baghouse exhaust stack shall be no less than 10 meters in height.

Monitoring: N/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:

The height of the asphalt plant stack has been measured and is no less than 10 meters. The stack is a permanent structure attached to the baghouse fan outlet and its height does not change.

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. 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

Requirement: 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

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:

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.

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.

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

Requirement: Production shall not exceed 13,000 tons per year.

Monitoring: The permittee shall monitor the total daily production rate.

Recordkeeping: The permittee shall calculate a weekly rolling, 12-month total production rate and 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:

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.**

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.

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.

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. 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.

☐ **Yes** **Date report submitted:** **Tracking Number:**

☒ **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.

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.

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.

A707 Other – Beryllium Activities

A. Operational Requirements – Beryllium Activities

Source	Operating Requirements	Process Limits	Control Equipment Requirements
Sigma Facility TA-3-66	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.
Beryllium Technology Facility TA-3-141	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.
Target Fabrication Facility TA-35-213	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.
Plutonium Facility TA-55-PF4	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, revised)	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)

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 TA-3-66	A log shall be maintained during operations, which shows the number of 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 Technology Facility TA-3-141	Facility exhaust stack will be equipped with a continuous emission monitor used to measure beryllium emissions. 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 Facility TA-35-213	Records of the stack emission test results (see Condition 2 of NSR Permit No. 632) and other data needed to determine total emissions shall be retained at the source and made available for inspection by the Department.
Plutonium Facility TA-55-PF4	The HEPA filtration systems shall be equipped with a differential pressure gauge 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)

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 TA-3-66	Recordkeeping for this source is specified in Condition A707.B.
Beryllium Technology Facility TA-3-141	Generate and maintain beryllium inventory records to demonstrate compliance with the 10,000 pounds of beryllium per calendar year and the 1000 pounds of beryllium per day processing limit. 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 Facility TA-35-213	Recordkeeping for this source is specified in Condition A707.B.
Plutonium Facility TA-55-PF4	Stack emission test results and facility operating parameters including a daily record of the pressure drop measured across each appropriate HEPA plenum filtration stage, when the exhaust fans are operating. (NSR Permit 1081-M1-R3, 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) 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. (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)

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 – 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 TA-3-66	The permittee shall report in accordance with Conditions A109.A, A109.C, and Section B110.
Beryllium Technology Facility TA-3-141	Anticipated date of initial startup of each new or modified source not less than thirty (30) days prior to the date. Actual date of initial startup of each new or modified source within fifteen (15) 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. 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 Facility TA-35-213	The permittee shall submit reports described in Section A109 and in accordance with Section B110.
Plutonium Facility TA-55-PF4	Stack emission test results and facility operating parameters will be 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 as a means of determining compliance. 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:** 01/25/2013 & 04/25/2013 **Tracking Number:** SBR20130002 & SBR20130004

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

Comments:

All Beryllium Sources - Reports 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** **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.**

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.

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** **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**

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.

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.

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.

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.

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 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 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.

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. 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 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. 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**.

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.

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.

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.

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 any supporting documentation as an attachment.**

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.

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. 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.

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. 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.

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.

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.

☒ **Yes** **Date report submitted:** 03/27/2013 **Tracking Number:** SBR20130003

☐ **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 supporting 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.

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.

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

Requirement: The facility Standby Generator Pool is limited to an average of 168 hrs per year per genset.

Monitoring: The permittee shall monitor the hours of operation or each genset that is assigned to the Standby Generator Pool.

Recordkeeping: The permittee shall maintain semi-annual records of the hours of operation 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 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.

The semi-annual hours of operation are maintained in accordance with Section B109.

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.

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:

1) 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.

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. 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.

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. 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.

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.

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

Requirement: CI-RICE used at the facility shall combust only diesel fuel containing no more than 500 ppmw total sulfur.

Monitoring: None.

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 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:

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.

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.

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 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 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.**

Comments:

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.

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.

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** **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)

Requirement: 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

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:

No compliance test was required or performed during this reporting period.

No records have been generated.

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

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.

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.

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** **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.).

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.

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.

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 supporting 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.

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.

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.

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.

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.

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. 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.

☐ **Yes** **Date report submitted:** **Tracking Number:**

☒ **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.

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. 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 submitted:** **Tracking Number:**

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

Comments:

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

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.

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.

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.

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** **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_2, 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 supporting 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.

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 open burning occurred during this reporting period.

Part 2

Deviation Summary Report

1. Were any deviations reported to the Air Quality Bureau during this reporting period? If NO, answer question 2 below. If YES, complete the "Summary of Deviations Previously Reported" table below, then answer question 2.	☐ 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.	☐ **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**

Deviation Summary Table for deviations not yet reported.

No.	Applicable Requirement (Include Rule Citation)	Emission Unit ID(s)	Cause of Deviation	Corrective Action Taken
1				
2				

Deviation Summary Table (cont.)

	Deviation Started		Deviation Ended					Did you attach an excess emission form?
No.	Date	Time	Date	Time	Pollutant	Monitoring Method	Amount of Emissions	
1								☐ **Yes** ☐ **No**
2								☐ **Yes** ☐ **No**

Monitoring Report Attachments

LA-UR-13-25881

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

January 2013 Asphalt Plant Differential Pressure Readings

LA-UR-13-25881

Date	Time	Average Differential Pressure	Run Time	Total Run 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	
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

Date	Time	Average Differential 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				
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
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	
13-Feb-2013	9:42:00	7.09	
13-Feb-2013	9:44:00	10	Maximum
13-Feb-2013	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	13:12:00	6.42	
13-Feb-2013	13:14:00	6.15	

13-Feb-2013	13:16:00	6.15	
13-Feb-2013	13:18:00	6.15	
13-Feb-2013	13:20:00	6.15	
13-Feb-2013	13:22:00	6.15	
13-Feb-2013	13:24:00	6.15	
13-Feb-2013	13:26:00	6.15	
13-Feb-2013	13:28:00	6.28	
13-Feb-2013	13:30:00	6.23	
13-Feb-2013	13:32:00	6.23	
13-Feb-2013	13:34:00	6.23	
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	13:42:00	6.21	
13-Feb-2013	13:44:00	6.21	
13-Feb-2013	13:46:00	4.79	0:48:00
14-Feb-2013	13:00:00	2.87	
14-Feb-2013	13:02:00	6.87	
14-Feb-2013	13:04:00	6.48	
14-Feb-2013	13:06:00	6.47	
14-Feb-2013	13:08:00	6.47	
14-Feb-2013	13:10:00	6.47	
14-Feb-2013	13:12:00	6.47	
14-Feb-2013	13:14:00	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	13:22:00	9.14	
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	13:32:00	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	9:54:00	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	10:14:00	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	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	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	
15-Feb-2013	13:46:00	3.26	0:48:00
19-Feb-2013	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	8.36	
19-Feb-2013	13:02:00	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	
04/02/13	10:56:00	6.17	
04/02/13	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	
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	13:08:00	9.29	
04/02/13	13:10:00	9.29	
04/02/13	13:12:00	6.03	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	10:30:00	2.19	
04/03/13	10:32:00	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	
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	
04/04/13	9:28:00	0.31	34
04/04/13	10:10:00	1.75	
04/04/13	10:12:00	2.26	
04/04/13	10:14:00	2.16	
04/04/13	10:16:00	2.05	
04/04/13	10:18:00	2.13	
04/04/13	10:20:00	2.00	
04/04/13	10:22:00	2.00	
04/04/13	10:24:00	1.99	
04/04/13	10:26:00	2.01	
04/04/13	10:28:00	2.68	
04/04/13	10:30:00	1.44	20
04/04/13	12:38:00	0.94	
04/04/13	12:40:00	3.00	
04/04/13	12:42:00	2.55	
04/04/13	12:44:00	2.37	
04/04/13	12:46:00	2.56	
04/04/13	12:48:00	2.36	
04/04/13	12:50:00	2.38	
04/04/13	12:52:00	3.03	
04/04/13	12:54:00	3.27	
04/04/13	12:56:00	2.36	
04/04/13	12:58:00	2.17	
04/04/13	13:00:00	2.10	
04/04/13	13:02:00	2.17	
04/04/13	13:04:00	2.35	
04/04/13	13:06:00	2.90	
04/04/13	13:08:00	2.89	
04/04/13	13:10:00	2.70	
04/04/13	13:12:00	2.94	
04/04/13	13:14:00	2.94	
04/04/13	13:16:00	2.94	
04/04/13	13:18:00	3.17	
04/04/13	13:20:00	3.14	
04/04/13	13:22:00	2.56	44
04/05/13	11:50:00	0.28	
04/05/13	11:52:00	2.55	
04/05/13	11:54:00	2.20	
04/05/13	11:56:00	1.98	
04/05/13	11:58:00	1.95	
04/05/13	12:00:00	1.95	
04/05/13	12:02:00	2.08	
04/05/13	12:04:00	2.72	
04/05/13	12:06:00	2.86	
04/05/13	12:08:00	2.65	
04/05/13	12:10:00	2.63	
04/05/13	12:12:00	2.59	
04/05/13	12:14:00	2.34	
04/05/13	12:16:00	2.34	
04/05/13	12:18:00	2.51	
04/05/13	12:20:00	2.35	
04/05/13	12:22:00	2.41	
04/05/13	12:24:00	2.73	
04/05/13	12:26:00	2.75	
04/05/13	12:28:00	2.54	
04/05/13	12:30:00	2.62	
04/05/13	12:32:00	2.79	
04/05/13	12:34:00	2.79	

04/05/13	12:36:00	2.79	
04/05/13	12:38:00	2.79	
04/05/13	12:40:00	2.71	
04/05/13	12:42:00	2.54	
04/05/13	12:44:00	2.71	
04/05/13	12:46:00	2.60	
04/05/13	12:48:00	2.38	
04/05/13	12:50:00	2.51	
04/05/13	12:52:00	3.01	
04/05/13	12:54:00	3.01	
04/05/13	12:56:00	3.19	
04/05/13	12:58:00	3.27	
04/05/13	13:00:00	3.06	
04/05/13	13:02:00	0.26	72
04/06/13	11:02:00	2.31	
04/06/13	11:04:00	2.96	
04/06/13	11:06:00	2.29	
04/06/13	11:08:00	2.18	
04/06/13	11:10:00	2.14	
04/06/13	11:12:00	2.05	
04/06/13	11:14:00	1.95	
04/06/13	11:16:00	1.99	
04/06/13	11:18:00	1.99	
04/06/13	11:20:00	1.76	
04/06/13	11:22:00	1.91	
04/06/13	11:24:00	1.75	
04/06/13	11:26:00	1.75	
04/06/13	11:28:00	1.75	
04/06/13	11:30:00	1.74	
04/06/13	11:32:00	1.74	
04/06/13	11:34:00	1.84	
04/06/13	11:36:00	2.00	
04/06/13	11:38:00	2.00	
04/06/13	11:40:00	2.00	
04/06/13	11:42:00	1.92	
04/06/13	11:44:00	1.87	
04/06/13	11:46:00	1.87	
04/06/13	11:48:00	1.87	
04/06/13	11:50:00	1.85	
04/06/13	11:52:00	1.82	
04/06/13	11:54:00	1.82	
04/06/13	11:56:00	2.60	
04/06/13	11:58:00	2.91	
04/06/13	12:00:00	3.22	
04/06/13	12:02:00	3.28	
04/06/13	12:04:00	1.75	64
04/06/13	14:10:00	1.16	
04/06/13	14:12:00	3.04	
04/06/13	14:14:00	2.30	
04/06/13	14:16:00	2.11	
04/06/13	14:18:00	2.11	
04/06/13	14:20:00	1.95	
04/06/13	14:22:00	1.86	
04/06/13	14:24:00	1.86	
04/06/13	14:26:00	1.86	
04/06/13	14:28:00	1.86	
04/06/13	14:30:00	1.85	
04/06/13	14:32:00	1.89	
04/06/13	14:34:00	1.78	
04/06/13	14:36:00	1.78	
04/06/13	14:38:00	1.80	
04/06/13	14:40:00	2.25	
04/06/13	14:42:00	2.63	
04/06/13	14:44:00	1.98	34
04/08/13	9:18:00	0.29	
04/08/13	9:20:00	2.71	
04/08/13	9:22:00	2.37	
04/08/13	9:24:00	2.13	
04/08/13	9:26:00	2.27	
04/08/13	9:28:00	2.16	

04/08/13	9:30:00	2.06	
04/08/13	9:32:00	2.05	
04/08/13	9:34:00	1.92	
04/08/13	9:36:00	1.90	
04/08/13	9:38:00	1.90	
04/08/13	9:40:00	1.90	
04/08/13	9:42:00	1.90	
04/08/13	9:44:00	1.94	
04/08/13	9:46:00	2.72	
04/08/13	9:48:00	2.75	
04/08/13	9:50:00	2.75	
04/08/13	9:52:00	3.03	
04/08/13	9:54:00	0.88	
04/11/13	9:06:00	0.52	
04/11/13	9:08:00	2.32	
04/11/13	9:10:00	2.10	
04/11/13	9:12:00	1.93	
04/11/13	9:14:00	1.93	
04/11/13	9:16:00	1.93	
04/11/13	9:18:00	1.93	
04/11/13	9:20:00	1.93	
04/11/13	9:22:00	1.93	
04/11/13	9:24:00	1.93	
04/11/13	9:26:00	1.70	
04/11/13	9:28:00	1.93	
04/11/13	9:30:00	1.83	
04/11/13	9:32:00	1.71	
04/11/13	9:34:00	1.80	
04/11/13	9:36:00	1.96	
04/11/13	9:38:00	1.96	
04/11/13	9:40:00	1.99	
04/11/13	9:42:00	2.07	
04/11/13	9:44:00	2.10	
04/11/13	9:46:00	2.32	
04/11/13	9:48:00	2.63	
04/11/13	9:50:00	1.70	32
04/11/13	12:50:00	0.22	
04/11/13	12:52:00	2.50	
04/11/13	12:54:00	2.74	
04/11/13	12:56:00	2.58	
04/11/13	12:58:00	2.58	
04/11/13	13:00:00	2.53	
04/11/13	13:02:00	2.32	
04/11/13	13:04:00	2.32	
04/11/13	13:06:00	2.31	
04/11/13	13:08:00	2.28	
04/11/13	13:10:00	2.28	
04/11/13	13:12:00	2.32	
04/11/13	13:14:00	2.27	
04/11/13	13:16:00	2.27	
04/11/13	13:18:00	2.41	
04/11/13	13:20:00	2.31	
04/11/13	13:22:00	2.24	
04/11/13	13:24:00	2.32	
04/11/13	13:26:00	2.44	
04/11/13	13:28:00	2.40	
04/11/13	13:30:00	2.82	
04/11/13	13:32:00	3.17	
04/11/13	13:34:00	3.00	
04/11/13	13:36:00	2.96	
04/11/13	13:38:00	3.08	
04/11/13	13:40:00	2.97	
04/11/13	13:42:00	1.92	52
04/12/13	10:30:00	0.54	
04/12/13	10:32:00	2.89	
04/12/13	10:34:00	3.06	
04/12/13	10:36:00	2.89	
04/12/13	10:38:00	2.43	
04/12/13	10:40:00	2.23	
04/12/13	10:42:00	2.03	
04/12/13	10:44:00	1.93	

04/12/13	10:46:00	1.97	
04/12/13	10:48:00	1.94	
04/12/13	10:50:00	1.95	
04/12/13	10:52:00	1.97	
04/12/13	10:54:00	1.97	
04/12/13	10:56:00	1.97	
04/12/13	10:58:00	1.97	
04/12/13	11:00:00	1.97	
04/12/13	11:02:00	1.97	
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	
04/15/13	10:14:00	2.00	
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	
04/15/13	10:40:00	2.60	
04/15/13	10:42:00	2.22	38
04/15/13	13:00:00	2.37	
04/15/13	13:02:00	2.35	
04/15/13	13:04:00	2.35	
04/15/13	13:06:00	2.35	
04/15/13	13:08:00	2.31	
04/15/13	13:10:00	2.10	
04/15/13	13:12:00	2.16	
04/15/13	13:14:00	2.13	
04/15/13	13:16:00	2.13	
04/15/13	13:18:00	2.13	
04/15/13	13:20:00	2.13	
04/15/13	13:22:00	1.99	
04/15/13	13:24:00	1.88	
04/15/13	13:26:00	2.04	
04/15/13	13:28:00	1.91	
04/15/13	13:30:00	1.91	
04/15/13	13:32:00	1.91	
04/15/13	13:34:00	1.91	
04/15/13	13:36:00	2.11	
04/15/13	13:38:00	2.32	
04/15/13	13:40:00	2.46	
04/15/13	13:42:00	0.09	42
04/16/13	9:20:00	1.74	
04/16/13	9:22:00	2.73	
04/16/13	9:24:00	1.94	
04/16/13	9:26:00	1.87	
04/16/13	9:28:00	1.83	
04/16/13	9:30:00	1.62	
04/16/13	9:32:00	1.62	
04/16/13	9:34:00	1.62	
04/16/13	9:36:00	1.62	
04/16/13	9:38:00	1.99	
04/16/13	9:40:00	2.78	

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	8:56:00	2.60	
04/17/13	8:58:00	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	
04/17/13	9:14:00	1.64	
04/17/13	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
04/17/13	12:42:00	0.75	
04/17/13	12:44:00	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	
04/17/13	13:00:00	2.34	
04/17/13	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
04/19/13	10:44:00	0.27	
04/19/13	10:46:00	2.51	
04/19/13	10:48:00	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	11:02:00	1.87	
04/19/13	11:04:00	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	11:18:00	2.66	
04/19/13	11:20:00	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	9:32:00	2.96	
04/22/13	9:34:00	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	9:50:00	2.62	
04/22/13	9:52:00	2.86	

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
04/24/13	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	10:12:00	1.67	
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	10:26:00	2.05	
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

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	
04/26/13	12:48:00	1.42	
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	
04/26/13	13:14:00	1.47	
04/26/13	13:16:00	1.69	
04/26/13	13:18:00	1.69	
04/26/13	13:20:00	1.69	
04/26/13	13:22:00	0.92	52
04/29/13	10:50:00	0.84	
04/29/13	10:52:00	3.07	
04/29/13	10:54:00	2.15	
04/29/13	10:56:00	1.80	
04/29/13	10:58:00	1.93	
04/29/13	11:00:00	1.80	
04/29/13	11:02:00	1.94	
04/29/13	11:04:00	2.35	
04/29/13	11:06:00	2.08	
04/29/13	11:08:00	1.87	
04/29/13	11:10:00	2.12	
04/29/13	11:12:00	2.54	22
04/30/13	9:00:00	0.62	
04/30/13	9:02:00	2.62	
04/30/13	9:04:00	2.68	
04/30/13	9:06:00	1.87	
04/30/13	9:08:00	1.67	
04/30/13	9:10:00	1.60	
04/30/13	9:12:00	1.42	
04/30/13	9:14:00	1.48	
04/30/13	9:16:00	1.45	
04/30/13	9:18:00	1.45	
04/30/13	9:20:00	1.54	
04/30/13	9:22:00	1.53	
04/30/13	9:24:00	2.10	
04/30/13	9:26:00	2.44	
04/30/13	9:28:00	2.62	
04/30/13	9:30:00	0.99	30

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-MAY-2013	13:00	2.23			
2-MAY-2013	13:02	2.04			
2-MAY-2013	13:04	1.83			
2-MAY-2013	13:06	1.76			
2-MAY-2013	13:08	1.75			
2-MAY-2013	13:10	1.72			
2-MAY-2013	13:12	1.72			
2-MAY-2013	13:14	1.72			
2-MAY-2013	13:16	1.7			
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			
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			

6-MAY-2013	13:56	2.39	
6-MAY-2013	13:58	0.81	28
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	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-MAY-2013	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	
8-MAY-2013	10:48	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	
10-May-13	9:20	1.48	
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	
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	
10-May-13	9:44	1.47	
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	0.67	58
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	
10-May-13	12:38	1.65	
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	0.07	74
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	2.02	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	
15-May-13	12:54	2.06	
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
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	
16-May-13	13:10	2.89	
16-May-13	13:12	2.81	
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	
22-May-13	12:48	1.29	
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	
22-May-13	13:04	1.93	
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	
22-May-13	13:24	1.68	40
30-May-13	10:24	0.29	
30-May-13	10:26	2.72	
30-May-13	10:28	2.75	
30-May-13	10:30	2.68	
30-May-13	10:32	2.91	
30-May-13	10:34	2.8	
30-May-13	10:36	2.42	
30-May-13	10:38	1.99	
30-May-13	10:40	1.91	
30-May-13	10:42	2.14	
30-May-13	10:44	2.63	
30-May-13	10:46	2.84	
30-May-13	10:48	2.72	
30-May-13	10:50	2.6	
30-May-13	10:52	2.83	
30-May-13	10:54	2.38	
30-May-13	10:56	1.99	
30-May-13	10:58	1.99	
30-May-13	11:00	1.88	
30-May-13	11:02	1.74	
30-May-13	11:04	1.74	
30-May-13	11:06	1.74	
30-May-13	11:08	1.74	
30-May-13	11:10	1.74	
30-May-13	11:12	1.95	
30-May-13	11:14	1.85	
30-May-13	11:16	1.85	
30-May-13	11:18	1.85	
30-May-13	11:20	1.43	56

June 2013 Asphalt Plant Differential Pressure Readings

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		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				
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		
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

ENV-EAQ-307, R4 Attachment 2, page 1 of 1		Ecology and Air Quality Los Alamos National Laboratory

Los Alamos NATIONAL LABORATORY

LOS ALAMOS NATIONAL LABORATORY (LANL)
VISIBLE EMISSION OBSERVATION FORM (6 MINUTE)

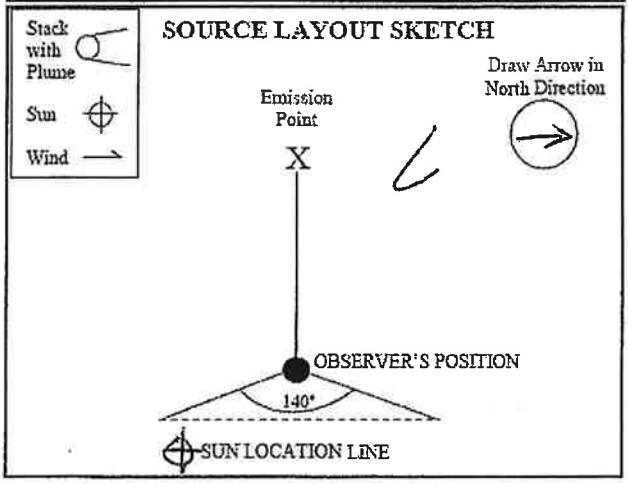
Source Name: TA 60 Asphalt Batch Plant	
Source Location: TA 60	
Type of Source: Asphalt Plant	Type of Control Equipment: Bag House
Describe Emission Point (Top of stack, etc.): Baghouse Stack	
Height Above Ground Level: 33 Feet	Height Relative to Observer: 27 Feet
Distance From Observer: 75 Feet	Direction of Source From Observer: West
Description of Plume (stack exit only): ☐Lofting ☐Trapping ☐Looping ☐Fanning ☐Coning ☒No Plume Present	
Emission Color: N/A	Plume Type: ☒No Plume Present ☐Continuous ☐Fugitive ☐Intermittent
Water Droplets Present? ☒NO ☐YES If YES, droplet plume is ☐Attached ☐Detached	
At what point in the plume was opacity determined? 2' above top of stack	
Describe Background (i.e. blue sky, trees, etc.): overcast - grey	
Background Color: grey	Sky Conditions: overcast
Wind Speed: 1-3 mph	Wind Direction (provide from/to, i.e. from North to South): NW to SE
Ambient Temperature: 40 °F	Relative Humidity: 68 %
Additional Comments/Information:	

Observation Date: 1/25/13	Start Time: 10:46	End Time: 10:52

Min \ Sec	0	15	30	45	Comments
1	Ø	Ø	Ø	Ø	
2	Ø	Ø	Ø	Ø	
3	Ø	Ø	Ø	Ø	
4	Ø	Ø	Ø	Ø	
5	Ø	Ø	Ø	Ø	
6	Ø	Ø	Ø	Ø	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Average 6-Minute Opacity: Ø	Range of Opacity Readings: Min. Ø Max. Ø
OBSERVER (please print) Name: Cliff Heintzelman	Title: DEP
Signature: Cliff Heintzelman	Date: 1/25/13
Observer's Organization: ENV-ES	
Certified by: ETA	Certification Date: 8/29/12

SOURCE LAYOUT SKETCH



THIS FORM IS FROM EAQ-307, R4

ENV-EAQ-307, R4 Attachment 2, page 1 of 1		Ecology and Air Quality Los Alamos National Laboratory

Los Alamos

LOS ALAMOS NATIONAL LABORATORY (LANL)
VISIBLE EMISSION OBSERVATION FORM (6 MINUTE)

Source Name: TA60 Asphalt Batch Plant

Source Location: TA 60

Type of Source: Asphalt Plant

Type of Control Equipment: Bag House

Describe Emission Point (Top of stack, etc.): Baghouse Stack

Height Above Ground Level: 33 Feet

Height Relative to Observer: 27 Feet

Distance From Observer: 75 Feet

Direction of Source From Observer: West

Description of Plume (stack exit only)
☐Lofting ☐Trapping ☐Looping ☐Fanning ☐Coning
☒No Plume Present

Emission Color: N/A

Plume Type: ☒No Plume Present ☐Continuous ☐Fugitive ☐Intermittent

Water Droplets Present?
☒NO ☐YES If YES, droplet plume is ☐Attached ☐Detached

At what point in the plume was opacity determined?
2' above top of stack

Describe Background (i.e. blue sky, trees, etc.)
clear blue sky

Background Color: Blue

Sky Conditions: Clear

Wind Speed: 3-5 mph

Wind Direction (provide from/to, i.e. from North to South): From NW

Ambient Temperature: 34 °F

Relative Humidity: 45 %

Additional Comments/Information:

Observation Date	Start Time	End Time
2/28/13	13:02	13:08

Min \ Sec	0	15	30	45	Comments
1	Ø	Ø	Ø	Ø	
2	Ø	Ø	Ø	Ø	
3	Ø	Ø	Ø	Ø	
4	Ø	Ø	Ø	Ø	
5	Ø	Ø	Ø	Ø	
6	Ø	Ø	Ø	Ø	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Average 6-Minute Opacity: Ø

Range of Opacity Readings: Min Ø Max Ø

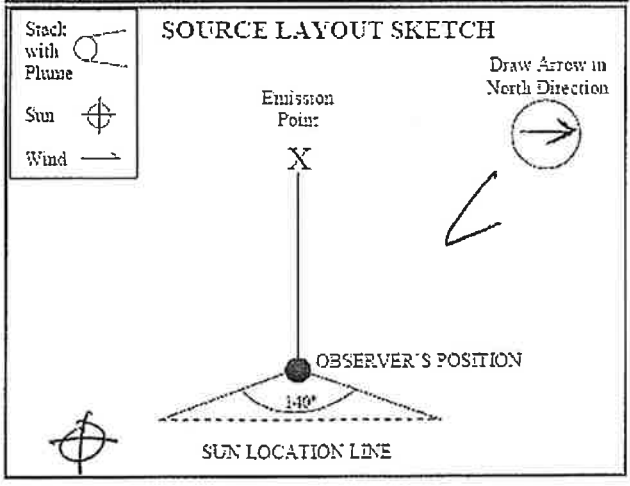
OBSERVER (please print)
Name: Cliff Aeintscho Title: DEP

Signature: Cliff Aeintscho Date: 2/28/13

Observer Organization: ENV-ES

Certified by: ETA Certification Date: 2/27/13

SOURCE LAYOUT SKETCH



THIS FORM IS FROM EAQ-307, R4

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

ENV-EAQ-307, R4 Attachment 2, page 1 of 1		Ecology and Air Quality Los Alamos National Laboratory

Los Alamos NATIONAL LABORATORY

LOS ALAMOS NATIONAL LABORATORY (LANL)
VISIBLE EMISSION OBSERVATION FORM (6 MINUTE)

Source Name: TA 60 Asphalt Batch Plant

Source Location: TA 60

Type of Source: Asphalt Plant | Type of Control Equipment: Bag House

Describe Emission Point (Top of stack, etc.): Baghouse Stack

Height Above Ground Level: 33 Feet | Height Relative to Observer: 27 Feet

Distance From Observer: 75 Feet | Direction of Source From Observer: West

Description of Plume (stack exit only)
☐Looping ☐Trapping ☐Looping ☐Fanning ☐Coning
☒No Plume Present

Emission Color: N/A | Plume Type ☒No Plume Present ☐Continuous ☐Fugitive ☐Intermittent

Water Droplets Present?
☒NO ☐YES If YES, droplet plume is ☐Attached ☐Detached

At what point in the plume was opacity determined?
2' Above top of stack

Describe Background (i.e. blue sky, trees, etc.)
Blue Sky

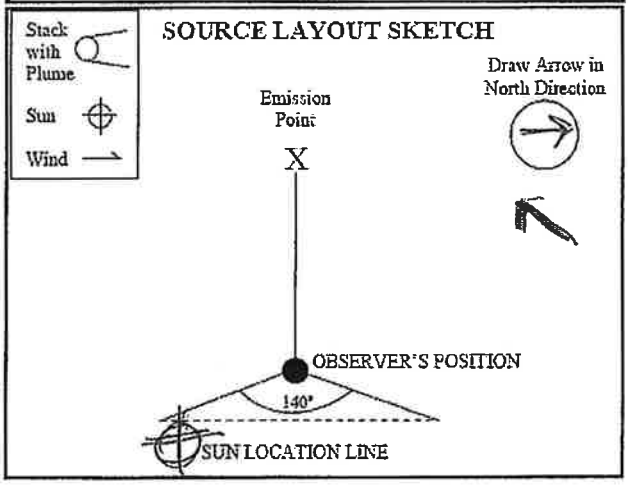
Background Color: Blue Sky | Sky Conditions: Partly Cloudy

Wind Speed: 2-5 mph | Wind Direction (provide from/to, i.e. from North to South): From NE

Ambient Temperature: 42 °F | Relative Humidity: 45 %

Additional Comments/Information:

SOURCE LAYOUT SKETCH



Observation Date	Start Time	End Time
4-3-13	10:40	10:46

Min \ Sec	0	15	30	45	Comments
1	Ø	Ø	Ø	Ø	
2	Ø	Ø	Ø	Ø	
3	Ø	Ø	Ø	Ø	
4	Ø	Ø	Ø	Ø	
5	Ø	Ø	Ø	Ø	
6	Ø	Ø	Ø	Ø	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Average 6-Minute Opacity: Ø | Range of Opacity Readings: Min. Ø Max. Ø

OBSERVER (please print)
Name: Cliff Heintzelman | Title: DEP

Signature: [signature] | Date: 4-3-13

Observer Organization: ENV-ES

Certified by: ETA | Certification Date: 2-27-13

THIS FORM IS FROM EAQ-307, R4

ENV-EAQ-307, R4 Attachment 2, page 1 of 1		Ecology and Air Quality Los Alamos National Laboratory

Los Alamos NATIONAL LABORATORY

LOS ALAMOS NATIONAL LABORATORY (LANL)
VISIBLE EMISSION OBSERVATION FORM (6 MINUTE)

Source Name: TA60 Asphalt Batch Plant

Source Location: TA 60

Type of Source: Asphalt Plant

Type of Control Equipment: Bag House

Describe Emission Point (Top of stack, etc.): Baghouse Stack

Height Above Ground Level: 33 Feet

Height Relative to Observer: 27 Feet

Distance From Observer: 75 Feet

Direction of Source From Observer: West

Description of Plume (stack exit only)
☐Lofting ☐Trapping ☐Looping ☐Fanning ☐Coning
☑No Plume Present

Emission Color: N/A

Plume Type ☑No Plume Present
☐Continuous ☐Fugitive ☐Intermittent

Water Droplets Present?
☑NO ☐YES If YES, droplet plume is ☐Attached ☐Detached

At what point in the plume was opacity determined? 2' above top of Stack

Describe Background (i.e. blue sky, trees, etc.): clear, blue sky

Background Color: blue

Sky Conditions: Clear

Wind Speed: 3-5 mph

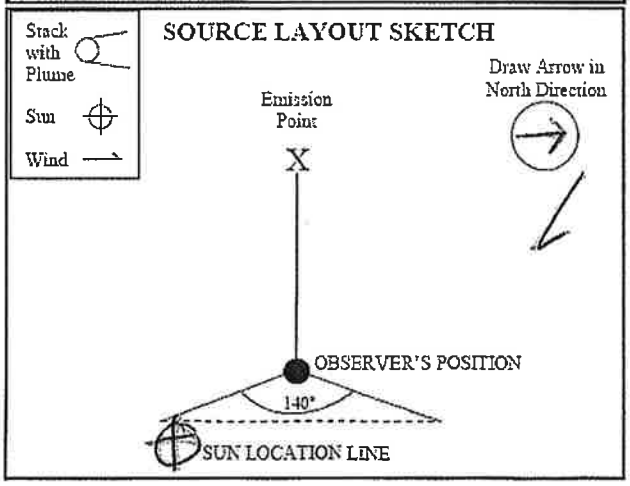
Wind Direction (provide from/to, i.e. from North to South): From W - NW

Ambient Temperature: 73 °F

Relative Humidity: 9 %

Additional Comments/Information:

SOURCE LAYOUT SKETCH



Observation Date: 5/16/13

Start Time: 13:03

End Time: 13:09

Min \ Sec	0	15	30	45	Comments
1	Ø	Ø	Ø	Ø	
2	Ø	Ø	Ø	Ø	
3	Ø	Ø	Ø	Ø	
4	Ø	Ø	Ø	Ø	
5	Ø	Ø	Ø	Ø	
6	Ø	Ø	Ø	Ø	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Average 6-Minute Opacity: Ø

Range of Opacity Readings: Min Ø Max Ø

OBSERVER (please print)
Name: C. Heintzelman Title: D.E.P.

Signature: [signature] Date: 5/16/13

Observer Organization: ENV-ES

Certified by: ETA Certification Date: 2/27/13

THIS FORM IS FROM EAQ-307, R4

ENV-EAQ-307, R4 Attachment 2, page 1 of 1		Ecology and Air Quality Los Alamos National Laboratory

Los Alamos NATIONAL LABORATORY

LOS ALAMOS NATIONAL LABORATORY (LANL)
VISIBLE EMISSION OBSERVATION FORM (6 MINUTE)

Source Name: TA 60 Asphalt Batch Plant

Source Location: TA-60

Type of Source	Type of Control Equipment
Asphalt Plant	Bag House

Describe Emission Point (Top of stack, etc.): Baghouse Stack

Height Above Ground Level	Height Relative to Observer
33 Feet	27 Feet

Distance From Observer	Direction of Source From Observer
75 Feet	West

Description of Plume (stack exit only)
☐Lofting ☐Trapping ☐Looping ☐Fanning ☐Coning
☑No Plume Present

Emission Color	Plume Type
N/A	☑No Plume Present ☐Continuous ☐Fugitive ☐Intermittent

Water Droplets Present?
☑NO ☐YES If YES, droplet plume is ☐Attached ☐Detached

At what point in the plume was opacity determined?
2' above top of stack

Describe Background (i.e. blue sky, trees, etc.)
clear, blue sky

Background Color	Sky Conditions
blue	clear

Wind Speed	Wind Direction (provide from/to, i.e. from North to South)
5-10 mph	From SE

Ambient Temperature	Relative Humidity
80 °F	8 %

Additional Comments/Information:

Observation Date	Start Time	End Time
6-11-13	9:33	9:39

Min \ Sec	0	15	30	45	Comments
1	Ø	Ø	Ø	Ø	
2	Ø	Ø	Ø	Ø	
3	Ø	Ø	Ø	Ø	
4	Ø	Ø	Ø	Ø	
5	Ø	Ø	Ø	Ø	
6	Ø	Ø	Ø	Ø	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Average 6-Minute Opacity	Range of Opacity Readings
0	Min. Ø Max. Ø

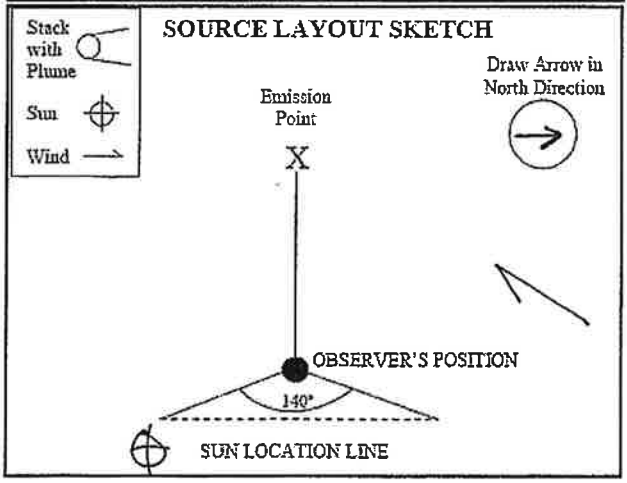
OBSERVER (please print)
Name: C. Heintzelman Title: D.E.P.

Signature: [signature] Date: 6-11-13

Observer Organization: ENV-ES

Certified by	Certification Date
ETA	2-27-13

SOURCE LAYOUT SKETCH



THIS FORM IS FROM EAQ-307, R4

ATTACHMENT A607.E

Asphalt Plant

Daily Operation Log and

12-Month Rolling Production

2013 TA-60 BDM Asphalt Plant

Data Reviewed By / Date: _____

Month	Data Entry Asphalt Produced (Tons)	12-Month Rolling Total	Month	Data Entry Asphalt Produced (Tons)	12-Month Rolling Total
January	4	786	July		
February	24	757	August		
March	0	630	September		
April	127	641	October		
May	44	439	November		
June	19	307	December		
6 mo. Total	218		6 mo. Total:	0	

2013 Asphalt Produced (Tons):	218

12-Month Rolling Permit Limit is 13,000 Tons

Annual Hours			
Month	Hours	Month	Hours
Jan	0.8	Jul	
Feb	8.8	Aug	
Mar	0.0	Sep	
Apr	16.5	Oct	
May	9.5	Nov	
Jun	3.3	Dec	
Total:	38.9	Total:	0.0

Annual Total (to date): 38.93 Hours

Hours are Limited to 4380 per Year.

LA-UR-13-25881

Logistics Division-HERG
Maintenance Operation Instruction
Asphalt Plant Operations

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

Date	Hours of Operation			Asphalt Produced (tons)	Number of Truck Trips to Plant	Haul Road Swept? (check one)		Pressure Drop Across Baghouse				Propane Tank Reading (percent)	Operator Name (Person Taking Readings)
								Start		End			
	Start Time	End Time	Total (hrs.)			Yes	No	Pressure	Time	Pressure	Time		
1-25-13	10:20	11:08	0.80	4	1		/	7.57	10:35	9.79	10:49		Leslie

LA-UR-13-25881

40-20-001.3 (08/2012)

Logistics Division-HERG
Maintenance Operation Instruction
Asphalt Plant Operations

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

Date	Hours of Operation			Asphalt Produced (tons)	Number of Truck Trips to Plant	Haul Road Swept? (check one)		Pressure Drop Across Baghouse				Propane Tank Reading (percent)	Operator Name (Person Taking Readings)
								Start		End			
	Start Time	End Time	Total (hrs.)			Yes	No	Pressure	Time	Pressure	Time		
2-1-13	9:55	10:35	0.67	3	1		✓	5.19	10:10	5.28	10:20		Leslie
2-4-13	9:53	10:24	0.52	3	1		✓	5.78	10:06	5.80	10:14		Leslie
2-4-13	12:39	1:03	0.40	2	1		✓	5.89	12:52	5.92	12:57		Leslie
2-5-13	1:10	1:38	0.47	2	1		✓	6.42	1:20	6.44	1:27		Leslie
2-6-13	12:57	1:29	0.53	2	1		✓	6.38	1:09	6.31	1:17		Leslie
2-13-13	9:15	11:00	1.75	2	1		✓	7.10	10:22	6.83	10:49		Leslie
2-13-13	1:00	1:44	0.80	2	1		✓	6.29	1:14	6.21	1:34		Leslie
2-14-13	1:02	1:41	0.65	3	1		✓	6.46	1:19	6.30	1:30		Leslie
2-15-13	9:53	10:30	0.62	3	1		✓	6.05	10:02	5.89	10:26		Leslie
2-15-13	1:00	1:47	0.78	2	1		✓	5.59	1:12	5.60	1:30		Leslie
2-19-13	12:55	1:40	0.75	*			✓	5.47	1:26	5.55	1:30		Leslie
2-28-13	12:54	1:45	0.85	*			✓	6.45	1:05	5:75	1:35		Leslie

* NO ASPHALT PRODUCED

LA-UR-13-25881

Logistics Division-HERG
Maintenance Operation Instruction
Asphalt Plant Operations

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

Date	Hours of Operation			Asphalt Produced (tons)	Number of Truck Trips to Plant	Haul Road Swept? (check one)		Pressure Drop Across Baghouse				Propane Tank Reading (percent)	Operator Name (Person Taking Readings)
								Start		End			
	Start Time	End Time	Total (hrs.)			Yes	No	Pressure	Time	Pressure	Time		
3-1-13													
3-31-13													
NO OPERATIONS													
IN MARCH													

40-20-001.3 (08/2012)

Logistics Division-HERG
Maintenance Operation Instruction
Asphalt Plant Operations

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

Date	Hours of Operation			Asphalt Produced (tons)	Number of Truck Trips to Plant	Haul Road Swept? (check one)		Pressure Drop Across Baghouse				Propane Tank Reading (percent)	Operator Name (Person Taking Readings)
								Start		End			
	Start Time	End Time	Total (hrs.)			Yes	No	Pressure	Time	Pressure	Time		
4-2-13	1:00	1:25	0.42	93	1			6.15	1:06	6.18	1:17		Leslie
4-3-13	10:21	11:06	0.75	6	1			2.16	10:35	2.81	10:52		Leslie
4-4-13	8:56	9:30	0.57	3	1			1.83	9:10	1.80	9:15		Leslie
4-4-13	10:11	10:33	0.37	2	1			2.03	10:20	2.02	10:28		Leslie
4-4-13	12:40	1:24	0.73	4	1			2.23	12:51	2.00	1:02		Leslie
45-13	11:52	1:03	0.18	6	1			2.37	12:15	2.34	12:21		Leslie
4-6-13	11:00	12:06	1.10	15	1			1.86	11:36	1.99	11:51		Leslie
4-6-13	2:12	2:48	0.60	6	1			1.79	2.28	1.72	2:37		Leslie
4-8-13	9:20	9:55	0.58	5	1			1.97	9:36	1.82	9:45		Leslie
4-11-13	9:08	9:52	0.73	3	1			1.80	9:24	1.85	9:40		Leslie
4-11-13	12:35	1:44	1.15	7	1			1.93	12:50	2.37	1.27		Leslie
4-12-13	10:32	11:20	0.80	8	1			1.75	10:35	1.79	11.05		Leslie
4-15-13	10:06	10:44	0.63	5	1			1.83	10:19	1.72	10:30		Leslie
4-15-13	1:01	1:43	0.70	4 sand	1	✓		2.09	1:15	1.89	1:35		Leslie
4-16-13	9:21	9:46	0.42	2	1			1.80	9:30	1.87	9:40		Leslie
4-17-13	8:57	9:27	0.50	4	1			1.66	9:11	1.64	9:18		Leslie
4-17-13	12:45	1.11	0.43	2	1			1.72	12:59	1.77	1:05		Leslie
4-19-13	10:48	11:26	0.63	6	1			1.84	11:02	1.72	11:16		Leslie
4-22-13	9:27	9:56	0.48	4	1			2.05	9:41	1.78	9:49		Leslie
4-22-13	12:45	1:06	0.35	2	1			1.50	12:56	1.66	1:00		Leslie
4-23-13	1:06	1:45	0.65	6	1			1.65	1:21	1.70	1:39		Leslie
4-24-13	10:04	10:31	0.45	3	1			1.85	10:11	1.37	10:20		Leslie
4-24-13	12:50	1:29	0.65	5	1			1.54	1:06	1.50	1:14		Leslie
4-25-13	1:20	1:43	0.38	2	1			1.41	1:28	1.30	1:56		Leslie
4-26-13	12:40	1:33	0.88	8	1			1.49	12:49	1.52	1:29		John
4-29-13	10:25	11:15	0.83	3	1			1.83	10:58	1.85	11:09		Leslie
4-30-13	9:02	9:32	0.50	3	1			1.35	9:14	1.42	9:24		Leslie

Logistics Division-HERG
Maintenance Operation Instruction
Asphalt Plant Operations

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

Date	Hours of Operation			Asphalt Produced (tons)	Number of Truck Trips to Plant	Haul Road Swept? (check one)		Pressure Drop Across Baghouse				Propane Tank Reading (percent)	Operator Name (Person Taking Readings)
								Start		End			
	Start Time	End Time	Total (hrs.)			Yes	No	Pressure	Time	Pressure	Time		
5-1-13	12:56	1:28	0.53	3	1			2.37	1:10	2.47	1:18		Leslie
5-2-13	12:57	1:28	0.52	4	1			1.68	1:11	1.71	1:19		Leslie
5-3-13	9:03	9:28	0.42	2	1			1.59	9:12	1.45	9:19		Leslie
5-6-13	1:32	1:59	0.45	3	1			1.56	1:45	1.51	1:51		Leslie
5-7-13	9:10	9:33	0.38	2	1			1.49	9:18	1.26	9:24		Leslie
5-7-13	12:46	1:05	0.32	1	1			1.78	12:55	1.65	1:59		Leslie
5-8-13	10:31	10:58	0.45	3	1			1.57	10:44	1.54	10:50		Leslie
5-8-13	1:09	1:31	0.37	1	1			1.75	1:20	1.74	1:25		Leslie
5-10-13	9:17	10:14	1.03	2	1			1.42	9:30	1.27	9:42		Leslie
5-10-13	12:11	12:44	0.55	3	1			1.66	12:20	1.68	12:32		Leslie
5-13-13	1:03	1:25	0.37	1	1			1.81	1:11	1.90	1:19		Leslie
5-14-13	1:00	1:28	0.47	2	1			1.57	1:17	1.69	1:23		Leslie
5-15-13	12:45	1:09	0.40	2	1			2.04	12:55	2.05	1:00		Leslie
5-16-13	10:35	10:55	0.33	1	1			1.56	10:46	1.50	10:49		Leslie
5-16-13	12:41	1:17	0.60	3	1			2.74	12:59	2.89	1:10		Leslie
5-20-13	10:23	10:52	0.48	Test				3.59	10:48	3.63	10:51		Leslie
5-22-13	8:58	9:24	0.43	2	1			2.19	9:07	2.13	9:16		Leslie
5-22-13	12:46	1:26	0.67	5	1			1.01	1:04	2.32	1:14		Leslie
5-30-13	11:38	11:59	0.35	2	1			2.73	11:48	1.97	11:56		Leslie
5-30-13	11:08	11:27	0.40	2	1			1.63	11:04	1.87	11:13		Leslie

LA-UR-13-25881

Logistics Division-HERG
Maintenance Operation Instruction
Asphalt Plant Operations

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

Date	Hours of Operation			Asphalt Produced (tons)	Number of Truck Trips to Plant	Haul Road Swept? (check one)		Pressure Drop Across Baghouse				Propane Tank Reading (percent)	Operator Name (Person Taking Readings)
								Start		End			
	Start Time	End Time	Total (hrs.)			Yes	No	Pressure	Time	Pressure	Time		
6-3-13	9:39	10:04	0.42	2	1			1.67	9:52	1.60	9:57		Leslie
6-3-13	12:55	1:15	0.33	1	1			2.53	1:07	2:88	1:11		Leslie
6-4-13	9:20	9:43	0.38	1	1			1.43	9:29	1.52	9:37		Leslie
6-11-13	8:54	9:38	0.73	8	1			1.81	9:05	1.62	9:28		Leslie
6-11-13	12:40	1:40	1.00	5	1			1.64	12:50	1.70	1:28		Leslie
6-12-13	9:20	9:49	0.48	2	1			1.60	9:28	1.45	9:59		Leslie
		TOTAL	3.34	19									
			HRS.	TONS									
	NO ASPHALT PRODUCTION					6-13-13 THROUGH 6-30-13.							

LA-UR-13-25881

ATTACHMENT A607.F

Asphalt Plant

Maintenance Records

Los Alamos NATIONAL LABORATORY EST. 1943

Maintenance & Site Services
Preventative Maintenance Instruction
Asphalt Plant Operation
PM INSPECTION & LUBRICATION

20-001.3 R1	**PM DATE:**	NEXT SCHEDULED PM DATE:

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 problems involving imminent danger.

ASPHALT BATCH PLANT PREVENTATIVE MAINTENANCE INSPECTION AND LUBRICATION

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.	✓		
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	✓		
	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.	✓		
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	✓		
3.21	1 Gear Box (Check Oil) ***Add if Necessary***	✓		
3.22	Screen Cloth Tension	✓		
3.23	Inspect even material feed and distribution into screen.	✓		
3.24	Tighten Loose Bolts	✓		
3.25	Drive Belt Tension	✓		
	Support Springs	✓		
	Clear away stones and dust build up from any moving parts	✓		
3.28	Inside the screen, inspect the feed and discharge wear plates for excessive buildup and wear. Repair and/or clean as needed	✓		

ASPHALT BATCH PLANT PREVENTATIVE MAINTENANCE INSPECTION AND LUBRICATION

STEP	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 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			
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***	–		
	HOT ASPHALT PUMP			
3.41	2 Fittings on Electric Motor	–		
	HOT OIL PUMP AND ELECTRIC MOTOR			
3.42	2 Fittings on Electric Motor	–		
	PROPANE PUMP			
3.43	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:

VERIFICATION

CRAFT NAME: Mario Maestas	Z-NUMBER	DATE
CRAFT SIGNATURE: Mario Maestas	Z08358	1-25-13
SUPERINTENDENT NAME: Joe Serna	**Z-NUMBER**	**DATE**
SUPERINTENDENT SIGNATURE: Joe Serna	Z79468	1-28-13

ATTACHMENT A607.G

Asphalt Plant

Method 22 Reports

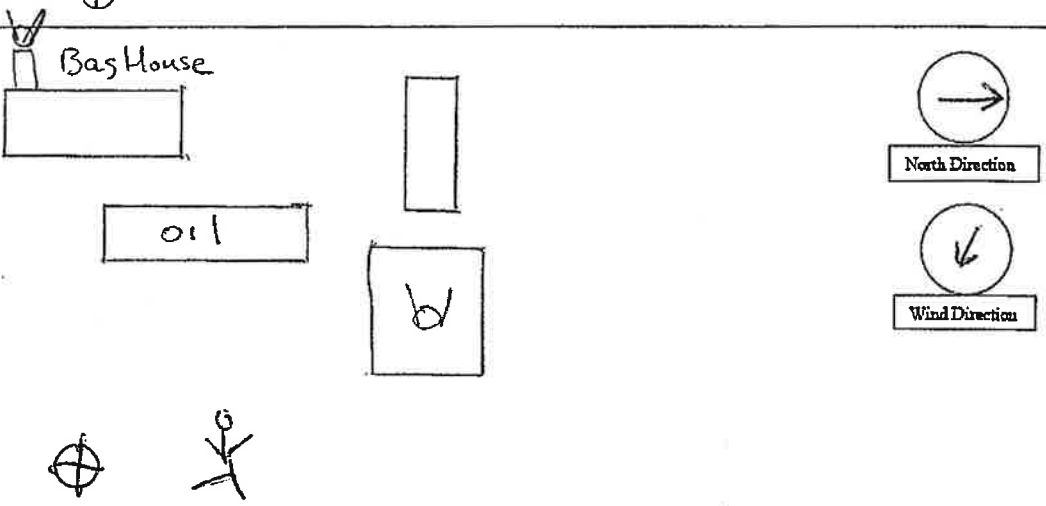
ENV-EAQ-307, R5 Attachment 3, page 1 of 1		Ecology and Air Quality Los Alamos National Laboratory

Los Alamos National Laboratory
METHOD 22 Visual Determination of Fugitive Emissions Form

Location: TA60 Asphalt Batch Plant	**Observer Affiliation:** ENV-ES
Representative: Cliff Hentschel	**Date of Inspection:** 1/25/13
Sky Conditions: Overcast	**Wind Direction:** NW to SE
Precipitation: Ø	**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



Observations:

	Clock Time	Observation period duration (min:sec)	Accumulated Emission Time(min:sec)
Begin	10:35	10:00	0:00
End Observation	10:45		

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: Cliff Hentschel

DATE: 1/25/13

THIS FORM IS FROM EAQ-307, R5

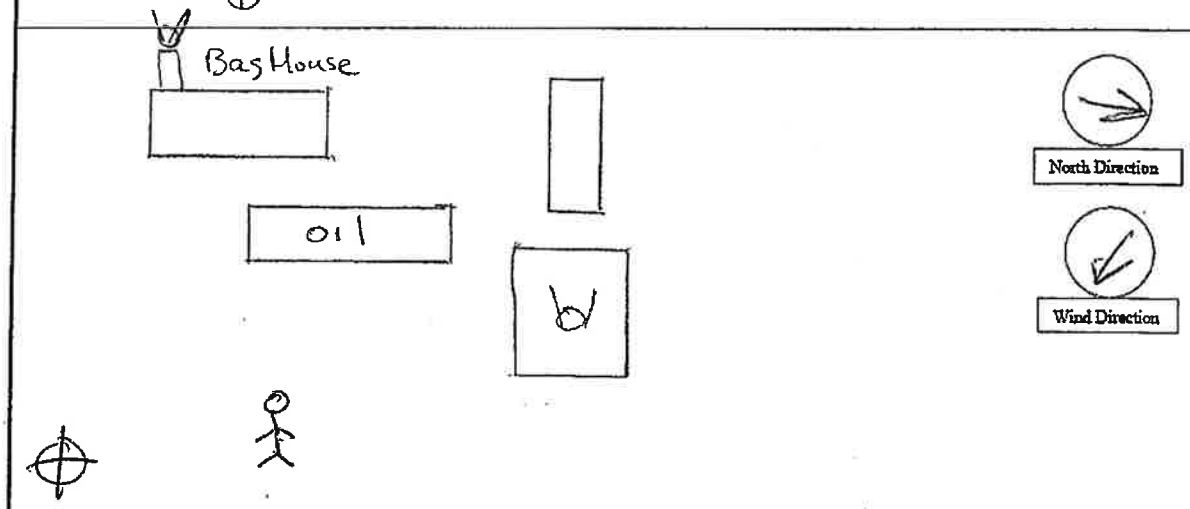
ENV-EAQ-307, R5 Attachment 3, page 1 of 1		Ecology and Air Quality Los Alamos National Laboratory

Los Alamos National Laboratory
METHOD 22 Visual Determination of Fugitive Emissions Form

Location: TA 60 Asphalt Batch Plant	**Observer Affiliation:** ENV-ES
Representative: Cliff Heintschel	**Date of Inspection:** 2/28/13
Sky Conditions: Clear	**Wind Direction:** NW to SE
Precipitation: Ø	**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



Observations:

	Clock Time	Observation period duration (min:sec)	Accumulated Emission Time(min:sec)
Begin	12:51		
		10:00	0:00
End Observation	13:01		

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: Cliff Heintschel DATE: 2/28/13

THIS FORM IS FROM EAQ-307, R5

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

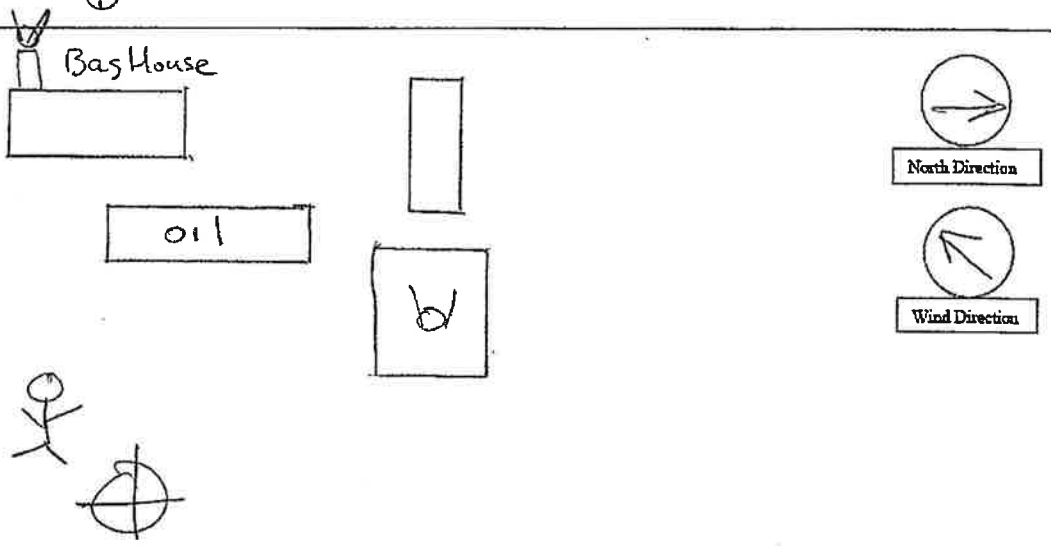
ENV-EAQ-307, R5 Attachment 3, page 1 of 1		Ecology and Air Quality Los Alamos National Laboratory

Los Alamos National Laboratory
METHOD 22 Visual Determination of Fugitive Emissions Form

Location: TA60 Asphalt Batch Plant	**Observer Affiliation:** ENV-ES
Representative: Cliff Hentschel	**Date of Inspection:** 4-3-13
Sky Conditions: Partly Cloudy	**Wind Direction:** From NE
Precipitation: Ø	**Wind Speed:** 2-5 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



Observations:

	Clock Time	Observation period duration (min:sec)	Accumulated Emission Time(min:sec)
Begin	18:47		
		10:00	Ø:Ø0
End Observation	18:57		

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: Cliff Hentschel

DATE: 4-3-13

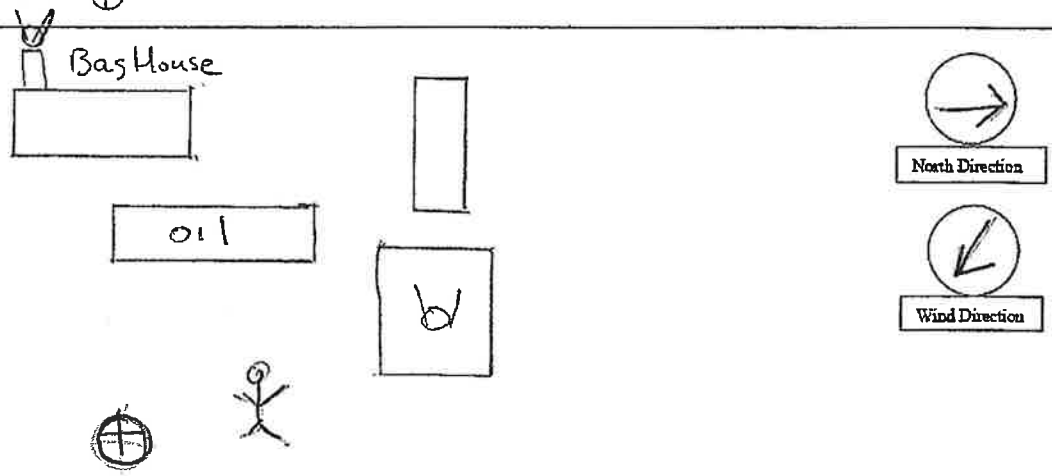
ENV-EAQ-307, R5 Attachment 3, page 1 of 1		Ecology and Air Quality Los Alamos National Laboratory

Los Alamos National Laboratory
METHOD 22 Visual Determination of Fugitive Emissions Form

Location: TA 60 Asphalt Batch Plant	**Observer Affiliation:** ENV-ES
Representative: C. Heintschel	**Date of Inspection:** 5/16/13
Sky Conditions: Clear	**Wind Direction:** From W-NW
Precipitation: Ø	**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 ⊕
* wind direction
* North direction



Observations:

	Clock Time	Observation period duration (min:sec)	Accumulated Emission Time(min:sec)
Begin	12:52 PM		
		10	Ø
End Observation	13:02		

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: Cliff Heintschel DATE: 5/16/13

THIS FORM IS FROM EAQ-307, R5

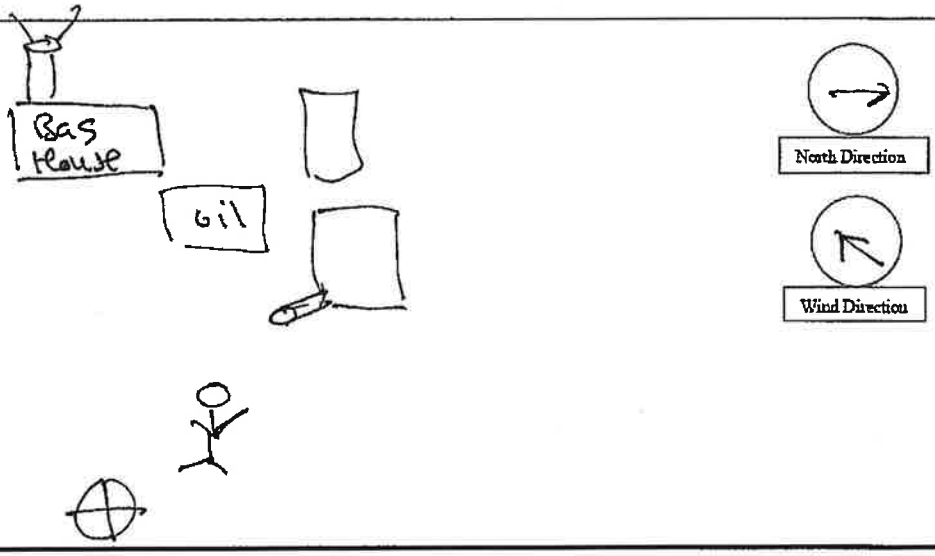
ENV-EAQ-307, R5 Attachment 3, page 1 of 1		Ecology and Air Quality Los Alamos National Laboratory

Los Alamos National Laboratory
METHOD 22 Visual Determination of Fugitive Emissions Form

Location: TA60 Asphalt Batch Plant	**Observer Affiliation:** ENV-ES
Representative: C. Heintschel	**Date of Inspection:** 6-10-13
Sky Conditions: clear	**Wind Direction:** From SE
Precipitation: Ø	**Wind Speed:** 5-10 mph
Industry: National Lab	**Process Unit:** Fugitive Emission

Sketch of Process Unit:

Indicate:
* observer position relative to source
* potential emission and/or actual emission points
* sun location
* wind direction
* North direction



Observations:	Clock Time	Observation period duration (min:sec)	Accumulated Emission Time(min:sec)
Begin	9:22		
		10:00 min	1:00 min
End Observation	9:32		

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: Cliff Heintschel

DATE: 6-11-13

THIS FORM IS FROM EAQ-307, R5

ATTACHMENT A707.B.a.

Beryllium

TA-3-66 Beryllium Logs

January 1 , 2013 - June 30, 2013

Metallography

Date	Number of Metallographic Specimens Used in the Polishing Operation
There were no samples processed during time period.	

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

January 1 , 2013 - June 30, 2013

Electroplating/Chemical Milling

Date	Weight or Volume of Beryllium Samples Processed	UOM
There were no samples processed during time period.		

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

January 1 , 2013 - June 30, 2013

Machining

Date	Weight or Volume of Beryllium Samples Processed	UOM
There were no samples processed during time period.		

Arc Melting/Casting

Date	Weight or Volume of Beryllium Samples Processed	UOM
There were no samples processed during time period.		

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

January		February		March		April		May		June	
Date	**Hours**	**Date**	**Hours**	**Date**	**Hours**	**Date**	**Hours**	**Date**	**Hours**	**Date**	**Hours**
No Hours		No Hours		No Hours		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	6		
						30-Apr	8	28-May	8		
								29-May	6		
								30-May	8		
Total Hours	**0**		**0**		**0**		**71**		**75**		**40**

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

Differential Pressure Weekly Report

1/7/2013
8:00:47 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
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

Differential Pressure
Weekly Report

1/14/2013
8:00:47 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
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

Differential Pressure
Weekly Report

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

Differential Pressure
Weekly Report

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

Differential Pressure
Weekly Report

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

Differential Pressure Weekly Report

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
2/8/2013 12:00:00 PM	1.96	1.38	1.22
2/8/2013 4:00:00 AM	1.90	1.35	0.99
2/7/2013 8:00:00 PM	1.91	1.35	1.06
2/7/2013 12:00:00 PM	2.05	1.44	1.21
2/7/2013 4:00:00 AM	1.85	1.33	1.09
2/6/2013 8:00:00 PM	1.93	1.36	1.07
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

Differential Pressure
Weekly Report

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

Differential Pressure
Weekly Report

2/25/2013
8:00:47 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
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

Differential Pressure Weekly Report

3/4/2013
8:00:48 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
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

Differential Pressure
Weekly Report

3/11/2013
8:00:48 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
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
3/7/2013 4:00:00 AM	2.20	1.53	1.03
3/6/2013 8:00:00 PM	2.24	1.54	1.07
3/6/2013 12:00:00 PM	2.24	1.55	1.08
3/6/2013 4:00:00 AM	2.24	1.56	0.98
3/5/2013 8:00:00 PM	2.23	1.54	1.05
3/5/2013 12:00:00 PM	2.24	1.54	1.06
3/5/2013 4:00:00 AM	2.23	1.55	0.94
3/4/2013 8:00:00 PM	2.20	1.52	1.01
3/4/2013 12:00:00 PM	2.05	1.44	1.16

Differential Pressure
Weekly Report

3/18/2013
8:00:44 AM BCU

Date / Time	BANK 1 HEPA FILTERS Present Value	BANK 2 HEPA FILTERS Present Value	DUST COLLECTOR DP Present Value
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

Differential Pressure
Weekly Report

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
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	1.12
3/20/2013 12:00:00 PM	2.28	1.59	1.03
3/20/2013 4:00:00 AM	2.17	1.51	0.94
3/19/2013 8:00:00 PM	2.21	1.52	1.05
3/19/2013 12:00:00 PM	2.23	1.56	1.08
3/19/2013 4:00:00 AM	2.25	1.55	0.98
3/18/2013 8:00:00 PM	2.20	1.53	1.02
3/18/2013 12:00:00 PM	2.16	1.50	1.07

Differential Pressure Weekly Report

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

NM STATE REPORTING

		HEPA 1	HEPA 2	DUST	YEAR
DAY 1	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 2	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 3	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 4	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 5	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 6	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 7	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 8	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 9	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 10	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000

		HEPA 1	HEPA 2	DUST	YEAR
DAY 11	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 12	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 13	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 14	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 15	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 16	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 17	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 18	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 19	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 20	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000

		HEPA 1	HEPA 2	DUST	YEAR
DAY 21	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 22	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 23	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 24	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
	00:00	0.00	0.00	0.00	0000
DAY 25	00:00	0.00	0.00	0.00	0000
	14:26	0.01	0.02	-0.0	2013
	20:00	2.68	1.50	-0.0	2013
DAY 26	04:00	2.71	1.48	-0.1	2013
	12:00	2.68	1.48	-0.0	2013
	20:00	2.64	1.49	-0.0	2013
DAY 27	04:00	2.64	1.51	-0.1	2013
	12:00	2.66	1.47	-0.1	2013
	20:00	2.64	1.49	-0.0	2013
DAY 28	04:00	2.61	1.46	-0.0	2013
	12:00	2.67	1.47	-0.1	2013
	20:00	2.67	1.48	-0.0	2013
DAY 29	04:00	2.70	1.50	-0.0	2013
	12:00	2.67	1.50	0.03	2013
	20:00	2.74	1.54	0.05	2013
DAY 30	04:00	2.71	1.50	0.00	2013
	12:00	2.42	1.46	0.07	2013
	20:00	2.64	1.55	-0.1	2013

JAN FEB MAR

APR MAY JUN

JUL AUG SEP

OCT NOV DEC

MONTH DISPLAYED IS
APRIL

PRINT SCREEN MAIN

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

LA-UR-13-25881

NM STATE REPORTING

		HEPA 1	HEPA 2	DUST	YEAR
DAY 1	04:00	2.51	1.51	-0.0	2013
	12:00	2.59	1.56	-0.0	2013
	20:00	2.60	1.56	-0.1	2013
DAY 2	04:00	2.63	1.58	-0.1	2013
	12:00	0.01	0.01	-0.1	2013
	20:00	2.58	1.54	-0.1	2013
DAY 3	04:00	2.57	1.52	-0.2	2013
	12:00	0.61	0.44	-0.1	2013
	20:00	2.56	1.53	-0.1	2013
DAY 4	04:00	2.60	1.56	-0.1	2013
	12:00	2.61	1.55	-0.1	2013
	20:00	2.59	1.55	-0.1	2013
DAY 5	04:00	2.60	1.55	-0.1	2013
	12:00	2.61	1.55	-0.1	2013
	20:00	2.59	1.55	-0.1	2013
DAY 6	04:00	2.58	1.55	-0.1	2013
	12:00	2.61	1.56	-0.1	2013
	20:00	2.57	1.53	0.16	2013
DAY 7	04:00	2.51	1.50	0.14	2013
	12:00	2.55	1.51	-0.0	2013
	20:00	2.59	1.54	-0.0	2013
DAY 8	04:00	2.59	1.53	-0.2	2013
	12:00	2.60	1.55	-0.1	2013
	20:00	2.58	1.53	-0.1	2013
DAY 9	04:00	2.55	1.52	-0.0	2013
	12:00	2.61	1.55	-0.1	2013
	20:00	2.60	1.54	-0.1	2013
DAY 10	04:00	2.60	1.55	-0.2	2013
	00:00	0.00	0.00	0.00	0000
	20:00	2.68	1.58	0.15	2013

		HEPA 1	HEPA 2	DUST	YEAR
DAY 11	04:00	2.61	1.54	0.02	2013
	12:00	2.58	1.53	0.06	2013
	20:00	2.69	1.58	-0.1	2013
DAY 12	04:00	2.70	1.58	-0.2	2013
	12:00	2.67	1.58	-0.1	2013
	20:00	2.69	1.58	-0.0	2013
DAY 13	04:00	2.64	1.56	-0.1	2013
	12:00	2.70	1.59	0.00	2013
	20:00	2.69	1.59	0.13	2013
DAY 14	04:00	2.73	1.60	-0.0	2013
	12:00	2.73	1.60	0.03	2013
	20:00	2.73	1.60	0.06	2013
DAY 15	04:00	2.71	1.59	-0.1	2013
	12:00	2.66	1.67	1.10	2013
	20:00	2.74	1.61	1.11	2013
DAY 16	04:00	2.75	1.61	0.98	2013
	12:00	2.76	1.63	1.06	2013
	20:00	2.76	1.62	1.18	2013
DAY 17	04:00	2.80	1.63	0.99	2013
	12:00	2.76	1.62	1.08	2013
	20:00	2.79	1.63	1.19	2013
DAY 18	04:00	2.79	1.63	1.05	2013
	12:00	2.79	1.63	1.06	2013
	20:00	2.76	1.62	1.10	2013
DAY 19	04:00	2.79	1.64	0.96	2013
	12:00	2.76	1.61	1.00	2013
	20:00	2.78	1.62	0.94	2013
DAY 20	04:00	2.83	1.66	0.93	2013
	12:00	2.83	1.66	0.92	2013
	20:00	2.78	1.62	0.95	2013

		HEPA 1	HEPA 2	DUST	YEAR
DAY 21	04:00	2.80	1.64	0.95	2013
	12:00	2.82	1.65	0.99	2013
	20:00	2.78	1.63	1.02	2013
DAY 22	04:00	2.77	1.62	0.96	2013
	12:00	2.84	1.66	1.13	2013
	20:00	2.83	1.66	1.17	2013
DAY 23	04:00	2.82	1.64	1.10	2013
	12:00	2.86	1.66	1.22	2013
	20:00	2.82	1.64	1.31	2013
DAY 24	04:00	2.82	1.64	1.13	2013
	12:00	2.83	1.65	1.22	2013
	20:00	2.79	1.63	1.29	2013
DAY 25	04:00	2.83	1.66	1.12	2013
	12:00	2.86	1.67	1.20	2013
	20:00	2.80	1.64	1.28	2013
DAY 26	04:00	2.81	1.65	1.09	2013
	12:00	2.79	1.63	1.15	2013
	20:00	2.80	1.64	1.27	2013
DAY 27	04:00	2.85	1.66	1.11	2013
	12:00	2.81	1.64	1.22	2013
	20:00	2.82	1.65	1.16	2013
DAY 28	04:00	2.77	1.63	1.05	2013
	12:00	2.85	1.67	1.15	2013
	20:00	2.78	1.63	1.22	2013
DAY 29	04:00	2.82	1.66	1.02	2013
	12:00	2.87	1.67	1.24	2013
	20:00	2.87	1.67	1.10	2013
DAY 30	04:00	2.83	1.65	0.98	2013
	12:00	2.85	1.66	1.04	2013
	20:00	2.81	1.63	1.19	2013

		HEPA 1	HEPA 2	DUST	YEAR
DAY 31	04:00	2.80	1.64	1.03	2013
	12:00	2.79	1.64	1.14	2013
	20:00	2.79	1.63	1.17	2013

JAN FEB MAR

APR MAY JUN

JUL AUG SEP

OCT NOV DEC

MONTH DISPLAYED IS
MAY

PRINT SCREEN MAIN

10:11:10 AM Saturday, June 01, 2013

LA-UR-13-25881

NM STATE REPORTING

		HEPA 1	HEPA 2	DUST	YEAR
DAY 1	04:00	2.79	1.64	1.00	2013
	12:00	2.80	1.62	1.06	2013
	20:00	2.82	1.64	1.18	2013
DAY 2	04:00	2.89	1.67	1.02	2013
	12:00	2.85	1.65	1.11	2013
	20:00	2.82	1.65	1.16	2013
DAY 3	04:00	2.79	1.64	1.03	2013
	12:00	2.82	1.65	1.21	2013
	20:00	2.84	1.65	1.26	2013
DAY 4	04:00	2.83	1.65	1.02	2013
	12:00	2.87	1.67	1.31	2013
	20:00	2.81	1.63	1.26	2013
DAY 5	04:00	2.80	1.62	1.14	2013
	12:00	2.89	1.67	1.23	2013
	20:00	2.80	1.63	1.19	2013
DAY 6	04:00	2.83	1.65	1.02	2013
	12:00	2.87	1.67	1.31	2013
	20:00	2.81	1.63	1.26	2013
DAY 7	04:00	2.83	1.65	1.06	2013
	12:00	2.82	1.65	1.37	2013
	20:00	2.77	1.62	1.12	2013
DAY 8	04:00	2.77	1.62	1.04	2013
	12:00	2.83	1.65	1.17	2013
	20:00	2.78	1.62	1.26	2013
DAY 9	04:00	2.82	1.64	1.15	2013
	12:00	2.82	1.64	1.21	2013
	20:00	2.81	1.63	1.30	2013
DAY 10	04:00	2.83	1.65	1.19	2013
	12:00	2.84	1.65	1.60	2013
	20:00	2.81	1.64	1.32	2013
DAY 11	04:00	2.81	1.64	1.12	2013
	12:00	2.91	1.68	1.36	2013
	20:00	2.83	1.64	1.48	2013
DAY 12	04:00	2.84	1.63	1.30	2013
	12:00	2.87	1.71	1.39	2013
	20:00	2.95	1.70	1.38	2013
DAY 13	04:00	2.94	1.71	1.20	2013
	12:00	2.86	1.66	1.46	2013
	20:00	2.87	1.66	1.34	2013
DAY 14	04:00	2.86	1.66	1.23	2013
	12:00	2.84	1.65	1.41	2013
	20:00	2.88	1.66	1.25	2013
DAY 15	04:00	2.80	1.63	1.10	2013
	12:00	2.83	1.65	1.28	2013
	20:00	2.78	1.61	1.36	2013
DAY 16	04:00	2.81	1.63	1.19	2013
	12:00	2.86	1.66	1.34	2013
	20:00	2.84	1.65	1.38	2013
DAY 17	04:00	2.80	1.64	1.21	2013
	12:00	2.87	1.67	1.48	2013
	20:00	2.81	1.63	1.35	2013
DAY 18	04:00	2.87	1.66	1.19	2013
	12:00	2.86	1.66	1.21	2013
	20:00	2.84	1.65	1.37	2013
DAY 19	04:00	2.83	1.65	1.17	2013
	12:00	2.89	1.67	1.38	2013
	20:00	2.86	1.66	1.45	2013
DAY 20	04:00	2.82	1.64	1.23	2013
	12:00	2.79	1.62	1.38	2013
	20:00	2.72	1.59	1.40	2013
DAY 21	04:00	2.79	1.62	1.19	2013
	12:00	2.78	1.63	1.31	2013
	20:00	2.76	1.61	1.39	2013
DAY 22	04:00	2.74	1.60	1.20	2013
	12:00	2.76	1.61	1.27	2013
	20:00	2.75	1.60	1.33	2013
DAY 23	04:00	2.77	1.61	1.18	2013
	12:00	2.73	1.61	1.27	2013
	20:00	2.77	1.61	1.38	2013
DAY 24	04:00	2.78	1.62	1.22	2013
	12:00	2.76	1.60	1.32	2013
	20:00	2.79	1.63	1.35	2013
DAY 25	04:00	2.79	1.62	1.22	2013
	12:00	2.79	1.62	1.31	2013
	20:00	2.82	1.64	1.44	2013
DAY 26	04:00	2.81	1.64	1.32	2013
	12:00	2.70	1.58	1.42	2013
	20:00	2.78	1.61	1.52	2013
DAY 27	04:00	2.81	1.63	1.42	2013
	12:00	2.82	1.63	1.51	2013
	20:00	2.92	1.68	1.39	2013
DAY 28	04:00	3.03	1.75	1.24	2013
	12:00	2.90	1.68	1.22	2013
	20:00	2.91	1.68	1.14	2013
DAY 29	04:00	2.87	1.67	1.00	2013
	12:00	2.87	1.65	1.19	2013
	20:00	2.88	1.66	1.08	2013
DAY 30	04:00	2.90	1.67	1.00	2013
	12:00	2.85	1.65	1.15	2013
	20:00	2.90	1.66	1.12	2013

JAN FEB MAR

APR MAY JUN

JUL AUG SEP

OCT NOV DEC

MONTH DISPLAYED IS
JUNE

PRINT SCREEN MAIN

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

LA-UR-13-25881

LA-UR-13-25881

ATTACHMENT A707.C.b.

Beryllium

TA-55-PF4 HEPA Filtration Differential Pressure Readings

Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004 REV15, IPC-1
Date of issue:	01.01.13
Working copy issued to:	SEYBERT
Working copy issued by:	CHANCE
	Certified Operations Center Operator

Operations Center Operator Review

[signature] [signature] / 2-10-13

Signature Date

Required Reading for this Surveillance has been completed.

Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R BRISCOE	BC	1.1.13
B CHANCE	BC	1.1.13
D DUNLAVY	BC	1.1.13
A DUNSETH	BC	1.1.13
R LUM	BC	1.1.13
A ORTIZ	BC	1.1.13
F SEYBERT	BC	1.1.13
M WITTMAN	BC	1.1.13
N CHAVEZ	BC	1.1.13
R HOHNER	BC	1.1.13

Comments:

Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004 R15.1
Date of issue:	6-1-13
Working copy issued to:	A. ORTIZ
Working copy issued by:	R. LUM
	Certified Operations Center Operator

Operations Center Operator Review

[signature] / 7-3-13

Signature Date

Required Reading for this Surveillance has been completed.

Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R. BRISCOE	[signature]	6-1-13
B. CHANCE	[signature]	
D DUNLAVY	[signature]	
A. DUNSMITH	[signature]	
R. LUM	[signature]	
A. ORTIZ	[signature]	
F SEYBRT	[signature]	6-1-13
M WITTMAN		
J SMELTZ		

Comments:

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

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R. HOHNER		6-1-13
J. MARTINEZ		
T. LANGWORTHY		
P. TRUJILLO		
N MONTOYA		
A. SANCHEZ		
G. CORIZ		
M IRISH		
A. HERRERA		6-1-13

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:											6/1/2013		6-2-13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:														
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]											-2.01	-2.02	-2.01	-2.01
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]											-1.89	-1.88	-1.89	-1.88
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]											-1.98	-1.98	-1.98	-1.99
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]											-1.97	-1.98	-1.98	-1.98
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]											-0.19	-.19	-.19	-.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]											-0.23	-.22	-.22	-.22
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]											-0.21	-.20	-.21	-.20
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]											-0.20	-.19	-.20	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc											-0.19	-.19	-.19	-.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc											-0.10	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc											-0.11	-.10	-.11	-.11
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc											-0.123	-.125	-.125	-.124

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:										6/1/2013		6-2-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:											JF	R	CA	R
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

				Date:												6/1/2013		6-2-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:											JP	R	CA	R
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
		Completion Time													0738	1930	0732	1932

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: [signature] Date 6-2-13 Time 1930 Reviewed by: [signature] Date: 6-3-13 Time: 0916
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	6/3/13		6/4/13		6/5/13		6/6/13		6/7/13		6/8/13		6/9/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:							KB							
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.00	-2.01	-2.01	-2.01	-2.01	-2.03	-2.00	-2.01	-2.01	-2.01	-1.99	-2.01	-2.00	-2.00
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.88	-1.89	-1.88	-1.89	-1.89	-1.89	-1.88	-1.89	-1.89	-1.88	-1.88	-1.89	-1.88	-1.88
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-1.97	-1.98	-1.98	-1.99	-1.98	-1.98	-1.99	-1.98	-1.98	-1.99	-1.98	-1.99
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.98	-1.97	-1.98	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	-1.97	-1.98
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-0.18	-.19	-0.19	-.19	-.18	-.18	-.18	-.12	-0.19	-.19	-0.18	-.19	-0.19	-.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-0.22	-.23	-0.22	-.22	-.22	-.21	-.22	-.17	-0.22	-.23	-0.22	-.22	-0.22	-.23
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-0.22	-.20	-0.22	-.20	-.20	-.18	-.21	-.20	-0.21	-.21	-0.20	-.20	-0.20	-.21
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-0.21	-.20	-0.19	-.20	-.20	-.19	-.21	-.19	-0.21	-.21	-0.20	-.20	-0.20	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-0.20	-.19	-0.21	-.19	-.19	-.19	-.19	-.18	-0.19	-.19	-0.19	-.19	-0.19	-.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-0.11	-.10	-0.11	-.10	-.10	-.10	-.11	-.10	-0.10	-.10	-0.10	-.10	-0.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-0.13	-.12	-0.13	-.12	-.12	-.12	-.12	-.11	-0.12	-.12	-0.11	-.12	-0.11	-.12
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-0.129	-.122	-0.128	-.126	-.125	-.125	-.127	-.118	-0.128	-.125	-0.125	-.122	-0.119	-.129

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	6/3/13		6/4/13		6/5/13		6/6/13		6/7/13		6/8/13		6/9/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:		DAO		DAO			KB			DAO		DAO		DAO
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

					Date:	6/3/13		6/4/13		6/5/13		6/6/13		6/7/13		6/8/13		6/9/13	
					Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
					Initials:							KB							
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0639	1934	0638	1943	0733	1930	0730	1930	0635	1942	0725	1939	0718	1945	

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: [signature] Date 6/9/13 Time 1945 Reviewed by: [signature] Date: 6-10-13 Time: 0715
On-duty Supervisor

Comments: _____

LA-UR-13-25881

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		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.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	[illegible]		[illegible]		BC	[illegible]	BC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.01	-2.01	-2.00	-2.00	-2.01	-2.02	-2.01	-2.00	-2.02	-2.02	-2.00	-2.02	-2.02	-2.00
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.88	-1.89	-1.88	-1.88	-1.89	-1.91	-1.88	-1.87	-1.89	-1.89	-1.89	-1.87	-1.89	-1.96
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-1.99	-1.98	-1.98	-1.97	-1.98	-1.97	-1.99	-2.00	-1.99	-1.97	-1.99	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-2.00	-1.96	-1.99	-1.90	-1.98	-2.02	-2.02	-2.02 -1.9*	-2.03	-2.02	-2.01	-2.01
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.18	-.19	-.19	-.19	-.20	-.20	-.18	-.20	-.19	-.19* -.22*	-0.18	-.18	-.18	-.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.21	-.22	-.23	-.23	-.23	-.23	-.21	-.24	-.23	-.22 -.20*	-0.22	-.22	-.21	-.23
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.19	-.20	-.22	-.21	-.22	-.22	-.19	-.23	-.21	-.21 -.19*	-0.20	-.20	-.19	-.20
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.18	-.20	-.22	-.20	-.21	-.21	-.19	-.22	-.21	-.19	-0.19	-.20	-.19	-.22
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-0.19	-.19	-.19	-.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	-.10	-.10	-.10	-.10	-.10	-.09	-.10	-.10	-.08	-0.09	-.10	-.08	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.11	-.12	-.12	-.11	-.10	-.11	-.09	-.10	-.10	-.09	-0.09	-.10	-.09	-.11
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.118	-.129	-.115	-.109	-.112	-.119	-.104	-.112	-.117	-.099	-0.099	-.106	-.097	-.112

* 6-14-13

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				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.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	a	a	a	a	BC	BC	BC	a	a	a	a	a	a	a
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

Note				Date:	6-10-13		6-11-13		6-12-13		6-13-13		6-14-13		6-15-13		6/16/13	
Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	[illegible]	[illegible]	[illegible]	[illegible]	BC	[illegible]	BC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS Sat / Unsat. (circle one)													
4.1.1.4	Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
		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	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(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	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
		Completion Time			0630	1949	0630	1955	0719	1941	0720	1941	0630	1943	0752	1942	0734	1952

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: [signature] Date 6-16-13 Time 1952 Reviewed by: [signature] Date 6-17-13 Time: 1410

On-duty Supervisor

Comments: ______________________________

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	6-17-13		6-18-13		6/19/13		6/20/13		6/21/13		6/22/13		6/23/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	[illegible]	BC	[illegible]	BC	RB	[illegible]	[illegible]	[illegible]	[illegible]	BC	[illegible]	BC	[illegible]	BC
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.02	-2.02	-2.03	-2.03	-2.01	-2.03	-2.02	-2.02	-2.03	-2.02	-2.02	-2.01	-2.02	-2.02
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.89	-1.87	-1.87	-1.88	-1.88	-1.90	-1.87	-1.87	-1.89	-1.88	-1.88	-1.88	-1.88	-1.89
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.99	-1.99	-1.97	-1.98	-1.99	-1.99	-1.98	-1.98	-1.98	-1.99	-1.98	-1.99	-1.98	-1.99
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.98	-2.03	-2.03	-2.00	-1.98	-2.02	-2.02	-2.00	-2.01	-1.99	-1.91	-2.03	-1.98	-1.90
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.17	-.19	-.18	-.14	-.16	-.20	-.19	-.18	-0.19	-.19	-.18	-.19	-.17	-.18
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.20	-.22	-.22	-.20	-.21	-.23	-.23	-.22	-0.22	-.23	-.21	-.22	-.21	-.21
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.19	-.21	-.21	-.21	-.20	-.21	-.22	-.21	-0.22	-.22	-.21	-.21	-.20	-.20
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.19	-.20	-.20	-.21	-.19	-.19	-.21	-.20	-0.20	-.20	-.20	-.19	-.19	-.19
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-0.19	-.19	-.19	-.18	-.19	-.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.08	-.09	-.09	-.10	-.10	-.09	-.10	-.09	-0.09	-.10	-.09	-.09	-.09	-.09
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.08	-.10	-.09	-.10	-.09	-.10	-.10	-.09	-0.09	-.10	-.09	-.09	-.09	-.10
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.091	-.108	-.104	-.107	-.098	-.107	-.105	-.113	-0.100	-.110	-.100	-.115	-.110	-.111

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	6-17-13		6-18-13		6/19/13		6/20/13		6/21/13		6/22/13		6/23/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	R	BC	R	BC	BC	C	DAO	C	E	BC	DAO	BC	DAO	BC
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

Date:			6-17-13		6-18-13		6/19/13		6/20/13		6/21/13		6/22/13		6/23/13	
Weekday:			Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
Shift:			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Initials:			[illegible]	BC	[illegible]	BC	BS	[illegible]	RAO	[illegible]	[illegible]	BC	RAO	BC	RAO	BC
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**												
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0700	1925	0700	1930	0735	2030	0715	1982	0735	1930	0735	1922	0730	1926

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: [signature] Date: 06.23.13 Time: 1926 Reviewed by: [signature] Date: 6-24-13 Time: 0700
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	6-24-13		6-25-13		6/26/13		6/27/13		6-28-13		6-29-13		6/30/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.02	-2.03	-2.02	-2.02	-2.02	-2.01	-2.01	-2.01	-2.01	-2.01	-2.01	-2.01	-2.00	-2.01
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.88	-1.84	-1.88	-1.88	-1.90	-1.89	-1.89	-1.89	-1.89	-1.87	-1.89	-1.89	-1.88	-1.89
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.99	-1.97	-1.99	-1.98	-1.99	-1.98	-1.99	-1.98	-1.98	-2.00	-2.00	-1.98	-1.97	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.97	-1.96	-2.00	-1.97	-1.93	-1.97	-1.98	-1.98	-1.98	-1.97	-1.98	-1.98	-1.98	-1.98
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.18	-0.20	-.19	-.18	-.19	-.17	-0.16	-.16	-.15	-0.15	-.16	-0.16	-.16	-0.16
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.21	-0.22	-.22	-.22	-.22	-.20	-0.19	-.18	-.18	-0.19	-.21	-0.21	-.21	-0.19
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.20	-0.22	-.21	-.21	-.21	-.22	-0.20	-.20	-.20	-0.20	-.21	-0.21	-.22	-0.21
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.19	-0.21	-.20	-.20	-.23	-.21	-0.18	-.18	-.19	-0.19	-.20	-0.20	-.21	-0.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-0.19	-.19	-.19	-.19	-.19	-0.19	-.19	-.19	-0.19	-.19	-0.19	-.19	-0.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.09	-0.09	-.09	-.10	-.09	-.08	-0.09	-.09	-.09	-0.09	-.09	-0.10	-.10	-0.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.09	-0.09	-.09	-.10	-.09	-.09	-0.09	-.10	-.09	-0.09	-.09	-0.10	-.11	-0.10
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.104	-0.082	-.114	-.109	-.103	-.099	-0.095	-.115	-.113	-0.101	-.103	-0.115	-.116	-0.114

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	6-24-13		6-25-13		6/26/13		6/27/13		6-28-13		6-29-13		6/30/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:														
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

				Date:	6-24-13		6-25-13		6/26/13		6/27/13		6-28-13		6-29-13		6/30/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:														
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS** Sat. / Unsat. (circle one)													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0650	1941	0650	1943	1931		0733	1929	0730	1940	0730	1937	0729	1939

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: _____ Date 6/30/13 Time 1939 Reviewed by: _____ Date 7-3-13 Time: 1040
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:
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:							
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA						005	005
	CP-305-H (LED Reading)							005	005
	(DET-305-3) – (CP-305H)	Record Calculated Value						005	005
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat. 005	Sat. / Unsat. 005
		Completion Time:						0800	0750

LA-UR-13-25881

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

(Page 2 of 4)

			Date:						6-1-13	6-2-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:						[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc						0.1	.04
		PDI-894-2	≤2.0 & > 0[1] in. wc						0.5	.80
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc						0.2	.08
		PDI-895-2	≤2.0 & > 0[1] in. wc						1.1	1.10
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-817-2	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-817-4	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-817-5	≤2.0 & > 0[1] in. wc						STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-81 9-3	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-819-4	≤2.0 & > 0[1] in. wc						STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc						0.24	.24
		PDI-818-2	≤2.0 & > 0[1] in. wc						0.3	.30
		PDI-818-4	≤2.0 & > 0[1] in. wc						0.3	.25
		PDI-818-5	≤2.0 & > 0[1] in. wc						0.3	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc						0.4	.40
		PDI-821-3	≤2.0 & > 0[1] in. wc						0.3	.38
		PDI-821-4	≤2.0 & > 0[1] in. wc						0.3	.42

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

(Page 3 of 4)

			Date:						6.1.13	6-2-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:						[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc						STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc						0.8	.86
		PDI-823-2	≤2.0 & > 0[1] in. wc						0.4	.41
		PDI-823-4	≤2.0 & > 0[1] in. wc						0.5	.50
		PDI-823—5	≤2.0 & > 0[1] in. wc						0.5	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc						0.25	.23
		PDI-830-2	≤2.0 & > 0[1] in. wc						0.2	.20
		PDI-830-3	≤2.0 & > 0[1] in. wc						0.2	.13
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc						0.88	.88
		PDI-836-2	≤2.0 & > 0[1] in. wc						0.5	.52
		PDI-836-3	≤2.0 & > 0[1] in. wc						0.5	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc						0.62	.62
		PDI-837-2	≤2.0 & > 0[1] in. wc						0.5	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc						0.5	.45

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

(Page 4 of 4)

			Date:						6.1.13	6-2-13
			Weekday:	Mon.	Tue.	Wed	Thu.	Fri.	Sat.	Sun.
			Initials:						[illegible]	a
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc						0.30	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc						0.4	.40
		PDI-838-3	≤2.0 & > 0[1] in. wc						0.4	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc						0.32	.32
		PDI-839-2	≤2.0 & > 0[1] in. wc						0.4	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc						0.4	.40
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc						0.2	.18
		PDI-810-2	≤2.0 & > 0[1] in. wc						0.5	.52
		PDI-810-3	≤2.0 & > 0[1] in. wc						0.5	.52
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc						OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc						OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc						OFF	OFF
			. Completion Time						0930	0828
OC Operator Review and Page Count Complete (initials)									a	a

[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 as stated in LCO 3.1.3.

Completed by: [signature] Date 6-2-13 Time 0828 Reviewed by: [signature] Date: 6-3-13 Time: 0917

On-duty Supervisor

Comments Flammable gas system OOS.

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:	6/3/13	6-4-13	6-5-13	6-6-13	6/7/13	6-8-13	6-9-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	JM	PT	JCC	PT	JM	PT	PT
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	008	005	005	005	008	005	005
	CP-305-H (LED Reading)		008	005	005	005	008	005	005
	(DET-305-3) – (CP-305H)	Record Calculated Value	008	005	005	005	008	005	005
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / Unsat. 008	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 008	Sat. / Unsat. 005	Sat. / Unsat. 005
		Completion Time:	6759	0830	0843	0900	0714	0751	0754

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

(Page 2 of 4)

			Date:	6/3/13	6-4-13	6-5-13	6-6-13	6/7/13	6-8-13	6-9-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	PT	JM	PT	JM	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06	.07	.07	.07	.07	.07	.07
		PDI-894-2	≤2.0 & > 0[1] in. wc	.50	.51	.51	.51	.50	.50	.50
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.08	.08	.09	.09	.08	.09	.10
		PDI-895-2	≤2.0 & > 0[1] in. wc	1.01	1.1	1.1	1.1	1.09	1.09	1.1
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	.24	.24	.24	.24	.24	.24	.24
		PDI-818-2	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
		PDI-818-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-818-5	≤2.0 & > 0[1] in. wc	.27	.28	.28	.28	.27	.28	.28
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	.39	.39	.39	.40	.40	.39	.39
		PDI-821-3	≤2.0 & > 0[1] in. wc	.42	.45	.45	.45	.42	.45	.45
		PDI-821-4	≤2.0 & > 0[1] in. wc	.39	.39	.39	.39	.39	.39	.39

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

(Page 3 of 4)

			Date:	6/3/13	6-4-13	6-5-13	6-6-13	6/7/13	6-8-13	6-9-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	PT	JM	PT	JM	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.87	.86	.86	.86	.87	.86	.89
		PDI-823-2	≤2.0 & > 0[1] in. wc	.44	.45	.45	.46	.44	.45	.48
		PDI-823-4	≤2.0 & > 0[1] in. wc	.49	.48	.48	.49	.49	.49	.49
		PDI-823—5	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.24	.23	.24	.24	.24	.24	.24
		PDI-830-2	≤2.0 & > 0[1] in. wc	.20	.19	.20	.19	.20	.19	.19
		PDI-830-3	≤2.0 & > 0[1] in. wc	.12	.12	.12	.12	.12	.12	.12
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.89	.93	.93	.95	.92	.93	.92
		PDI-836-2	≤2.0 & > 0[1] in. wc	.53	.58	.58	.58	.58	.59	.58
		PDI-836-3	≤2.0 & > 0[1] in. wc	.51	.52	.52	.52	.53	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.61	.38	.37	.38	.37	.37	.37
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.35	.36	.35	.36	.36	.36
		PDI-837-3	≤2.0 & > 0[1] in. wc	.46	.31	.31	.31	.31	.31	.31

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

(Page 4 of 4)

			Date:	6/3/13	6-4-13	6-5-13	6-6-13	6/7/13	6-8-13	6-9-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		PT		PT		PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.39	.38	.38	.39	.39	.39	.39
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.30	.31	.31	.31	.30	.30	.31
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.42	.42	.42	.41	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.19	.19	.19	.19	.19	.19	.19
		PDI-810-2	≤2.0 & > 0[1] in. wc	.51	.51	.52	.53	.52	.52	.52
		PDI-810-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			. Completion Time	0830	0826	0819	0922	0745	0746	0749
OC Operator Review and Page Count Complete (initials)				RSB BC	BC	RSB	RSB	BC	BC	BC

[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 as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date 6-9-13 Time 0749 Reviewed by: _____ Date: 6-10-13 Time: 0746

On-duty Supervisor

Comments _____

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

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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:	6-10-13	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:	[illegible]	[illegible]	[illegible]	PT	[illegible]	PT	PT
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	005	005	005	005	005	005	005
	CP-305-H (LED Reading)		005	005	005	005	005	005	005
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	005	005	005	005	005	005	005
		≥ -0.1; ≤+0.1	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005
		Completion Time:	0719	0719	0800	0759	0702	0805	0743

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

(Page 2 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:	nm	nm	Jm	PT	Jm	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.07	.07	.07	.07	.07	.07	.07
		PDI-894-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.48	.48
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.10	.10	.10	.10	.10	.10	.11
		PDI-895-2	≤2.0 & > 0[1] in. wc	1.1	1.1	1.1	1.1	1.09	1.0	1.0
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	STBY	.28	.29	.29	.29	.28	.29
		PDI-817-2	≤2.0 & > 0[1] in. wc	STBY	.31	.31	.31	.31	.31	.31
		PDI-817-4	≤2.0 & > 0[1] in. wc	STBY	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	STBY	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	STBY	.40	.41	.41	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	STBY	.40	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	STBY	.34	.35	.33	.36	.35	.35
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	.24	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	.31	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	.31	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	.28	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	.39	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	.45	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	.38	STBY	STBY	STBY	STBY	STBY	STBY

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

(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:	mm	mm	JM	PT	JM	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	.71	.71	.72	.69	.72	.72
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	.51	.51	.51	.51	.51	.51
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	.41	.43	.42	.43	.42	.42
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	.50	.50	.49	.49	.50	.50
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.89	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc	.45	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc	.49	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc	.50	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.24	.24	.24	.24	.24	.24	.24
		PDI-830-2	≤2.0 & > 0[1] in. wc	.19	.13	.14	.13	.14	.14	.14
		PDI-830-3	≤2.0 & > 0[1] in. wc	.12	.11	.11	.11	.11	.11	.11
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.93	.95	.94	.95	.94	.95	.94
		PDI-836-2	≤2.0 & > 0[1] in. wc	.58	.58	.58	.59	.58	.58	.58
		PDI-836-3	≤2.0 & > 0[1] in. wc	.55	.58	.58	.58	.56	.58	.58
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.37	.38	.38	.38	.38	.38	.38
		PDI-837-2	≤2.0 & > 0[1] in. wc	.37	.35	.35	.35	.34	.34	.34
		PDI-837-3	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31

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

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			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:	mm	16A	JM	PT	JM	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc	.31	.41	.41	.41	.42	.42	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.29	.39	.39	.39	PT .39 ~~.39~~ WRSP	.39
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.31	.30	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.18	.16	.17	.17	.17	.17	.17
		PDI-810-2	≤2.0 & > 0[1] in. wc	.51	.49	.49	.50	.50	.50	.51
		PDI-810-3	≤2.0 & > 0[1] in. wc	.51	.48	.49	.49	.49	.49	.50
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	off	OFF	off	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	off	OFF	off	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	off	OFF	off	OFF	OFF
			Completion Time	0751	0750	0815	0811	0744	0813	0730
OC Operator Review and Page Count Complete (initials)										

[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 as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date 6-16-13 Time 0750 Reviewed by: [signature] Date: 6-17-13 Time: 1423
On-duty Supervisor

Comments _____

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

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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:	6/17/13	6/18/13	6-19-13	6/20/13	6/21/13	6/22/13	6/23/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	JM	ACC	PT	JM	ACC	JM	[illegible]
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	005	005	005	0.0 JM 6/20/13 005	0.0	0.0	0.0
	CP-305-H (LED Reading)		009	005	005	0.0 JM 6/20/13 005	0.0	0.0	0.0
	(DET-305-3) – (CP-305H)	Record Calculated Value	009	009	005	0.0 JM 6/20/13 005	0.0	0.0	0.0
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / Unsat. 009	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0817	0826	0812	0801	0803	0801	0740

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

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SRs	Description	Gauge	Acceptance Criteria							
			Date:	6/17/13	6/18/13	6-19-13	6/20/13	6/21/13	6/22/13	6/23/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	PT	PT	[illegible]	[illegible]	[illegible]
				SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06	.06	.07	.07	.06	.07	.07
		PDI-894-2	≤2.0 & > 0[1] in. wc	.48	.48	.48	.48	.49	.47	.47
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.10	.10	.10	.11	.11	.11	.11
		PDI-895-2	≤2.0 & > 0[1] in. wc	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.28	.27	.28	.28	.29	.28	.28
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.30	.31	.31	.32	.32	.32
		PDI-817-4	≤2.0 & > 0[1] in. wc	.32	.31	.31	.31	.31	.32	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & > 0[1] in. wc	.41	.40	.40	.40	.40	.40	.40
		PDI-819-3	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41	.40	.41	.40
		PDI-819-4	≤2.0 & > 0[1] in. wc	.36	.32	.33	.33	.32	.35	.35
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby

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

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			Date:	6/17/13	6/18/13	6-19-13	6/20/13	6/21/13	6/22/13	6/23/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	PT	PT	[illegible]	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.72	.68	.69	.68	.70	.70	.70
		PDI-822-2	≤2.0 & > 0[1] in. wc	.51	.50	.51	.50	.50	.51	.51
		PDI-822-4	≤2.0 & > 0[1] in. wc	.41	.42	.42	.42	.42	.42	.42
		PDI-822-5	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.50	.49	.48
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.24	.24	.24	.24	.25	.23	.23
		PDI-830-2	≤2.0 & > 0[1] in. wc	.11	.15	.13	.13	.15	.14	.14
		PDI-830-3	≤2.0 & > 0[1] in. wc	.15	.11	.11	.11	.11	.12	.12
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.94	.92	.93	.93	.93	.93	.95
		PDI-836-2	≤2.0 & > 0[1] in. wc	.58	.58	.58	.58	.58	.57	.57
		PDI-836-3	≤2.0 & > 0[1] in. wc	.56	.55	.55	.55	.55	.55	.55
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.38	.48	.48	.48	.48	.48	.47
		PDI-837-2	≤2.0 & > 0[1] in. wc	.34	.40	.41	.41	.40	.41	.41
		PDI-837-3	≤2.0 & > 0[1] in. wc	.31	.39	.39	.39	.39	.39	.39

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)
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SRs	Description	Gauge	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Date:	6/15/13	6/18/13	6-19-13	6/20/13	6/21/13	6/22/13	6/23/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	PT	PT	[illegible]	[illegible]	[illegible]
				SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc	.42	.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.39	.40	.39	.39	.39	.39	.33
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.30	.30	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.18	.17	.17	.17	.17	.17	.17
		PDI-810-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-810-3	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.49	.49	.49
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	~~[illegible]~~ off [illegible] 6/17/13	off	OFF	OFF	off	off	off
		PDI -811 -2	≤2.0 & > 0[1] in. wc	off	off	OFF	OFF	off	off	off
		PDI -811 -3	≤2.0 & > 0[1] in. wc	off	off	OFF	OFF	off	off	off
			Completion Time	0850	0841	0824	0817	0818	0805	0734
OC Operator Review and Page Count Complete (initials)				[illegible]	[illegible]	RB	[illegible]	[illegible]	[illegible]	[illegible]

[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 as stated in LCO 3.1.3

Completed by: Michael Irish Date 06/23/13 Time 0735 Reviewed by: [illegible] Date 6-24-13 Time: 0702

On-duty Supervisor

Comments ______

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

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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	6/26/13	6-27-13	6-28-13	6-29-13	6-30-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[illegible]	[illegible]	[illegible]	PT	[illegible]	PT	PT
	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1; ≤+0.1	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0815	0811	0810	0833	0806	0805	0758

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

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			Date:	6/24/13	6/25/13	6/26/13	6-27-13	6/28/13	6-29-13	6-30-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		RH	RH	PT		PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06	.07	.08	.08	.08	.08	.08
		PDI-894-2	≤2.0 & > 0[1] in. wc	.47	.48	.49	.49	.50	.49	.49
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.11	.11	.11	.11	.10	.11	.11
		PDI-895-2	≤2.0 & > 0[1] in. wc	1.0	1.0	1.0	.92	.92	.92	.92
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.29	.29	.29	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.31	.31	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0[1] in. wc	.32	.31	.31	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	STBY	STBY	STBY	STBY
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.40	.41	.41	STBY	STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35	.34	.34	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.24	.25	.24	.24
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.30	.30	.30	.30
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	PT .32 ~~.39~~ 6-27-13	.32	.31	.31
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.31	.28	.28	.28
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.45	.39	.39	.40
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.42	.42	.42	.42
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.39	.39	.39	.39

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

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			Date:	6/24/13	6/25/13	6/26/13	6-27-13	6/28/13	6-29-13	6-30-13
			Weekday:	Mon.	Tue.	Wed	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	RH	RH	PT	JM	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.68	.69	.69	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc	.42	.42	.42	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc	.49	.50	.50	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.89	.89	.89	.89
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.45	.45	.45	.45
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.49	.48	.49	.49
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.50	.50	.50	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.23	.24	.24	.24	.25	.24	.23
		PDI-830-2	≤2.0 & > 0[1] in. wc	.16	.16	.16	.14	.16	.15	.15
		PDI-830-3	≤2.0 & > 0[1] in. wc	.12	.11	.11	.11	.11	.11	.11
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.92	.92	.92	.93	.92	.93	.93
		PDI-836-2	≤2.0 & > 0[1] in. wc	.56	.58	.58	.58	.58	.58	.58
		PDI-836-3	≤2.0 & > 0[1] in. wc	.54	.55	.55	.55	.55	.55	.55
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.48	.48	.48	.48	.49	.49	.49
		PDI-837-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.40	.41	.41
		PDI-837-3	≤2.0 & > 0[1] in. wc	.38	.39	.39	.39	.40	.39	.39

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

(Page 4 of 4)

			Date:	6/24/13	6/25/13	6/26/13	6-27-13	6/28/13	6-29-13	6-30-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	RH	RH	PT	[illegible]	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc	.42	.41	.42	.42	.42	.42	.42
		PDI-838-3	≤2.0 & > 0[1] in. wc	.39	.39	.39	.39	.39	.39	.39
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.31	.30	.30	.30	.31	.31	.31
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.17	.18	.17	.16	.16	.17	.17
		PDI-810-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-810-3	≤2.0 & > 0[1] in. wc	.49	.50	.50	.49	.49	.49	.49
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	off	off	off	OFF	off	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	off	off	off	OFF	off	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	off	off	off	OFF	off	OFF	OFF
			Completion Time	0840	0845	0859	0847	0831	0757	0738
OC Operator Review and Page Count Complete (initials)				[initials]	[initials]	[initials]	[initials]	[initials]	[initials]	[initials]

[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 as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date 6-30-13 Time 0738 Reviewed by: [signature] Date: 7-3-13 Time: 1041

On-duty Supervisor

Comments _____

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

(Page 1 of 4)

			Date:						6.1.13	6/2/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:						[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc						0.18	.16
		PDI-840-2	≤2.0 & > 0 in[1]. wc						0.5	.52
		PDI-840-3	≤2.0 & > 0[1] in. wc						0.5	.51
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-841-2	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-841-3	≤2.0 & > 0[1] in. wc						STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc						0.32	.32
		PDI-831-2	≤2.0 & > 0[1] in. wc						0.4	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc						0.4	.35
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc						0.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc						0.5	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc						0.5	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc						0.10	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc						0.8	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc						0.5	.50
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc						OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc						OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc						OFF	OFF

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

(Page 2 of 4)

			Date:						6·1·13	6/2/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:						[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc						0.2	.11
		PDI-829-2	≤2.0 & > 0[1] in. wc						0.4	.32
		PDI-829-3	≤2.0 & > 0[1] in. wc						0.3	.30
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc						0.92	.92
		PDI-833-2	≤2.0 & > 0[1] in. wc						0.5	.49
		PDI-833-3	≤2.0 & > 0[1] in. wc						0.5	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc						0.14	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc						0.5	.45
		PDI-835-3	≤2.0 & > 0[1] in. wc						0.4	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc						0.2	.19
		PDI-815-2	≤2.0 & > 0[1] in. wc						0.5	.41
		PDI-815-4	≤2.0 & > 0[1] in. wc						0.4	.38
		PDI-815-5	≤2.0 & > 0[1] in. wc						0.4	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-816-2	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-816-4	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-816-5	≤2.0 & > 0[1] in. wc						STBY	STBY

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

(Page 3 of 4)

			Date:						6-1-13	6/2/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-812-2	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-812-3	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-812-4	≤2.0 & > 0[1] in. wc						STBY	STBY
		PDI-812-5	≤2.0 & > 0[1] in. wc						STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc						0.72	.67
		PDI-813-2	≤2.0 & > 0[1] in. wc						0.3	.29
		PDI-813-3	≤2.0 & > 0[1] in. wc						0.3	.26
		PDI-813-4	≤2.0 & > 0[1] in. wc						0.2	.30
		PDI-813-5	≤2.0 & > 0[1] in. wc						0.3	.21
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc						0.1	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc						0.3	.35
		PDI-865-3	≤2.0 & > 0[1] in. wc						0.4	.41
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc						0.1	.05
		PDI-863-2	≤2.0 & >0[1] in. wc						0.4	.45

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

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			Date:						6.1.13	6/2/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc						0.2	.13
		PDI-857-2	≤2.0 & > 0[1] in. wc						0.5	.50
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc						0.1	.05
		PDI-856-2	≤2.0 & > 0[1] in. wc						0.7	.71
[1]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
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 6.1.13					SAT	SAT
			Completion time						0930	0826
			OC Operator Review and Page Count Complete (initials)							

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: _____ Date 6/2/13 Time 0826 Reviewed by: _____ Date: 6-3-13 Time: 0918

On-duty Supervisor

Comments: _____

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

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			Date:	6/3/13	6-4-13	6/5/13	6-6-13	6/7/13	6-8-13	6-9-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	PT	BH	PT	JM	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.15	.15	.14	.16	.16	.16	.15
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-840-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.32	.33	.32	.32	.33	.33	.33
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.41	.40	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35	.36	.36	.36
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.24	.24	.24	.24	.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80	.81	.80	.81	.80	.81	.81
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.50	.49	.50	.49	.49	.50
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	off	OFF	off	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	off	OFF	off	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	OFF	off	OFF	OFF	OFF	OFF

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

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			Date:	6/3/13	6-4-13	6/5/13	6-6-13	6/7/13	6-8-13	6-9-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JN	PT	RH	PT	JN	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.10	.11	.11	.11	.11	.11	.11
		PDI-829-2	≤2.0 & > 0[1] in. wc	.32	.32	.34	.35	.35	.32	.32
		PDI-829-3	≤2.0 & > 0[1] in. wc	.29	.30	.31	.31	.31	.30	.30
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.92	.92	.92	.92	.92	.92	.93
		PDI-833-2	≤2.0 & > 0[1] in. wc	.48	.48	.47	.48	.48	.48	.48
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.44	.44	.44
	100 area re-circnlation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	~~.92~~ .13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.44	.44	.45	.45	.45	.44	.44
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	.19	.19	.20	.19	.19	.20	.20
		PDI-815-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-815-4	≤2.0 & > 0[1] in. wc	.38	.38	.38	.38	.38	.38	.38
		PDI-815-5	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-816-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY

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

(Page 3 of 4)

			Date:	6/3/13	6-4-13	6/5/13	6-6-13	6/7/13	6-8-13	6-9-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	Gm	PT	RH	PT	Gm	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF85I) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.67	.67	.67	.67	.67	.66	.66
		PDI-813-2	≤2.0 & > 0[1] in. wc	.29	.29	.30	.30	.29	.29	.29
		PDI-813-3	≤2.0 & > 0[1] in. wc	.25	.25	.29	.29	.28	.28	.28
		PDI-813-4	≤2.0 & > 0[1] in. wc	.29	.29	.29	.29	.29	.29	.29
		PDI-813-5	≤2.0 & > 0[1] in. wc	.21	.21	.22	.22	.22	.22	.22
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.03	.03	.04	.04	.04	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc	.33	.33	.33	.35	.34	.34	.32
		PDI-865-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.42	.41	.41	.41
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.04	.04	.05	.05	.04	.05	.04
		PDI-863-2	≤2.0 & >0[1] in. wc	.45	.43	.43	.43	.44	.42	.41

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

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			Date:	6/3/13	6-4-13	6/5/13	6-6-13	6/7/13	6-8-13	6-9-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	PT	RH	PT	JM	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤2.0 & > 0[1] in. wc	.13	.13	.14	.13	.13	.13	.14
		PDI-857-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.05	.06	.06	.06	.06	.06	.06
		PDI-856-2	≤2.0 & > 0[1] in. wc	.71	.72	.72	.71	.72	.72	.72
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0817	0828	0849	0959	0733	0807	0753
			OC Operator Review and Page Count Complete (initials)	BB BC	BC	BB	AG	BC	BC	BC PT 6/9/13

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Paul Trujillo Date 6-9-13 Time 0759 Reviewed by: On-duty Supervisor Date: 6-10-13 Time: 0730

Comments: _____

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

(Page 1 of 4)

			Date:	6-10-13	6-11-13	6-12-13	6/13/13	6/14/13	06/15/13	6-16-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	mm	mm	mm	JA	JA	mm	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.25	.15	.15	.15	.15	.16	.16
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52	.52	.52	.52	.52	.53	.52
		PDI-840-3	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	52	52
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	STBY
		PDI-841-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	STBY
		PDI-841-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.33	.33	.33	.33	.33	.32	.33
		PDI-831-2	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.38	.38	.38	.39	.37	.38
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.24	.24	.25	.24	.24	.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc	.52	.51	.52	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.50	.49	.49	.49	.50	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.10	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.81	.81	.81	.81	.81	.80	.81
		PDI-807-3	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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

(Page 2 of 4)

			Date:	6-10-13	6-11-13	6-12-13	6/13/13	6/14/13	06/15/13	6-16-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	nm	nm	gm	gm	MH	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.10	.13	.14	.13	.13	.13	.13
		PDI-829-2	≤2.0 & > 0[1] in. wc	.31	.39	.40	.39	.39	.39	.39
		PDI-829-3	≤2.0 & > 0[1] in. wc	.28	.34	.35	.35	.35	.35	.35
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.92	.92	.93	.92	.92	.92	.91
		PDI-833-2	≤2.0 & > 0[1] in. wc	.47	.47	.48	.48	.47	.47	.48
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.47	.48	.47	.47	.47	.48
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.45	.45	.45	.44	.43	.43	.44
		PDI-835-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	.20	STBY	STBY	STBY	STBY	Stby	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc	.41	STBY	STBY	STBY	STBY	Stby	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	.37	STBY	STBY	STBY	STBY	Stby	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	.40	STBY	STBY	STBY	STBY	Stby	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	STBY	.39	.37	.39	.39	.37	.38
		PDI-816-2	≤2.0 & > 0[1] in. wc	STBY	.43	.45	.43	.43	.42	.42
		PDI-816-4	≤2.0 & > 0[1] in. wc	STBY	.46	.45	.45	.45	.43	.42
		PDI-816-5	≤2.0 & > 0[1] in. wc	STBY	.47	.47	.47	.47	.43	.45

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

(Page 3 of 4)

			Date:	6-10-13	6-11-13	6-12-13	6/13/13	6/14/13	06/15/13	6-16-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	nm	nm	[illegible]	[illegible]	[illegible]	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	STBY	.14	.14	.14	.14	.14	.14
		PDI-812-2	≤2.0 & > 0[1] in. wc	STBY	.31	.31	.32	.32	.30	PT .32 ~~.29~~ 6-16-13
		PDI-812-3	≤2.0 & > 0[1] in. wc	STBY	.31	.31	.32	.32	.30	.35
		PDI-812-4	≤2.0 & > 0[1] in. wc	STBY	.31	.31	.31	.31	.31	.31
		PDI-812-5	≤2.0 & > 0[1] in. wc	STBY	.29	.29	.29	.29	.28	.29
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.67	STBY	STBY	STBY	STBY	Stby	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc	.29	STBY	STBY	STBY	STBY	Stby	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc	.29	STBY	STBY	STBY	STBY	Stby	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc	.29	STBY	STBY	STBY	STBY	Stby	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc	.22	STBY	STBY	STBY	STBY	Stby	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.03	.04	.04	.04	.03	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc	.35	.32	.35	.35	.34	33	.35
		PDI-865-3	≤2.0 & > 0[1] in. wc	.42	.40	.42	.42	.41	.41	.42
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.04	.04	.04	.04
		PDI-863-2	≤2.0 & >0[1] in. wc	.42	.42	.42	.42	.44	.42	.42

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

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			Date:	6-10-13	6-11-13	6-12-13	6/13/13	6/14/13	06/15/13	6-16-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	nm	nm	jm	jm	mw	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤2.0 & > 0[1] in. wc	.18	.18	.18	.15	.16	.16	.16
		PDI-857-2	≤2.0 & > 0[1] in. wc	.52	.52	.52	.51	.51	.50	.50
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.06	.06	.07	.06	.06	.06	.07
		PDI-856-2	≤2.0 & > 0[1] in. wc	.75	.75	.76	.75	.73	.70	.71
[1]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	Sat	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	SAT	SAT	SAT	SAT	SAT	Sat	SAT
			Completion time	0816	0738	0805	0817	0730	0815	0800
			OC Operator Review and Page Count Complete (initials)	BC	BC	BC RG	BC	BC	BC	BC

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Paul Trujillo Date 6-16-13 Time 0800 Reviewed by: [signature] Date: 6-17-13 Time: 1425

On-duty Supervisor

Comments: _____

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

(Page 1 of 4)

			Date:	6/17/13	6/18/13	6/19/13	6/20/13	6/21/13	6/22/13	6/23/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	BH	JM	JM	JM	JM
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.16	.16	.16	.16	.16	.16	.16
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-840-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.32	.32	.32	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.39	.38	.38	.38	.39	.38	.38
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.24	.24	.24	.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.50	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80	.80	.81	.81	.80	.80	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.50	.50	.50	.49	.49	.48
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	off	off	off	off	off	off	off
		PDI-809-2	≤2.0 & > 0[1] in. wc	off	off	off	off	off	off	off
		PDI-809-3	≤2.0 & > 0[1] in. wc	off	off	off	off	off	off	off

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

(Page 2 of 4)

			Date:	6/17/13	6/18/13	6/19/13	6/20/13	6/21/13	6/22/13	6/23/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	BH	JM	JM	JM	JM
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.14	.14	.13	.13	.13	.13	.14
		PDI-829-2	≤2.0 & > 0[1] in. wc	.39	.39	.39	.39	.39	.39	.40
		PDI-829-3	≤2.0 & > 0[1] in. wc	.35	.32	.35	.35	.35	.36	.36
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.91	.91	.92	.91	.91	.91	.91
		PDI-833-2	≤2.0 & > 0[1] in. wc	.48	.48	.46	.48	.49	.48	.48
		PDI-833-3	≤2.0 & > 0[1] in. wc	.47	.45	.44	.46	.45	.46	.46
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.44	.45	.46	.43	.42	.42	.42
		PDI-835-3	≤2.0 & > 0[1] in. wc	.41	.41	.42	.41	.40	.41	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.39	.38	.39	.39	.39	.39	.39
		PDI-816-2	≤2.0 & > 0[1] in. wc	.42	.42	.45	.45	.45	.45	.42
		PDI-816-4	≤2.0 & > 0[1] in. wc	.44	.42	.44	.46	.45	.46	.46
		PDI-816-5	≤2.0 & > 0[1] in. wc	.46	.46	.46	.48	.48	.48	.48

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Date:	6/17/13	6/18/13	6/19/13	6/20/13	6/21/13	6/22/13	6/23/13
			Initials:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
				SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.14	.14	.14	.14	.14	.14	.14
		PDI-812-2	≤2.0 & > 0[1] in. wc	.32	.31	.32	.33	.31	.32	.32
		PDI-812-3	≤2.0 & > 0[1] in. wc	.34	.30	.34	.32	.31	.33	.33
		PDI-812-4	≤2.0 & > 0[1] in. wc	.31	.30	.31	.31	.31	.31	.31
		PDI-812-5	≤2.0 & > 0[1] in. wc	.29	.28	.30	.29	.29	.29	.29
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.04	.04	.04	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc	.34	.32	.34	.34	.35	.34	.34
		PDI-865-3	≤2.0 & > 0[1] in. wc	.42	.40	.41	.42	.41	.42	.42
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.04	.04	.05	.04	.04	.04	.04
		PDI-863-2	≤2.0 & >0[1] in. wc	.42	.42	.42	.42	.42	.42	.42

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

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			Date:	6/17/13	6/18/13	6/19/13	6/20/13	6/21/13	6/22/13	6/23/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JC	RH	JM	JM	JM	JM
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.15	.15	.14	.16	.15	.15	.15
		PDI-857-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.06	.06	.07	.07	.08	.08	.08
		PDI-856-2	≤2.0 & > 0[1] in. wc	.71	.70	.70	.71	.71	.71	.71
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0833	0855	0831	0820	0920	0833	0750
			OC Operator Review and Page Count Complete (initials)			RB	RB			

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Jerome Lz Date 6/23/13 Time 0750 Reviewed by: _____ Date 6/24/13 Time: 0704

On-duty Supervisor

Comments: _____

LA-UR-13-25881

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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Date:	6/24/13	6/25/13	6/26/13	6/27/13	6/28/13	6-29-13	6 30 13
			Initials:	[illegible]	RH	BT	BT	[illegible]	PT	PT
				SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.15	.16	.16	Stby	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52	.52	.52	Stby	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	Stby	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.44	.45	.45	.45
		PDI-841-2	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.51	.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.50	.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.32	.32	.32	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.38	.38	.38	.38	.38	.38	.38
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.24	.24	.24	.24	.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.50	.49	.50	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.12	.12
		PDI-807-2	≤2.0 & > 0[1] in. wc	.79	.80	.80	.81	.81	.82	.82
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.50	.50	.51	.51
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	off	off	off	off	off	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	off	off	off	off	off	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	off	off	off	off	off	OFF	OFF

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

(Page 2 of 4)

			Date:	6/24/13	6/25/13	6/26/13	6/27/13	6/28/13	6-29-13	6-30-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	YN	RH	BA	~~ZH~~	YN	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.14	.14	.14	.14
		PDI-829-2	≤2.0 & > 0[1] in. wc	.39	.40	.40	.40	.40	.39	.39
		PDI-829-3	≤2.0 & > 0[1] in. wc	.35	.35	.36	.35	.35	.35	.35
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.91	.91	.92	.92	.92	.92	.92
		PDI-833-2	≤2.0 & > 0[1] in. wc	.49	.48	.48	.49	.49	.49	.49
		PDI-833-3	≤2.0 & > 0[1] in. wc	.48	.47	.47	.48	.48	.48	.48
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.42	.43	.43	.45	.45	.43	.43
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.40	.41	.41	.40	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.20 RH ~~4/10/21/13~~	.19	.20	.20
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.42	.40	.40	.41
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.39	.39	.39	.39
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.39	.40	.39	~~Stby~~	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0[1] in. wc	.46	.47	.48	~~Stby~~	STBY	STBY	STBY
		PDI-816-4	≤2.0 & > 0[1] in. wc	.47	.48	.47	~~Stby~~	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0[1] in. wc	.48	.49	.49	~~Stby~~	STBY	STBY	STBY

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

(Page 3 of 4)

			Date:	6/24/13	6/25/13	6/26/13	6/27/13	6/28/13	6-29-13	6-30-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.14	.14	.14	Stby	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0[1] in. wc	.32	.32	.32	Stby	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0[1] in. wc	.32	.32	.32	Stby	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0[1] in. wc	.31	.30	.30	Stby	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0[1] in. wc	.29	.30	.29	Stby	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.66	.66	.66	.66
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.28	.28	.28	.28
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.24	.26	.26	.26
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.29	.29	.29	.29
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	.21	.21	.21	.21
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.03	.03	.03	.04	.04	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc	.34	.35	.35	.34	.35	.35	.35
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.42	.42	.42
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.04	.05	.05	.05	.05	.05	.04
		PDI-863-2	≤2.0 & >0[1] in. wc	.42	.41	.41	.41	.41	.41	.41

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

(Page 4 of 4)

			Date:	6/24/13	6/25/13	6/26/13	6/27/13	6/28/13	6-29-13	6-30-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	RH	RH	RH	JRL	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤2.0 & > 0[1] in. wc	.17	.16	.17	.19	.19	.18	.18
		PDI-857-2	≤2.0 & > 0[1] in. wc	.50	.50	.51	.50	.50	.50	.50
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.07	.08	.08	.10	.10	.10	.10
		PDI-856-2	≤2.0 & > 0[1] in. wc	.71	.71	.71	.79	.79	.79	.78
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0829	0911	0930	0854	0821	0808	0802
			OC Operator Review and Page Count Complete (initials)		RSB			RSB		

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Paul Trujillo Date 6-30-13 Time 0802 Reviewed by: [signature] Date: 7-3 7-7-13 Time: 1042

On-duty Supervisor

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).	(Sat.) / Unsat.	0800	6-5-13	nm
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.	0915	6-5-13	nm
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.	0927	6-5-13	nm
			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. 5.75 Seconds	(Sat) / Unsat.	0929	6-5-13	nm

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ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	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.	0942	6-5-13	MM
			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. 7.35 Seconds	(Sat)/ Unsat.	0943	6-5-13	MM
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	(Sat)/ Unsat.	0933	6-5-13	MM
4.1.3.2	Confinement Door DR-90	South Basement Door (Tunnel)	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.	0938	6-5-13	MM
					OC Operator Review and Page Count Complete		a

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: Nelson Montoya Date 6-5-13 Time 0944 Reviewed by: [signature] Date: 6/5/13 Time: 1116

On-duty Supervisor Comments:

ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)

(Page 1 of 2)

SR	Description		Acceptance Criteria	Sat. / Unsat.	Completion Time:	Date:	Initials:
	Channel #	Location					
4.2.1.1	1	Rm. 201	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	2	Rm. 106	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	3	Rm. 305	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	4	Rm. 401	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	5	Rm. 206	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	6	Rm. 114	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	7	Rm. 319 W	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	8	Rm. 409	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	9	Rm. 208	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	10	Rm. 124	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	11	Rm. 319 E	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	12	Rm. 420	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	13	Rm. 209	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	14	Rm. 126	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	15	Rm. 327	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	16	Rm. 429	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
4.2.2.1	17	Vault 17	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	18	Vault 18	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	19	Vault 19	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]
	20	Vault 20	> 1 mR/hr	(Sat.) / Unsat.	0600	6-1-13	[illegible]

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)

Completed by: [signature] Date 6-1-13 Time 0600 Reviewed by: [signature] Date: 6-3-13 Time: 0915
On-duty Supervisor

Comments:

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Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	Surveillance Rounds
Procedure no.:	TA55-STP-004 R15.1
Date of issue:	5-1-13
Working copy issued to:	A. Dunseth
Working copy issued by:	F. Seybert
	Certified Operations Center Operator

Operations Center Operator Review

[signature]	6-5-13
Signature	Date

Required Reading for this Surveillance has been completed.

Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R. Briscoe	a	5-1-13
B. Chance	a	5-1-13
D. Dunlavy	a	5-1-13
A. Dunseth	a	5-1-13
R. Lum	a	5-1-13
A. Ortiz	a	5-1-13
F. Seybert	a	5-1-13
M. Wiltman		
N. Chaves		
J. Smeltz		

Comments:

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

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R. Hohner	a	5-1-13
J. Martinez	a	5-1-13
T. Longworthy	a	5-1-13
P. Trujillo	a	5-1-13
N. Montoya	a	5-1-13
A. Sanchez	a	5-1-13
G. Cariz	a	5-1-13
M. Irish	a	5-1-13
A. Herrera	a	5-1-13

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:					5/1/13		5/2/13		5/3-13		5/4/13		5-5-13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:						DAD		DAD	D	a		a	D	a
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]					-2.02	-2.02	-2.02	-2.04	-2.03	-2.02	-2.03	-2.02	-2.03	-2.02
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]					-1.89	-1.88	-1.88	-1.90	-1.87	-1.89	-1.89	-1.89	-1.89	-1.89
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]					-1.98	-1.99	-1.99	-1.97	-1.97	-1.98	-1.98	-1.98	-1.97	-1.99
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]					-1.88	-1.96	-2.03	-1.98	-1.97	-2.02	-2.03	-1.95	-2.02	-1.99
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]					-0.20	-.18	0.19	-.20	-.19	-.20	-.19	-.20	-.20	-.21
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]					-0.22	-.19	0.22	-.23	-.22	-.23	-.23	-.23	-.23	-.24
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]					-0.21	-.20	0.21	-.23	-.23	-.22	-.22	-.22	-.23	-.24
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]					-0.20	-.18	-0.19	-.20	-.20	-.20	-.20	-.19	-.20	-.21
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc					-0.14	-.19	-0.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc					-0.09	-.09	-0.10	-.10	-.10	-.10	-.10	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc					-0.12	-.12	-0.12	-.13	-.13	-.13	-.13	-.14	-.13	-.11
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc					-0.129	-.146	-0.135	-.129	-.130	-.141	-.138	-.148	-.138	-.136

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:					5/1/13		5/2/13		5-3-13		5/4/13		5-5-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:														
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

				Date:					5/1/13		5/2/13		5-3-13		5/4/13		5-5-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:					[illegible]	DAD	[illegible]	DAD	D	a	[illegible]	a	0	a
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time							0640	1944	0627	1934	0730	1939	0726	1941	0730	1939

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: _____ Date 5-5-13 Time 1939 Reviewed by: _____ Date: 5-6-13 Time: 0730
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	5/6/13		5/7/13		5/8/13		5/9/13		5/10/13		5/11/13		5/12/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	DAO	BC	DAO	BC	[illegible]	C	BB	C	[illegible]	BC	[illegible]	BC	DAO	BC
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.02	-2.02	-2.01	-2.01	-2.03	-1.98	-2.03	-2.03	-2.02	-2.03	-2.01	-2.02	-2.03	-2.03
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.87	-1.87	-1.85	-1.88	-1.90	-1.98	-1.90	-1.89	-1.87	-1.88	-1.88	-1.89	-1.85	-1.90
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.97	-1.97	-1.99	-1.98	-2.00	-1.97	-1.98	-1.97	-1.98	-1.99	-1.98	-1.98	-1.98	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-2.01	-2.01	-2.04	-2.00	-1.97	-1.97	-1.98	-1.98	-2.00	-2.01	-2.03	-2.00	-2.01	-1.98
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.20	-.20	-.20	-.21	-0.19	-.21	-.21	-.21	-0.20	-.20	-0.19	-.20	-.20	-.20
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.23	-.22	-.23	-.24	-0.22	-.22	-.23	-.21	-0.23	-.23	-0.23	-.24	-.23	-.24
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.23	-.22	-.22	-.23	-0.21	-.23	-.23	-.21	-0.23	-.22	-0.21	-.23	-.22	-.23
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.20	-.20	-.20	-.21	-0.19	-.21	-.20	-.21	-0.20	-.20	-0.19	-.20	-.22	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-.19	-.19	-0.19	-.20	-.19	-.19	-0.19	-.19	-0.19	-.19	-.19	-.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	-.10	-.10	-.10	-0.10	-.11	-.10	-.10	-0.10	-.10	-0.10	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.13	-.13	-.13	-.14	-0.13	-.14	-.13	-.13	-0.13	-.13	-0.12	-.13	-.13	-.13
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.138	-.142	-.135	-.147	-0.130	-.137	-.138	-.147	-0.135	-.141	-0.130	-.133	-.138	-.140

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	5/6/13		5/7/13		5/8/13		5/9/13		5/10/13		5/11/13		5/12/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	DMO	BC	DMO	BC	[illegible]	O	KB	O	[illegible]	BC	[illegible]	BC	[illegible]	BC
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

					Date:	5/6/13		5/7/13		5/8/13		5/9/13		5/10/13		5/11/13		5/12/13	
					Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
					Initials:	DAD	BC	DAD	BC	[illegible]	CA	RSB	CA	[illegible]	BC	[illegible]	BC	DAD	BC
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0726	1926	0655	1919	0625	1957	0730	1946	0717	1926	0731	1926	0730	1928	

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: [signature] Date 05.12.13 Time 1988 Reviewed by: [signature] Date: 5-13-13 Time: 0930
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	5/13/13		05.14.13		5/15/13		5/16/13		5/17/13		5/18/13		5-19-13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:														
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.02	-2.03	-2.03	-1.92	-2.00	-2.01	-2.02	-2.02	-2.03	-2.02	-2.01	-2.01	-2.03	-2.00
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.90	-1.89	-1.90	-1.88	-1.89	-1.89	-1.89	-1.88	-1.89	-1.89	-1.89	-1.86	-1.89	-1.88
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.97	-1.98	-2.00	-1.98	-1.99	-1.98	-1.98	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-2.03	-2.00	-1.98	-1.93	-2.01	-1.98	-1.89	-2.00	-2.03	-2.03	-2.02	-1.92	-1.98	-2.03
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.20	-.21	-.20	-.20	-0.19	-.20	-0.20	-.19	-.18	-.19	-0.19	-.18	-.19	-.18
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.23	-.24	-.24	-.24	-0.23	-.23	-0.23	-.23	-.22	-.22	-0.22	-.22	-.22	-.22
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.22	-.23	-.23	-.22	-0.22	-.22	-0.22	-.21	-.22	-.21	-0.22	-.22	-.22	-.21
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.20	-.21	-.20	-.19	-0.20	-.19	-0.20	-.19	-.20	-.19	-0.20	-.20	-.20	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-.19	-.19	-0.19	-.19	-0.19	-.19	-.19	-.19	-0.19	-.19	-.17	-.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	-.10	-.10	-.10	-0.10	-.10	-0.10	-.10	-.10	-.10	-0.10	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.13	-.13	-.12	-.14	-0.13	-.14	-0.15	-.14	-.14	-.14	-0.14	-.14	-.14	-.14
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.140	-.06	-.124	-.137	-0.132	-.139	-0.160	-.143	-.145	-.151	-0.151	-.151	-.148	-.148

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	5/13/13		05.14.13		5/15/13		5/16/13		5/17/13		5/18/13		5-19-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:														
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

					Date:	5/10/13		05-14-13		5/15/13		5/16/13		5/17/13		5/18/13		5-19-13	
					Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
					Initials:														
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0729	1930	0724	1932	0724	1922	0718	1925	0733	1933	0730	1930	0728	1930

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: [signature] Date 5-19-13 Time 1930 Reviewed by: [signature] Date: 5-20-13 Time: 1105
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	5/20/13		05-21-13		5/22/13		5-23-13		05-24-13		05-25-13		5/26/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	DMD	[illegible]	BC	[illegible]	BB	D	a	D	BC	D	BC	a	DMD	D
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.01	-2.01	-2.01	-2.03	-2.02	-2.02	-2.01	-2.01	-2.00	-2.01	-2.01	-2.01	-2.03	-2.01
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.87	-1.89	-1.88	-1.89	-1.89	-1.93	-1.89	-1.89	-1.88	-1.88	-1.89	-1.89	-1.89	-1.89
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.99	-1.98	-1.98	-1.99	-1.99	-1.99	-1.98	-1.98	-2.00	-1.99	-1.98	-1.98	-1.97	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-2.03	-1.97	-2.01	-2.03	-1.93	-1.97	-1.97	-1.97	-1.98	-1.98	-1.98	-1.98	-1.97	-1.97
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.19	-0.19	-.19	-0.19	-.18	-.17	-.19	-.19	-.18	-.19	-.19	-.19	-.19	-.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.23	-0.22	-.23	-0.22	-.22	-.21	-.22	-.23	-.21	-.22	-.22	-.23	-.22	-.22
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.22	-0.22	-.22	-0.21	-.21	-.12	-.21	-.22	-.21	-.21	-.21	-.22	-.21	-.22
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.20	-0.20	-.20	-0.19	-.19	-.12	-.20	-.19	-.18	-.20	-.20	-.21	-.20	-.21
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-0.18	-.19	-0.19	-.19	-.19	-.17	-.19	-.18	-.19	-.19	-.19	-.18	-.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	-0.09	-.10	-0.10	-.10	-.10	-.10	-.09	-.09	-.10	-.10	-.10	-.09	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.14	-0.13	-.13	-0.13	-.13	-.11	-.12	-.13	-.13	-.14	-.15	-.16	-.15	-.16
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.146	-0.147	-.147	-0.145	-.142	-.088	-.136	-.139	-.144	-.153	-.166	-.173	-.169	-.164

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.		Date:	5/20/13		05-21-13		5/22/13		5-23-13		05-24-13		05-25-13		5/26/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	DAD	[illegible]	BC	[illegible]	RSD	[illegible]	a	[illegible]	BC	[illegible]	BC	a	DAD	[illegible]

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)													
4.1.1.6	200 area re-circulation fan/ plenum	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

					Date:	5/20/13		05-21-13		5/22/13		5-23-13		05-24-13		05-25-13		5/26/13	
					Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
					Initials:	DAO		BC		RSB				BC		BC		DAO	
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0720	1929	0123	1927	0132	1930	0728	1930	0724	1930	0744	1944	0736	1930	

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: [signature] Date 5-26-13 Time 1930 Reviewed by: [signature] Date 6-3-13 Time: 0900
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	5-27-13		5-28-13		5/29/13		05-30-13		5/31/13					
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	a	A	a	A	DAO	[illegible]	BC	B	[illegible]	A				
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.01	-2.01	-2.01	-2.01	-1.99	-2.00	-2.01	-2.02	-2.01	-1.99				
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.88	-1.87	-1.88	-1.88	-1.87	-1.87	-1.90	-1.90	-1.85	-1.89				
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.97	-1.98	-1.99	-1.98				
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.98	-1.96	-1.99	-1.99	-1.98	-1.98	-1.98	-1.97	-1.98	-1.97				
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.19	-.18	-.19	-.19	-.19	-0.18	-.19	-0.19	-.18	-.18				
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.22	-.22	-.22	-.22	-.22	-0.20	-.22	-0.22	-.21	-.23				
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.21	-.21	-.21	-.22	-.21	-0.19	-.21	-0.21	-.20	-.22				
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.20	-.19	-.20	-.21	-.20	-0.17	-.20	-0.20	-.19	-.21				
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-.19	-.19	-.19	-0.19	-.19	-0.19	-.19	-.18				
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	-.10	-.10	-.10	-.09	-0.09	-.10	-0.09	-.10	-.10				
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.15	-.15	-.16	-.15	-.10	-0.14	-.16	-0.11	-.11	-.11				
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.172	-.167	-.170	-.164	-.167	-0.168	-.175	-0.163	-.123	-.122				

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.		Date:	5-07-13		5-21-13		5/29/13		05-30-13		5/31/13					
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	a		a		DAO		BC							
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**												
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

Date:		5-27-13		5-28-13		5/29/13		05.30.13		5/31/13							
Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
Shift:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
Initials:		a	[illegible]	a	[illegible]	DAO	[illegible]	BC	[illegible]	[illegible]	[illegible]						
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**												
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	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	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0726	1930	0721	1930	0723	1928	0717	1926	0722	1930				

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: [signature] Date 5-31-13 Time 1930 Reviewed by: [signature] Date: 6-3-13 Time: 0907
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:
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:			5/1/13	5-2-13	5-3-13	5-4-13	5-5-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:			RH	nm	dh		
SR 4.4.1.1	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA			005	005	005	005	005
	CP-305-H (LED Reading)				005	005	005	005	005
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value			005	005	005	005	005
		≥ -0.1; ≤+0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005
		Completion Time:			0828	0800	0812	0839	0844

LA-UR-13-25881

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

(Page 2 of 4)

			Date:			5/1/13	5-2-13	5-3-13	5-4-13	5-5-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			RH	nm	[illegible]	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc			.05	.05	.05	.05	.05
		PDI-894-2	≤2.0 & > 0[1] in. wc			.50	.49	.49	.49	.49
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc			.06	.05	.05	.06	.05
		PDI-895-2	≤2.0 & > 0[1] in. wc			1.0	1.0	1.0	1.0	1.0
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc			.28	.28	.28	.28	.28
		PDI-817-2	≤2.0 & > 0[1] in. wc			.31	.31	.31	.30	.31
		PDI-817-4	≤2.0 & > 0[1] in. wc			.31	.31	.31	.32	.32
		PDI-817-5	≤2.0 & > 0[1] in. wc			.30	.30	.30	.31	.31
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc			.41	.41	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc			.41	.41	.40	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc			.36	.35	.35	.36	.35
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc			Stby	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc			Stby	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc			Stby	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc			Stby	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc			Stby	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc			Stby	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc			Stby	STBY	STBY	STBY	STBY

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

(Page 3 of 4)

			Date:			5/1/13	5-2-13	5-3-13	5-4-13	5-5-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			ZH	nm			
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc			.62	.62	.62	.65	.66
		PDI-822-2	≤2.0 & > 0[1] in. wc			.51	.51	.50	.50	.51
		PDI-822-4	≤2.0 & > 0[1] in. wc			.42	.42	.42	.42	.41
		PDI-822-5	≤2.0 & > 0[1] in. wc			.50	.47	.49	.49	.48
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc			STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc			STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc			STBY	STBY	STBY	STBY	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc			STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc			.60	.60	.60	.60	.60
		PDI-830-2	≤2.0 & > 0[1] in. wc			.36	.35	.35	.36	.36
		PDI-830-3	≤2.0 & > 0[1] in. wc			.31	.31	.31	.31	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc			.90	.90	.90	.90	.90
		PDI-836-2	≤2.0 & > 0[1] in. wc			.55	.56	.55	.52	.53
		PDI-836-3	≤2.0 & > 0[1] in. wc			.51	.52	.52	.51	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc			.62	.63	.63	.62	.63
		PDI-837-2	≤2.0 & > 0[1] in. wc			.50	.50	.50	.50	.52
		PDI-837-3	≤2.0 & > 0[1] in. wc			.56	.47	.45	.46	.47

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

(Page 4 of 4)

			Date:			5/1/13	5-2-13	5-3-13	5-4-13	5-5-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			RH	nm	dh		
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc			.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc			.41	.40	.40	.40	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc			.39	.38	.38	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc			.30	.31	.30	.30	.30
		PDI-839-2	≤2.0 & > 0[1] in. wc			.42	.42	.42	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc			.41	.42	.42	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc			.14	.16	.15	.16	.15
		PDI-810-2	≤2.0 & > 0[1] in. wc			.43	.48	.48	.49	.48
		PDI-810-3	≤2.0 & > 0[1] in. wc			.42	.46	.45	.48	.47
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc			off	OFF	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc			off	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc			off	OFF	OFF	OFF	OFF
			. Completion Time			0915	0835	0751	0906	0909
OC Operator Review and Page Count Complete (initials)						RSB				

[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 as stated in LCO 3.1.3.

Completed by: _____ Date 5/5/13 Time 0909 Reviewed by: _____ Date 5-6-13 Time: 0931
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:
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:	5-6-13	5-7-13	5-8-13	5-9-13	5-10-13	5/11/13	5/12/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	nm	PT	PT	RL	nm	[illegible]	JAD
SR 4.4.1.1	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	005	005	005	005	005	005	005
	CP-305-H (LED Reading)		005	005	005	005	005	005	005
	(DET-305-3) – (CP-305H)	Record Calculated Value	005	005	005	005	005	005	005
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005
		Completion Time:	0815	0700	0732	0827	0805	0815	0820

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

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SRs	Description	Gauge	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Date:	5-6-13	5-7-13	5-8-13	5-9-13	5-10-13	5/11/13	5/12/13
			Initials:	nm	PT	PT	RLL	[illegible]	[illegible]	DAD
				SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.05	.05	.05	.05	.05	.05	.05
		PDI-894-2	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.05	.05	.06	.05	.06	.06	.06
		PDI-895-2	≤2.0 & > 0[1] in. wc	1.00	1.0	1.0	1.0	1.0	1.0	1.0
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.28	.28	.28	.28	.28	.28	.28
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.32
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.29	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.40
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35	.35	.35	.36	.36	.35	.35
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY

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

(Page 3 of 4)

			Date:	5-6-13	5-7-13	5-8-13	5-9-13	5-10-13	5/11/13	5/12/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	PT	PT	RH	RH		DAD
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.67	.67	.67	.64	.65	.66	.65
		PDI-822-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.52
		PDI-822-4	≤2.0 & > 0[1] in. wc	.41	.41	.41	.42	.42	.41	.41
		PDI-822-5	≤2.0 & > 0[1] in. wc	.48	.48	.48	.49	.49	.48	.49
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	Stby	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.60	.59	.59	.60	.60	.60	.60
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.35	.35	.36	.36	.35	.35
		PDI-830-3	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.89	.90	.90	.90	.90	.91	.90
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.55	.55	.56	.56	.56	.57
		PDI-836-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.62	.62	.62	.63	.63	.63	.63
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.51	.51
		PDI-837-3	≤2.0 & > 0[1] in. wc	.47	.48	.48	.47	.47	.47	.48

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

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			Date:	5-6-13	5-7-13	5-8-13	5-9-13	5-10-13	5/11/13	5/12/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	PT	PT	RH	RA		DAD
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc	.40	.40	.41	.40	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.39	.39	.38	.38	.39	.39
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.30	.30	.31	.30	.30	.31	.30
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.15	.15	.15	.15	.15	.15	.14
		PDI-810-2	≤2.0 & > 0[1] in. wc	.45	.48	.48	.48	.47	.48	.48
		PDI-810-3	≤2.0 & > 0[1] in. wc	.44	.45	.44	.46	.45	.47	.45
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			Completion Time	0901	0739	0728	0917	0836	0854	0845
OC Operator Review and Page Count Complete (initials)										

[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 as stated in LCO 3.1.3.

Completed by: [signature] Date 5/12/13 Time 0845 Reviewed by: [signature] Date: 5-13-13 Time: 0933
On-duty Supervisor

Comments FGCS OOS

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:	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:	nm	RH	nm	PT	PT	PT	PT
	Description / Gauge	Acceptance Criteria	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	005	005	005	005	005	005	005
	CP-305-H (LED Reading)		005	005	005	005	005	005	005
	(DET-305-3) – (CP-305H)	Record Calculated Value	005	005	005	005	005	005	005
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005
		Completion Time:	0718	0830	0746	0818	0736	0820	0736

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

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			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:	nm	RH	nm	PT	PT	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.05	.05	.05	.06	.06	.06	.06
		PDI-894-2	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.50	.50	.50
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.05	.04	.06	.06	.06	.06	.06
		PDI-895-2	≤2.0 & > 0[1] in. wc	1.00	1.00	1.00	1.00	1.02	1.02	1.02
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.28	.28	.28	.28	.28	.28	.28
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35	.35	.35	.35
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY

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

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			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:	nm	RH	nm	PT	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.64	.63	.67	.67	.63	.65	.65
		PDI-822-2	≤2.0 & > 0[1] in. wc	.50	.51	.51	.51	.51	.51	.50
		PDI-822-4	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.41	.41
		PDI-822-5	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.60	.60	.60	.58	.58	.58	.57
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.36	.35	.34	.34	.34	.34
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.31	.31	.31	.31	.31	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.90	.90	.90	.90	.90	.90	.90
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.55	.56	.56	.55	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.51	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.63	.63	.63	.63	.63	.62	.62
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.47	.47	.47	.48	.47	.47	.48

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

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			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:	nm	RH	nm	PT	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc	.40	.40	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.38	.38	.38	.38	.38	.39
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.15	.15	.14	.14	.15	.15	.15
		PDI-810-2	≤2.0 & > 0[1] in. wc	.45	.45	.45	.42	.48	.48	.48
		PDI-810-3	≤2.0 & > 0[1] in. wc	.43	.44	.42	.41	.44	.44	.45
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			Completion Time	0742	0915	0818	0831	0722	0745	0731
OC Operator Review and Page Count Complete (initials)				RDG	BC	DAO	DAO	RB	a	a

[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 as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date 5-19-13 Time 0731 Reviewed by: _____ Date 5-20-13 Time: 1107

On-duty Supervisor

Comments _____

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

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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:	5/20/13	5/21/13	5-22-13	5/23/13	5/24/13	5/25/13	5.26.13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:							
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	005	005	005	003	005	005	005
	CP-305-H (LED Reading)		005	005	005	003	005	005	005
	(DET-305-3) – (CP-305H)	Record Calculated Value	005	003	005	003	005	005	005
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0801	0901	0810	0813	0812	0816	0821

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ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)
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SRs	Description	Gauge	Acceptance Criteria							
			Date:	5/20/13	5/21/13	5-22-13	5/23/13	5/24/13	5/25/13	05-26-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BC
				SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.05	.06	.05	.05	.05	.05	.05
		PDI-894-2	≤2.0 & > 0[1] in. wc	.49	.50	.50	.50	.50	.50	.50
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.06	.06	.06	.06	.07	.07	.07
		PDI-895-2	≤2.0 & > 0[1] in. wc	1.02	1.02	1.02	1.06	1.09	1.09	1.09
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.28	.28	.28	.28	Stby	Stby	STBY
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	Stby	Stby	STBY
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	Stby	Stby	STBY
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.29	.30	.30	Stby	Stby	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.40	.41	Stby	Stby	STBY
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	Stby	Stby	STBY
		PDI-819-4	≤2.0 & > 0[1] in. wc	.36	.34	.35	.35	Stby	Stby	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.24	.24	.24
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.30	.30	.30
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.31	.32	.32
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.28	.28	.28
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.40	.40	.40
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.45	.43	.43
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.31	.38	.38

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

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			Date:	5/20/13	5/21/13	5-22-13	5/23/13	5/24/13	5/25/13	05.26.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	RH	nm	JM	RH	DAO	BC
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.70	.67	.61	.65	Stby	Stby	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	Stby	Stby	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc	.42	.41	.42	.42	Stby	Stby	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	Stby	Stby	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.89	.85	.89
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.25	.42	.42
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.48	.48	.48
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	Stby	STBY	STBY	.49	.49	.49
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.57	.56	.56	.56	.54	.55	.56
		PDI-830-2	≤2.0 & > 0[1] in. wc	.36	.36	.35	.35	.32	.32	.32
		PDI-830-3	≤2.0 & > 0[1] in. wc	.31	.30	.30	.30	.30	.30	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.89	.89	.89	.89	.89	.89	.89
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.52	.55	.53	.52	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.51	.51	.52	.51	.52	.50	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	Jm 5/24/13 .48 .62	.63	.63	.62	.63	.62	.62
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.48	.47	.47	.48	.45	.48	.47

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

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			Date:	5/20/13	5/21/13	5-22-13	5/23/13	5/24/13	5/25/13	05.26.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	[illegible]	[illegible]	RH	DAD	BC
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.40	.40	.40
		PDI-838-3	≤2.0 & > 0[1] in. wc	.39	.38	.38	.39	.38	.40	.39
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.31	.30	.30
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.42	.42	.42	.42	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.41	.42	.41	.41	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.16	.15	.17	.17	.17	.18	.17
		PDI-810-2	≤2.0 & > 0[1] in. wc	.49	.48	.50	.50	.50	.50	.50
		PDI-810-3	≤2.0 & > 0[1] in. wc	.48	.46	.48	.49	.49	.50	.50
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	~~off~~	~~off~~	~~off~~	off	~~off~~	off	~~off~~
		PDI -811 -2	≤2.0 & > 0[1] in. wc	~~off~~	~~off~~	~~off~~	off	~~off~~	off	~~off~~
		PDI -811 -3	≤2.0 & > 0[1] in. wc	~~off~~	~~off~~	~~off~~	off	~~off~~	off	~~off~~
			Completion Time	0916	0936	0852	0836	0904	0850	0901
OC Operator Review and Page Count Complete (initials)				[illegible] BC	[illegible] KB	[illegible]	[illegible]	[illegible] BC	[illegible] BC	BC [illegible]

[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 as stated in LCO 3.1.3.

Completed by: [illegible] Date 05-26-13 Time 0901 Reviewed by: [illegible] Date 5-27-13 Time: 0902
On-duty Supervisor

Comments 4.4.1.1 5/20/13 out of Service.

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

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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:	5-27-13	5/28/13	5-29-13	5-30-13	5-31-13		
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	005	005	005	005	005		
	CP-305-H (LED Reading)		005	005	005	005	005		
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	005	005	005	005	005		
		≥ -0.1; ≤+0.1	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0811	0904	0759	0752	0645		

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

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			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:	~~JG~~	Jm	PT	PT	mm		
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.05	.07	.06	.06	.06		
		PDI-894-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50		
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.08	.08	.08	.08	.08		
		PDI-895-2	≤2.0 & > 0[1] in. wc	1.1	1.1	1.1	1.1	1.10		
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-817-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-817-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-817-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-819-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	.24	.24	.24	.24	.24		
		PDI-818-2	≤2.0 & > 0[1] in. wc	.31	.30	.30	.30	.30		
		PDI-818-4	≤2.0 & > 0[1] in. wc	.32	.32	.32	.32	.31		
		PDI-818-5	≤2.0 & > 0[1] in. wc	.28	.28	.28	.28	.27		
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	.40	.39	.39	.39	.40		
		PDI-821-3	≤2.0 & > 0[1] in. wc	.43	.45	.45	.45	.45		
		PDI-821-4	≤2.0 & > 0[1] in. wc	.39	.39	.39	.39	.39		

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

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			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:	[illegible]	[illegible]	PT	PT	[illegible]		
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.85	.89	.84	.84	.85		
		PDI-823-2	≤2.0 & > 0[1] in. wc	.42	.45	.45	.42	.45		
		PDI-823-4	≤2.0 & > 0[1] in. wc	.48	.48	.48	.48	.48		
		PDI-823—5	≤2.0 & > 0[1] in. wc	.50	.49	.49	.49	.50		
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.56	.56	.56	.56	.23		
		PDI-830-2	≤2.0 & > 0[1] in. wc	.33	.34	.32	.32	.19		
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.12		
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.88	.88	.88	.89	.88		
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.55	.55	.55	.55		
		PDI-836-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.52		
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.62	.61	.61	.61	.61		
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50		
		PDI-837-3	≤2.0 & > 0[1] in. wc	.46	.46	.46	.46	.47		

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

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			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:	JO	JM	PT	PT	nm		
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31		
		PDI-838-2	≤2.0 & > 0[1] in. wc	.40	.40	.41	.41	.40		
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.37	.38	.38	.39		
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.32	.30	.30	.31	.31		
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42		
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42		
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.17	.17	.17	.17	.18		
		PDI-810-2	≤2.0 & > 0[1] in. wc	.50	.50	.51	.51	.52		
		PDI-810-3	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.51		
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF		
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF		
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF		
			Completion Time	0844	1003	0757	0804	0700		
OC Operator Review and Page Count Complete (initials)						BC	BC RSB			

[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 as stated in LCO 3.1.3.

Completed by: Nolan Montoya Date 5-31-13 Time 0700 Reviewed by: On-duty Supervisor Date: 6-3-13 Time: 0905

Comments Flammable Gas System Out of Service 5-27-2013 5-29-13 5-30-13 5-31-13

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

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			Date:			5-1-13	5-2-13	5-3-13	5-4-13	05/05/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			PT	RH	RH	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
		PDI-840-2	≤2.0 & > 0 in[1]. wc			STBY	Stby	Stby	Stby	Stby
		PDI-840-3	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc			.45	.45	.45	.45	.45
		PDI-841-2	≤2.0 & > 0[1] in. wc			.52	.52	.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc			.50	.50	.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc			.32	.32	.32	.32	.32
		PDI-831-2	≤2.0 & > 0[1] in. wc			.41	.41	.41	.41	.40
		PDI-831-3	≤2.0 & > 0[1] in. wc			.35	.35	.35	.34	.34
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc			.23	.24	.24	.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc			.51	.51	.51	.52	.52
		PDI-832-3	≤2.0 & > 0[1] in. wc			.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc			.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc			.80	.80	.80	.80	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc			.49	.49	.49	.48	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc			OFF	off	off	off	off
		PDI-809-2	≤2.0 & > 0[1] in. wc			OFF	off	off	off	off
		PDI-809-3	≤2.0 & > 0[1] in. wc			OFF	off	off	off	off

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

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			Date:			5-1-13	5-2-13	5-3-13	05/04/13	05/05/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			JT	EH	RH	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc			.06	.07	.07	.06	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc			.21	.29	.29	.22	.21
		PDI-829-3	≤2.0 & > 0[1] in. wc			.20	.26	.24	.21	.21
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc			.91	.92	.91	.91	.92
		PDI-833-2	≤2.0 & > 0[1] in. wc			.48	.47	.47	.47	.47
		PDI-833-3	≤2.0 & > 0[1] in. wc			.43	.44	.44	.44	.44
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc			.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc			.44	.45	.44	.44	.44
		PDI-835-3	≤2.0 & > 0[1] in. wc			.41	.41	.41	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
		PDI-815-2	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
		PDI-815-4	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
		PDI-815-5	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc			.35	.34	.37	.35	.35
		PDI-816-2	≤2.0 & > 0[1] in. wc			.42	.44	.44	.44	.42
		PDI-816-4	≤2.0 & > 0[1] in. wc			.42	.42	.45	.45	.45
		PDI-816-5	≤2.0 & > 0[1] in. wc			.42	.45	.45	.45	.45

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

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			Date:			5-1-13	5-2-13	5-3-13	05/04/13	05/05/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			PT	RH	RH		
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc			.14	.14	.14	.14	.14
		PDI-812-2	≤2.0 & > 0[1] in. wc			.32	.32	.32	.32	.32
		PDI-812-3	≤2.0 & > 0[1] in. wc			.32	.32	.32	.32	.32
		PDI-812-4	≤2.0 & > 0[1] in. wc			.31	.31	.31	.31	.31
		PDI-812-5	≤2.0 & > 0[1] in. wc			.29	.30	.30	.29	.29
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
		PDI-813-2	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
		PDI-813-3	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
		PDI-813-4	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
		PDI-813-5	≤2.0 & > 0[1] in. wc			STBY	Stby	Stby	Stby	Stby
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc			.03	.03	.03	.03	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc			.31	.35	.35	.33	.32
		PDI-865-3	≤2.0 & > 0[1] in. wc			.39	.42	.42	.42	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc			.05	.05	.05	.05	.05
		PDI-863-2	≤2.0 & >0[1] in. wc			.42	.41	.41	.41	.41

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

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			Date:			5-1-13	5-2-13	5-3-13	05/04/13	05/05/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			PT	RH	RH	MW	MW
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc			.12	.11	.11	.11	.11
		PDI-857-2	≤2.0 & > 0[1] in. wc			.49	.49	.49	.49	.49
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc			.04	.03	.03	.03	.03
		PDI-856-2	≤2.0 & > 0[1] in. wc			.69	.69	.69	.69	.69
[1]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
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	Sat
			Completion time			0915	0819	0808	0858	0847
			OC Operator Review and Page Count Complete (initials)			RH	RH	RH	RH	RH

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Michael Jones Date 05/06/13 Time 0908 Reviewed by: [signature] Date 5-6-13 Time: 0935

On-duty Supervisor

Comments: _____

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

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			Date:	5-6-13	5-7-13	5-8-13	5-9-13	5-10-13	5/11/13	5/12/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	PT	PT	RH	RH	[redacted]	DAO
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.45	.45	.45
		PDI-841-2	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.32	.32	.32	.32	.33	.32	.32
		PDI-831-2	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40	.40	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35	.36	.35	.35
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.24	.24	.24	.24	.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80	.80	.80	.80	.80	.80	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.50
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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

(Page 2 of 4)

			Date:	5-6-13	5-7-13	5-8-13	5-9-13	5-10-13	5/11/13	5/12/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	PT	PT	RH	nm		DAO
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	**North Basement exhaust filter plenum (FF-828) ΔP**	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.06	.06	.07	.04	.07	.07	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.22	.22	.23	.23	.24	.24	.24
		PDI-829-3	≤2.0 & > 0[1] in. wc	.20	.21	.21	.21	.21	.22	.22
4.1.1.7	**100 area re-circulation filter plenum (HVP-803) ΔP**	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.91	.91	.91	.91	.91	.91	.91
		PDI-833-2	≤2.0 & > 0[1] in. wc	.47	.48	.48	.47	.47	.46	.48
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.45	.45	.45
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.41	.40	.40
4.1.3.4	**100 area glovebox exhaust filter plenum (FF852) ΔP**	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
4.1.3.4	**100 area glovebox exhaust filter plenum (FF853) ΔP**	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.38	.38	.36	.38	.37	.36	.37
		PDI-816-2	≤2.0 & > 0[1] in. wc	.45	.45	.45	.44	.45	.46	.45
		PDI-816-4	≤2.0 & > 0[1] in. wc	.47	.45	.45	.45	.45	.44	.45
		PDI-816-5	≤2.0 & > 0[1] in. wc	.47	.45	.45	.45	.45	.44	.45

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

(Page 3 of 4)

			Date:	5-6-13	5-7-13	5-8-13	5-9-13	5-10-13	5/11/13	5/12/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	PT	PT	[illegible]	nm	[illegible]	DVM
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.14	.14	.14	.14	.14	.14	.15
		PDI-812-2	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.32
		PDI-812-3	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.32
		PDI-812-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-812-5	≤2.0 & > 0[1] in. wc	.29	.29	.29	.29	.29	.29	.29
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-I	≤2.0 & > 0[1] in. wc	.03	.04	.04	.03	.03	.03	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc	.35	.31	.35	.32	.35	.31	.32
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40	.41	.41	.40	.41	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-I	≤2.0 & > 0[1] in. wc	.04	.04	.05	.04	.04	.04	.05
		PDI-863-2	≤2.0 & >0[1] in. wc	.42	.42	.42	.42	.42	.41	.41

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

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			Date:	5-6-13	5-7-13	5-8-13	5-9-13	5-10-13	5/11/13	5/12/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	PT	PT	ZH	nm	[illegible]	DMD
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.12	.12	.11	.12	.10	.10	.10
		PDI-857-2	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.03	.04	.03	.04
		PDI-856-2	≤2.0 & > 0[1] in. wc	.69	.69	.69	.69	.69	.69	.69
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0850	0802	0752	0917	0830	0841	0845
			OC Operator Review and Page Count Complete (initials)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: [illegible] Date 5/12/13 Time 0845 Reviewed by: [illegible] Date: 5-13-13 Time: 0935

On-duty Supervisor

Comments: _____

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

(Page 1 of 4)

			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:	nm	gn	nm	gn	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.45	.45	.45
		PDI-841-2	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc	.50	.51	.50	.51	.51	.51	.51
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.32	.32	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0[1] in. wc	.40	.40	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.36	.35	.36	.36	.36	.36
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.24	.24	.24	.24	.24	.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc	.52	.51	.52	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80	.80	.80	.79	.80	.80	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.48	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	off	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	off	OFF	off	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	off	OFF	off	OFF	OFF	OFF

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

(Page 2 of 4)

			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:	nm	JM	nm	JM	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.07	.06	.05	.05	.11	.08	.09
		PDI-829-2	≤2.0 & > 0[1] in. wc	.22	.20	.20	.21	.35	.29	.29
		PDI-829-3	≤2.0 & > 0[1] in. wc	.21	.19	.19	.20	.31	.25	.27
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.92	.91	.92	.92	.92	.91	.91
		PDI-833-2	≤2.0 & > 0[1] in. wc	.47	.47	.47	.47	.47	.48	.48
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.35	.35	.45	.45	.45	.45	.44
		PDI-835-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.37	.38	.38	.38	.38	.38	.38
		PDI-816-2	≤2.0 & > 0[1] in. wc	.43	.43	.44	.43	.44	.43	.43
		PDI-816-4	≤2.0 & > 0[1] in. wc	.45	.45	.46	.45	.45	.43	.43
		PDI-816-5	≤2.0 & > 0[1] in. wc	.45	.45	.46	.47	.47	.45	.45

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

(Page 3 of 4)

			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:	nm	gm	nm	gm	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.14	.14	.14	.14	.14	.14	.14
		PDI-812-2	≤2.0 & > 0[1] in. wc	.31	.32	.31	.31	.32	.32	.32
		PDI-812-3	≤2.0 & > 0[1] in. wc	.31	.32	.31	.32	.32	.32	.32
		PDI-812-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-812-5	≤2.0 & > 0[1] in. wc	.29	.29	.29	.29	.29	.29	.29
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.03	.03	.03	.04	.04	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc	.33	.34	.34	.33	.33	.33	.33
		PDI-865-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.04	.04	.05	.05
		PDI-863-2	≤2.0 & >0[1] in. wc	.42	.43	.43	.43	.42	.42	.41

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

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			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:	nm	JM	nm	JM	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.10	.12	.12	.11	.12	.12	.12
		PDI-857-2	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.50	.50	.50
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.04	.04	.04	.04
		PDI-856-2	≤2.0 & > 0[1] in. wc	.69	.70	.69	.69	.71	.71	.71
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0755	0912	0910	0945	0735	0826	0756
			OC Operator Review and Page Count Complete (initials)	RSD NE			NDC	RSD	a	a

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Paul Zirilla Date 5-19-13 Time 0756 Reviewed by: _____ Date 5-20-13 Time 1108

On-duty Supervisor

Comments: _____

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

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				Date:	5/20/13	5/21/13	5-22-13	5-23-13	5/24/13	05/25/13	05/26/13
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	RH	RH	nm	nm	RH	mm	mm
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**							
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	.16	.14	.16	.16
		PDI-840-2	≤2.0 & > 0 in[1]. wc	Stby	Stby	STBY	.52	.52	.52	.52
		PDI-840-3	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	.52	.51	.51	.51
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.44	.44	.45	STBY	Stby	Stby	Stby
		PDI-841-2	≤2.0 & > 0[1] in. wc	52	.52	.52	STBY	Stby	Stby	Stby
		PDI-841-3	≤2.0 & > 0[1] in. wc	50	.50	.50	STBY	Stby	Stby	Stby
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.32	.32	.32	.32	.32	.32	.32
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.41	.40	.41	.41	.40	.40
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35	.35	.33	.33
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.24	.24	.24	.24	.24	.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80	.80	.80	.80	.80	.80	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc	.48	.49	.49	.49	.48	.48	.48
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	off	off	OFF	OFF	off	off	off
		PDI-809-2	≤2.0 & > 0[1] in. wc	off	off	OFF	OFF	off	off	off
		PDI-809-3	≤2.0 & > 0[1] in. wc	off	off	OFF	OFF	off	off	off

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

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			Date:	5/20/13	5/21/13	5-22-13	5-23-13	5/24/13	05/25/13	05/26/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	RH	RH	nm	nm	RH	mmj	mmj
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.09	.09	.07	.05	.06	.05	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.29	.30	.22	.20	.22	.20	.20
		PDI-829-3	≤2.0 & > 0[1] in. wc	.27	.27	.20	.20	.21	.19	.19
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.92	.92	.91	.91	.92	.92	.92
		PDI-833-2	≤2.0 & > 0[1] in. wc	.46	.47	.45	.46	.46	.46	.45
		PDI-833-3	≤2.0 & > 0[1] in. wc	.44	.44	.45	.45	.45	.45	.43
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.45	.45	.44	.44	.45	.45	.45
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.41	.40	.40	.41	.40	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	STBY	.19	.19	.20
		PDI-815-2	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	STBY	.41	.41	.41
		PDI-815-4	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	STBY	.38	.28	.38
		PDI-815-5	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	STBY	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.38	.38	.38	.38	Stby	Stby	Stby
		PDI-816-2	≤2.0 & > 0[1] in. wc	.46	.46	.45	.44	Stby	Stby	Stby
		PDI-816-4	≤2.0 & > 0[1] in. wc	.46	.44	.45	.45	Stby	Stby	Stby
		PDI-816-5	≤2.0 & > 0[1] in. wc	.46	.44	.45	.46	Stby	Stby	Stby

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

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			Date:	5/20/13	5/21/13	5-22-13	5-23-13	5/24/13	05/25/13	05/26/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	RH	RH	mm	mm	RH	mm	mm
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.14	.14	.14	.14	Stby	Stby	Stby
		PDI-812-2	≤2.0 & > 0[1] in. wc	.32	.32	.32	.31	Stby	Stby	Stby
		PDI-812-3	≤2.0 & > 0[1] in. wc	.32	.32	.32	.32	Stby	Stby	Stby
		PDI-812-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	Stby	Stby	Stby
		PDI-812-5	≤2.0 & > 0[1] in. wc	.30	.30	.29	.29	Stby	Stby	Stby
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	STBY	.66	.67	.67
		PDI-813-2	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	STBY	.29	.25	.28
		PDI-813-3	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	STBY	.24	.26	.27
		PDI-813-4	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	STBY	.30 RH 5/24/13	.29	.29
		PDI-813-5	≤2.0 & > 0[1] in. wc	Stby	Stby	STBY	STBY	.21	.21	.20
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.04	.03	.03	.03	.03	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc	.33	.32	.35	.35	.33	.33	.33
		PDI-865-3	≤2.0 & > 0[1] in. wc	.42	.40	.42	.42	.40	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.05	.04	.04	.04	.04	.04	.04
		PDI-863-2	≤2.0 & >0[1] in. wc	.41	.41	.42	.42	.42	.40	.40

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

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			Date:	5/20/13	5/21/13	5-22-13	5-23-13	5/24/13	05/25/13	05/26/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	RH	RH	nm	nm	RH	MW	MW
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤2.0 & > 0[1] in. wc	.11	.13	.11	.11	.15	.15	.13
		PDI-857-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.04	.05	.05	.05
		PDI-856-2	≤2.0 & > 0[1] in. wc	.70	.71	.71	.72	.71	.71	.72
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	1140	1030	0840	0835	0848	0840	0900
			OC Operator Review and Page Count Complete (initials)	BC DBP	DBP RG	a	a	DBP BC	DBP BC	BC DBP

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Michael M. Irish Date 05/26/13 Time 0900 Reviewed by: _____ Date: 6-3-13 Time: 0905

On-duty Supervisor

Comments: _____

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

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			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:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.15	.15	.15	.15	.16		
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52	.52	.52	.52	.52		
		PDI-840-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.52		
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-841-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-841-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.32	.32	.32	.32	.32		
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.40	.40	.41	.41		
		PDI-831-3	≤2.0 & > 0[1] in. wc	~~.35~~ .35	.35	.32	.34	.35		
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.24		
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.52	.51	.51		
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49		
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11		
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80	.80	.80	.80	.81		
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.50		
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	off	off	off	off	off		
		PDI-809-2	≤2.0 & > 0[1] in. wc	off	off	off	off	off		
		PDI-809-3	≤2.0 & > 0[1] in. wc	off	off	off	off	off		

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

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			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:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.05	.05	.05	.06	.10		
		PDI-829-2	≤2.0 & > 0[1] in. wc	.20	.20	.20	.20	.32		
		PDI-829-3	≤2.0 & > 0[1] in. wc	.19	.19	.19	.19	.30		
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.91	.91	.91	.91	.92		
		PDI-833-2	≤2.0 & > 0[1] in. wc	.46	.45	.48	.47	.47		
		PDI-833-3	≤2.0 & > 0[1] in. wc	.44	.45	.45	.44	.45		
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13		
		PDI-835-2	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.45		
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40		
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	.19	.20	.19	.19	.19		
		PDI-815-2	≤2.0 & > 0[1] in. wc	.41	.42	.40	.41	.40		
		PDI-815-4	≤2.0 & > 0[1] in. wc	.38	.39	.38	.38	.38		
		PDI-815-5	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.39		
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-816-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-816-4	≤2.0 & > 0[1] in. wc.	STBY	STBY	STBY	STBY	STBY		
		PDI-816-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		

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

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			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:	[illegible]	[illegible]	[illegible]	[illegible]	nm		
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-812-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-812-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-812-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-812-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.67	.67	.67	.67	.66		
		PDI-813-2	≤2.0 & > 0[1] in. wc	.29	.29	.29	.29	.29		
		PDI-813-3	≤2.0 & > 0[1] in. wc	.29	.29	.25	.28	.29		
		PDI-813-4	≤2.0 & > 0[1] in. wc	.30	.30	.29	.30	.29		
		PDI-813-5	≤2.0 & > 0[1] in. wc	.21	.21	.21	.21	.21		
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.04	.03		
		PDI-865-2	≤2.0 & > 0[1] in. wc	.33	.33	.32	.32	.34		
		PDI-865-3	≤2.0 & > 0[1] in. wc	.41	.41	.42	.41	.42		
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.04	.05	.05	.04	.04		
		PDI-863-2	≤2.0 & >0[1] in. wc	.42	.41	.42	.42	.42		

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

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			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:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤2.0 & > 0[1] in. wc	.13	.14	.11	.13	.12		
		PDI-857-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50		
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.05	.05	.05	.05	.04		
		PDI-856-2	≤2.0 & > 0[1] in. wc	.71	.72	.71	.71	.72		
[1]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		
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	SAT		
			Completion time	0840	0950	0813	0817	0742		
			OC Operator Review and Page Count Complete (initials)	[illegible]	[illegible]	[illegible] BC	BC KB	[illegible]		

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Nelson Montoya Date 5-31-13 Time 0742 Reviewed by: [signature] Date 6-3-13 Time: 0900

On-duty Supervisor

Comments: _____

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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.	0908	5/8/13	TH
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.	0820	5/8/13	TH
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.	0832	5/8/13	TH
			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. 6 Seconds	(Sat.) / Unsat.	0832	5/8/13	TH

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ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	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.	0839	5/8/13	[illegible]
			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. B Seconds	(Sat.)/ Unsat.	0839	5/8/13	[illegible]
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	(Sat.)/ Unsat.	0903	5/8/13	[illegible]
4.1.3.2	Confinement Door DR-90	South Basement Door (Tunnel)	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.	0853	5/8/13	[illegible]
					OC Operator Review and Page Count Complete		

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: J. Romanello Date 5/8/13 Time 0912 Reviewed by: [signature] Date: 5-13-13 Time: 0835

On-duty Supervisor Comments: * DR-149 missing Door Label

ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)

(Page 1 of 2)

SR	Description		Acceptance Criteria	Sat. / Unsat.	Completion Time:	Date:	Initials:
	Channel #	Location					
4.2.1.1	1	Rm. 201	> 1 mR/hr	(Sat.) / Unsat.	0632	5/1/13	
	2	Rm. 106	> 1 mR/hr	(Sat.) / Unsat.	0632	5/1/13	
	3	Rm. 305	> 1 mR/hr	(Sat.) / Unsat.	0632	5/1/13	
	4	Rm. 401	> 1 mR/hr	(Sat.) / Unsat.	0632	5/1/13	
	5	Rm. 206	> 1 mR/hr	(Sat.) / Unsat.	0633	5/1/13	
	6	Rm. 114	> 1 mR/hr	(Sat.) / Unsat.	0633	5/1/13	
	7	Rm. 319 W	> 1 mR/hr	(Sat.) / Unsat.	0633	5/1/13	
	8	Rm. 409	> 1 mR/hr	(Sat.) / Unsat.	0633	5/1/13	
	9	Rm. 208	> 1 mR/hr	(Sat.) / Unsat.	0633	5/1/13	
	10	Rm. 124	> 1 mR/hr	(Sat.) / Unsat.	0633	5/1/13	
	11	Rm. 319 E	> 1 mR/hr	(Sat.) / Unsat.	0633	5/1/13	
	12	Rm. 420	> 1 mR/hr	(Sat.) / Unsat.	0633	5/1/13	
	13	Rm. 209	> 1 mR/hr	(Sat.) / Unsat.	0634	5/1/13	
	14	Rm. 126	> 1 mR/hr	(Sat.) / Unsat.	0634	5/1/13	
	15	Rm. 327	> 1 mR/hr	(Sat.) / Unsat.	0634	5/1/13	
	16	Rm. 429	> 1 mR/hr	(Sat.) / Unsat.	0634	5/1/13	
	17	Vault 17	> 1 mR/hr	(Sat.) / Unsat.	0634	5/1/13	
4.2.2.1	18	Vault 18	> 1 mR/hr	(Sat.) / Unsat.	0634	5/1/13	
	19	Vault 19	> 1 mR/hr	(Sat.) / Unsat.	0634	5/1/13	
	20	Vault 20	> 1 mR/hr	(Sat.) / Unsat.	0634	5/1/13	

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)

Completed by: _____ Date 5/1/13 Time 0635 Reviewed by: _____ Date: 5-1-13 Time: 1325
On-duty Supervisor

Comments:

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Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA 55 · STP · 004 R15.1
Date of issue:	04·01·13
Working copy issued to:	BRISCOE
Working copy issued by:	CHANCE
	Certified Operations Center Operator

Operations Center Operator Review

[signature] 5/6/13

Signature Date

Required Reading for this Surveillance has been completed.

Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R BRISCOE	BC	04·01·13
B CHANCE	BC	04·01·13
D DUNLAVY	BC	04·01·13
A DUNBETH	BC	04·01·13
R LUM	BC	04·01·13
A ORTIZ	BC	04·01·13
F SEYBERT	BC	04·01·13
M WITTMAN	BC	04·01·13
N CHAVES	BC	04·01·13
J SMELTZ	BC	04·01·13

Comments:

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

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R HOHNER	BC	04.01.13
J MARTINEZ	BC	04.01.13
T LANGWORTHY	BC	04.01.13
P TRUJILLO	BC	04.01.13
N MONTOYA	BC	04.01.13
A SANCHEZ	BC	04.01.13
C CORIZ	BC	04.01.13
M LEISH	BC	04.01.13
A HERRERA	BC	04.01.13

ATTACHMENT A: Per Shift Surveillance Rounds

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Note			Date:	4/1/13		4/2/13		4/3/13		4-4-13		4/5/13		4/6/13		4/7/13	
Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.			Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			Initials:	[illegible]	[illegible]	[illegible]	[illegible]	DAD	BC	[illegible]	BC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc[1]	-2.02	-2.03	-2.01	-2.01	-2.01	-2.04	-2.03	-2.03	-2.03	-2.06	-2.06	-2.06	-2.02	-2.02
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc[1]	-1.89	-1.89	-1.90	-1.88	-1.88	-1.90	-1.88	-1.88	-1.89	-1.89	-1.90	-1.89	-1.89	-1.89
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc[1]	-1.97	-1.98	-1.99	-1.96	-1.98	-1.98	-1.98	-1.97	-1.98	-1.97	-1.99	-1.99	-1.99	-1.99
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc[1]	-2.04	-1.96	-1.89	-1.91	-1.98	-2.04	-2.04	-1.98	-1.88	-1.94	-2.00	-2.04	-1.93	-2.03
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc[1]	-.16	-.18	-0.16	-.17	-.17	-.17	-.16	-.15	-.17	-.18	-.17	-.18	-.16	-.18
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc[1]	-.20	-.21	-0.20	-.20	-.20	-.20	-.20	-.19	-.20	-.21	-.20	-.21	-.20	-.21
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc[1]	-.20	-.21	-0.21	-.21	-.20	-.23	-.22	-.21	-.22	-.22	-.21	-.22	-.21	-.22
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc[1]	-.19	-.19	-0.20	-.20	-.19	-.24	-.20	-.20	-.20	-.20	-.20	-.20	-.19	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	-.19	-.19	-0.19	-.19	-.19	-.19	-.19	-.20	-.19	-.19	-.19	-.19	-.19	-.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-.10	-.09	-0.10	-.10	-.10	-.10	-.10	-.10	-.09	-.11	-.10	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-.09	-.11	-0.11	-.12	-.12	-.13	-.12	-.14	-.12	-.14	-.13	-.14	-.13	-.14
	IRT Tunnel ΔP	PDT-901 or PDI-901	< 0.00 in. wc	-.127	-.123	-0.124	-.134	-.128	-.144	-.134	-.155	-.130	-.143	-.119	-.138	-.127	-.138

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				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.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:														
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

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.	
Shift:			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Initials:																
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0751	1930	0740	1930	0705	1942	0630	1932	0727	1930	0732	1930	0727	1930

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: _____ Date 4-7-13 Time 1930 Reviewed by: _____ Date: 4-8-13 Time: 0000
On-duty Supervisor

Comments: _____

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

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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:	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:	nm	nm	JDC	PT	nm	PT	PT
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	CP-305-H (LED Reading)		0.3	0.3	0.3	0.3	0.3	0.3	0.3
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1; ≤+0.1	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0850	0748	0818	0808	0747	0740	0738

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

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			Date:	4-1-13	4-2-13	4-3-13	4-4-13 (nm 4-14-13)	4-5-13	4-6-13	4-7-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	nm	DLG	nm	nm	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.09	.09	.09	.09	.09	.09	.09
		PDI-894-2	≤2.0 & > 0[1] in. wc	.49	.49	.49	.48	.47	.49	.49
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.11	.10	.10	.11	.11	.11	.11
		PDI-895-2	≤2.0 & > 0[1] in. wc	.91	.90	.91	.95	.95	.91	.91
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.28	.28	.28	.28
		PDI-817-2	≤2.0 & > 0[1] in. wc	.30	.30	.30	.31	.31	.31	.31
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35	.35	.32	.35	.36	.33	.33
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

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			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:	nm	nm	DW	nm	nm	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.59	.59	.61	.61	.67	.67	.66
		PDI-822-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.51
		PDI-822-4	≤2.0 & > 0[1] in. wc	.40	.41	.42	.42	.44	.42	.43
		PDI-822-5	≤2.0 & > 0[1] in. wc	.45	.47	.49	.48	.49	.50	.49
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.60	.59	.60	.59	.60	.60	.60
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.35	.35	.34	.36	.35	.35
		PDI-830-3	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.89	.89	.89	.89	.89	.89	.89
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.55	.55	.56	.55	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.61	.61	.61	.62	.62	.62	.62
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.51	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.47	.47	.48	.47	.47	.47	.47

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

(Page 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:	nm	nm	DW	nm	nm	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
		PDI-838-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.39	.39	.39	.39	.39	.39
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.30	.29	.29	.29	.30	.30	.30
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI -811 -2	≤2.0 & > 0[1] in. wc	.47	.47	.48	.47	.45	.43	.42
		PDI -811 -3	≤2.0 & > 0[1] in. wc	.48	.48	.48	.48	.47	.44	.45
			Completion Time	0813	0815	0808	0835	0830	0735	0711
OC Operator Review and Page Count Complete (initials)				a	a RSB		RSB	a	a	a

[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 as stated in LCO 3 1.3.

Completed by: Paul Trujillo Date 4-7-13 Time 0711 Reviewed by: [signature] Date: 4-8-13 Time: 0750
On-duty Supervisor

Comments _____

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

(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.	Sat.	Sun.
			Initials:	nm	dcc	dcc	PT	dh	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.16	.16	.16	.16	.16	.16	.16
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.53	.52	.52	.52	.52	.52	.52
		PDI-840-3	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.32	.32
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.41	.40	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.36	.38	.35	.35	.35	.34	.35
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.23	.23	.23
		PDI-832-2	≤2.0 & > 0[1] in. wc	.52	.51	.51	.51	.52	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	.07	.06	.06	.06	.06	.06	.06
		PDI-809-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-809-3	≤2.0 & > 0[1] in. wc	.48	.48	.49	.49	.48	.49	.49

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Date:	4-1-13	4-2-13	4-3-13	4-4-13	4-5-13	4-6-13	4-7-13
			Initials:	nm	[illegible]	[illegible]	PT	[illegible]	PT	PT
				SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.06	.06	.07	.07	.06	.06	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.21	.21	.28	.22	.22	.22	.22
		PDI-829-3	≤2.0 & > 0[1] in. wc	.20	.20	.25	.21	.21	.21	.21
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.89	.90	.90	.91	.90	.90	.90
		PDI-833-2	≤2.0 & > 0[1] in. wc	.46	.47	.48	.48	.48	.48	.47
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.44	.45	.45	.44	.45	.44	.44
		PDI-835-3	≤2.0 & > 0[1] in. wc	.41	.40	.40	.40	.40	.40	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	.19	.19	.19	.19	.20	.19	.19
		PDI-815-2	≤2.0 & > 0[1] in. wc	.41	.40	.40	.41	.41	.41	.41
		PDI-815-4	≤2.0 & > 0[1] in. wc	.37	.38	.35	.38	.38	.38	.38
		PDI-815-5	≤2.0 & > 0[1] in. wc	.40	40	.39	.39	.40	.39	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

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			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:	nm	[illegible]	[illegible]	PT	[illegible]	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.74	.74	.67	.67	.67	.67	.67
		PDI-813-2	≤2.0 & > 0[1] in. wc	.30	.30	.28	.28	.30	.29	.29
		PDI-813-3	≤2.0 & > 0[1] in. wc	.31	.30	.28	.28	.30	.28	.28
		PDI-813-4	≤2.0 & > 0[1] in. wc	.30	.30	.29	.29	.30	.29	.29
		PDI-813-5	≤2.0 & > 0[1] in. wc	.25	.25	.22	.22	.21	.22	.22
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.04	.04	.04	.04	.04	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc	.36	.35	.35	.35	.35	.35	.35
		PDI-865-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.40	.41	.41
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.06	.04	.06	.06	.05	.06	.06
		PDI-863-2	≤2.0 & >0[1] in. wc	.41	.40	.40	.41	.40	.41	.41

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Date:	4-1-13	4-2-13	4-3-13	4-4-13	4-5-13	4-6-13	4-7-13
			Initials:	nm	sr	sr	PT	[illegible]	PT	PT
				SURVEILLANCE RESULTS						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤2.0 & > 0[1] in. wc	.18	.19	.19	.19	.19	.19	.19
		PDI-857-2	≤2.0 & > 0[1] in. wc	.47	.48	.48	.47	.48	.48	.48
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.11	.10	.10	.10	.11	.11	.11
		PDI-856-2	≤2.0 & > 0[1] in. wc	.71	.71	.71	.71	.71	.71	.71
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0900	0810	0815	0835	0823	0746	0742
			OC Operator Review and Page Count Complete (initials)	a [illegible]	a BB	[illegible]	[illegible] BB	[illegible] a	a [illegible]	[illegible] c

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Paul [illegible] Date 4-7-13 Time 0742 Reviewed by: [signature] On-duty Supervisor Date: 4-8-13 Time: 0748

Comments:

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040375
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		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:	PT	Th	Th	Th	Th		a
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[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[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	50.7	51.1	51.2	51.9	52.7	53.5	54.4
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	65.1	63.7	61.4	62.2	63.5	65.4	66.2
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	64.2	66.2	60.3	59.8	58.5	60.0	61.1
		Completion Time:	0918	0825	0845	0825	0815	1010	0934
OC Operator Review and Page Count Complete (initials)			a	RB a	RB	RB	a	a	a

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: _____ Date 4-7-13 Time 0934

Reviewed by: Brent R Dutt Date: 4-8-13 Time: 0745
On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	04-08-13		04-09-13		4-10-13		4/11/13		4/12/13		4/13/13		04-14-13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	BC		BC										BC	
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.02	-2.03	-2.03	-2.05	-2.03	-2.03	-2.03	-2.03	-2.03	-2.03	-2.04	-2.03	-2.02	-2.01
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.89	-1.87	-1.90	-1.86	-1.88	-1.89	-1.89	-1.90	-1.87	-1.89	-1.89	-1.89	-1.89	-1.88
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.97	-1.98	-1.99	-1.97	-1.98	-1.99	-1.99	-1.99	-1.97	-1.98	-1.98	-1.99	-1.99	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.95	-1.92	-1.91	-2.04	-2.04	-1.88	-1.87	-1.88	-1.99	-2.03	-2.03	-2.02	-2.02	-2.03
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.18	0.19	-.19	-0.19	-0.19	-.19	0.19	-.19	-0.19	0.19	-.19	0.20	-.17	0.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.21	0.22	-.22	0.22	-0.22	-.22	0.22	-.23	0.22	0.23	-.23	0.23	-.19	0.22
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.23	0.20	-.21	0.22	-0.22	-.21	0.21	-.22	0.22	0.22	-.23	0.23	-.19	0.21
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.21	0.19	-.19	0.21	-0.20	-.19	0.20	-.21	0.20	0.20	-.21	0.20	-.18	0.19
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	0.21	-.19	0.19	-0.19	-.19	0.19	-.19	0.19	0.19	-.19	0.19	-.18	0.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	0.11	-.10	0.10	-0.10	-.12	0.10	-.10	0.10	0.10	-.10	0.10	-.10	0.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.13	0.15	-.13	0.13	-0.13	-.10	0.13	-.13	0.13	0.13	-.13	0.13	-.12	0.13
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.135	0.146	-.137	0.132	-0.136	-.126	0.129	-.123	0.124	0.132	-.132	0.135	-.134	0.135

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	04.8.13		04.09.13		4/10/13		4/11/13		4/12/13		4/13/13		04.14.13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	BC		BC		DAO		KB				DAO		BC	
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

				Date:	04.08.13		04.09.13		4/10/13		4/11/13		4/12/13		4/13/13		04.14.13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	BC		BC		BM		BB				BM		BC	
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0717	1928	0724	1932	0737	1930	0735	1930	0724	1928	0731	1932	0727	1928

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: _____ Date 4/4/13 Time 1928 Reviewed by: _____ Date: 4-15-13 Time: 1045
On-duty Supervisor

Comments: _____

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

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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:	4/8/13	4-9-13	4-10-13	4-11-13	4-12-13	4/13/13	04/14/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	JM	DK	DK	PT	PT	[illegible]	[illegible]
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.3	005	005	005	005	005	005
	CP-305-H (LED Reading)		0.3	005	005	005	005	005	005
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	005	005	005	005	005	005
		≥ -0.1; ≤+0.1	Sat. / Unsat.	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005
		Completion Time:	0845	0839	0817	0733	0738	0815	0811

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

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SRs	Description	Gauge	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Date:	4/8/13	4/8/13	4/10/13	4-11-13	4-12-13	4/13/13	04/14/13
			Initials:	[illegible]	[illegible]	[illegible]	PT	PT	[illegible]	[illegible]
				SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.09	.09	.09	.09	.09	.10	.09
		PDI-894-2	≤2.0 & > 0[1] in. wc	.48	.49	.49	.49	.48	.48	.48
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.11	.11	.11	.13	.13	.13	.13
		PDI-895-2	≤2.0 & > 0[1] in. wc	.91	.95	.95	.97	1.0	1.0	1.0
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.28	.27	.28	.28	.28	.28	.28
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.31	.30	.31	.31	.30	30
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.30	.30	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.40	.40
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.40	.41	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	.36	.32	.32	.32	.32	.32	.32
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	Stby

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

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			Date:	4/8/13	4-9-13	4-10-13	4-11-13	4-12-13	4/13/13	04/14/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:				PT	PT	DWH	
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.65	.65	.65	.66	.66	.65	.65
		PDI-822-2	≤2.0 & > 0[1] in. wc	.51	.50	.50	.50	.50	.50	.50
		PDI-822-4	≤2.0 & > 0[1] in. wc	.42	.42	.42	.41	.42	.42	.42
		PDI-822-5	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.50	.50
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.59	.60	.60	.59	.59	.60	.60
		PDI-830-2	≤2.0 & > 0[1] in. wc	.36	.35	.35	.35	.35	.35	.35
		PDI-830-3	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.89	.89	.89	.89	.89	.90	.90
		PDI-836-2	≤2.0 & > 0[1] in. wc	.54	.55	.55	.55	.55	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.61	.61	.62	.62	.62	.62	.61
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.49
		PDI-837-3	≤2.0 & > 0[1] in. wc	.46	.45	.45	.45	.45	.45	.45

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

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			Date:	4/8/13	4-9-13	4-10-13	4-11-13	4-12-13	4/13/13	4/14/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	DM	DM	PT	PT	DAO	MMN
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.29	.30	.30	.30	.30	.30	.29
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.40	.40	.41	.41	.40	.40
		PDI-838-3	≤2.0 & > 0[1] in. wc	.39	.39	.39	.39	.39	.40	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.28	.29	.29	.29	.29	.30	.30
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.42	.42	.41	.41	.41	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.42	.41	.41	.41	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	off	.15	.15	.15	.15	.15	.15
		PDI-810-2	≤2.0 & > 0[1] in. wc	off	.48	.48	.48	.48	.49	.48
		PDI-810-3	≤2.0 & > 0[1] in. wc	off	.42	.45	.45	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	.11	off	off	OFF	OFF	OFF	off
		PDI -811 -2	≤2.0 & > 0[1] in. wc	.45	off	off	OFF	OFF	OFF	off
		PDI -811 -3	≤2.0 & > 0[1] in. wc	.46	off	off	OFF	OFF	OFF	off
			. Completion Time	0930	0810	0827	0720	0714	0547	0852
OC Operator Review and Page Count Complete (initials)				RSB DMN	DMN BC	DMN	RSB	DMN BC 1140	DAO BC	BC DMN

[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 as stated in LCO 3.1.3.

Completed by: Michael Irish Date 04/14/13 Time 0839 Reviewed by: Brent L Ost Date: 4-15-13 Time: 1047
On-duty Supervisor

Comments SR 4.4.1.1 out of service 4/9/13
SAME AS Above 4/10/13

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

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			Date:	4/8/13	4-9-13	4-10-13	4-11-13	4-12-13	4/13/13	04-14-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	JM	PT	PT	DMO	BC
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.15	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	.51	STBY	STBY	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	STBY	.44	.44	.44	.44	.44	.44
		PDI-841-2	≤2.0 & > 0[1] in. wc	STBY	.52	.51	.52	.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc	STBY	.50	.50	.50	.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.32	.32	.32	.32	.32
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.40	.40	.41	.41	.40	.40
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.32	.32	.32	.35	.33	.33
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.23	.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.50	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	off	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	off	.80	.80	.80	.80	.80	.79
		PDI-807-3	≤2.0 & > 0[1] in. wc	off	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	.06	off	off	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	.51	off	off	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	.47	off	off	OFF	OFF	OFF	OFF

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

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			Date:	4/8/13	4-9-13	4-10-13	4-11-13	4-12-13	4/13/13	04.14.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	DLC	DLC	PT	PT	DAN	BE
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.05	.06	.08	.08	.06	.05	.05
		PDI-829-2	≤2.0 & > 0[1] in. wc	.21	.25	.29	.29	.24	.28	.20
		PDI-829-3	≤2.0 & > 0[1] in. wc	.19	.22	.25	.25	.22	.22	.20
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.89	.89	.90	.91	.91	.90	.90
		PDI-833-2	≤2.0 & > 0[1] in. wc	.46	.45	.48	.48	.48	.48	.47
		PDI-833-3	≤2.0 & > 0[1] in. wc	.44	.45	.45	.45	.43	.46	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.43	.42	.42	.42	.42	.43	.43
		PDI-835-3	≤2.0 & > 0[1] in. wc	.41	.40	.40	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	.21	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc	.43	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	.38	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	.40	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	STBY	.48	.38	.38	.38	.38	.38
		PDI-816-2	≤2.0 & > 0[1] in. wc	STBY	.45	.45	.45	.45	.45	.44
		PDI-816-4	≤2.0 & > 0[1] in. wc	STBY	.45	.42	.43	.44	.45	.45
		PDI-816-5	≤2.0 & > 0[1] in. wc	STBY	.45	.45	.45	.45	.45	.45

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

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			Date:	4/8/13	4-9-13	4-10-13	4-11-13	4-12-13	4/13/13	04.14.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	[illegible]	PT	PT	[illegible]	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	STBY	.14	.14	.14	.14	.15	.14
		PDI-812-2	≤2.0 & > 0[1] in. wc	STBY	.31	.31	.31	.31	.32	.32
		PDI-812-3	≤2.0 & > 0[1] in. wc	STBY	.32	.32	.32	.32	.32	.32
		PDI-812-4	≤2.0 & > 0[1] in. wc	STBY	.30	.30	.31	.31	.31	.31
		PDI-812-5	≤2.0 & > 0[1] in. wc	STBY	.29	.29	.29	.29	.30	.30
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.67	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc	.29	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc	.29	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc	.30	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc	.23	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.04	.04	.04	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc	.34	.35	.32	.33	.33	.33	.34
		PDI-865-3	≤2.0 & > 0[1] in. wc	.41	.40	.40	.41	.41	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.06	.04	.06	.06	.07	.06	.07
		PDI-863-2	≤2.0 & >0[1] in. wc	.40	.40	.41	.41	.41	.40	.41

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

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			Date:	4/8/13	4-9-13	4-10-13	4-11-13	4-12-13	4/13/13	04.14.13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:				PT	PT	DAO	BC
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.12	.19	.19	.19	.19	.19	.19
		PDI-857-2	≤2.0 & > 0[1] in. wc	.57	.58	.58	.58	.58	.58	.49
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.12	.10	.10	.10	.10	.10	.11
		PDI-856-2	≤2.0 & > 0[1] in. wc	.71	.65	.65	.65	.68	.68	.69
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0915	0833	0843	0754	0747	0835	0838
			OC Operator Review and Page Count Complete (initials)	RB DAO	BC DAO	DAO	RB	BC DAO NO	DAO BC	BC DAO

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: _____ Date: 4-14-13 Time: 0838 Reviewed by: _____ Date: 4-15-13 Time: 1048

On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

		039745 4 AB 4-8-13	M&TE Calibrated Data	2 AB 4-8-13		
Record September through April only	PF-10 Thermometer File No.:	039746 AB 4-8-13	PF-10 Thermistor File No.:	042754	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)			Date:	4-8-13	4-9-13	4/10/13	4-11-13	4-12-13	04.13.13	4/14/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	AB	mm	TH	mm	RH	BC	DMD
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/UNSAT	SAT/UNSAT	SAT/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F		52.8	52.9	50.8	49.6	50.0	50.0	50.7
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F		54.6	53.8	51.4	50.9	51.2	52.0	52.8
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F		62.6	62.1	59.8	59.3	61.3	61.6	62.4
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F		59.1	59.0	65.0	63.9	66.2	68.4	65.3
		Completion Time:		9:57	0833	0844	0844	0914	0902	0930
OC Operator Review and Page Count Complete (initials)				DMD BC	DMD BC	DMD RSB	RSB	DMD BC	DMD BC	DMD BC

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: Derek Day Date 4/14/13 Time 0930

Reviewed by: Brent R Ortiz Date: 4-15-13 Time: 1049
On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	4-15-13		4-16-13		4/17/13		4/18/13		4-19-13		4-20-13		4-21-13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	D	a	D	a	[illegible]	a	[illegible]	[illegible]	D	a	[illegible]	a	D	a
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.03	-2.04	-2.01	-2.02	-2.04	-2.03	-2.03	-2.03	-2.03	-2.00	-2.04	-2.06	-2.02	-2.03
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.88	-1.88	-1.88	-1.88	-1.90	-1.89	-1.90	-1.90	-1.88	-1.89	-1.88	-1.90	-1.89	-1.90
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-1.98	-1.98	-1.97	-1.97	-1.98	-1.98	-1.98	-1.99	-1.98	-1.97	-1.98	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-2.04	-1.98	-1.98	-2.03	-2.02	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.88	-2.03	-2.04
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.19	-.19	-.19	-.20	-0.19	-0.18	-0.18	-0.19	-.19	-.19	-0.20	-.21	-.19	-.21
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.23	-.22	-.24	-.24	-0.23	-0.21	-0.22	-0.20	-.20	-.22	-0.22	-.23	-.22	-.22
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.22	-.22	-.22	-.22	-0.22	-0.22	-0.21	-0.21	-.20	-.21	-0.22	-.22	-.22	-.20
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.20	-.20	-.21	-.21	-0.21	-0.21	-0.19	-0.19	-.19	-.20	-0.21	-.20	-.20	-.19
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-.19	-.18	-0.19	-0.19	-0.19	-0.19	-.19	-.19	-0.19	-.19	-.19	-.18
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	-.10	-.10	-.09	-0.10	-0.10	-0.10	-0.10	-.10	-.10	-0.10	-.09	-.10	-.09
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.13	-.14	-.13	-.13	-0.14	-0.13	-0.12	-0.13	-.13	-.13	-0.13	-.12	-.12	-.12
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.131	-.138	-.136	-.132	-0.136	-0.140	-0.00	-0.131	-.134	-.132	-0.129	-.128	-.131	-.149

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.		Date:	4-15-13		4-16-13		4/17/13		4/18/13		4-19-13		4-20-13		4-21-13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**												
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

				Date:	4-15-13		4-16-13		4/17/13		4/18/13		4-19-13		4-20-13		4-21-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS** Sat. / Unsat. (circle one)													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0630	1934	0630	1926	0730	1932	0718	1905	0630	1954	0733	1933	0730	1936

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 [signature] Date 4-21-13 Time 1939 Reviewed by: [signature] Date: 4-25-13 Time: 0710
On-duty Supervisor

Comments: _____

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

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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:	4-15-13	4-16-13	4-17-13	4-18-13	4-19-13	4-20-13	4-21-13 ~~4-21-13~~ 4/21/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	mm	mm	DLC	JM	mm	JM	JM
SR 4.4.1.1	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.2	0.2	0.2	009	005	005	005
	CP-305-H (LED Reading)		0.2	0.2	0.2	009	005	005	005
	(DET-305-3) – (CP-305H)	Record Calculated Value	0.0	0.0	0.0	009	005	005	005
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat. 009	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005
		Completion Time:	0756	0822	0812	0859	0711	0811	0801

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

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			Date:	4-15-13	4-16-13	4-17-13	4-18-13	4-19-13	4-20-13	4-21-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	nm	der	jm	nm	jm	jm jm
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.09	.10	.10	.10	.10	.09	.09
		PDI-894-2	≤2.0 & > 0[1] in. wc	.47	.47	.48	.48	.49	.49	.49
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.13	.13	.12	.11	.14	.13	.14
		PDI-895-2	≤2.0 & > 0[1] in. wc	1.0	1.0	1.0	jm 4-18-0 1.0	.98	.98	.98
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27	.28	.29	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0[1] in. wc	.30	.31	.31	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	STBY	STBY	STBY	STBY
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.40	STBY	STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35	.35	.35	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.25	.24	.24	.24
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STB	.30	.30	.30	.31
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.31	.32	.32	.31
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.29	.29	.29	.28
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.40	.41	.40	.40
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.45	.45	.45	.44
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.39	.39	.39	.39

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

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			Date:	4-15-13	4-16-13	4-17-13	4-18-13	4-19-13	4-20-13	4/21/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	nm	[illegible]	JM	nm	JM	JM
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.67	.66	.66	STBY	STBY	STBY	.66
		PDI-822-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	STBY	STBY	STBY	.51
		PDI-822-4	≤2.0 & > 0[1] in. wc	.42	.42	.41	STBY	STBY	STBY	.41
		PDI-822-5	≤2.0 & > 0[1] in. wc	.50	.48	.50	STBY	STBY	STBY	.50
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.84	.85	.84	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.45	.45	.45	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.48	.47	.48	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.50	.50	.50	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.60	.59	.59	.59	.60	.59	.60
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.35	.38	.38	.35	.37	.36
		PDI-830-3	≤2.0 & > 0[1] in. wc	.31	.31	.32	.31	.32	.31	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.89	.89	.89	.89	.89	.89	.90
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.55	.55	.55	.55	.55	.54
		PDI-836-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.61	.62	.62	.62	.62	.62	.62
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.46	.47	.45	.45	.47	.47	.48

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

(Page 4 of 4)

			Date:	4-15-13	4-16-13	4-17-13	4-18-13	4-19-13	4-20-13	4/21/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	nm	DW	gm	nm	gm	gm
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.31	.31	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.41	.41	.40
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.38	.39	.39	.38	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.30	.30	.29	.29	.30	.30	.30
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.43	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.15	.15	.15	.15	.15	.15	.15
		PDI-810-2	≤2.0 & > 0[1] in. wc	.45	.45	.48	.48	.48	.47	.48
		PDI-810-3	≤2.0 & > 0[1] in. wc	.43	.43	.45	.45	.45	.45	.47
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			Completion Time	0830	0827	0822	0849	0703	0857	0826
OC Operator Review and Page Count Complete (initials)										

[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 as stated in LCO 3.1.3.

Completed by: [signature] Date 4/21/13 Time 0833 Reviewed by: [signature] Date: 4-25-13 Time: 0711
On-duty Supervisor

Comments 4/18/13 4.4.1.1 out of Service. 173968 gm

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

(Page 1 of 4)

			Date:	4-15-13	4-16-13	4-17-13	4-18-13	4-19-13	4-20-13	4-21-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	[illegible]	RH	[illegible]	nm	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.44	.44	.44	.41	.45	.45	.45
		PDI-841-2	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.51	.51
		PDI-841-3	≤2.0 & > 0[1] in. wc	.50	.51	.51	.50	.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.32	.31	.31	.31	.32	.31	.31
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.41	.40	.40	.40	.40	.40
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35	.35	.35	.34
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.23	.23	.23
		PDI-832-2	≤2.0 & > 0[1] in. wc	.52	.51	.51	.51	.52	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.48	.48	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.79	.79	.79	.79	.79	.79	.79
		PDI-807-3	≤2.0 & > 0[1] in. wc	.48	.48	.48	.49	.49	.49	.48
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	Off	off	off	off	Off	uff	uff
		PDI-809-2	≤2.0 & > 0[1] in. wc	Off	off	off	off	Off	off	off
		PDI-809-3	≤2.0 & > 0[1] in. wc	Off	off	off	off	Off	uff	off

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

(Page 2 of 4)

			Date:	4-15-13	4-16-13	4-17-13	4-18-13	4-19-13	4-20-13	4-21-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	[illegible]	ZH	[illegible]	nm	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.06	.06	.04	.08	.08	.06	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.22	.21	.22	.29	.29	.23	.25
		PDI-829-3	≤2.0 & > 0[1] in. wc	.20	.19	.20	.25	.26	.21	.22
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.90	.90	.90	.90	.90	.90	.90
		PDI-833-2	≤2.0 & > 0[1] in. wc	.47	.47	.47	.47	.46	.46	.46
		PDI-833-3	≤2.0 & > 0[1] in. wc	.44	.45	.45	.45	.45	.44	.44
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.45	.44	.45	.44	.45	.44	.44
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.40	.41	.40	.40	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.37	.37	.38	.37	.35	.35	.35
		PDI-816-2	≤2.0 & > 0[1] in. wc	.43	.43	.45	.45	.45	.43	.43
		PDI-816-4	≤2.0 & > 0[1] in. wc	.42	.42	.43	.42	.42	.43	.43
		PDI-816-5	≤2.0 & > 0[1] in. wc	.45	.46	.44	.45	.45	.45	.46

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

(Page 3 of 4)

			Date:	4-15-13	4-16-13	4-17-13	4-18-13	4-19-13	4-20-13	4-21-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	jm	RHL	jm	nm	jm	jm
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.14	.14	.13	.14	.14	.14	.13
		PDI-812-2	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-812-3	≤2.0 & > 0[1] in. wc	.30	.31	.30	.30	.31	.31	.31
		PDI-812-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-812-5	≤2.0 & > 0[1] in. wc	.29	.29	.29	.29	.29	.29	.29
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.03	.03	.03	.03	.03	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc	.35	.35	.32	.32	.35	.35	.35
		PDI-865-3	≤2.0 & > 0[1] in. wc	.41	.42	.38	.40	.41	.41	.41
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.08	.07	.08	.07	.09	.09	.09
		PDI-863-2	≤2.0 & >0[1] in. wc	.42	.42	.42	.42	.42	.42	.42

LA-UR-13-25881

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

(Page 4 of 4)

			Date:	4-15-13	4-16-13	4-17-13	4-18-13	4-19-13	4-20-13	4-21-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	[illegible]	ZH	[illegible]	nm	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.20	.19	.20	.19	.19	.18	.19
		PDI-857-2	≤2.0 & > 0[1] in. wc	.48	.48	.48	.48	.48	.48	.48
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.12	.12	.12	.11	.11	.11	.12
		PDI-856-2	≤2.0 & > 0[1] in. wc	.68	.68	.68	.68	.66	.66	.67
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0845	0850	0840	0853	0708	0856	0831
			OC Operator Review and Page Count Complete (initials)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Serena Martin Date 4/21/13 Time 0831 Reviewed by: [signature] Date: 4-26-13 Time: 0712

On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	04 2254	V-701 Thermistor File No.:	04 0373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	4-15-13	4/16/13	4-17-13	4-18-13	4-19-13	4-20-13	4-21-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	[illegible]	PT	PT	[illegible]	[illegible]	[illegible]
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	51.3	51.9	52.7	50.9	49.3	49.3	49.3
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	53.3	54.2	54.8	52.3	50.7	51.5	51.7
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	62.8	62.5	62.5	58.7	58.1	61.0	61.5
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	64.5	66.6	67.1	65.4	63.7	65.8	66.1
		Completion Time:	0843	0846	0836	0832	0748	0930	1025
OC Operator Review and Page Count Complete (initials)			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: [signature] Date 4-21-13 Time 1025

Reviewed by: [signature] Date: 4-25-13 Time: 0715
On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	4/22/13		4/23/13		4/24/13		4-25-13		4/26/13		4-27-13		4/28/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:		DAO		DAO		a	BC	a		DAO	BC	DAO		DAO
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.01	-2.04	-2.04	-2.03	-2.04	-2.04	-2.03	-2.03	-2.03	-2.01	-2.02	-2.02	-2.03	-2.02
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.89	-1.90	-1.89	-1.88	-1.89	-1.99	-1.90	-1.87	-1.88	-1.90	-1.88	-1.90	-1.90	-1.88
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-1.98	-1.99	-1.98	-1.98	-1.99	-1.99	-1.98	-1.98	-1.97	-1.99	-1.98	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-2.03	-1.88	-1.99	-1.93	-1.95	-1.97	-1.89	-2.01	-1.93	-1.91	-2.02	-2.03	-2.03	-1.88
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-0.20	-.20	-0.20	-.19	-0.19	-.21	-.20	-.20	-0.20	-.20	-.20	-.20	-0.20	-.20
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-0.23	-.23	-0.23	-.22	-0.21	-.20	-.22	-.23	-0.23	-.24	-.23	-.24	-0.23	-.22
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-0.22	-.21	-0.23	-.22	-0.21	-.22	-.22	-.24	-0.22	-.22	-.22	-.22	-0.22	-.23
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-0.20	-.19	-0.20	-.20	-0.19	-.20	-.19	-.19	-0.20	-.20	-.20	-.20	-0.20	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-0.19	-.19	-0.19	-.19	-0.19	-.19	-.19	-.19	-0.19	-.19	-.19	-.19	-0.19	-.20
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-0.10	-.10	-0.09	-.11	-0.10	-.10	-.10	-.10	-0.10	-.10	-.10	-.10	-0.10	-.11
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-0.12	-.12	-0.12	-.13	-0.12	-.13	-.13	-.13	-0.12	-.13	-.12	-.13	-0.12	-.14
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-0.126	-.127	-0.122	-.135	-0.132	-.125	-.136	-.133	-0.132	-.132	-.130	-.132	-0.130	-.131

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.		Date:	4/22/13		4/23/13		4/24/13		4.25.13		4/26/13		04.27.13		4/28/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:		DAD		DAD		a	BC	a		DAD	BC	DAD		DAD
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**												
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

				Date:	4/22/13		4/23/13		4/24/13		4-25-13		4/26/13		04-27-13		4/28/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:														
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0635	1944	0635	1931	0640	1926	0727	1917	0642	1942	0740	1930	0721	1953

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: [signature] Date 4/28/13 Time 1953 Reviewed by: [signature] Date: 4-29-13 Time: 1020
On-duty Supervisor

Comments: _____

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

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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:	4-22-13	4-23-13	4-24-13	4-25-13	4-26-13	4/27/13	4-28-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	PT	JM	PT	PT		PT
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	005	005	005	005	005	005	005
	CP-305-H (LED Reading)		005	005	005	005	005	005	005
	(DET-305-3) – (CP-305H)	Record Calculated Value	005	005	005	005	005	005	005
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / ~~Unsat.~~ 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / ~~Unsat.~~ 005	Sat. / Unsat. 005
		Completion Time:	0830	0846	0812	0813	0739	0748	0732

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

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			Date:	4-22-13	4-23-13	4-24-13	4-25-13	4-26-13	4-27-13	4-28-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	PT	gm	PT	PT	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.09	.09	.09	.05	.05	.05	.05
		PDI-894-2	≤2.0 & > 0[1] in. wc	.48	.49	.48	.48	.48	.48	.48
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.14	.14	.13	.05	.05	.05	.05
		PDI-895-2	≤2.0 & > 0[1] in. wc	.99	.99	.99	1.0	1.0	1.0	1.0
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	.28	.28
		PDI-817-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	.31	.31
		PDI-817-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	.34	.34
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	.24	.24	.24	.25	.25	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	.30	.30	.31	.30	.30	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	4-22-13 ~~.40~~ .32 PT	.32	.32	.32	.32	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	.38	.38	.38	.38	.28	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40	STBY	STBY
		PDI-821-3	≤2 0 & > 0[1] in. wc	.45	.45	.44	.44	.44	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	.49	.49	.39	.39	.39	STBY	STBY

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

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			Date:	4-22-13	4-23-13	4-24-13	4-25-13	4-26-13	4-27-13	4-28-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	PT	JM	PT	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.65	.65	.65	.68	.66	.66	.66
		PDI-822-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.50	.50	.50	.50
		PDI-822-4	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-822-5	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.60
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.59	.59	.59	.59	.59	.59	.60
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.36	.36	.35	.35	.35	.35
		PDI-830-3	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.90	.90	.89	.90	.90	.91	.90
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.55	.55	.55	.56	.56	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.62	.62	.62	.62	.62	.63	.63
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.45	.45	.46	.46	.46	.48	.48

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

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			Date:	4-22-13	4-23-13	4-24-13	4-25-13	4-26-13	4-27-13	4-28-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	PT	JM	PT	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.40
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.38	.38	.38	.38	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.31	.31	.30	.30	.30	.30	.30
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.43	.42	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.41	.41	.41	.41	.42	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.15	.15	.15	.15	.15	.15	.15
		PDI-810-2	≤2.0 & > 0[1] in. wc	.45	.48	.48	.48	.48	.48	.48
		PDI-810-3	≤2.0 & > 0[1] in. wc	.42	.45	.46	.43	.43	.43	.43
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF PT 4-28-13
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			. Completion Time	0810	0843	0830	0827	0700	0720	0745
OC Operator Review and Page Count Complete (initials)										

[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 as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date 4-28-13 Time 0745 Reviewed by: [signature] Date: 4-29-13 Time: 1021
On-duty Supervisor

Comments Flamable Gas channel COS 4-22-13 4-23-13 4-25-13 4-26-13 PT 4-26-13 4-27-13 4-28-13

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

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			Date:	4-22-13	4-23-13	4-24-13	4-25-13	4-26-13	4-27-13	4-28-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	PT	PT		PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.45	.45	.45
		PDI-841-2	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc	50	.50	.50	.50	.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.32	.32	.32	.31	.31	.32	.33
		PDI-831-2	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.35	.35	.34	.35	.35	.34
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.23	.24	.24
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.52
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.79	.80	.80	.80	.81	.81	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.50	.50	.50	.50
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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

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			Date:	4-22-13	4-23-13	4-24-13	4-25-13	4-26-13	4-27-13	4-28-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	PT	PT	[illegible]	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.06	.06	.08	.06	.07	.07	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.22	.22	.28	.23	.23	.22	.22
		PDI-829-3	≤2.0 & > 0[1] in. wc	.21	.21	.22	.21	.21	.21	.21
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.91	.91	.91	.91	.91	.91	.91
		PDI-833-2	≤2.0 & > 0[1] in. wc	.48	.48	.48	.46	.47	.47	.48
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.42	.43	.43	.43	.43	.43	.44
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40	.40	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.35	.38	.38	.38	.38	.38	.35
		PDI-816-2	≤2.0 & > 0[1] in. wc	.45	.45	.45	.43	.45	.45	.44
		PDI-816-4	≤2.0 & > 0[1] in. wc	.42	.42	.42	.45	.44	.43	.42
		PDI-816-5	≤2.0 & > 0[1] in. wc	.43	.45	.43	.46	.43	.44	.43

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

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			Date:	4-22-13	4-23-13	4-24-13	4-25-13	4-26-13	4-27-13	4-28-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	PT	PT		PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.14	.14	.14	.14	.14	.13	.13
		PDI-812-2	≤2.0 & > 0[1] in. wc	.31	.31	.31	.32	.31	.31	.31
		PDI-812-3	≤2.0 & > 0[1] in. wc	.32	.32	.32	.32	.32	.32	.32
		PDI-812-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	4-28-13 0.31 PT ~~.31~~
		PDI-812-5	≤2.0 & > 0[1] in. wc	.29	.29	.29	.29	.29	.29	.29
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.03	.04	.04	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc	.32	.33	.38	.32	.33	.33	.32
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.40	.41	.41
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.09	.09	.09	.05	.05	.05	.05
		PDI-863-2	≤2.0 & >0[1] in. wc	.41	.41	.41	.41	.41	.41	.41

LA-UR-13-25881

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

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			Date:	4-22-13	4-23-13	4-24-13	4-25-13	4-26-13	4-27-13	4-28-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	PT	PT		PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.20	.19	.20	.11	.11	.11	.11
		PDI-857-2	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.12	.11	.11	.04	.03	.04	.04
		PDI-856-2	≤2.0 & > 0[1] in. wc	.68	.68	.68	.68	.68	.68	.68
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0838	0840	0823	0826	0738	0750	0740
			OC Operator Review and Page Count Complete (initials)							

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Paul Trujillo Date 4-28-13 Time 0740 Reviewed by: Brent R Ortt Date: 4-29-13 Time: 1025

On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	4-22-13	4-23-13	4-24-13	4-25-13	4-26-13	04.27.13	4/28/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	TH	TH	RH	RH	RH	BC	BC
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	49.7	50.7	49.7	50.0	50.0	51.8	53.6
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	52.0	52.7	52.1	52.0	52.2	52.8	53.2
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	61.6	61.0	58.8	61.8	62.2	61.8	61.0
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	67.6	68.5	64.7	66.4	58.1	56.7	58.7
		Completion Time:	0805	0851	0915	0910	0815	0825	0850
		OC Operator Review and Page Count Complete (initials)						BC	BC

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: _____ Date 4/28/13 Time 0850

Reviewed by: _____ Date: 4-29-13 Time: 10:30
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.			Date:	4-29-13		4-30-13											
			Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			Initials:	a	a	a	a										
SRs	**Description**	**Gauge Acceptance Criteria**		**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2	≤-1.0 in. wc[1]	-2.02	-2.01	-2.01	-2.02										
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc[1]	-1.88	-1.87	-1.98	-1.88										
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc[1]	-1.98	-1.98	-1.99	-1.98										
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc[1]	-2.00	-2.04	-1.98	-2.04										
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2	≤-0.05 in. wc[1]	-.20	-.21	-.20	-.20										
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc[1]	-.23	-.23	-.23	-.23										
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc[1]	-.22	-.22	-.22	-.21										
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc[1]	-.20	-.19	-.19	-.20										
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	-.19	-.19	-.19	-.19										
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-.10	-.10	-.10	-.10										
	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-.13	-.13	-.12	-.13										
	IRT Tunnel ΔP	PDT-901 or PDI-901	< 0.00 in. wc	-.131	-.137	-.129	-.118										

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	4-29-13		4-30-13											
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	[illegible]	[illegible]	[illegible]	[illegible]										
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

Date:	4-29-13		4-30-13														
Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.				
Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
Initials:	a	a	a	a													

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0730	1939	0747	1950										

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: _____ Date 4-30-13 Time 1950 Reviewed by: _____ Date: 5-1-13 Time: 1327
On-duty Supervisor

Comments: _____

LA-UR-13-25881

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

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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:	4-29-13	4-30-13					
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	nm	PT					
	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	008	005					
	CP-305-H (LED Reading)		005	005					
	(DET-305-3) – (CP-305H)	Record Calculated Value	005	005					
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / Unsat. 005	Sat. / Unsat. 005	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0818	0816					

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

(Page 2 of 4)

			Date:	4-29-13	4-30-13					
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	MM	PT					
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.05	.05					
		PDI-894-2	≤2.0 & > 0[1] in. wc	.49	.49					
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.05	.06					
		PDI-895-2	≤2.0 & > 0[1] in. wc	1.0	1.0					
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.28	.28					
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.31					
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31					
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30					
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41					
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.40	.40					
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35	.35					
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY					
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY					

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

(Page 3 of 4)

			Date:	4-29-13	4-30-13					
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	mm	PT					
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.67	.67					
		PDI-822-2	≤2.0 & > 0[1] in. wc	.50	.50					
		PDI-822-4	≤2.0 & > 0[1] in. wc	.43	.42					
		PDI-822-5	≤2.0 & > 0[1] in. wc	.50	.49					
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	STBY					
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.60	.59					
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.35					
		PDI-830-3	≤2.0 & > 0[1] in. wc	.31	.31					
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.89	.90					
		PDI-836-2	≤2.0 & > 0[1] in. wc	.56	.56					
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.51					
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.62	.62					
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50					
		PDI-837-3	≤2.0 & > 0[1] in. wc	.47	.47					

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Date:	4-29-13	4-30-13					
			Initials:	mm	PT					
				SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.31	.31					
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.41					
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.39					
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.30	.30					
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.42					
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.42					
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.13	.14					
		PDI-810-2	≤2.0 & > 0[1] in. wc	.46	.46					
		PDI-810-3	≤2.0 & > 0[1] in. wc	.43	.42					
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF					
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF					
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF					
			Completion Time	0814	0811					
OC Operator Review and Page Count Complete (initials)				[signature]	RSB [signature]					

[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 as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date 4-30-13 Time 0811 Reviewed by: [signature] Date: 5-1-13 Time: 1330

On-duty Supervisor

Comments ______________________________

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

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			Date:	4-29-13	4-30-13					
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	PT					
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-840-2	≤2.0 & > 0 in[1]. wc	STBY	STBY					
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	STBY					
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.45	.45					
		PDI-841-2	≤2.0 & > 0[1] in. wc	.52	.52					
		PDI-841-3	≤2.0 & > 0[1] in. wc	.50	.50					
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.33	.32					
		PDI-831-2	≤2.0 & > 0[1] in. wc	.40	.41					
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.34					
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23					
		PDI-832-2	≤2.0 & > 0[1] in. wc	.52	.51					
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49					
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11					
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80	.80					
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.49					
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	OFF					
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	OFF					
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	OFF					

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

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			Date:	4-29-13	4-30-13					
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	mm	PT					
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.06	.05					
		PDI-829-2	≤2.0 & > 0[1] in. wc	.21	.20					
		PDI-829-3	≤2.0 & > 0[1] in. wc	.20	.19					
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.91	.91					
		PDI-833-2	≤2.0 & > 0[1] in. wc	.47	.47					
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.45					
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13					
		PDI-835-2	≤2.0 & > 0[1] in. wc	.44	.44					
		PDI-835-3	≤2.0 & > 0[1] in. wc	.41	.41					
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY					
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.36	.36					
		PDI-816-2	≤2.0 & > 0[1] in. wc	.45	.46					
		PDI-816-4	≤2.0 & > 0[1] in. wc	.45	.43					
		PDI-816-5	≤2.0 & > 0[1] in. wc	.45	.45					

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

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			Date:	4-29-13	4.30.13					
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	mm	PT					
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.14	.14					
		PDI-812-2	≤2.0 & > 0[1] in. wc	.31	.31					
		PDI-812-3	≤2.0 & > 0[1] in. wc	.30	.32					
		PDI-812-4	≤2.0 & > 0[1] in. wc	.31	.31					
		PDI-812-5	≤2.0 & > 0[1] in. wc	.29	.29					
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY					
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY					
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.04					
		PDI-865-2	≤2.0 & > 0[1] in. wc	.34	.32					
		PDI-865-3	≤2.0 & > 0[1] in. wc	.39	.39					
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.04	.04					
		PDI-863-2	≤2.0 & >0[1] in. wc	.42	.42					

LA-UR-13-25881

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

(Page 4 of 4)

			Date:	4-29-13	4-30-13					
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	RT					
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.12	.12					
		PDI-857-2	≤2.0 & > 0[1] in. wc	.49	.49					
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.04	.04					
		PDI-856-2	≤2.0 & > 0[1] in. wc	.69	.69					
[1]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					
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					
			Completion time	0840	0823					
			OC Operator Review and Page Count Complete (initials)		RB					

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Paul Ingalls Date 4-30-13 Time 0823 Reviewed by: _____ Date 5-1-13 Time: 1330

On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature

SR	Description	Acceptance Criteria							
Daily (September through April only)		Date:	4-29-13	4-30-13					
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	TL					
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 /UNSAT	SAT /UNSAT	SAT /UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	52.1	53.3					
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	54.6	56.4					
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	69.4	64.3					
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	61.7	63.7					
		Completion Time:	0835	0838					
	OC Operator Review and Page Count Complete (initials)		[illegible]	[illegible]					

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: [signature] Date 4-30-13 Time 0838

Reviewed by: [signature] Date: 5-1-13 Time: 1330
On-duty Supervisor

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).	(Sat) / Unsat.	0909	4/10/13	[illegible]
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.	0905	4/10/13	[illegible]
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.	0858	4/10/13	[illegible]
			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. 4 Seconds	(Sat) / Unsat.	0858	4/10/13	[illegible]

ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	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.	0901	4/10/13	[illegible]
			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. 8 Seconds	(Sat.) Unsat.	0907	4/10/13	[illegible]
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	(Sat.) Unsat.	0854	4/10/13	[illegible]
4.1.3.2	Confinement Door DR-90	South Basement Door (Tunnel)	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.	0850	4/10/13	[illegible]
						OC Operator Review and Page Count Complete	[illegible]

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: [signature] Date 4/10/13 Time 0909 Reviewed by: [signature] Date: 4-10-13 Time: 11:00

On-duty Supervisor Comments:

LA-UR-13-25881

ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)

(Page 1 of 2)

SR	Description		Acceptance Criteria	Sat. / Unsat.	Completion Time:	Date:	Initials:
	Channel #	Location					
4.2.1.1	1	Rm. 201	> 1 mR/hr	(Sat.) / Unsat.	0821	4/1/2013	JP
	2	Rm. 106	> 1 mR/hr	(Sat.) / Unsat.	0821	4/1/2013	JP
	3	Rm. 305	> 1 mR/hr	(Sat.) / Unsat.	0821	4/1/2013	JP
	4	Rm. 401	> 1 mR/hr	(Sat.) / Unsat.	0821	4/1/2013	JP
	5	Rm. 206	> 1 mR/hr	(Sat.) / Unsat.	0822	4/1/2013	JP
	6	Rm. 114	> 1 mR/hr	(Sat.) / Unsat.	0822	4/1/2013	JP
	7	Rm. 319 W	> 1 mR/hr	(Sat.) / Unsat.	0822	4/1/2013	JP
	8	Rm. 409	> 1 mR/hr	(Sat.) / Unsat.	0822	4/1/2013	JP
	9	Rm. 208	> 1 mR/hr	(Sat.) / Unsat.	0822	4/1/2013	JP
	10	Rm. 124	> 1 mR/hr	(Sat.) / Unsat.	0823	4/1/2013	JP
	11	Rm. 319 E	> 1 mR/hr	(Sat.) / Unsat.	0823	4/1/2013	JP
	12	Rm. 420	> 1 mR/hr	(Sat.) / Unsat.	0823	4/1/2013	JP
	13	Rm. 209	> 1 mR/hr	(Sat.) / Unsat.	0824	4/1/2013	JP
	14	Rm. 126	> 1 mR/hr	(Sat.) / Unsat.	0824	4/1/2013	JP
	15	Rm. 327	> 1 mR/hr	(Sat.) / Unsat.	0824	4/1/2013	JP
	16	Rm. 429	> 1 mR/hr	(Sat.) / Unsat.	0824	4/1/2013	JP
	17	Vault 17	> 1 mR/hr	(Sat.) / Unsat.	0824	4/1/2013	JP
4.2.2.1	18	Vault 18	> 1 mR/hr	(Sat.) / Unsat.	0825	4/1/2013	JP
	19	Vault 19	> 1 mR/hr	(Sat.) / Unsat.	0826	4/1/2013	JP
	20	Vault 20	> 1 mR/hr	(Sat.) / Unsat.	0826	4/1/2013	JP

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)

Completed by: John Smeltz/ Date 04/1/13 Time 0826 Reviewed by: [signature] On-duty Supervisor Date: 4-1-13 Time: 1240

Comments:

LA-UR-13-25881

Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	Surveillance Rounds
Procedure no.:	TA55-STP-004 R15.1
Date of issue:	3-1-13
Working copy issued to:	B. Chance
Working copy issued by:	A. Dunseth
	Certified Operations Center Operator

Operations Center Operator Review

at of / 4-7-13

Signature Date

Required Reading for this Surveillance has been completed.

Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R. Briscoe	a	3-1-13
B. Chance	a	↓
D. Dunlavey	a	
A. Dunseth	a	
R. Lum	a	
A. Ortiz	a	
F. Seyhert	a	
M. Wittman	a	
N. Chavez	a	
R. Hohner	a	

Comments:

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

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
J. Martinez	a	3-1-13
T. Langworthy	a	
P. Trujillo	a	
N. Montoya	a	
A. Sanchez	a	
G. Cariz	a	
M. Irish	a	
A. Herrera	a	

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:									3/1/13		3.2.13		3.3.13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:									DM	a	BC	A	BC	a
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]									-2.06	-2.04	-2.04	-2.06	-2.05	-2.06
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]									-1.90	-1.90	-1.87	-1.90	-1.89	-1.88
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]									-1.99	-1.99	-1.99	-1.98	-1.98	-1.97
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]									-1.96	-1.98	-1.97	-1.97	-1.98	-1.97
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]									-.19	-.20	-.19	-.20	-.20	-.20
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]									-.22	-.23	-.21	-.23	-.22	-.24
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]									-.24	-.25	-.23	-.25	-.24	-.23
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]									-.19	-.22	-.19	-.21	-.20	-.21
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc									-.19	-.19	-.19	-.19	-.19	-.17
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc									-.10	-.10	-.10	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc									-.10	-.10	-.10	-.11	-.10	-.10
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc									-.124	-.129	-.124	-.127	-.124	-.127

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.																			
			Date:										3/1/13		3-2-13		3-3-13		
			Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
			Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			Initials:									GMO	a	BC		BC	a		
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**															
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

Date:										3/1/13		3-2-13		3-3-13					
Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.						
Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
Initials:									DAD	a	BC	a	BC	a					

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)														
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time									0712	1957	0729	1930	0727	1939			

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: _____ Date 3-3-13 Time 1939 Reviewed by: _____ Date: 3-4-13 Time: 1045
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	3-4-13		3-5-13		3-6-13		03-07-13		3-8-13		3/9/13		3-10-13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.04	-2.01	-2.05	2.05	-2.05	-2.07	-2.04	-2.04	-2.05	-2.04	-2.05	-2.05	-2.03	-2.04
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.87	-1.97	-1.98	-1.89	-1.91	-1.89	-1.88	-1.88	-1.88	-1.89	-1.88	-1.88	-1.88	-1.88
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.89	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.96	-1.98	-1.97	-1.97	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.98	-1.97	-1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	-1.98
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.19	-.19	-.19	-.20	-0.20	0.20	-.20	0.20	-.20	-.19	-.19	-.19	-.19	-.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.23	-.21	-.22	-.22	-0.22	0.23	-.24	0.23	-.23	-.22	-.23	-.22	-.22	-.22
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.24	-.23	-.24	-.24	-0.24	0.25	-.26	0.23	-.25	-.24	-.24	-.25	-.24	-.24
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.19	-.20	-.20	-.20	-0.19	0.20	-.22	0.19	-.21	-.19	-.20	-.21	-.19	-.19
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.20	-.20	-.19	-.19	-0.19	0.19	-.19	0.19	-.19	-.19	-.19	-.19	-.19	-.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.12	-.10	-.10	-.10	-0.10	0.10	-.10	0.10	-.10	-.10	-.09	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.12	-.11	-.10	-.10	-0.10	0.11	-.11	0.10	-.11	-.11	-.09	-.11	-.10	-.11
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.148	-.127	-.123	-.121	-0.126	0.125	-.132	0.125	-.128	-.119	-.117	-.127	-.122	-.126

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	3-4-13		3-5-13		3-6-13		03-07-13		3-8-13		3/9/13		3-10-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:														
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat / Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat / Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat / Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat / Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat / Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat

LA-UR-13-25881

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

				Date:	3-4-13		3-5-13		3-6-13		03-07-13		3-8-13		3/9/13		3-10-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:														
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS** Sat. / Unsat. (circle one)													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0734	1941	0630	1925	0723	1930	0827	1926	0730	1943	0734	1934	0730	1930

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: _____ Date 3-4-13 Time 1930 Reviewed by: _____ Date: 3-11-13 Time: 0730
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	03.11.13		3-12-13		3-13-13		3-14-13		3/15/13		3.16.13		3.17.13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	BC	DAO	[illegible]	DAO	A	a	a	a	[illegible]	DAO	BC	DAO	BC	DAO
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.04	-2.05	-2.05	-2.01	-2.05	-2.03	-2.04	-2.04	-2.04	-2.02	-2.03	-2.03	-2.03	-2.03
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.89	-1.88	-1.89	-1.89	-1.89	-1.87	-1.90	-1.88	-1.89	-1.88	-1.89	-1.89	-1.88	-1.89
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-1.97	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.98	-1.98	-1.97	-1.97	-1.97
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.19	-.20	-0.19	-.19	-.18	-.20	-.19	-.20	-0.20	-.20	-.20	-.18	-.19	-.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.22	-.23	-0.22	-.23	-.21	-.23	-.23	-.23	-0.23	-.23	-.23	-.20	-.22	-.22
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.25	-.25	-0.24	-.24	-.23	-.24	-.24	-.24	-0.25	-.24	-.25	-.22	-.22	-.22
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.20	-.20	-0.20	-.20	-.18	-.20	-.20	-.20	-0.20	-.20	-.20	-.19	-.20	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-0.19	-.19	-.19	-.19	-.19	-.19	-0.19	-.19	-.19	-.19	-.19	-.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	-.10	-0.10	-.10	-.10	-.10	-.10	-.10	-0.10	-.10	-.10	-.11	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.10	-.11	-0.11	-.10	-.10	-.11	-.11	-.11	-0.11	-.11	-.10	-.11	-.10	-.10
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.121	-.127	-0.131	-.126	-.116	-.137	-.131	-.136	-0.130	-.130	-.126	-.130	-.120	-.119

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	03-11-13		3-12-13		3-13-13		3-14-13		3/15/13		3-16-13		03-17-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	BC	DAO	BC	DAO	A	a	A	a		DAO	BC	DAO	BC	DAO
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

Date:	03-11-13		3-12-13		3-13-13		3-14-13		3/15/13		3-16-13		3-17-13	
Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Initials:	BC	DAO	[illegible]	DAO	D	a	R	a	[illegible]	DAO	BC	DAO	[illegible]	DAO

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)													
4.1.1.4	Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0724	1948	0645	1940	0730	1941	0730	1939	0644	1932	0732	2000	0735	1940

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: [signature] Date 3/17/13 Time 1940 Reviewed by: [signature] Date: 3-19-13 Time: 0755
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note			Date:	3/18/2013		3/19/13		03-20-13		3-21-13		3/22/13		3/23/13		3-24-13	
Gauge readings should be taken on rack #4 in the OC whenever possible. Document if alternate PDIs are used.			Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			Initials:	ra	[illegible]	RSB	[illegible]	BC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc[1]	-2.04	-2.03	-2.03	-2.03	-2.03	-2.04	-2.05	-2.05	-2.05	-2.04	-2.05	-2.05	-2.04	-2.03
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc[1]	-1.89	-1.90	-1.89	-1.89	-1.88	-1.88	-1.89	-1.88	-1.88	-1.89	-1.89	-1.89	-1.89	-1.86
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc[1]	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.97	-1.98	-1.98	-1.98	-1.98	-1.99	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc[1]	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.96
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc[1]	-0.20	-.19	-.19	-.19	-.18	-.19	-.19	-.19	-.19	-.20	-.20	-.19	-.19	-.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc[1]	-0.23	-.20	-.22	-.22	-.22	-.22	-.22	-.23	-.22	-.22	-.23	-.22	-.22	-.24
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc[1]	-0.24	-.21	-.23	-.22	-.22	-.22	-.22	-.24	-.22	-.21	-.23	-.22	-.22	-.24
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc[1]	-0.21	-.21	-.20	-.20	-.20	-.19	-.20	-.21	-.20	-.19	-.20	-.20	-.20	-.21
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	-0.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.20	-.19	-.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-0.10	-.11	-.10	-.10	-.10	-.10	-.10	-.10	-.10	-.09	-.10	-.10	-.10	-.11
	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-0.11	-.11	-.10	-.10	-.10	-.10	-.10	-.10	-.10	-.09	-.10	-.10	-.10	-.12
	IRT Tunnel ΔP	PDT-901 or PDI-901	< 0.00 in. wc	-0.119	-.112	-.121	-.117	-.122	-.117	-.123	-.119	-.120	-.119	-.124	-.122	-.120	-.120

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.		Date:	3/18/2013		3/19/13		03 20 13		3-21-13		3/22/13		3/23/13		3-24-13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	pa	A	RKB	A	BC	DAO	A	DAO	A	A	A	A	A	A
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**												
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.					Date:	03/18/2013		3/19/13		03-20-13		3-21-13		3/22/13		3/23/13		3-24-13	
					Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
					Initials:	[illegible]	[illegible]	RBB	[illegible]	[illegible]	BAO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0648	1930	0730	1930	0728	1946	0730	1942	0728	1930	0726	1930	0719	1930	

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: [illegible] Date 3-24-13 Time 1930 Reviewed by: [illegible] Date: 3-26-13 Time: 0740

On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	3/25/13		3/26/13		3-27-13		03.28.13		3/29/13		3/30/13		3/31/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	DAO	BC	~~[illegible]~~	BC	a	A	BC	A	DAO	BC	~~[illegible]~~	BC	~~[illegible]~~	BC
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.04	-2.04	-2.04	-2.05	-2.04	-2.01	-2.03	-2.03	-2.04	-2.03	-2.01	-2.01	-2.02	-2.04
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.89	-1.89	-1.90	-1.89	-1.90	-1.89	-1.88	-1.90	-1.89	-1.90	-1.88	-1.90	-1.88	-1.88
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-1.98	-1.99	-1.97	-1.99	-1.97	-1.97	-1.98	-1.98	-1.98	-1.98	-1.97	-1.97
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.97	-1.97	-1.97	-1.97	-1.95	-1.98	-1.96	-2.04	-1.93	-1.99	-2.05	-1.97	-1.99	-1.98
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.19	-.17	-0.11	-.17	-.17	-.17	-.17	-.17	-.11	-.17	-0.16	-.17	-0.17	-.18
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.22	-.21	-0.20	-.21	-.21	-.20	-.21	-.20	-.22	-.21	-0.20	-.20	-0.20	-.21
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.22	-.23	-0.20	-.21	-.23	-.20	-.20	-.20	-.22	-.21	-0.21	-.21	-0.21	-.22
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.20	-.20	-0.20	-.20	-.22	-.20	-.20	-.20	-.20	-.20	-0.20	-.20	-0.20	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-0.19	-.19	-.19	-.19	-.18	-.19	-.19	-.19	-0.19	-.19	-0.19	-.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	-.10	-0.10	-.10	-.11	-.10	-.10	-.10	-.10	-.10	-0.10	-.10	-0.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.10	-.10	-0.11	-.12	-.12	-.11	-.11	-.11	-.11	-.11	-0.11	-.11	-0.11	-.11
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.121	-.119	-0.117	-.121	-.130	-.121	-.116	-.120	-.123	-.120	-0.114	-.128	-0.119	-.122

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	3/25/13		3/26/13		3-27-13		03.28.13		3/29/13		3/30/13		3/31/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	DM	BC		BC			BC		AM	BC				BC
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

Date:	3/25/13		3/26/13		3-27-13		03-28-13		3/29/13		3/30/13		3/31/13	
Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Initials:	DAD	BC	[illegible]	BC	CA	A	BC	A	DAD	BC	[illegible]	BC	[illegible]	BC

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)													
4.1.1.4	Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0716	1930	0723	1928	0655	1930	0825	1930	0734	1922	0732	1942	0717	1926

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: [signature] Date 3.31.13 Time 1926 Reviewed by: [signature] Date: 4-1-13 Time: 1241
On-duty Supervisor

Comments: _____

LA-UR-13-25881

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:					3-1-13	03.02.13	3/3/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:					Der	EC	DAD
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA					0.3	0.3	0.3
	CP-305-H (LED Reading)						0.3	0.3	0.3
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value					0.0	0.0	0.0
		≥ -0.1; ≤+0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:					0748	0840	0849

LA-UR-13-25881

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

(Page 2 of 4)

			Date:					3-1-13	03.02.13	3/3/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					[illegible]	BC	QAO
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc					.06	.06	.06
		PDI-894-2	≤2.0 & > 0[1] in. wc					.45	.44	.45
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc					.10	.10	.10
		PDI-895-2	≤2.0 & > 0[1] in. wc					.98	.95	.95
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc					.28	.28	.28
		PDI-817-2	≤2.0 & > 0[1] in. wc					.30	.30	.30
		PDI-817-4	≤2.0 & > 0[1] in. wc					.30	.30	.30
		PDI-817-5	≤2.0 & > 0[1] in. wc					.29	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc					.40	.40	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc					.40	.40	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc					.35	.34	.35
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY

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

(Page 3 of 4)

			Date:					3-1-13	03.02.13	3/3/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					MLC	BC	DAO
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc					.84	.83	.83
		PDI-823-2	≤2.0 & > 0[1] in. wc					.42	.42	.42
		PDI-823-4	≤2.0 & > 0[1] in. wc					.45	.48	.49
		PDI-823—5	≤2.0 & > 0[1] in. wc					.50	.50	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc					.58	.58	.58
		PDI-830-2	≤2.0 & > 0[1] in. wc					.35	.35	.32
		PDI-830-3	≤2.0 & > 0[1] in. wc					.30	.30	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc					.89	.89	.88
		PDI-836-2	≤2.0 & > 0[1] in. wc					.52	.52	.52
		PDI-836-3	≤2.0 & > 0[1] in. wc					.52	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc					.62	.62	.62
		PDI-837-2	≤2.0 & > 0[1] in. wc					.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc					.45	.47	.48

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

(Page 4 of 4)

			Date:					3-1-13	03.02.13	3/3/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					[illegible]	BC	DAD
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc					.28	.28	.28
		PDI-838-2	≤2.0 & > 0[1] in. wc					.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc					.38	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc					.27	.27	.27
		PDI-839-2	≤2.0 & > 0[1] in. wc					.40	.41	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc					.41	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc					.17	.17	.17
		PDI-810-2	≤2.0 & > 0[1] in. wc					.50	.50	.50
		PDI-810-3	≤2.0 & > 0[1] in. wc					.50	.49	.49
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc					off	~~OFF~~	off
		PDI -811 -2	≤2.0 & > 0[1] in. wc					off	~~OFF~~	off
		PDI -811 -3	≤2.0 & > 0[1] in. wc					off	~~OFF~~	off
			Completion Time					0819	~~0852~~	0925
OC Operator Review and Page Count Complete (initials)								DAD BC	~~BC~~ DAD	DAD

[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 as stated in LCO 3.1.3.

Completed by: [signature] Date 3/3/13 Time 0925 Reviewed by: [signature] Date: 3-4-13 Time: 1046

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:
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:	3-4-13	3-5-13	3/6/13	3/7/13	3-8-13	3/9/13	3-10-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[illegible]	RH	RH	RH	[illegible]	[illegible]	[illegible]
	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	CP-305-H (LED Reading)		0.3	0.3	0.3	0.3	0.3	0.3	0.3
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1; ≤+0.1	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0909	0827	0814	0735	0755	0905	0830

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

(Page 2 of 4)

			Date:	3-4-13	3-5-13	3/6/13	3/7/13	3-8-13	3/9/13	3-10-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	RH	RH	RH	nm	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.07	.04	.07	.07	.07	.06	.06
		PDI-894-2	≤2.0 & > 0[1] in. wc	.45	.46	.46	.46	.45	.45	.45
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤2.0 & > 0[1] in. wc	.09	.10	.10	.10	.10	.09	.09
		PDI-895-2	≤2.0 & > 0[1] in. wc	.95	.97	.97	.97	.97	.97	.97
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27	.28	.27	.28	.27	.27	.27
		PDI-817-2	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.41	.41	.40
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35	.35	.35	.35
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY

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

(Page 3 of 4)

			Date:	3-4-13	3-5-13	3/6/13	3/7/13	3-8-13	3/9/13	3-10-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	BH	RH	RH	nm	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	Stby	Stby	Stby	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.82	.83	.85	.84	.84	.84	.84
		PDI-823-2	≤2.0 & > 0[1] in. wc	.42	.44	.45	.42	.45	.42	.42
		PDI-823-4	≤2.0 & > 0[1] in. wc	.47	.49	.49	.49	.47	.48	.47
		PDI-823—5	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.57	.58	.58	.57	.57	.57	.57
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.35	.35	.36	.34	.36	.36
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.30	.30	.31	.30	.31	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.87	.88	.88	.88	.88	.88	.88
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.55	.56	.56	.56	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.61	.62	.62	.62	.61	.61	.61
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.47	.46	.46	.46	.46	.46	.45

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

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			Date:	3-4-13	3-5-13	3/6/13	3/7/13	3-8-13	3/9/13	3-10-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	RH	RH	RH	nm	JM	R
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.28	.28	.27	.28	.28	.28	.28
		PDI-838-2	≤2.0 & > 0[1] in. wc	.42	.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.38	.38	.38	.38	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.28	.28	.28	.28	.29	.28	.28
		PDI-839-2	≤2.0 & > 0[1] in. wc	.42	.41	.41	.41	.41	.41	.40
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.40
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.17	.17	.17	.16	.17	.17	.17
		PDI-810-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-810-3	≤2.0 & > 0[1] in. wc	.49	.50	.50	.49	.49	.49	.50
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	off	off	OFF	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	off	off	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	off	off	OFF	OFF	OFF	OFF
			Completion Time	0855	0843	0839	0800	0836	0818	0910
OC Operator Review and Page Count Complete (initials)						RH	BC			

[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 as stated in LCO 3.1.3.

Completed by: AUGUSTINE OTTO Date 3-10-13 Time 0910 Reviewed by: _____ Date: 3-11-13 Time: 0732
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:
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:	3/11/13	3/12/13	3/13/13	3/14/13	3/15/13	03/16/13	3/17/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	JM	JM	JM	JM	JM	hw	[illegible]
SR	**Description / Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.3	0.3	0.3	0.2	0.3	0.3	0.3
	CP-305-H (LED Reading)		0.3	0.3	0.3	0.3	0.3	0.2	0.3
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.1	0
		≥ -0.1; ≤+0.1	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
		Completion Time:	0807	0820	0809	0907	0711	0816	0756

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

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			Date:	3/11/13	3/12/13	3/13/13	3/14/13	3/15/13	03.16.13	3/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BC	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.08
		PDI-894-2	≤2.0 & > 0[1] in. wc	.45	.46	.46	.46	.46	.46	.46
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.09	.10	.10	.10	.10	.10	.10
		PDI-895-2	≤2.0 & > 0[1] in. wc	.96	.97	.97	.97	.97	.98	.97
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.27	.27	.27
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.30	.30
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.30	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35	.34	.35	.35	.35	.35	.32
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

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			Date:	3/11/13	3/12/13	3/13/13	3/14/13	3/15/13	03-15-13	3/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	JM	JM	JM	BC	~~JM~~
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.85	.84	.85	.85	.85	.86	.83
		PDI-823-2	≤2.0 & > 0[1] in. wc	.44	.44	.44	.44	.44	.44	.44
		PDI-823-4	≤2.0 & > 0[1] in. wc	.49	.47	.49	.49	.49	.49	.48
		PDI-823—5	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.49
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.56	.56	.57	.57	.57	.57	.58
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.35	.36	.36	.36	.35	.35
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.31	.31	.30	.31	.30	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.89	.89	.90	.90	.89	.89	.89
		PDI-836-2	≤2.0 & > 0[1] in. wc	.56	.56	.56	.55	.55	.56	.56
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.62	.63	.63	.63	.63	.63	.63
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.47	.47	.47	.47	.48	.48	.47

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

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			Date:	3/11/13	3/12/13	3/13/13	3/14/13	3/15/13	03-16-13	3/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:						BC	
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.28	.28	.29	.28	.28	.28	.29
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.39	.39	.39	.39	.39	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.27	.28	.27	.28	.27	.27	.29
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41	.41	.41	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41	.41	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	~~.27~~ .17	.16	.17	.16	.16	.16	.15
		PDI-810-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.49
		PDI-810-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.48
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			Completion Time	0915	0857	0834	0946	0742	0815	0815
OC Operator Review and Page Count Complete (initials)				BC KB	BC	BC BSB	BSB	BC	BC	BC

[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 as stated in LCO 3.1.3.

Completed by: _____ Date 3/17/13 Time 0815 Reviewed by: _____ Date: 3-19-13 Time: 0800
On-duty Supervisor

Comments _____

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

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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:	3/18/13	3/19/13	3-20-13	3.21-13	3/22/13	3-23-13	3-24-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[illegible]	[illegible]	[illegible]	PT	[illegible]	PT	PT
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	CP-305-H (LED Reading)		0.3	0.3	0.3	0.3	0.3	0.3	0.3
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1; ≤+0.1	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0814	0900	0807	0801	0720	0755	0710

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

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SRs	Description	Gauge	Acceptance Criteria	Mon. 3/18/13 (Jr)	Tue. 3/19/13 (Sce)	Wed. 3-20-13 (nm)	Thu. 3-21-13 (PT)	Fri. 3/22/13 (Jh)	Sat. 3-23-13 (PT)	Sun. 3-24-13 (a)
				SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.07	.07	.07	.07	.07	.07	.07
		PDI-894-2	≤2.0 & > 0[1] in. wc	.46	.47	.47	.47	.48	.48	.48
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.10	.10	.10	.11	.10	.11	.11
		PDI-895-2	≤2.0 & > 0[1] in. wc	.98	.99	.99	.99	.99	.99	.99
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.27	.27	.27
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.30	.31	.31
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.30	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.31
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35	.34	.33	.33
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

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SRs	Description	Gauge	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Date:	3/18/13	3/19/13	3-20-13	3-21-13	3/22/13	3-23-13	3-24-13
			Initials:	JM	[illegible]	nm	PT	[illegible]	PT	[illegible]
				SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.84	.84	.84	.83	.84	.82	.82
		PDI-823-2	≤2.0 & > 0[1] in. wc	.42	.42	.43	.43	.43	.43	.42
		PDI-823-4	≤2.0 & > 0[1] in. wc	.49	.49	.47	.47	.46	.48	.48
		PDI-823—5	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.49	.49	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.57	.57	.58	.58	.59	.59	.59
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35	.35	.35	.35
		PDI-830-3	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.89	.89	.89	.89	.89	.89	.89
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.55	.57	.55	.55	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.52	.53	.52	.52	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.46	.63	.63	.63	.62	.62	.62
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.62	.45	.47	.48	.46	.48	.49

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

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			Date:	3/18/13	3-19-13	3-20-13	3-21-13	3/22/13	3-23-13	3-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.29	.29	.29	.29	.29	.29	.29
		PDI-838-2	≤2.0 & > 0[1] in. wc	3/18/13 .41	.41	.42	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.41	.39	.38	.38	.38	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.28	.28	.29	.29	.29	.29	.28
		PDI-839-2	≤2.0 & > 0[1] in. wc	.40	.41	.42	.42	.42	.42	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.42	.41	.42	.41	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.15	.15	.17	.15	.16	.16	.16
		PDI-810-2	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.48
		PDI-810-3	≤2.0 & > 0[1] in. wc	.46	.49	.48	.48	.48	.48	.48
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			Completion Time	0850	0842	0851	0821	0751	0723	0742
OC Operator Review and Page Count Complete (initials)				RB	RB	RB				

[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 as stated in LCO 3.1.3.

Completed by _____ Date 3-24-13 Time 0742 Reviewed by: _____ Date 3-26-13 Time: 0741

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:
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:	3/25/13	3/26/13	3/27/13	3-28-13	3/29/13	3/30/13	3/31/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	JM	JM	JM	PT	MM	[illegible]	[illegible]
SR 4.4.1.1	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	CP-305-H (LED Reading)		0.3	0.3	0.3	0.3	0.3	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.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0757	0840	0823 MD	0812	0708	0806	0745

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

(Page 2 of 4)

			Date:	3/23/13	3/26/13	3/27/13	3-28-13	3/29/13	3/30/13	3/31/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:				PT			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.07	.08	.07	.07	.07	.07	.08
		PDI-894-2	≤2.0 & > 0[1] in. wc	.47	.47	.48	.48	.49	.48	.48
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.11	.10	.10	.10	.10	.10	.11
		PDI-895-2	≤2.0 & > 0[1] in. wc	.89	.90	.90	.90	.91	.91	.91
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.27	.27	.27
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.30	.30	.30	.30	.31	.32
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.29	.29	.29	.29	.29	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.40	.41	.41	.41	.42
		PDI-819-4	≤2.0 & > 0[1] in. wc	.36	.34	.33	.33	.34	.34	.34
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 3 of 4)

			Date:	3/25/13	3/26/13	3/27/13	3-28-13	3/29/13	3/30/13	3/31/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	[illegible]	PT	[illegible]	JM	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	STBY	.64	.65	.64	.64	.65
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	STBY	.50	.56	.50	.50	.50
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	STBY	.42	.41	.42	.41	.40
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	STBY	.49	.49	.49	.49	.48
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.83	.84	STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc	.41	.42	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc	.49	.48	STBY	STBY	STBY	STBY	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc	.50	.50	STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.57	.58	.59	.60	.59	.59	.60
		PDI-830-2	≤2.0 & > 0[1] in. wc	.36	.37	.35	.35	.35	.35	.37
		PDI-830-3	≤2.0 & > 0[1] in. wc	.31	.30	.31	.31	.31	.31	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.89	.89	.89	.89	.89	.89	.89
		PDI-836-2	≤2.0 & > 0[1] in. wc	.56	.56	.55	.55	.55	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.51	.51	.51	.52	.51	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.62	.62	.61	.61	.61	.61	.61
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.47	.47	.48	.48	.48	.47	.47

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

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			Date:	3/25/13	3/26/13	3/27/13	3-28-13	3/29/13	3/30/13	3/31/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:				PT			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.29	.29	.30	.30	.30	.30	.30
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.41	.42	.42	.42	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.39	.39	.39	.39	.39	.39	.39
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.28	.28	.29	.29	.29	.29	.29
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.41	.42	.42	.42	.41	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.42	.42	.42	.42	.41	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.16	OFF	0.46	OFF	OFF	OFF	OFF
		PDI-810-2	≤2.0 & > 0[1] in. wc	.49	OFF	0.46	OFF	OFF	OFF	OFF
		PDI-810-3	≤2.0 & > 0[1] in. wc	.49	OFF	0.21	OFF	OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	.11	.41	.11	.11	.11	.11
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	.48	.45	.45	.45	.45	.45
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	.48	.48	.48	.47	.47	.47
			Completion Time	0840	0835	0854	0824	0745	0830	0813
OC Operator Review and Page Count Complete (initials)										

[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 as stated in LCO 3.1.3

Completed by: _____ Date 3/31/13 Time 0813 Reviewed by: _____ Date: 4-1-13 Time: 1245

On-duty Supervisor

Comments _____

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

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			Date:					31/13	05/02/13	05/03/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					RH	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
		PDI-840-2	≤2.0 & > 0 in[1] wc					Stby	Stby	Stby
		PDI-840-3	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc					.45	.44	.44
		PDI-841-2	≤2.0 & > 0[1] in. wc					.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc					.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc					.31	.37	.37
		PDI-831-2	≤2.0 & > 0[1] in. wc					.41	.40	.40
		PDI-831-3	≤2.0 & > 0[1] in. wc					.36	.36	.36
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc					.23	.23	.23
		PDI-832-2	≤2.0 & > 0[1] in. wc					.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc					.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc					.10	.10	.10
		PDI-807-2	≤2.0 & > 0[1] in. wc					.78	.78	.78
		PDI-807-3	≤2.0 & > 0[1] in. wc					.47	.47	.47
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc					off	off	off
		PDI-809-2	≤2.0 & > 0[1] in. wc					off	off	off
		PDI-809-3	≤2.0 & > 0[1] in. wc					off	off	off

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

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			Date:					3.1.13	03/02/13	03/03/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					~~RT~~	MW	MW
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc					.07	.05	.05
		PDI-829-2	≤2.0 & > 0[1] in. wc					.25	.22	.22
		PDI-829-3	≤2.0 & > 0[1] in. wc					.22	.20	.20
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc					.86	.87	.87
		PDI-833-2	≤2.0 & > 0[1] in. wc					.46	.46	.46
		PDI-833-3	≤2.0 & > 0[1] in. wc					.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc					.11	.12	.12
		PDI-835-2	≤2.0 & > 0[1] in. wc					.44	.44	.44
		PDI-835-3	≤2.0 & > 0[1] in. wc					.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
		PDI-815-2	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
		PDI-815-4	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
		PDI-815-5	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc					.35	.32	.32
		PDI-816-2	≤2.0 & > 0[1] in. wc					.41	.41	.41
		PDI-816-4	≤2.0 & > 0[1] in. wc					.42	.43	.43
		PDI-816-5	≤2.0 & > 0[1] in. wc					.44	.43	.43

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

(Page 3 of 4)

			Date:					3-1-13	03/02/13	03/03/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					RL	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc					.15	.15	.15
		PDI-812-2	≤2.0 & > 0[1] in. wc					.33	.33	.32
		PDI-812-3	≤2.0 & > 0[1] in. wc					.32	.32	.32
		PDI-812-4	≤2.0 & > 0[1] in. wc					.32	.32	.32
		PDI-812-5	≤2.0 & > 0[1] in. wc					.31	.31	.31
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
		PDI-813-2	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
		PDI-813-3	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
		PDI-813-4	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
		PDI-813-5	≤2.0 & > 0[1] in. wc					Stby	Stby	Stby
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc					.03	.03	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc					.35	.35	.35
		PDI-865-3	≤2.0 & > 0[1] in. wc					.40	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc					.04	.06	.06
		PDI-863-2	≤2.0 & >0[1] in. wc					.40	.40	.40

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

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			Date:					3-1-13	03/02/13	03/03/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					RH	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc					.14	.16	.16
		PDI-857-2	≤2.0 & > 0[1] in. wc					.47	.47	.47
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc					.07	.07	.07
		PDI-856-2	≤2.0 & > 0[1] in. wc					.45	~~.65~~ 3/3/13 .65	.65
[1]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
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
			Completion time					0823	0900	0935
			OC Operator Review and Page Count Complete (initials)					[illegible] BC	[illegible] BC	[illegible] BC

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Michael Irish Date 03/03/13 Time 0935 Reviewed by: _____ Date: 3-4-13 Time: 1047

On-duty Supervisor

Comments: _____

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

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			Date:	3-4-13	3/5/13	3/6/13	3-7-13	3-8-13	3/9/13	3/10/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	JL	JM	nm	~~RH~~	//	JM
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1] wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.44	.45	.44
		PDI-841-2	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.32	.31	.31	.32
		PDI-831-2	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.35	.36	.37	.36	.35	.35
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.23	.23	.23
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.52	.52	.52	.52
		PDI-832-3	≤2.0 & > 0[1] in. wc	.39	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.10	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.77	.78	.79	.77	.77	.78	.78
		PDI-807-3	≤2.0 & > 0[1] in. wc	.47	.47	.47	.47	.47	.47	.47
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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

(Page 2 of 4)

			Date:	3-4-13	~~3/5/13~~ 3/5/13	3/6/13	3-7-13	3-8-13	3/9/13	3/10/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	jm	gm	nm	BL		gm
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.05	.05	.05	.05	.05	.05	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.21	.21	.21	.21	.21	.21	.24
		PDI-829-3	≤2.0 & > 0[1] in. wc	.20	.20	.19	.20	.20	.20	.21
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.86	.87	.87	.87	.87	.87	.87
		PDI-833-2	≤2.0 & > 0[1] in. wc	.46	.48	.47	.47	.47	.47	.47
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.43	.44	.45	.46	.45	.43
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.44	.44	.43	.44	.44	.44	.43
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.32	.32	.32	.32	.32	.32	.32
		PDI-816-2	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.40	.41	.41
		PDI-816-4	≤2.0 & > 0[1] in. wc	.42	.41	.41	.42	.41	.41	.41
		PDI-816-5	≤2.0 & > 0[1] in. wc	.42	.41	.42	.42	.42	.42	.42

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

(Page 3 of 4)

			Date:	3-4-13	3/5/13	3/6/13	3-7-13	3-8-13	3/9/13	3/10/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	[illegible]	[illegible]	nm	RH	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.15	.15	.15	.15	.15	.15	.15
		PDI-812-2	≤2.0 & > 0[1] in. wc	.35	.36	.36	.35	.35	.35	.36
		PDI-812-3	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35	.35	.35	.35
		PDI-812-4	≤2.0 & > 0[1] in. wc	.32	.33	.32	.32	.32	.32	.32
		PDI-812-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	Stby	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.03	.03	.03	.03	.03	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc	.35	.35	.35	.33	.33	.34	.34
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40	.40	.40	.39	.40	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-863-2	≤2.0 & >0[1] in. wc	.41	.41	.41	.41	.41	.41	.41

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

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			Date:	3-4-13	3/5/13	3/6/13	3-7-13	3-8-13	3/9/13	3/10/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	qm	qm	nm	RH	[illegible]	qm
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.17	.15	.16	.17	.17	.17	.17
		PDI-857-2	≤2.0 & > 0[1] in. wc	.48	.48	.48	.47	.48	.48	.48
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.08	.08	.08	.08	.08	.08	.08
		PDI-856-2	≤2.0 & > 0[1] in. wc	.65	.64	.64	.64	.64	.65	.64
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0915	0837	0831	1008	0844	0829	0846
			OC Operator Review and Page Count Complete (initials)			RSB				

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: [signature] Date 3/10/13 Time 0846 Reviewed by: [signature] Date: 3-11-13 Time: 0733

On-duty Supervisor

Comments: _____

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

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			Date:	3/11/13	3/12/13	3/13/13	3/14/13	3/15/13	03/16/13	03/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.45	.44	.44	.45	.44	.44	.44
		PDI-841-2	≤2.0 & > 0[1] in. wc	.51	.52	.52	.52	.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.11	.31	.31	.31	.31	.31	.31
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.35	.36	.35	.36	.35	.35
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.23	.23	.23
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.10	.10
		PDI-807-2	≤2.0 & > 0[1] in. wc	.78	.78	.78	.78	.78	.78	.78
		PDI-807-3	≤2.0 & > 0[1] in. wc	.48	.48	.48	.48	.48	.48	.48
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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

(Page 2 of 4)

			Date:	3/11/13	3/12/13	3/13/13	3/14/13	3/15/13	03/16/13	03/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	gm	gm	gm	gm	gm	mm	mm
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.23	.22	.21	.21	.21	.21	.23
		PDI-829-3	≤2.0 & > 0[1] in. wc	.21	.21	.20	.20	.20	.22	.22
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.87	.88	.88	.88	.88	.86	.88
		PDI-833-2	≤2.0 & > 0[1] in. wc	.46	.46	.46	.46	.46	.46	.46
		PDI-833-3	≤2.0 & > 0[1] in. wc	.44	.44	.45	.45	.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.45	.45	.44	.44	.45	.45	.45
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.34	.32	.32	.33	.33	.35	.35
		PDI-816-2	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.40	.40	.40
		PDI-816-4	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-816-5	≤2.0 & > 0[1] in. wc	.41	.41	.41	.42	.42	.42	.42

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

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			Date:	3/11/13	3/12/13	3/13/13	3/14/13	3/15/13	03/16/13	03/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.15	.15	.15	.15	.15	.15	.15
		PDI-812-2	≤2.0 & > 0[1] in. wc	.35	.34	.35	.35	.35	.35	.35
		PDI-812-3	≤2.0 & > 0[1] in. wc	.36	.35	.36	.36	.36	.36	.36
		PDI-812-4	≤2.0 & > 0[1] in. wc	.33	.33	.33	.33	.33	.33	.33
		PDI-812-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.04	.03	.03	.03	.02	.02
		PDI-865-2	≤2.0 & > 0[1] in. wc	.34	.32	.34	.33	.32	.32	.32
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40	.41	.40	.41	.40	.39	.39
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-863-2	≤2.0 & >0[1] in. wc	.41	.40	.40	.41	.42	.42	.42

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

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			Date:	3/11/13	3/12/13	3/13/13	3/14/13	3/15/13	03/16/13	03/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.16	.17	.16	.16	.16	.17	.17
		PDI-857-2	≤2.0 & > 0[1] in. wc	.46	.47	.47	.47	.47	.46	.46
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.69	.09	.09	.09	.09	.09	.09
		PDI-856-2	≤2.0 & > 0[1] in. wc	.63	.63	.63	.63	.64	.63	.63
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0900	0845	0824	0937	0731	0640	0825
			OC Operator Review and Page Count Complete (initials)	BC RB	BC	RB	RB		BC	BC

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Michael Jost Date 03/17/13 Time 0626 Reviewed by: Date: 3-19-13 Time: 0810

On-duty Supervisor

Comments: _____

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

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			Date:	3/18/13	3/19/13	3/20/13	3/21/13	3/22/13	3-23-13	3-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.44	.45	.44	.45	.45	.44	.45
		PDI-841-2	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.51
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41	.40	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.36	.35	.36	.36	.35	.36	.36
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.23	.23	.23
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.52	.52	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.50	.49	.48	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.78	.78	.79	.79	.78	.80	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.48	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	off	off	off	off	off	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	off	off	off	off	off	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	off	off	off	off	off	OFF	OFF

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

(Page 2 of 4)

			Date:	3/18/13	3/19/13	3/20/13	3/21/13	3/22/13	3-23-13	3-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	qm	[illegible]	RH	qm	qm	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.07	.06	.07	.06	.06	.06	.08
		PDI-829-2	≤2.0 & > 0[1] in. wc	.22	.21	.27	.23	.23	.26	.28
		PDI-829-3	≤2.0 & > 0[1] in. wc	.20	.20	.24	.21	.21	.25	.24
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.87	.88	.88	.88	.88	.89	.89
		PDI-833-2	≤2.0 & > 0[1] in. wc	.46	.45	.47	.46	.47	.48	.48
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.45	.45	.44	.44	.44	.44
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.44	.45	.45	.44	.45	.44	.44
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.40	.41	.40	.40	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.33	.30	.33	.33	.32	.32	.32
		PDI-816-2	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41	.41	.42	.42
		PDI-816-4	≤2.0 & > 0[1] in. wc	.41	.41	.41	.42	.42	.42	.42
		PDI-816-5	≤2.0 & > 0[1] in. wc	.42	.41	.42	.42	.42	.43	.43

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

(Page 3 of 4)

			Date:	3/18/13	3/19/13	3/20/13	3/21/13	3/22/13	3-23-13	3-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	RLL	JM	JM	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.15	.15	.15	.15	.15	.15	.15
		PDI-812-2	≤2.0 & > 0[1] in. wc	.36	.32	.33	.34	.33	.33	.37
		PDI-812-3	≤2.0 & > 0[1] in. wc	.36	.32	.32	.36	.35	.35	.35
		PDI-812-4	≤2.0 & > 0[1] in. wc	.32	.32	.32	.32	.32	.32	.32
		PDI-812-5	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.30
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.04	.04	.04	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc	.36	.35	.35	.35	.35	.35	.35
		PDI-865-3	≤2.0 & > 0[1] in. wc	.41	.40	.40	.41	.40	.41	.41
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.06	.04	.04	.06	.06	.04	.06
		PDI-863-2	≤2.0 & >0[1] in. wc	.41	.41	.41	.41	.40	.40	.41

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

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			Date:	3/18/13	3/19/13	3/20/13	3/21/13	3/22/13	3-23-13	3-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:			RH			PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.17	.18	.18	.17	.18	.18	.18
		PDI-857-2	≤2.0 & > 0[1] in. wc	.48	.48	.48	.48	.48	.48	.48
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.09	.09	.09	.09	.09	.09	.09
		PDI-856-2	≤2.0 & > 0[1] in. wc	.65	.65	.64	.66	.65	.65	.65
[1]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	SAT	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	SAT	SAT	UNSAT 3/21/13 1505 SAT	SAT	SAT	SAT	SAT
			Completion time	0840	0853	0844	0820	0742	0800	0741
			OC Operator Review and Page Count Complete (initials)	RSB	RSB	RSB				PT

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Paul Trujillo Date 3-24-13 Time 0744 Reviewed by: [signature] Date: 3-26-13 Time: 0745
On-duty Supervisor

Comments: 4.3.2.2 Room 204 Wagon in Combustible Storage Area

4.3.2.2 Room 204 wagon has been removal from combustible area. Room 204 is now Sat.

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

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			Date:	3/25/13	3/26/13	3-27-13	3/28/13	3/29/13	3/30/13	3/31/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	.15	.16	.16	.16	.15	.16
		PDI-840-2	≤2.0 & > 0 in[1]. wc	STBY	.52	.52	.52	.53	.52	.52
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	.51	.52	.52	.52	.52	.51
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.45	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0[1] in. wc	.52	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0[1] in. wc	.51	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.32	.32	.32
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.36	.37	.37	.36	.36	.37	.37
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.23	.23	.23
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.52	.52	.52
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-3	≤2.0 & > 0[1] in. wc	.48	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	.06	.06	.06	.06	.06	.06
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	.50	.50	.50	.50	.50	.50
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	.48	.47	.48	.48	.47	.47

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

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			Date:	3/25/13	3/26/13	3-27-13	3/28/13	3/29/13	3/30/13	3/31/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.07	.07	.06	.06	.06	.06	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.29	.26	.22	.21	.21	.22	.22
		PDI-829-3	≤2.0 & > 0[1] in. wc	.25	.21	.21	.20	.21	.21	.21
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.89	.89	.89	.89	.90	.90	.90
		PDI-833-2	≤2.0 & > 0[1] in. wc	.46	.45	.47	.46	.47	.46	.46
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.43	.42	.43	.44	.44	.44
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.44	.43	.45	.43	.45	.44	.44
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.42	.41	.40	.41	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	.19	.18	.19	.19	.18	.18
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	.40	.40	.40	.41	.40	.41
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	.35	.35	.36	.37	.36	.38
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	.39	.39	.39	.39	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.35	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0[1] in. wc	.41	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	≤2.0 & > 0[1] in. wc	.42	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0[1] in. wc	.45	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 3 of 4)

			Date:	3/25/13	3/26/13	3-27-13	3/28/13	3/29/13	3/30/13	3/31/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.15	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0[1] in. wc	.35	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0[1] in. wc	.36	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0[1] in. wc	.32	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0[1] in. wc	.30	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	.74	.74	.74	.74	.74	.74
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	.30	.30	.30	.30	.31	.31
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	.29	.30	.31	.31	.30	.30
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	.30	.31	.30	.30	.30	.30
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	.22	.26	.26	.26	.26	.25
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-I	≤2.0 & > 0[1] in. wc	.04	.04	.03	.04	.03	.03	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc	.32	.35	.35	.32	.34	.33	.33
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.40	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-863-2	≤2.0 & >0[1] in. wc	.40	.40	.41	.41	.42	.41	.40

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

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			Date:	3/25/13	3/26/13	3-27-13	3/28/13	3/29/13	3/30/13	3/31/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤2.0 & > 0[1] in. wc	.16	.15	.17	.15	.19	.18	.18
		PDI-857-2	≤2.0 & > 0[1] in. wc	.48	.48	.47	.48	.48	.48	.48
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.10	.10	.11	.11	.11	.11	.10
		PDI-856-2	≤2.0 & > 0[1] in. wc	.67	.70	.71	.71	.71	.71	.71
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0820	0824	0844	0826	0730	0827	0802
			OC Operator Review and Page Count Complete (initials)	DAO	RS			DAO	DAO	DAO

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: _____ Date 3/31/13 Time 0802 Reviewed by: _____ Date: 4-1-13 Time: 1247

On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:					3-1-13	3/2/13	3/3/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:					PT	[illegible]	[illegible]
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F					46.8	46.5	46.6
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F					45.7	46.3	46.7
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F					59.7	60.3	61.6
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F					62.8	63.1	62.4
		Completion Time:					0841	0833	0803
OC Operator Review and Page Count Complete (initials)							[illegible]	[illegible]	[illegible]

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: [illegible] Date 3/3/13 Time 0822

Reviewed by: [illegible] Date: 3-4-13 Time: 1048
On-duty Supervisor

Comments:

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	842254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

03 3-4-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	3-4-13	3-5-13	3-6-13	3-7-13	3-8-13	3.9.13	3.10.13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	DS	[illegible]	[illegible]	PT	[illegible]	[illegible]	[illegible]
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	46° F	46.3	46.3	46.6	47.2	46.4	45.9
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	47° F	46.9	45.8	48	48.4	46.8	45.3
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	62.5	60.6	61.6	62.3	62.6	60.9	60.4
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	67.1	64.1	63.5	62.3	63.3	64.8	63.8
		Completion Time:	10:48	0918	0848	0854	0841	0835	0945
OC Operator Review and Page Count Complete (initials)			[illegible]	[illegible]	2nd RS	DMD	[illegible]	[illegible]	[illegible]

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: [signature] Date 3/10/13 Time 0945

Reviewed by: On-duty Supervisor [signature] Date: 3-11-13 Time: 0734

Comments:

LA-UR-13-25881

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746 ~~040376~~ 3/11/13	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	3-11-13	3-12-13	3-13-13	3-14-13	3-15-13	3/16/13	03.17.13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	[illegible]	[illegible]	[illegible]	PT	[illegible]	BC
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	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
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	45.4	46.9	47.8	48.0	48.8	50.2	50.4
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	59.6	62.0	62.1	62.6	63.3	64.5	62.7
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	65	63.5	63.6	63.0	64.5	65.2	65.3
		Completion Time:	0832	0833 3-13-13	0907	0828	0827	0935	0920
		OC Operator Review and Page Count Complete (initials)	RSB BC	[illegible] BC	RSB [illegible]	RSB [illegible]	[illegible] BC	[illegible] BC	[illegible] BC

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: [signature] Date 03.17.13 Time 0920

Reviewed by: [signature] Date: 03-19-13 Time: 0817
On-duty Supervisor

Comments:

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	3-18-13	3-19-13	3-20-13	3/21/13	3/22/13	3-23-13	3/24/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AS	TL	TL	RH	TH	a	
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	48.8	48.6	47.9	48.2	48.2	47.8	46.2
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	50.3	49.7	49.1	49.2	49.2	49.4	47.1
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	60.2	62.3	60.2	62.2	61.5	61.5	60.4
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	65.8	65.8	64.0	64.5	64.1	64.7	63.1
		Completion Time:	9:45	0838	0849	0929	0810	1002	1049
	OC Operator Review and Page Count Complete (initials)		RB a	RB	RB	RB	a	a	a

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: _____ Date 3/24/13 Time 1049

Reviewed by: _____ Date: 3-26-13 Time: 0746
On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	5/30/13	Calibration Expiration Date:	8/13/13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	8/13/13	Calibration Expiration Date:	8/13/13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature

Daily (September through April only)

		Date:	3/25/13	3/26/13	3/27/13	3/28/13	3/29/13	3/30/13	3/31/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	TH	TH	RH	TH	TH	DMO	DMO
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	45.8	47.1	48.4	49.4	50.2	50.5 (on 3/31/13)	51.0
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	45.9	45.8	46.7	47.3	48.5	49.7	50.3
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	57.3	59.4	61.9	63.5	62.9	63.1	62.8
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	62.5	63.6	63.7	67.3	63.0	63.9	67.8
		Completion Time:	0846	0839	0916	0823	0805	0935	0940
	OC Operator Review and Page Count Complete (initials)		DMO	DMO	DMO	DMO	DMO	DMO	DMO

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: Del Day Date 3/31/13 Time 0940

Reviewed by: David L Hunt Date: 4-1-13 Time: 1249
On-duty Supervisor

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).	(Sat.) / Unsat.	0926	3/13/13	JJC
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	3/13/13	JJC
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.	0853	3/13/13	JJC
			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. 5 Seconds	(Sat.) / Unsat.	0853	3/13/13	JJC

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ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	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.	0902	3-13-13	[illegible]
			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	(Sat.) Unsat.	0902	3-13-13	[illegible]
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	(Sat.) / Unsat.	0912	3-13-13	[illegible]
4.1.3.2	Confinement Door DR-90	South Basement Door (Tunnel)	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.	0908	3-13-13	[illegible]
					OC Operator Review and Page Count Complete		[illegible]

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: [illegible] Date 3/13/13 Time 0920 Reviewed by: [illegible] 152599 Date: 3/13/13 Time: 1130

On-duty Supervisor Comments: [illegible]

ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)

(Page 1 of 2)

SR	Description		Acceptance Criteria	Sat. / Unsat.	Completion Time:	Date:	Initials:
	Channel #	Location					
4.2.1.1	1	Rm. 201	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	2	Rm. 106	> 1 mR/hr	(Sat.) / Unsat.	0607	3-1-13	a
	3	Rm. 305	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	4	Rm. 401	> 1 mR/hr	(Sat.) / Unsat.	0607	3-1-13	a
	5	Rm. 206	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	6	Rm. 114	> 1 mR/hr	(Sat.) / Unsat.	0607	3-1-13	a
	7	Rm. 319 W	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	8	Rm. 409	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	9	Rm. 208	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	10	Rm. 124	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	11	Rm. 319 E	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	12	Rm. 420	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	13	Rm. 209	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	14	Rm. 126	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	15	Rm. 327	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	16	Rm. 429	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	17	Vault 17	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
4.2.2.1	18	Vault 18	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	19	Vault 19	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a
	20	Vault 20	> 1 mR/hr	(Sat.) / Unsat.	0602	3-1-13	a

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)

Completed by: _____ Date 3-1-13 Time 0602 Reviewed by: _____ Date: 3-1-13 Time: 0620
On-duty Supervisor

Comments:

LA-UR-13-25881

Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004 R15 IPC# 1
Date of issue:	2-1-13
Working copy issued to:	B. CHANCE
Working copy issued by:	A. ORTIZ
	Certified Operations Center Operator

Operations Center Operator Review

[signature] / 3-1-13

Signature Date

Required Reading for this Surveillance has been completed.

Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R. BRISCOE	[initials]	2-1-13
B CHANCE	[initials]	2-1-13
D DUNLAVY	[initials]	2-1-13
A DUNSEITH	[initials]	2-1-13
R LUM	[initials]	2-1-13
A ORTIZ	[initials]	2-1-13
F SEYBERT	[initials]	2-1-13
M WITTMAN	[initials]	2-1-13
N CHAVEZ	[initials]	2-1-13
R HOHNER	[initials]	2-1-13

Comments:

Attachment B, Surveillance Training Checklist

(Page 2 of 2)

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
J MARTINEZ	D	2-1-13
T LANGWORTHY	D	2-1-13
P TRUJILLO	D	2-1-13
N MONTOYA	D	2-1-13
A SANCHEZ	D	2-1-13
G CORIZ	D	2-1-13
M IRISH	D	2-1-13
A HERRERA	D	2-1-13

ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)

(Page 1 of 2)

SR	Description		Acceptance Criteria	Sat. / Unsat.	Completion Time:	Date:	Initials:
	Channel #	Location					
4.2.1.1	1	Rm. 201	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	2	Rm. 106	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	3	Rm. 305	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	4	Rm. 401	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	5	Rm. 206	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	6	Rm. 114	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	7	Rm. 319 W	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	8	Rm. 409	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	9	Rm. 208	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	10	Rm. 124	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	11	Rm. 319 E	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	12	Rm. 420	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	13	Rm. 209	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	14	Rm. 126	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	15	Rm. 327	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	16	Rm. 429	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	17	Vault 17	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
4.2.2.1	18	Vault 18	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	19	Vault 19	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]
	20	Vault 20	> 1 mR/hr	(Sat.) / Unsat.	0635	2-1-13	[illegible]

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

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ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)

(Page 2 of 2)

Completed by: [signature] Date 2-1-13 Time 0635 Reviewed by: [signature] Date: 2-5-13 Time: 0820
On-duty Supervisor

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).	Sat. / Unsat.	005	005	005	005
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.	0920	2/13/13	RH
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.	0852	2/13/13	RH
			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. 4 Seconds	Sat. / Unsat.	0852	2/13/13	RH

ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	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.	0855	2/13/13	[illegible]
			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	(Sat.) / Unsat.	0855	2/13/13	RH
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	(Sat.) / Unsat.	0904	2/13/13	RH
4.1.3.2	Confinement Door DR-90	South Basement Door (Tunnel)	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	0900	2/13/13	RH
					OC Operator Review and Page Count Complete		RM

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: [signature] Date 2/13/13 Time 0933 Reviewed by: [signature] Date 2-13-13 Time: 1100

On-duty Supervisor Comments:

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:									2/1/13		02.02.13		02.03.13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:									[illegible]	[illegible]	EC	[illegible]	EC	[illegible]
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]									-2.00	-2.02	-2.03	-2.07	-2.06	-2.07
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]									-1.89	-1.87	-1.89	-1.90	-1.90	-1.89
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]									-1.98	-1.97	-1.98	-1.97	-1.97	-1.99
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]									-1.97	-1.97	-1.97	-1.97	-1.98	-1.98
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]									-0.19	-.19	-.18	-.19	-.19	-.18
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]									-0.21	-.21	-.20	-.20	-.21	-.20
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]									-0.24	-.24	-.24	-.25	-.25	-.24
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]									-0.20	-.20	-.20	-.20	-.20	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc									-0.19	-.19	-.19	-.19	-.19	-.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc									-0.10	-.10	-.10	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc									-0.11	-.12	-.11	-.11	-.11	-.11
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc									-0.135	-.141	-.141	-.135	-.135	-.134

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.																			
			Date:										2/1/13		02.02.13		02.03.13		
			Weekday:	Mon.		Tue.		Wed.		Thu.			Fri.		Sat.		Sun.		
			Shift:	AM	PM	AM	PM	AM	PM	AM	PM		AM	PM	AM	PM	AM	PM	
			Initials:											DAO	BC	DAO	BC	DAO	
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**															
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat		Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat		Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat		Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat		Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat		Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

				Date:									2/1/13		02-02-13		02-03-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:									[illegible]	DAO	BC	DAO	BC	DAO
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time											0629	1932	0722	1930	0722	1953

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: [signature] Date 2/3/13 Time 1953 Reviewed by: [signature] Date 2-5-13 Time: 0820
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:
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:					2-1-13	02.02.13	2/3/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:					[illegible]	BC	[illegible]
	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA					0.2	0.2	0.2
	CP-305-H (LED Reading)						0.3	0.3	0.3
	(DET-305-3) – (CP-305H)	Record Calculated Value					-0.1	-0.1	-0.1
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:					0734	0807	0841

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

(Page 2 of 4)

			Date:					2-1-13	2-2-13	2/3/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					[illegible]	PJ	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc					.05	.07	.07
		PDI-894-2	≤2.0 & > 0[1] in. wc					.48	.48	.48
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc					.06	.08	.08
		PDI-895-2	≤2.0 & > 0[1] in. wc					.88	.88	.88
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-81 9-3	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc					.23	.23	.23
		PDI-818-2	≤2.0 & > 0[1] in. wc					.30	.30	.30
		PDI-818-4	≤2.0 & > 0[1] in. wc					.30	.32	.32
		PDI-818-5	≤2.0 & > 0[1] in. wc					.28	.28	.28
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc					.39	.40	.39
		PDI-821-3	≤2.0 & > 0[1] in. wc					.42	.42	.42
		PDI-821-4	≤2.0 & > 0[1] in. wc					.38	.38	.38

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

(Page 3 of 4)

			Date:					2-1-13	2-2-13	2/3/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					[illegible]	PT	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc					.65	.66	.65
		PDI-822-2	≤2.0 & > 0[1] in. wc					.50	.50	.51
		PDI-822-4	≤2.0 & > 0[1] in. wc					.42	.42	.43
		PDI-822-5	≤2.0 & > 0[1] in. wc					.48	.49	.49
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc					.56	.56	.56
		PDI-830-2	≤2.0 & > 0[1] in. wc					.35	.35	.35
		PDI-830-3	≤2.0 & > 0[1] in. wc					.30	.31	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc					.87	.87	.87
		PDI-836-2	≤2.0 & > 0[1] in. wc					.55	.56	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc					.52	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc					.60	.61	.61
		PDI-837-2	≤2.0 & > 0[1] in. wc					.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc					.48	.48	.47

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

(Page 4 of 4)

			Date:					2-1-13	2-2-13	2/3/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc					.28	.28	.28
		PDI-838-2	≤2.0 & > 0[1] in. wc					.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc					.38	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc					.27	.27	.27
		PDI-839-2	≤2.0 & > 0[1] in. wc					.41	.41	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc					.41	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc					OFF	OFF	OFF
		PDI-810-2	≤2.0 & > 0[1] in. wc					OFF	OFF	OFF
		PDI-810-3	≤2.0 & > 0[1] in. wc					OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc					.12	.12	.11
		PDI -811 -2	≤2.0 & > 0[1] in. wc					.52	.52	.52
		PDI -811 -3	≤2.0 & > 0[1] in. wc					.50	.50	.50
			Completion Time					0755	0826	0902
OC Operator Review and Page Count Complete (initials)										

[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 as stated in LCO 3.1.3.

Completed by: _____ Date 2/2/13 Time 0922 Reviewed by: _____ Date: 2-5-13 Time: 0820

On-duty Supervisor

Comments _____

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

(Page 1 of 4)

			Date:					2-1-13	02.02.13	02/03/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:						EC	
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc					.16	.16	.16
		PDI-840-2	≤2.0 & > 0 in[1]. wc					.52	.51	.51
		PDI-840-3	≤2.0 & > 0[1] in. wc					.51	.51	.51
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc					.31	.31	.31
		PDI-831-2	≤2.0 & > 0[1] in. wc					.40	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc					.35	.35	.35
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc					.43	.21	.21
		PDI-832-2	≤2.0 & > 0[1] in. wc					.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc					.49	.49	.41
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc					OFF	OFF	OFF
		PDI-807-2	≤2.0 & > 0[1] in. wc					OFF	OFF	OFF
		PDI-807-3	≤2.0 & > 0[1] in. wc					OFF	OFF	OFF
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc					.07	.07	.07
		PDI-809-2	≤2.0 & > 0[1] in. wc					.52	.53	.53
		PDI-809-3	≤2.0 & > 0[1] in. wc					.49	.49	.49

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

(Page 2 of 4)

			Date:					2-1-13	02.02.13	02/03/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:						BC	
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc					.06	.06	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc					.22	.22	.22
		PDI-829-3	≤2.0 & > 0[1] in. wc					.21	.21	.21
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc					.85	.86	.86
		PDI-833-2	≤2.0 & > 0[1] in. wc					.45	.45	.45
		PDI-833-3	≤2.0 & > 0[1] in. wc					.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc					.12	.12	.12
		PDI-835-2	≤2.0 & > 0[1] in. wc					.42	.44	.45
		PDI-835-3	≤2.0 & > 0[1] in. wc					.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc					.18	.19	.19
		PDI-815-2	≤2.0 & > 0[1] in. wc					.39	.39	.39
		PDI-815-4	≤2.0 & > 0[1] in. wc					.32	.32	.32
		PDI-815-5	≤2.0 & > 0[1] in. wc					.38	.38	.38
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-816-4	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0[1] in. wc					STBY	STBY	STBY

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

(Page 3 of 4)

			Date:					2-1-13	02.02.13	02/03/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					JN	BC	MM
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc					STBY	STBY	Stby
		PDI-812-2	≤2.0 & > 0[1] in. wc					STBY	STBY	Stby
		PDI-812-3	≤2.0 & > 0[1] in. wc					STBY	STBY	Stby
		PDI-812-4	≤2.0 & > 0[1] in. wc					STBY	STBY	Stby
		PDI-812-5	≤2.0 & > 0[1] in. wc					STBY	STBY	Stby
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc					.62	.63	.63
		PDI-813-2	≤2.0 & > 0[1] in. wc					.28	.28	.28
		PDI-813-3	≤2.0 & > 0[1] in. wc					.25	.26	.26
		PDI-813-4	≤2.0 & > 0[1] in. wc					.29	.29	.29
		PDI-813-5	≤2.0 & > 0[1] in. wc					.20	.20	.20
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc					.04	.04	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc					.32	.32	.31
		PDI-865-3	≤2.0 & > 0[1] in. wc					.40	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc					.06	.06	.06
		PDI-863-2	≤2.0 & >0[1] in. wc					.40	.40	.40

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

(Page 4 of 4)

			Date:					2-1-13	02.02.13	02/03/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					QM	BC	MM
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc					.14	.14	.14
		PDI-857-2	≤2.0 & > 0[1] in. wc					.45	.45	.45
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc					.07	.07	.07
		PDI-856-2	≤2.0 & > 0[1] in. wc					.69	.69	.69
[1]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
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
			Completion time					0810	0826	0910
			OC Operator Review and Page Count Complete (initials)					BC	BC MD	BC

[1] Non TSR requirement

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Michael Irish Date 02/03/13 Time 0911 Reviewed by: [signature] Date: 2-5-13 Time: 0822

On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	5/30/13	Calibration Expiration Date:	8/13/13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	8/13/13	Calibration Expiration Date:	8/13/13	Calibration Expiration Date:	8/13/13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:					2/1/13	2/2/13	2/3/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:					RH	RH	RK
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F					45.5	46.5	46.0
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F					46.7	45.8	45.5
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F					58.2	58.1	59.4
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F					62.9	61.4	61.9
		Completion Time:					0830	0827	0749
OC Operator Review and Page Count Complete (initials)									

1 Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: _____ Date 2/3/13 Time 0809

Reviewed by: _____ Date: 2-5-13 Time: 0823
On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.																	
		Date:	2/4/13		2/5/13		2/6/13		2/7/13		2/8/13		2/9/13		2/10/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:														
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.07	-2.06	-2.05	-2.06	-2.07	-2.06	-2.05	-2.06	-2.08	-2.06	-2.00	-2.04	-2.05	-2.03
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.84	-1.87	-1.88	-1.89	-1.89	-1.86	-1.88	-1.89	-1.88	-1.89	-1.89	-1.90	-1.88	-1.90
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-1.98	-1.98	-1.99	-1.98	-1.98	-1.98	-1.98	-1.98	-1.99	-1.98	-1.98	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.97	-1.97	-1.97	-1.97	-1.94	-1.97	-1.98	-2.04	-1.92	-1.97	-1.98	-2.00	-1.93	-1.98
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.19	-.20	-.18	-.20	-0.19	-.19	-0.20	-.20	-0.19	-.18	-.19	-.18	-.19	-.20
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.24	-.21	-.19	-.21	-0.21	-.21	-0.21	-.22	-0.20	-.21	-.21	-.20	-.21	-.22
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.21	-.25	-.24	-.24	-0.24	-.17	-0.25	-.26	-0.24	-.25	-.23	-.22	-.24	-.25
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.19	-.20	-.20	-.20	-0.20	-.18	-0.20	-.21	-0.19	-.20	-.19	-.18	-.19	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-.18	-.19	-0.19	-.19	-0.19	-.19	-0.19	-.19	-.19	-.18	-.19	-.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	-.10	-.10	-.10	-0.10	-.10	-0.10	-.10	-0.10	-.10	-.10	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.11	-.12	-.11	-.12	-0.11	-.15	-0.11	-.12	-0.12	-.12	-.11	-.11	-.11	-.11
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.132	-.142	-.136	-.142	-0.139	-.178	-0.140	-.141	-0.138	-.140	-.137	-.142	-.136	-.135

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	2/4/13		2/5/13		2/6/13		2/7/13		2/8/13		2/9/13		2/10/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:														
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

				Date:	2/4/13		2/5/13		2/6/13		2/7/13		2/8/13		2/9/13		2/10/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:														
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS** Sat. / Unsat. (circle one)													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0729	1930	0730	1930	0623	1933	0629	1947	0737	1930	0742 1946 2/8/13	1930	0725	1930

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: _____ Date 2-10-13 Time 1930 Reviewed by: _____ Date: 2-11-13 Time: 0700

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:
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:	2-4-13	2-5-13	2-6-13	2/7/13	2-8-13	2/9/13	2-10-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	[illegible]	[illegible]	[illegible]	PT	[illegible]	[illegible]
	Description / Gauge	Acceptance Criteria	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	CP-305-H (LED Reading)		0.2	0.2	0.2	0.2	0.3	0.3	0.3
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1
		≥ -0.1; ≤+0.1	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	PT	0800	0759	0828	0759	0805	0848

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

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			Date:	2-4-13	2-5-13	2-6-13	2/7/13	2-8-13	2/9/13	2-10-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	mm	[illegible]	JM	PT	[illegible]	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-894-2	≤2.0 & > 0[1] in. wc	.48	.48	.48	.47	.48	.50	.48
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤2.0 & > 0[1] in. wc	.08	.07	.07	.07	.07	.06	.06
		PDI-895-2	≤2.0 & > 0[1] in. wc	.88	.89	.89	.88	.89	.90	.88
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	.23	.23	.25	.24	.25	.25	.25
		PDI-818-2	≤2.0 & > 0[1] in. wc	.30	.29	.30	.30	.30	.30	.31
		PDI-818-4	≤2.0 & > 0[1] in. wc	.31	.31	.32	.32	.32	.30	.30
		PDI-818-5	≤2.0 & > 0[1] in. wc	.28	.27	.29	.28	.29	.30	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	.40	.39	.39	.39	.40	.40	.40
		PDI-821-3	≤2.0 & > 0[1] in. wc	.43	.42	.45	.43	.45	.45	.42
		PDI-821-4	≤2.0 & > 0[1] in. wc	.39	.39	.39	.39	.39	.40	.38

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

(Page 3 of 4)

			Date:	2-4-13	2-5-13	2-6-13	2/7/13	2-8-13	2/9/13	2-10-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	mm	DM	JM	PT		
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.65	.65	.65	.64	.65	.65	.65
		PDI-822-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.50	.50	.50
		PDI-822-4	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.40	.42
		PDI-822-5	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.50	.48
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.56	.56	.65	.55	.56	.52	.55
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.33	.35	.35	.32	.30	.32
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.30	.31	.31	.30	.30	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.87	.87	.88	.87	.88	.88	.88
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.56	.52	.54	.52	.50	.51
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.50	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.61	.61	.60	.61	.61	.60	.60
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.48	.47	.45	.46	.48	.50	.48

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

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SRs	Description	Gauge	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Date:	2-4-13	2-5-13	2-6-13	2/7/13	2-8-13	2/9/13	2-10-13
			Initials:	PT	mm	[illegible]	[illegible]	PT	[illegible]	[illegible]
				SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.28	.28	.28	.28	.28	.28	.28
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.40	.40	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.38	.38	.38	.38	.40	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.28	.27	.27	.27	.27	.28	.28
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.40	.40	.40
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.40	.40
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	OFF	OFF	off	off	OFF	OFF	OFF
		PDI-810-2	≤2.0 & > 0[1] in. wc	OFF	OFF	off	OFF	OFF	OFF	OFF
		PDI-810-3	≤2.0 & > 0[1] in. wc	OFF	OFF	off	OFF	OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - I	≤2.0 & > 0[1] in. wc	.12	.12	.12	.12	.12	.12	.12
		PDI -811 -2	≤2.0 & > 0[1] in. wc	.52	.55	.52	.52	.52	.50	.51
		PDI -811 -3	≤2.0 & > 0[1] in. wc	.51	.51	.50	.51	.51	.50	.50
			Completion Time	0900	0834	0813	0840	0810	0834	0910
OC Operator Review and Page Count Complete (initials)				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[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 as stated in LCO 3.1.3.

Completed by: [signature] Date 2-10-13 Time 0910 Reviewed by: [signature] Date 2-11-13 Time: 0705

On-duty Supervisor

Comments ____________________

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

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			Date:	2-4-13	2-5-13	2-6-13	2-7-13	2-8-13	02/09/13	02/10/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	nm	PT	nm	PT	[illegible]	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.14	.16	.16	.16	.16	.16	.16
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-840-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-841-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-841-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.32	.31	.31	.31	.31	.31	.31
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.38	.37	.38	.37	.37	.37	.37
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.23	.22	.22
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.52	.51	.52	.52
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.50	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	Off	Off
		PDI-807-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	Off	Off
		PDI-807-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	Off	Off
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	.07	.07	.07	.07	.06	.06	.06
		PDI-809-2	≤2.0 & > 0[1] in. wc	.52	.55	.53	.52	.52	.53	.53
		PDI-809-3	≤2.0 & > 0[1] in. wc	.49	.50	.50	.49	.49	.49	.49

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

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			Date:	2-4-13	2-5-13	2-6-13	2-7-13	2-8-13	02/09/13	02/10/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	mm	PT	mm	PT	mm	mm
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.08	.06	.06	.06	.06	.06	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.26	.21	.22	.20	.21	.21	.21
		PDI-829-3	≤2.0 & > 0[1] in. wc	.22	.20	.20	.20	.20	.20	.20
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.85	.85	.85	.85	.85	.86	.86
		PDI-833-2	≤2.0 & > 0[1] in. wc	.49	.46	.48	.47	.45	.45	.45
		PDI-833-3	≤2.0 & > 0[1] in. wc	.46	.45	.45	.46	.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.12	.13	.13	.13	.13	.12	.12
		PDI-835-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.44	.41	.43	.43
		PDI-835-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	.19	.19	.19	.19	.19	.19	.19
		PDI-815-2	≤2.0 & > 0[1] in. wc	.40	.39	.39	.39	.40	.40	.40
		PDI-815-4	≤2.0 & > 0[1] in. wc	.32	.32	.32	.32	.32	.32	.32
		PDI-815-5	≤2.0 & > 0[1] in. wc	.38	.37	.38	.36	.38	.38	.38
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-816-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-816-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-816-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby

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

(Page 3 of 4)

			Date:	2-4-13	2-5-13	2-6-13	2-7-13	2-8-13	02/09/13	02/10/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	mm	PT	mm	PT	mm	mm
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-812-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-812-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-812-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-812-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	Stby	Stby
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.63	.63	.64	.64	.64	.64	.64
		PDI-813-2	≤2.0 & > 0[1] in. wc	.28	.26	.29	.29	.28	.26	.26
		PDI-813-3	≤2.0 & > 0[1] in. wc	.28	.28	.28	.29	.28	.28	.28
		PDI-813-4	≤2.0 & > 0[1] in. wc	.29	.29	.29	.29	.29	.29	.29
		PDI-813-5	≤2.0 & > 0[1] in. wc	.21	.21	.21	.21	.20	.21	.21
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.04	.03	.03	.03	.04	.02	.02
		PDI-865-2	≤2.0 & > 0[1] in. wc	.32	.34	.32	.32	.32	.32	.31
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40	.40	.38
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-863-2	≤2.0 & >0[1] in. wc	.40	.40	.40	.40	.40	.40	.40

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

(Page 4 of 4)

			Date:	2-4-13	2-5-13	2-6-13	2-7-13	2-8-13	02/09/13	02/10/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	nm	PT	nm	PT	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.15	.12	.13	.15	.12	.12	.12
		PDI-857-2	≤2.0 & > 0[1] in. wc	.45	.45	.46	.45	.45	.45	.45
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-I	≤2.0 & > 0[1] in. wc	.07	.07	.08	.07	.09	.08	.08
		PDI-856-2	≤2.0 & > 0[1] in. wc	.69	.69	.69	.69	.70	.69	.69
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0916	1030	0816	0835	0820	0832	0900
			OC Operator Review and Page Count Complete (initials)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Michael Trujillo Date 02/10/13 Time 0907 Reviewed by: [illegible] Date: 2-11-13 Time: 0706

On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5|14|13	Calibration Expiration Date:	5|30|13	Calibration Expiration Date:	8|13|13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5|14|13	Calibration Expiration Date:	8|13|13	Calibration Expiration Date:	8|13|13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	2|4|13	2|5|13	2|6|13	2|7|13	2|8|13	2-9-13	2|10|13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[illegible]	RH	[illegible]	[illegible]	[illegible]	a	[illegible]
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/UNSAT	SAT/UNSAT	SAT/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	45.8	46.8	46.4	46.3	45.5	47.6	47.1
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	45.6	47.0	47.1	47.0	45.8	46.3	46.8
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	64.0	59.0	59.5	59.4	58.6	59.7	58.8
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	62.3	63.0	63.3	60.6	63.3	63.2	2/10/13 62.2
		Completion Time:	0853	0844	0851	0916	0839	1120	1035
	OC Operator Review and Page Count Complete (initials)		a	a	RB	a	a	a	a

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: [signature] Date 2/10/13 Time 1035

Reviewed by: [signature] Date: 2-11-13 Time: 0706
On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	2/11/13		2/12/13		2/13/13		2/14/13		2/15/13		2/16/13		2/17/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	DAO	BC	[illegible]	BC	RSS	[illegible]	[illegible]	[illegible]	DAO	BC	DAO	BC	[illegible]	BC
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.00	-2.00	-2.02	-2.01	-2.05	-2.01	-2.03	-2.03	-2.00	-2.01	-2.03	-2.03	-2.01	-2.04
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.88	-1.88	-1.90	-1.89	-1.85	-1.88	-1.90	-1.88	-1.89	-1.88	-1.88	-1.88	-1.89	-1.89
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.99	-1.98	-1.98	-1.98	-1.98	-1.98	-1.99	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-2.01	-2.04	-1.98	-1.98	-2.00	-1.97	-1.98	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.19	-.19	-0.17	-.19	-.17	-.17	-0.19	-.19	-.19	-.19	-.19	-.19	-0.19	-.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.21	-.21	-0.19	-.20	-.22	-.20	-0.22	-.21	-.21	-.22	-.21	-.21	-0.21	-.21
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.24	-.24	-0.22	-.24	-.24	-.25	-0.24	-.24	-.25	-.26	-.24	-.24	-0.24	-.25
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.20	-.19	-0.18	-.20	-.20	-.21	-0.20	-.19	-.20	-.21	-.20	-.19	-0.20	-.19
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-0.19	-.19	-.19	-.19	-0.19	-.19	-.19	-.19	-.19	-.19	-0.19	-.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	-.10	-0.10	-.10	-.10	-.10	-0.10	-.10	-.10	-.10	-.10	-.10	-0.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.11	-.11	-0.12	-.11	-.10	-.12	-0.11	-.11	-.11	-.12	-.11	-.11	-0.12	-.11
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.137	-.138	-0.142	-.137	-.135	-.137	-0.136	-.139	-.139	-.144	-.137	-.134	-0.140	-.144 BC

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	2/11/13		2/12/13		2/13/13		2/14/13		2/15/13		2/16/13		2/17/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	DAD	BC		BC	KS			DAD	BC	DAD	BC		BC
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

				Date:	2/11/13		2/12/13		2/13/13		2/14/13		2/15/13		2/16/13		2/17/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	DMO	BC	[illegible]	BC	RB	[illegible]	[illegible]	[illegible]	DMO	BC	DMO	BC	[illegible]	BC
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS** Sat. / Unsat. (circle one)													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0644	1930	0729	1928	0730	1930	0725	1930	0653	1926	0720	1935	0728	1933

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: [signature] Date 02-17-13 Time 1933 Reviewed by: [signature] Date 2-25-13 Time: 0914
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:
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:	2/11/13	2/12/13	2-13-13	2-14-13	2/15/13	2/16/13	2/17/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.2	0.2	0.2	0.2	0.3	0.3	0.3
	CP-305-H (LED Reading)		0.3	0.3	0.3	0.3	0.3	0.3	0.3
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0
		≥ -0.1; ≤+0.1	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0816	0801	0804	0824	0800	0807	0819

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

(Page 2 of 4)

			Date:	2/11/13	2/12/13	2-13-13	2-14-13	2/15/13	2/16/13	2/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	GM	[illegible]	[illegible]	[illegible]	RH	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-894-2	≤2.0 & > 0[1] in. wc	.48	.48	.48	.48	.46	.46	.46
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.08	.08	.08	.09	.09	.09	.09
		PDI-895-2	≤2.0 & > 0[1] in. wc	.89	.89	.89	.92	.92	.93	.93
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.27	.27	.27	.28
		PDI-817-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.31	.31	.31	.31
		PDI-817-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.30	.31	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.29	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.40	.41	.41	.40
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.40	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.32	.35	.35	.35
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	.25	.24	.25	STBY	STBY	stby	stby
		PDI-818-2	≤2.0 & > 0[1] in. wc	.30	.30	.30	STBY	STBY	stby	stby
		PDI-818-4	≤2.0 & > 0[1] in. wc	.32	.32	.32	STBY	STBY	stby	stby
		PDI-818-5	≤2.0 & > 0[1] in. wc	.29	.28	.28	STBY	STBY	stby	stby
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	.40	.39	.39	STBY	STBY	stby	stby
		PDI-821-3	≤2.0 & > 0[1] in. wc	.42	.45	.45	STBY	STBY	stby	stby
		PDI-821-4	≤2.0 & > 0[1] in. wc	.39	.39	.39	STBY	STBY	stby	stby

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

(Page 3 of 4)

			Date:	2/11/13	2/12/13	2-13-13	2-14-13	2/15/13	2/16/13	2/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	JM	JM	JM	ZH	DAD
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	.66	.66	65	STBY	STBY	Stby	Stby
		PDI-822-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	STBY	STBY	Stby	Stby
		PDI-822-4	≤2.0 & > 0[1] in. wc	.45	.42	.42	STBY	STBY	Stby	Stby
		PDI-822-5	≤2.0 & > 0[1] in. wc	.50	.49	50	STBY	STBY	Stby	Stby
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.84	.84	.84	.85
		PDI-823-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.45	.43	.44	.42
		PDI-823-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.48	.48	.48	.48
		PDI-823—5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.50	.50	.50	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.56	.55	.55	.55	.56	.56	.56
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.32	.35	.35	.35	.35	.33
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.85	.87	.88	.88	.87	.88	.88
		PDI-836-2	≤2.0 & > 0[1] in. wc	.52	.54	.55	.55	.54	.55	.54
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.51	.51	.50
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.61	.61	.61	.61	.61	.62	.62
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.46	.46	.45	.45	.46	.46	.46

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

(Page 4 of 4)

			Date:	2/11/13	2/12/13	2-13-13	2-14-13	2/15/13	2/16/13	2/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	DAD
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.28	.28	.28	.28	.28	.28	.28
		PDI-838-2	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.39	.39	.38	.38	.38	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.27	.27	.28
		PDI-839-2	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40	.41	.42
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.40	.41	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	off	.15	.15	.17	.17	.17	.16
		PDI-810-2	≤2.0 & > 0[1] in. wc	off	.70	.70	.72	.71	.72	.72
		PDI-810-3	≤2.0 & > 0[1] in. wc	off	.45	.45	.49	.49	.49	.49
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	.12	off	off	off	off	off	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	.52	off	off	off	off	off	off
		PDI -811 -3	≤2.0 & > 0[1] in. wc	.51	off	off	off	off	off	off
			Completion Time	0821	0812	0832	0849	0836	0834	0849
OC Operator Review and Page Count Complete (initials)				DAD	[illegible] DAD	[illegible] RB	[illegible]	DAD	[illegible] DAD	[illegible] DAD

[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 as stated in LCO 3.1.3.

Completed by: [illegible] Date 2/17/13 Time 0849 Reviewed by: [illegible] Date: 2-25-13 Time: 0920

On-duty Supervisor

Comments _____

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

(Page 1 of 4)

			Date:	2/11/13	2/12/13	2/13/13	2/14/13	2/15/13	2/16/13	2/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	RH	JM	JM	JM	JM
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.16	.15	.15	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52	.51	.52	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.44	.44	.44	.44
		PDI-841-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.51	.51	.51	.51
		PDI-841-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.50	.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-831-2	≤2.0 & > 0[1] in. wc	.40	.41	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.38	.38	.36	.36	.36	.36	.36
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.22	.22	.23	.23	.23	.23
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	off	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	off	.81	.81	.78	.79	.79	.79
		PDI-807-3	≤2.0 & > 0[1] in. wc	off	.50	.50	.47	.47	.48	.48
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	.06	off	OFF	off	off	off	off
		PDI-809-2	≤2.0 & > 0[1] in. wc	.53	off	OFF	off	off	off	off
		PDI-809-3	≤2.0 & > 0[1] in. wc	.49	off	OFF	off	off	off	off

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

(Page 2 of 4)

			Date:	2/11/13	2/12/13	2/13/13	2/14/13	2/15/13	2/16/13	2/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.06	.06	.05	.06	.06	.06	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.22	.25	.20	.23	.23	.23	.22
		PDI-829-3	≤2.0 & > 0[1] in. wc	.20	.21	.20	.21	.21	.21	.21
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.85	.85	.85	.85	.85	.85	.85
		PDI-833-2	≤2.0 & > 0[1] in. wc	.48	.45	.46	.47	.46	.46	.46
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.45	.44	.44	.44	.44	.44
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.12	.12	.12	.13	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.42	.42	.45	.42	.42	.42	.43
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	.19	.19	.18	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc	.39	.40	.39	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	.32	.32	.32	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	.39	.38	.38	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	.34	.34	.34	.34
		PDI-816-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	.41	.41	.41	.41
		PDI-816-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	.42	.42	.42	.42
		PDI-816-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	.42	.42	.42	.42

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

(Page 3 of 4)

			Date:	2/11/13 2/13/13	2/12/13	2/13/13	2/14/13	2/15/13	2/16/13	2/17/13 2/18/13 2/19/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.64	.66	.68	.67	.67	.67	.67
		PDI-813-2	≤2.0 & > 0[1] in. wc	.29	.29	.29	.29	.29	.29	.29
		PDI-813-3	≤2.0 & > 0[1] in. wc	.29	.29	.29	.28	.27	.27	.27
		PDI-813-4	≤2.0 & > 0[1] in. wc	.30	.29	.30	.29	.29	.29	.29
		PDI-813-5	≤2.0 & > 0[1] in. wc	.20	.21	.21	.21	.21	.21	.27
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.04	.04	.03	.04	.04	.04	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc	.32	.31	.32	.32	.32	.32	.32
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40	.39	.39	.40	.41	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.06	.05	.05	.06	.06	.06	.06
		PDI-863-2	≤2.0 & >0[1] in. wc	.40	.40	.40	.40	.40	.40	.40

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

(Page 4 of 4)

			Date:	2/11/13	2/12/13	2/13/13	2/14/13	2/15/13	2/16/13	2/17/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	RH	JM	JM	JM	JM
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.13	.12	.14	.13	.14	.14	.14
		PDI-857-2	≤2.0 & > 0[1] in. wc	.48	.48	.47	.48	.48	.48	.47
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.09	.08	.08	.08	.08	.08	.08
		PDI-856-2	≤2.0 & > 0[1] in. wc	.70	.69	.69	.62	.62	.62	.62
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0837	0825	0845	0850	0827	0835	0842
			OC Operator Review and Page Count Complete (initials)	JMD	JMD	RHB PO	JMD	JMD	JMD	JMD

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: [signature] Date 2/17/13 Time 0842 Reviewed by: [signature] Date: 2-25-13 Time: 0422

Off-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	042254	PF-10 Thermistor File No.:	039745	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	040376	PF-11 Thermistor File No.:	039746 AS 2-13	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	3-14-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	2-11-13	2-12-13	2-13-13	2-14-13	2-15-13	2/16/13	2/17/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AS	PT	PT	RH			
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	47.6	45.9	47	47.0	46.1	46.4	46.8
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	45.4	46.7	45.8	46.0	46.0	45.7	45.7
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	57.6	56.9	57.4	57.8	57.8	57.7	58.5
4.3.1.1[1]	RECORD PF-11 room temperature	≥ 50.1 F	63.3	60.5	64.6	57.9	67.9	65.4	67.0
		Completion Time:	9:47	0911	0905	0939	0840	0831	0805
OC Operator Review and Page Count Complete (initials)			DAD	DAD	RB	a	DAD	DAD	DAD

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: _____ Date 2/17/13 Time 0805

Reviewed by: _____ Date: 2-25-13 Time: 0923
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.			Date:	2-18-13		2-19-13		2/20/13		2/21/13		2-22-13		2/23/13		2.24-13	
			Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			Initials:	A	a	A	a	DNO	BC	DNO	BC	A	a	A	a	A	BC
SRs	**Description**	**Gauge Acceptance Criteria**		**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]		-2.00	-2.07	-2.09	-2.00	-2.07	-2.06	-2.09	-2.04	-2.03	-2.02	-2.05	-2.03	-2.06	-2.02
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]		-1.88	-1.97	-1.97	-1.90	-1.98	-1.89	-1.89	-1.87	-1.90	-1.87	-1.88	-1.98	-1.90	-1.86
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]		-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.97	-1.98	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]		-1.98	-1.97	-1.98	-1.98	-1.97	-1.98	-1.98	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.57
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]		-.18	-.19	-.19	-.19	-.19	-.19	-.20	-.19	-.19	-.18	-.19	-.20	-.20	-.18
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]		-.20	-.21	-.21	-.21	-.22	-.22	-.23	-.22	-.22	-.24	-.22	-.22	-.22	-.21
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]		-.23	-.23	-.24	-.22	-.24	-.25	-.26	-.25	-.24	-.24	-.26	-.25	-.23	-.24
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]		-.19	-.18	-.20	-.20	-.20	-.21	-.22	-.20	-.20	-.20	-.20	-.20	-.20	-.19
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc		-.19	-.17	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc		-.10	-.10	-.10	-.10	-.10	-.11	-.11	-.10	-.10	-.10	-.10	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc		-.11	-.11	-.11	-.12	-.11	-.12	-.12	-.10	-.11	-.11	-.11	-.11	-.11	-.11
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc		-.139	-.129	-.139	-.138	-.136	-.146	-.142	-.128	-.124	-.134	-.126	-.133	-.126	-.103

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	2-18-13		2-19-13		2/20/13		2/21/13		2-22-13		2/23/13		2-24-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	[illegible]	a	[illegible]	a	[illegible]	BC	[illegible]	Bi	[illegible]	a	[illegible]	a	[illegible]	BC
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

					Date:	2-18-13		2-19-13		2-20-13		2/21/13		2-22-13		2/23/13 2-23-13		2-24-13	
					Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
					Initials:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BC	[illegible]	BC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BC
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0730	1948	0730	1930	0657	1921	0717	1922	0650	1937	0747	1934	0730	2103

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: [signature] Date 02.24.13 Time 2103 Reviewed by: [signature] Date 2-25-13 Time: 0925
On-duty Supervisor

Comments: _____

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

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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:	2-18-13	2/19/13	2/20/13	2/21/13	2-22-13	2-23-13	2-24-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	JM	DH	RH	PT	PT	PT
	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.3	0.3	0.3	0-3	0.3	0.3	0.3
	CP-305-H (LED Reading)		0.3	0.3	0.3	0.3	0.3	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.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0756	0849	0821	0820	0745	0815	0803

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

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			Date:	2-18-13	2/19/13	2/20/13	2/21/13	2-22-13	2-23-13	2-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	JM	RH	JM	PT	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.07	.07	.06	.06	.06	.06	.06
		PDI-894-2	≤2.0 & > 0[1] in. wc	.46	.45	.44	.45	.45	.45	.45
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.10	.09	.09	.09	.09	.09	.09
		PDI-895-2	≤2 0 & > 0[1] in. wc	.95	.95	.94	.95	.92	.92	.92
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in wc	.27	.28	.27	.27	.27	.27	.27
		PDI-817-2	≤2 0 & > 0[1] in. wc	.31	.31	.30	.31	.31	.31	.31
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2 0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	.34	.35	.35	.35	.35	.33	.33
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY

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

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			Date:	2-18-13	2/19/13	2/20/13	2/21/13	2-22-13	2-23-13	2-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	JM	ZH	JM	PT	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.84	.85	.84	.84	.82	.82	.82
		PDI-823-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-823-4	≤2.0 & > 0[1] in. wc	.49	.49	.48	.48	.48	.45	.48
		PDI-823—5	≤2.0 & > 0[1] in wc	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.56	.56	.56	.56	.57	.56	.57
		PDI-830-2	≤2.0 & > 0[1] in. wc	.33	.35	.35	.34	.35	.35	.35
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.31	.30	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.88	.88	.87	.87	.87	.88	.87
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.55	.55	.53	.55	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.61	.61	.61	.61	.61	.61	.61
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in wc	.45	.46	.46	.46	.47	.47	.47

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

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			Date:	2-18-13	2/19/13	2/20/13	2/21/13	2-22-13	2-23-13	2-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	JM	JH	JM	PT	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.28	.28	.28	.28	.28	.28	.28
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2 0 & > 0[1] in. wc	.35	.38	.38	.37	.38	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.27	.27	.27
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.15	.16	.17	.17	OFF	.19	.17
		PDI-810-2	≤2.0 & > 0[1] in. wc	.71	.71	.72	.71	OFF	.52	.50
		PDI-810-3	≤2.0 & > 0[1] in. wc	.47	.49	.50	.49	OFF	.51	.50
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	.13	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	.55	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	.51	OFF	OFF
			Completion Time	0805	0945	0844	0852	0740	0754	0750
OC Operator Review and Page Count Complete (initials)										

[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 as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date 2-24-13 Time 0808 Reviewed by: _____ Date: 2-25-13 Time: 0926
On-duty Supervisor

Comments _____

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

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			Date:	2-18-13	2/19/13	2/20/13	2/21/13	2-22-13	2-23-13	2-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PJ	JM	JDC	ZH	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.44	.44	.44	.44	.44	.44	.44
		PDI-841-2	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-831-2	≤2.0 & > 0[1] in wc	.41	.41	.40	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.36	.36	.38	.36	.36	.36	.34
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23	.23	.23	.23
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.79	.29	.79	.79	.79	.79	.79
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.48	.49	.48	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	off	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	off	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	off	OFF	OFF	OFF

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

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			Date:	2-18-13	2/19/13	2-20-13	2-21-13	2-22-13	2-23-13	2-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT				PT	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.06	.06	.05	.04	.06	.04	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.22	.22	.22	.23	.23	.25	.22
		PDI-829-3	≤2.0 & > 0[1] in. wc	.21	.21	.20	.21	.21	.21	.21
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.86	.86	.86	.86	.86	.86	.86
		PDI-833-2	≤2 0 & > 0[1] in. wc	.48	.47	.48	.47	.48	.48	.48
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.44	.45	.45	.43	.43	.43
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13	.13	.13	.13
		PDI-835-2	≤2 0 & > 0[1] in. wc	.42	.42	.42	.43	.43	.43	.43
		PDI-835-3	≤2.0 & > 0[1] in wc	.40	.40	.40	.40	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-815-2	≤2 0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	Stby	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.30	.31	.31	.33	.35	.35	.35
		PDI-816-2	≤2.0 & > 0[1] in. wc	.41	.41	.40	.42	.42	.42	.42
		PDI-816-4	≤2.0 & > 0[1] in. wc	.42	.42	.41	.42	.42	.42	.42
		PDI-816-5	≤2.0 & > 0[1] in. wc	.42	.42	.42	.44	.44	.44	.44

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

(Page 3 of 4)

			Date:	2-18-13	2/19/13	2-20-13	2-21-13	2-22-13	2-23-13	2-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	[illegible]	[illegible]	[illegible]	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.15	.15	.15	.15
		PDI-812-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.35	.35	.35	.34
		PDI-812-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.30	.32	.32	.32
		PDI-812-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.32	.32	.32	.32
		PDI-812-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	.31	.31	.31	.31
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.67	.68	.66	Stby	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc	.29	.29	.29	Stby	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc	.28	.28	.28	Stby	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc	.29	.30	.30	Stby	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc	.21	.22	.21	Stby	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.03	.04	.04	.03	.03	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc	.33	.32	.32	.32	.32	.32	.32
		PDI-865-3	≤2.0 & > 0[1] in. wc	.41	.41	.40	.40	.40	.40	.41
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-863-2	≤2.0 & >0[1] in. wc	.41	.41	.40	.40	.40	.40	.40

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

(Page 4 of 4)

			Date:	2-18-13	2/19/13	2-20-13	2-21-13	2-22-13	2-23-13	2-24-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	GM	dsw	ZH	PT	PT	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.09	.07	.07	.15	.15	.15	.15
		PDI-857-2	≤2.0 & > 0[1] in. wc	.48	.48	.45	.48	.45	.47	.47
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.07	.07	.07	.07	.07	.07	.07
		PDI-856-2	≤2.0 & > 0[1] in. wc	.64	.63	.62	.62	.62	.62	.62
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0811	0922	0839	0856	0750	0819	0807
			OC Operator Review and Page Count Complete (initials)							

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Paul Trujillo Date 2-24-13 Time 0807 Reviewed by: _____ Date 2-25-13 Time: 0930

On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data					
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	040373	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	8/13/13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	2-18-13	2-19-13	2/20/13	2/21/13	2/22/13	2-23-13	2/24/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		PT					
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/UNSAT	SAT/UNSAT	SAT/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	46.4	46.2	46.9	45.6	47.6	46.0	45.9
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	46.1	46.4	46.6	45.5	46.5	45.9	45.7
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	57.3	57.4	59.4	57.7	58.6	56.8	56.6
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	67.9	67.3	68.9	66.7	64.8	64.8	63.9
		Completion Time:	1050	1013	0925	0907	0803	0845	0959
OC Operator Review and Page Count Complete (initials)									

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: _____ Date 2/24/13 Time 0959

Reviewed by: _____ Date: 2-25-13 Time: 0925
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	02/25/13		2/26/13		02.27.13		02.28.13							
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	BH	[illegible]	[illegible]	[illegible]	BC	CL	BC	CL						
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.04	-2.06	-2.06	-2.06	-2.05	-2.05	-2.05	-2.04						
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.88	-1.88	-1.88	-1.87	-1.90	-1.88	-1.89	-1.90						
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-1.98	-1.98	-1.98	-1.97	-1.98	-1.97						
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.97	-1.97	-1.98	-1.98	-1.98	-1.96	-1.98	-1.97						
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-0.19	-0.20	-0.20	-0.19	-.19	-.19	-0.18	-.20						
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-0.22	-0.22	-0.22	-0.20	-.22	-.22	-0.21	-.22						
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-0.23	-0.24	-0.24	-0.22	-.25	-.25	-0.23	-.24						
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-0.20	-0.20	-0.19	-0.20	-.20	-.21	-0.19	-.19						
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-0.19	-0.19	-0.19	-0.20	-.20	-.19	-0.19	-.19						
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-0.10	-0.10	-0.10	-0.11	-.10	-.10	-0.10	-.10						
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-0.11	-0.11	-0.10	-0.12	-.10	-.10	-0.11	-.11						
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-0.125	-0.127	-0.131	-0.134	-0.126	-.121	-0.125	-.118						

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				**Date:**	02/25/13		02/26/13		02/27/13		02/28/13							
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	[illegible]	[illegible]	[illegible]	[illegible]	BC	a	for BC	a						
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.				Date:	02/25/13		02/26/13		02/27/13		02/28/13							
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	BPO				BC		BC							
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		Completion Time			0742	1930	0724	1929	0723	1941	0718	1949						

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: _____ Date 2-28-13 Time 1917 Reviewed by: _____ Date: 3-1-13 Time: 0815

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:
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:	2/25/13	2-26-13	2-27-13	2/28/13			
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[illegible]	[illegible]	[illegible]	[illegible]			
SR 4.4.1.1	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.3	0.3	0.3	0.3			
	CP-305-H (LED Reading)		0.3	0.3	0.3	0.3			
	(DET-305-3) – (CP-305H)	Record Calculated Value	0.0	0.0	0.0	0.0			
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0820	0749	0757	0801			

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

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			Date:	2/25/13	2-26-13	2-27-13	2-28-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	nm	nm	nm			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06	.05	.06	.06			
		PDI-894-2	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45			
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.09	.09	.09	.10			
		PDI-895-2	≤2.0 & > 0[1] in. wc	.93	.92	.96	.97			
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27			
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.30	.30	.31			
		PDI-817-4	≤2.0 & > 0[1] in. wc	.30	.31	.31	.31			
		PDI-817-5	≤2.0 & > 0[1] in. wc	.29	.30	.29	.30			
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41			
		PDI-819-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41			
		PDI-819-4	≤2.0 & > 0[1] in. wc	.36	.35	.35	.35			
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			

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

(Page 3 of 4)

			Date:	2/25/13	2-26-13	2-27-13	2-28-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	nm	nm	nm			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY			
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.83	.83	.83	.84			
		PDI-823-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42			
		PDI-823-4	≤2.0 & > 0[1] in. wc	.47	.47	.47	.47			
		PDI-823—5	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50			
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.53	.57	.57	.57			
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.34	.33	.32			
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30			
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.87	.87	.88	.88			
		PDI-836-2	≤2.0 & > 0[1] in. wc	.54	.55	.55	.56			
		PDI-836-3	≤2 0 & > 0[1] in. wc	.51	.52	.52	.52			
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.61	.61	.61	.61			
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50			
		PDI-837-3	≤2.0 & > 0[1] in. wc	.46	.47	.47	.47			

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

(Page 4 of 4)

			Date:	2/25/13	2-26-13	2-27-13	2-28-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	nm	nm	nm			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.28	.28	.28	.28			
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41			
		PDI-838-3	≤2.0 & > 0[1] in. wc	.39	.37	.38	.38			
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.27	.27	.28	.28			
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41			
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41			
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.17	.17	.17	.17			
		PDI-810-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50			
		PDI-810-3	≤2.0 & > 0[1] in. wc	.49	.50	.50	.50			
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in wc	OFF	OFF	OFF	OFF			
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF			
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF			
			Completion Time	0855	0815	0833	0850			
OC Operator Review and Page Count Complete (initials)				RSB	BC	BC	RSB			

[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 as stated in LCO 3.1.3.

Completed by: [signature] Date 2-28-13 Time 0850 Reviewed by: [signature] Date: 3-1-13 Time: 0820

On-duty Supervisor

Comments _____

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

(Page 1 of 4)

			Date:	2/25/13	2/26/13	2/27/13	2/28/13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JLC	RMJ	JM			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
		PDI-840-2	≤2.0 & > 0 in[1] wc	STBY	STBY	Stby	STBY			
		PDI-840-3	≤2 0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.44	.44	.44	.44			
		PDI-841-2	≤2.0 & > 0[1] in. wc	.51	.52	.52	.52			
		PDI-841-3	≤2 0 & > 0[1] in. wc	.50	.50	.50	.50			
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31			
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.40	.41	.41			
		PDI-831-3	≤2.0 & > 0[1] in. wc	.38	.38	.37	.37			
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.23	.23	.23	.23			
		PDI-832-2	≤2 0 & > 0[1] in. wc	.51	.51	.51	.51			
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49			
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.10	.10			
		PDI-807-2	≤2.0 & > 0[1] in. wc	.78	.79	.79	.79			
		PDI-807-3	≤2.0 & > 0[1] in. wc	.48	.48	.48	.47			
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	off	off	off	off			
		PDI-809-2	≤2.0 & > 0[1] in. wc	off	off	off	off			
		PDI-809-3	≤2.0 & > 0[1] in. wc	off	off	off	off			

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

(Page 2 of 4)

			Date:	2/25/13	2-26-13	2-27-13	2/28/13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JCL	RH	JM			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.06	.06	.07	.06			
		PDI-829-2	≤2.0 & > 0[1] in. wc	.25	.25	.25	.21			
		PDI-829-3	≤2.0 & > 0[1] in. wc	.21	.22	.22	.20			
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.85	.85	.84	.86			
		PDI-833-2	≤2.0 & > 0[1] in. wc	.46	.45	.46	.46			
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45			
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.13	.13	.13			
		PDI-835-2	≤2.0 & > 0[1] in. wc	.42	.42	.45	.45			
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40			
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.38	.32	.35	.33			
		PDI-816-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.41			
		PDI-816-4	≤2.0 & > 0[1] in. wc	.45	.42	.42	.42			
		PDI-816-5	≤2.0 & > 0[1] in. wc	.46	.42	.44	.42			

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

(Page 3 of 4)

			Date:	2/25/13	2-26-13	2-27-13	2/28/13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JCC	RLL	JM			
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.15	.15	.15	.15			
		PDI-812-2	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35			
		PDI-812-3	≤2.0 & > 0[1] in. wc	.36	.35	.35	.35			
		PDI-812-4	≤2.0 & > 0[1] in. wc	.31	.32	.32	.32			
		PDI-812-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.31			
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY	Stby	STBY			
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.04	.03	.03			
		PDI-865-2	≤2.0 & > 0[1] in. wc	.34	.32	.33	.33			
		PDI-865-3	≤2.0 & > 0[1] in. wc	.41	.40	.41	.40			
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.06	.04	.06	.06			
		PDI-863-2	≤2.0 & >0[1] in. wc	.41	.40	.41	.41			

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

(Page 4 of 4)

			Date:	2/25/13	2-26-13	2-27-13	2/28/13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	Jlee	ZH	JM			
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.15	.15	.15	.15			
		PDI-857-2	≤2.0 & > 0[1] in. wc	.47	.48	.48	.48			
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.07	.06	.07	.07			
		PDI-856-2	≤2.0 & > 0[1] in wc	.63	.62	.44	.62			
[1]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			
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			
			Completion time	0840	0810	0838	0818			
			OC Operator Review and Page Count Complete (initials)	RSO	BC	BC	RSO			

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: _____ Date 2/28/13 Time 0818 Reviewed by: _____ Date: 3-1-13 Time 0821
On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	5/30/13	Calibration Expiration Date:	8/13/13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	8/13/13	Calibration Expiration Date:	8/13/13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	2/25/13	2/26/13	2/27/13	2-28-13			
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	TH	EH	JM	PT			
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 /UNSAT	SAT /UNSAT	SAT /UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	45.9	46.5	45.9	47			
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	47.6	47.1	45.8	45.5			
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	57.3	59.2	58.4	58.9			
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	65.8	65.9	64.5	62.7			
		Completion Time:	0910	0925	0905	0840			
OC Operator Review and Page Count Complete (initials)			BC	BC	BC	BC			

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: Paul Trujillo Date 2-28-13 Time 0846

Reviewed by: Brent R Chase Date: 3-1-13 Time: 0822
On-duty Supervisor

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).	Sat. / Unsat. NA	NA	NA	NA
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.	1201	2/5/13	[illegible]
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. NA	NA	NA	NA
			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. _____ Seconds	Sat. / Unsat. NA	NA	NA	NA

ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	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.			
			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. _____ Seconds	Sat. / Unsat.			
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	Sat. / Unsat.			
4.1.3.2	Confinement Door DR-90	South Basement Door (Tunnel)	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.			
					OC Operator Review and Page Count Complete		

NA

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: [signature] Date 2/5/13 Time 1202 Reviewed by: [signature] Date 2-5-13 Time: 1715

On-duty Supervisor Comments: Retest DR-149 after adjusting door closure

Attachment B, Surveillance Training Checklist

(Page 2 of 2)

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
J. MARTINEZ	BC	1-1-13
T LANGWORTHY	BC	1-1-13
P TRUJILLO	BC	1-1-13
N MONTOYA	BC	1-1-13
A SANCHEZ	BC	1-1-13
G ORTIZ	BC	1-1-13
M IRISH	BC	1-1-13
A HERRERA	BC	1-1-13

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		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.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:			[illegible]	BC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BC	RB	BC	[illegible]	BC
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]			-2.01	-2.02	-2.03	-2.02	-2.03	-2.02	-2.02	-2.03	-2.04	-2.03	-2.01	-2.01
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]			-1.88	-1.88	-1.89	-1.88	-1.88	-1.89	-1.89	-1.88	-1.88	-1.88	-1.90	-1.90
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]			-1.99	-1.99	-1.98	-1.98	-1.98	-1.99	-1.98	-1.97	-1.98	-1.98	-1.97	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]			-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.98	-1.97
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]			-0.19	-.19	-0.19	-.19	-.19	-.19	-0.19	-.19	-.19	-.19	-0.19	-.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]			-0.22	-.21	-0.22	-.21	-.21	-.21	-0.21	-.21	-.22	-.21	-0.22	-.22
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]			-0.23	-.23	-0.24	-.23	-.23	-.24	-0.24	-.24	-.24	-.24	-0.25	-.24
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]			-0.20	-.19	-0.21	-.19	-.20	-.20	-0.21	-.20	-.20	-.20	-0.21	-.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc			-0.19	-.19	-0.19	-.19	-.19	-.19	-0.19	-.19	-.19	-.19	-0.19	-.19
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc			-0.10	-.10	-0.10	-.10	-.10	-.10	-0.10	-.10	-.10	-.10	-0.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc			-0.11	-.11	-0.12	-.11	-.12	-.11	-0.11	-.12	-.12	-.11	-0.11	-.11
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc			-0.131	-.132	-0.126	-.126	-.132	-.127	-0.131	-.132	-.131	-.120	-0.126	-.125

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				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.	
				Shift:	AM PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:		[illegible]	BC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BC	[illegible]	[illegible]	[illegible]	BC
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**													
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

				Date:			1/2/13		1/2/13		1-3-13		1/4/13		1/5/13		1/6/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:			[illegible]	BC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BC	RJB	BC	[illegible]	BC
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
PC1 #3				Completion Time			0635	1928	0641	1938	0730	1930	0630	1925	0730	1932	0635	1936

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: [signature] Date 01-06-12 Time 1936 Reviewed by: [signature] Date: 1-7-13 Time: 1330
On-duty Supervisor

Comments:

LA-UR-13-25881

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	01/07/2013		1/8/13		1/9/13		1/10/13		1-11-13		1-12-13		~~1-13-13~~ 1-13-13		
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		Initials:	a		DAO		BC		BC		a		a		A		
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**														
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.01	-2.03	-2.04	-2.02	-2.02	-2.03	-2.05	-2.02	-2.02	-2.03	-2.03	-2.03	-2.02	-2.03	
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.88	-1.99	-1.87	-1.88	-1.88	-1.88	-1.88	-1.88	-1.98	-1.88	-1.88	-1.89	-1.89	-1.88	
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.99	-1.98	-1.98	-1.98	-1.98	-1.97	-1.98	-2.00	-1.98	-1.97	-1.98	-1.97	-1.98	
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.97	-1.99	-1.97	-1.98	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-0.19	-.19	-.19	-.20	-0.18	-.19	-0.19	-.19	-.15	-.18	-.18	-.19	-.18	-.19	
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-0.21	-.21	-.21	-.23	-0.21	-.21	-0.22	-.21	-.15	-.20	-.22	-.21	-.21	-.21	
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-0.24	-.23	-.23	-.25	-0.23	-.24	-0.25	-.23	-.18	-.22	-.24	-.24	-.24	-.25	
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-0.20	-.19	-.19	-.21	-0.19	-.20	-0.21	-.19	-.16	-.18	-.20	-.20	-.20	-.21	
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-0.19	-.19	-.19	-.19	-0.19	-.19	-0.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-0.10	-.10	-.10	-.11	-0.10	-.10	-0.10	-.10	-.11	-.10	-.10	-.10	-.10	-.10	
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-0.11	-.11	-.12	-.13	-0.11	-.11	-0.12	-.11	-.11	-.10	-.11	-.12	-.11	-.12	
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-0.122	-.127	-.131	-.140	-0.132	-.134	-0.140	-.142	-.146	-.134	-.140	-.135	-.134	-.136	

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ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	01/07/2013		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.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	a		DAD			BC		BC	a		a		D	
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat / Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat / Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat / Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat / Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat / Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

				Date:	01/07/2013		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.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	CA		DAO		EZ	BC	EZ	BC	CA		CA		D	
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS** Sat. / Unsat. (circle one)													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
				Completion Time	0700	1927	0731	1929	0634	1925	0628	1921	0704	1931	0707	1928	0730	1935

PC-1 #13

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: _____ Date 1/13/13 Time 1935 Reviewed by: _____ Date: 1-14-13 Time: 0810
On-duty Supervisor

Comments: _____

LA-UR-13-25881

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	01.14.13		01.15.13		1/16/13		1-17-13		01.18.13		01.19.13		01.20.13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	BC		BC		RSB		a		BC		BC		BC	
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.02	-2.02	-2.03	-2.03	-2.03	-2.03	-2.03	-2.03	-2.03	-2.11	-2.09	-2.09	-2.09	-2.08
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.89	-1.88	-1.90	-1.88	-1.89	-1.89	-1.88	-1.89 -1.88 2/11/13	-1.87	-1.88	-1.89	-1.89	-1.88	-1.89
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.98	-1.99	-1.98	-1.98	-1.98	-1.98	-1.99	-1.98	-1.99	-1.97	-1.98	-1.98	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.97	-1.97	-1.98	-1.97	-1.98	-1.98	-1.98	-1.87	-1.97	-1.98	-1.98	-1.98	-1.98	-1.97
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.20	0.19	-.19	0.18	-.19	-.19	-.19	-.19	-.21	0.18	-.19	0.19	-.19	0.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.22	0.21	-.21	0.21	-.21	-.21	-.21	-.21	-.24	0.21	-.22	0.21	-.21	-0.21
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.24	0.25	-.24	0.24	-.24	-.24	-.24	-.25	-.24	0.23	-.23	0.24	-.24	0.24
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.20	0.20	-.20	0.20	-.20	-.19	-.20	-.21	-.20	0.19	-.19	0.20	-.19	-0.20
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	0.19	-.19	-0.19	-.19	-.19	-.19	-.19	-.19	0.19	-.19	0.19	-.19	0.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.10	0.10	-.10	0.10	-.10	-.10	-.10	-.16	-.10	0.10	-.10	0.10	-.10	-0.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.12	0.11	-.12	0.12	-.12	-.12	-.12	-.16	-.16	0.15	-.15	0.15	-.14	-0.15
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.135	-0.138	-.137	0.137	-.137	-.139	-.140	-.182	-.180	1.77	-.173	0.184	-.182	-0.183

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	01.14.13		01.15.13		1/16/13		1-17-13		01-18-13		01-19-13		01-20-13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	BC		BC		RB		a		BC		BC		BC	
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

				Date:	01.14.13		01.15.13		1/16/13		1-17-13		01-18-13		01.19.13		01.20.13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	BC		BC		RSS		a		BC		BC		BC	
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
				Completion Time	0628	1922	0631	1920	0730	1931	0656	1941	0629	1928	0735	1925	0714	1927

PC-1 #13

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: _____ Date 1/20/13 Time 1927 Reviewed by: _____ Date 1-21-13 Time: 0715
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	1/21/13		1/22/13		01-23-13		01-24-13		1/25/13		1-26-13		1/27/13	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:														
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.03	-2.09	-2.10	-2.10	-2.10	-2.01	-2.10	-2.10	-2.11	-2.10	-2.11	-2.11	-2.11	-2.10
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.89	-1.89	-1.92	-1.92	-1.89	-1.88	-1.88	-1.88	-1.88	-1.88	-1.88	-1.90	-1.90	-1.88
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.97	-1.98	-1.97	-1.98	-1.99	-1.98	-1.98	-1.97	-1.98	-1.98	-1.98	-1.98	-1.97	-1.97
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.98	-1.97	-1.97
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-.19	-.19	-.19	-.19	-.19	-0.19	-.18	-0.19	-.19	-.19	-.19	-.20	-.19	-.20
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-.22	-.21	-.21	-.22	-.21	-0.21	-.21	-0.22	-.21	-.22	-.22	-.22	-.22	-.23
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-.26	-.24	-.23	-.25	-.23	-0.23	-.25	-0.24	-.24	-.24	-.24	-.20	-.25	-.25
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-.21	-.20	-.20	-.21	-.19	-0.19	-.21	-0.20	-.19	-.20	-.20	-.20	-.21	-.21
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-.19	-.19	-.19	-.19	-.19	-0.19	-.20	-0.19	-.19	-.19	-.19	-.19	-.19	-.19
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-.11	-.10	-.10	-.10	-.10	-0.10	-.11	-0.10	-.10	-.10	-.10	-.10	-.10	-.10
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-.16	-.16	-.21	-.12	-.11	-0.11	-.12	-0.11	-.11	-.11	-.11	-.11	-.11	-.12
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-.183	-.184	-.247	-.143	-.134	-0.136	-.139	-0.135	-.135	-.138	-.138	-.141	-.137	-.142

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	1/21/13		1/22/13		01.23.13		01.24.13		1/25/13		1-26-13		1/27/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:					BC		BC							
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

				Date:	1/21/13		1/22/13		01.23.13		01.24.13		1/25/13		1-26-13		1/27/13	
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:					BC		BC							
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS** Sat. / Unsat. (circle one)													
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
PC-1 #13				Completion Time	0719	1930	0731	1930	0659	1927	0702	1924	0731	1930	0719	1930	0722	1930

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: _____ Date 1-27-13 Time 1930 Reviewed by: _____ Date: 1-28-13 Time: 1255
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 1 of 3)

Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:	1/28/13													
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	[illegible]	DMO												
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	**200 area glovebox exhaust header ΔP**	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]	-2.11	-2.07												
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]	-1.88	-1.88												
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]	-1.98	-1.97												
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]	-1.97	-1.98												
4.1.1.2 4.1.1.5 4.1.2.2[2]	**200 area laboratory header ΔP**	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]	-0.19	-.20												
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]	-0.22	-.23												
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]	-0.25	-.24												
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]	-0.21	-.20												
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc	-0.19	-.17												
4.1.1.3 4.1.2.3[2]	**North basement ΔP**	PDI-804-1 or PDI-804-2 < 0.00 in. wc	-0.10	-.09												
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc	-0.11	-.11												
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc	-0.140	-.123												

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 2 of 3)

Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:	1/28/13													
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	[illegible]	[illegible]												
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

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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 PDIs used.

				Date:	1/28/13														
				Weekday:	Mon		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
				Initials:	[illegible]	DDD													
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
				Completion Time	0624	1946													

PC-1 #10

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: [signature] Date 1/28/13 Time 1946 Reviewed by: [signature] Date: 2-5-13 Time: 0800
On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Gauge readings should be taken on rack #4 in the OC. whenever possible. Document if alternate PDIs are used.		Date:			1/29/13		1/30/13		1/31/13							
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:			[illegible]	DDD	[illegible]	DDD	[illegible]	[illegible]						
SRs	**Description**	**Gauge Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**													
4.1.1.1 4.1.2.1[2]	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2 ≤-1.0 in. wc[1]			-2.09	-2.07	-2.07	-2.05	-2.05	-2.01						
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2 ≤-1.0 in. wc[1]			-1.88	-1.88	-1.88	-1.87	-1.89	-1.98						
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2 ≤-1.0 in. wc[1]			-1.97	-1.97	-1.99	-1.97	-1.99	-1.98						
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2 ≤-1.0 in. wc[1]			-1.97	-1.97	-1.98	-1.97	-1.98	-1.97						
4.1.1.2 4.1.1.5 4.1.2.2[2]	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2 ≤-0.05 in. wc[1]			-.18	-.19	-.19	-.19	-.17	-.19						
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2 ≤-0.05 in. wc[1]			-.21	-.22	-.22	-.22	-.18	-.21						
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2 ≤-0.05 in. wc[1]			-.24	-.25	-.25	-.25	-.23	-.24						
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2 ≤-0.05 in. wc[1]			-.20	-.24	-.21	-.21	-.18	-.19						
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5 ≤-0.05 in. wc			-.19	-.20	-.19	-.20	-.19	-.19						
4.1.1.3 4.1.2.3[2]	North basement ΔP	PDI-804-1 or PDI-804-2 < 0.00 in. wc			-.11	-.10	-.11	-.11	-.10	-.10						
	South basement ΔP	PDI-854-1 or PDI-854-2 < 0.00 in. wc			-.11	-.10	-.12	-.12	-.12	-.13						
	IRT Tunnel ΔP	PDT-901 or PDI-901 < 0.00 in. wc			-.139	-.117	-.140	-.141	-.132	-.134						

ATTACHMENT A: Per Shift Surveillance Rounds

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Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.				Date:		1/29/13		1/30/13		1/31/13							
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:				2nd		2nd								
SRs	**Description**	**Readings**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.6	**200 area re-circulation fan/ plenum**	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	100 area re-circulation fan/ plenum	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	300 area re-circulation fan/ plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	400 area re-circulation fan/ plenum	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat
	Vault re-circulation fan/ plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat Unsat	Sat Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	(Sat) Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat

ATTACHMENT A: Per Shift Surveillance Rounds

(Page 3 of 3)

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 PDIs used.

				Date:			1/29/13		1/30/13		1/31/13								
				Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
				Initials:															
SRs	**Description**	**Area**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS Sat. / Unsat. (circle one)**														
4.1.1.4	**Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400**	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
		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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	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	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	Sat Unsat	
		Completion Time					0630	1937	0734	1944	0730	1930							

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: [signature] Date 1-31-13 Time 1930 Reviewed by: [signature] Date 2-5-13 Time: 0815
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:
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:		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:		nm	RH	gm	gh	RSB	
	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA		0.2	0.2	0.2	0.2	0.2	0.2
	CP-305-H (LED Reading)			0.2	0.2	0.2	0.2	0.2	0.2
	(DET-305-3) – (CP-305H)	Record Calculated Value		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.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:		0812	0804	0823	0701	0759	0748

LA-UR-13-25881

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

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			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:		nm	RH	[illegible]	[illegible]	RSB	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc		.05	.05	.05	.05	.06	.05
		PDI-894-2	≤2.0 & > 0[1] in. wc		.42	.43	.42	.42	.43	.42
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc		.07	.07	.07	.07	.08	.07
		PDI-895-2	≤2.0 & > 0[1] in. wc		.90	.91	.91	.91	.91	.91
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc		.27	.27	.27	.27	.27	.27
		PDI-817-2	≤2.0 & > 0[1] in. wc		.30	.30	.30	.30	.30	.30
		PDI-817-4	≤2.0 & > 0[1] in. wc		.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc		.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc		.41	.41	.41	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc		.40	.41	.41	.41	.42	.42
		PDI-819-4	≤2.0 & > 0[1] in. wc		.35	.35	.35	.35	.36	.36
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY

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

(Page 3 of 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:		nm	ZH	JM	JM	RSB	JM
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc		STBY	Stby	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc		.86	.84	.86	.86	.86	.86
		PDI-823-2	≤2.0 & > 0[1] in. wc		.45	.45	.45	.44	.45	.44
		PDI-823-4	≤2.0 & > 0[1] in. wc		.49	.49	.48	.49	.48	.49
		PDI-823—5	≤2.0 & > 0[1] in. wc		.51	.51	.51	.51	.51	.51
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc		.55	.55	.55	.55	.56	.55
		PDI-830-2	≤2.0 & > 0[1] in. wc		.32	.33	.33	.33	.33	.33
		PDI-830-3	≤2.0 & > 0[1] in. wc		.30	.30	.30	.30	.30	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc		.86	.84	.86	.86	.86	.86
		PDI-836-2	≤2.0 & > 0[1] in. wc		.55	.55	.55	.55	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc		.52	.52	.52	.52	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc		.60	.60	.60	.60	.60	.61
		PDI-837-2	≤2.0 & > 0[1] in. wc		.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc		.47	.47	.47	.47	.45	.46

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

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			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:		nm	RLL			RSS	
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc		.27	.27	.27	.27	.28	.27
		PDI-838-2	≤2.0 & > 0[1] in. wc		.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc		.38	.38	.38	.38	.37	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc		.27	.27	.27	.27	.27	.27
		PDI-839-2	≤2.0 & > 0[1] in. wc		.41	.41	.41	.41	.41	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc		.40	.41	.41	.41	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc		.17	.17	.17	.17	.17	.17
		PDI-810-2	≤2.0 & > 0[1] in. wc		.72	.75	.75	.73	.74	.73
		PDI-810-3	≤2.0 & > 0[1] in. wc		.50	.50	.51	.50	.50	.50
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc		OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc		OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc		OFF	OFF	OFF	OFF	OFF	OFF
			Completion Time		0737	0829	0855	0731	0815	0820
OC Operator Review and Page Count Complete (initials)							NO			

[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 as stated in LCO 3.1.3.

Completed by: nm Date 1-6-13 Time 0820 Reviewed by: On-duty Supervisor Date 1-7-13 Time: 1340

Comments 1.1.13 VERIFIED MODE 2 SIGNAGE @ STATION 116 & VAULT AREA

1-2-13 SAME AS ABOVE

1-3-13 Same as above

1-4-13 Same as above

1/5/13 Same as above

1-6-13 Same as above

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

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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:	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:	PT	[illegible]	[illegible]	[illegible]	[illegible]	PT	PT
	Description / Gauge	Acceptance Criteria	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	CP-305-H (LED Reading)		0.2	0.2	0.2	0.2	0.2	0.2	0.2
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1; ≤+0.1	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0831	0830	0828	0827	0816	0720	0820

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

(Page 2 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:	RS	JM	JM	JM	JL	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-894-2	≤2.0 & > 0[1] in. wc	.45	.45	.44	.45	.45	.44	.43
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.09	.08	.08	.08	.08	.08	.08
		PDI-895-2	≤2.0 & > 0[1] in. wc	.91	.92	.92	.92	.95	.93	.93
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.27	.21	.27
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.31	.31	.32	.32	.29	.30
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.30	.30	.28	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.23	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.42	.41	.42	.41	.40	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.42	.42	.41	.41	.40	.40
		PDI-819-4	≤2.0 & > 0[1] in. wc	.31	.32	.34	.34	.32	.32	.32
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

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				Date:	1-7-13	1-8-13	1-9-13	1-10-13	1-11-13 ~~1-11-13~~ 1/11/13	1-12-13	1-13-13
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	NS	JM	JM	JM	Joel	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.87	.86	.87	.86	.86	.80	.86
		PDI-823-2	≤2.0 & > 0[1] in. wc	.48	.48	.46	.48	.48	.42	.42
		PDI-823-4	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.46	.49
		PDI-823—5	≤2.0 & > 0[1] in. wc	.51	.51	.51	.50	.51	.49	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.55	.55	.55	.55	.55	.56	.56
		PDI-830-2	≤2.0 & > 0[1] in. wc	.35	.35	.35	.35	.32	.32	.32
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.86	.87	.87	.87	.87	.87	.87
		PDI-836-2	≤2.0 & > 0[1] in. wc	.52	.55	.55	.55	.55	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.51	.52	.52	.52	.52	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.60	.60	.60	.60	.60	.60	.60
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.45	.47	.47	.48	.48	.48	.48

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

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			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:	MS	JM	JM	JM	Dec	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.27	.27	.27
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.36	.37	.37	.37	.38	.39	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.27	.27	.27
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.40	.41	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.40	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.17	.17	.17	.17	.17	.17	.18
		PDI-810-2	≤2.0 & > 0[1] in. wc	.75	.73	.75	.75	.72	.73	.75
		PDI-810-3	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.49	.50	.50
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF AS ~~OFF~~ 1-7-13	off	off	off	off	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF AS ~~OFF~~ 1-7-13	off	off	off	off	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	off	off	off	off	OFF	OFF
			Completion Time	9:00 am	0900	0842	0858	0808	0757	0749
OC Operator Review and Page Count Complete (initials)				DM	DM	DM	RSB	DM 1/11/13	DM	DM

NO

[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 as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date 1-13-13 Time 0749 Reviewed by: [signature] Date 1-14-13 Time: 1211
On-duty Supervisor

Comments Mode 1 Signs OK 1-7-13
Mode 2 signs down DM 1/11/13

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

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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:	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:	JM	JM	MM	JM	MM	BC	BC
	Description / Gauge	Acceptance Criteria	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	CP-305-H (LED Reading)		0.2	0.2	0.2	0.2	0.2	0.2	0.2
	(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.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0840	0841	0932	0836	0717	0923	0912

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

(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:	JM	JM	PT	DLL	MM	BC	BC
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-894-2	≤2.0 & > 0[1] in. wc	.43	.42	.42	.45	.45	.43	.43
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.08	.07	.09	.09	.09	.09	.09
		PDI-895-2	≤2.0 & > 0[1] in. wc	.94	.94	.92	.92	.93	.92	.93
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27	.27	.21	.21	.27	.27	.27
		PDI-817-2	≤2.0 & > 0[1] in. wc	.31	.31	.28	.25	.31	.30	.30
		PDI-817-4	≤2.0 & > 0[1] in. wc	.30	.31	.28	.28	.30	.30	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.30	.22	.22	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	.39	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.39	.39	.41	.40	.40
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35	.36	.31	.32	.35	.35	.35
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(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:	jm	jm	PT	JCC	mm	BC	BC
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.86	.87	.80	.81	.65	.85	.85
		PDI-823-2	≤2.0 & > 0[1] in. wc	.44	.45	.42	.45	.45	.45	.45
		PDI-823-4	≤2.0 & > 0[1] in. wc	.49	.49	.48	.48	.49	.49	.49
		PDI-823—5	≤2.0 & > 0[1] in. wc	.50	.51	.50	.49	.51	.50	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.55	.55	.56	.56	.56	.56	.56
		PDI-830-2	≤2.0 & > 0[1] in. wc	.32	.34	.32	.35	.33	.35	.34
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.86	.86	.87	.87	.86	.87	.86
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55	.55	.55	.55	.55	.55	.55
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.60	.60	.60	.61	.60	.60	.60
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.45	.46	.47	.48	.47	.48	.47

LA-UR-13-25881

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

(Page 4 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:	[illegible]	[illegible]	PT	[illegible]	[illegible]	BC	BC
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.27	.27	.28	.28	.27	.27	.27
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38	.38	.38	.38	.38	.38	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.27	.27	.28	.27	.28	.27	.27
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.40	.41	.41	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.42	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.17	.17	.18	.17	.16	.15	15
		PDI-810-2	≤2.0 & > 0[1] in. wc	.72	.72	.75	.75	.70	.70	.70
		PDI-810-3	≤2.0 & > 0[1] in. wc	.50	.50	.51	.50	.48	.48	.48
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			Completion Time	0906	0855	0842	0830	0749	0942	0927
OC Operator Review and Page Count Complete (initials)				BC	BC	KB		BC	BC	BC

[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 as stated in LCO 3.1.3.

Completed by: [signature] Date 01.20.13 Time 0927 Reviewed by: [signature] Date 1-21-13 Time: 0716

On-duty Supervisor

Comments _____

LA-UR-13-25881

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:	1-21-13	1-22-13	1-23-13	1-24-13	1-25-13	1-26-13	1-27-13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]
	Description / Gauge	**Acceptance Criteria**	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	CP-305-H (LED Reading)		0.2	0.2	0.2	0.2	0.2	0.2	0.2
	(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.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0756	0753	0823	0838	0740	0735	0812

LA-UR-13-25881

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

(Page 2 of 4)

			Date:	1-21-13	1-22-13	1-23-13	1-24-13	1-25-13	1-26-13	1-27-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	JM	JM	PT	JM	OA
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06	.06	.05	.05	.05	.05	.05
		PDI-894-2	≤2.0 & > 0[1] in. wc	.43	.44	.43	.45	.45	.45	.45
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.08	.07	.08	.08	.08	.08	.08
		PDI-895-2	≤2.0 & > 0[1] in. wc	.94	.93	.94	.94	.94	.94	.95
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.27	.27	.27
		PDI-817-2	≤2.0 & > 0[1] in. wc	.30	.30	.31	.31	.31	.31	.31
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.30	.30	.31
		PDI-817-5	≤2.0 & > 0[1] in. wc	.30	.29	.30	.30	.29	.29	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-81 9-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & > 0[1] in. wc	.36	.36	.36	.36	.35	.36	.36
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

LA-UR-13-25881

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

(Page 3 of 4)

			Date:	1-21-13	1-22-13	1-23-13	1-24-13	1-25-13	1-26-13	1-27-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	JM	JM	PT	JM	JM
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.86	.86	.87	.86	.86	.86	.86
		PDI-823-2	≤2.0 & > 0[1] in. wc	.43	.44	.45	.45	.45	.44	.44
		PDI-823-4	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.50
		PDI-823—5	≤2.0 & > 0[1] in. wc	.50	.50	.51	.50	.50	.51	.51
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.56	.56	.56	.56	.56	.56	.56
		PDI-830-2	≤2.0 & > 0[1] in. wc	.33	.34	.34	.34	.32	.34	.34
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.86	.86	.86	.86	.87	.86	.87
		PDI-836-2	≤2.0 & > 0[1] in. wc	.54	.54	.54	.54	.54	.54	.53
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52	.52	.52	.52	.52	.52	.52
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	JM 1/21/13 ~~.46~~ .60	.60	.60	.60	.60	.60	.60
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-3	≤2.0 & > 0[1] in. wc	.46	.47	.47	.47	.47	.47	.47

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

(Page 4 of 4)

			Date:	1-21-13	1-22-13	1-23-13	1-24-13	1-25-13	1-26-13	1-27-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:					PT		
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.28	.28	.28
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0[1] in. wc	.39	.39	.39	.39	.39	.39	.39
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.27	.27	.27	.27	.27	.27	.27
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.16	.16	.17	.17	.17	.17	.17
		PDI-810-2	≤2.0 & > 0[1] in. wc	.70	.70	.71	.71	.71	.71	.71
		PDI-810-3	≤2.0 & > 0[1] in. wc	.48	.48	.49	.49	.49	.49	.49
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	off	off	off	off	OFF	off	off
		PDI -811 -2	≤2.0 & > 0[1] in. wc	off	off	off	off	OFF	off	off
		PDI -811 -3	≤2.0 & > 0[1] in. wc	off	off	off	off	OFF	off	off
			Completion Time	0826	0807	0900	0833	0812	0713	0837
OC Operator Review and Page Count Complete (initials)						BC	BC			

[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 as stated in LCO 3.1.3.

Completed by: _____ Date 1-27-13 Time 0837 Reviewed by: _____ Date: 1-28-13 Time: 1300

On-duty Supervisor

Comments _____

LA-UR-13-25881

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:	1-28-13						
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	mm						
	Description / Gauge	Acceptance Criteria	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA	0.2						
	CP-305-H (LED Reading)		0.2						
	(DET-305-3) – (CP-305H)	Record Calculated Value	0.0						
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	(Sat.) / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0752						

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

(Page 2 of 4)

			Date:	1-28-13						
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm						
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc	.06						
		PDI-894-2	≤2.0 & > 0[1] in. wc	.42						
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc	.09						
		PDI-895-2	≤2.0 & > 0[1] in. wc	.92						
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc	.27						
		PDI-817-2	≤2.0 & > 0[1] in. wc	.30						
		PDI-817-4	≤2.0 & > 0[1] in. wc	.31						
		PDI-817-5	≤2.0 & > 0[1] in. wc	.29						
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & > 0[1] in. wc	.41						
		PDI-819-3	≤2.0 & > 0[1] in. wc	.41						
		PDI-819-4	≤2.0 & > 0[1] in. wc	.35						
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc	STBY						
		PDI-818-2	≤2.0 & > 0[1] in. wc	STBY						
		PDI-818-4	≤2.0 & > 0[1] in. wc	STBY						
		PDI-818-5	≤2.0 & > 0[1] in. wc	STBY						
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc	STBY						
		PDI-821-3	≤2.0 & > 0[1] in. wc	STBY						
		PDI-821-4	≤2.0 & > 0[1] in. wc	STBY						

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

(Page 3 of 4)

			Date:	1-28-13						
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm						
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc	STBY						
		PDI-822-2	≤2.0 & > 0[1] in. wc	STBY						
		PDI-822-4	≤2.0 & > 0[1] in. wc	STBY						
		PDI-822-5	≤2.0 & > 0[1] in. wc	STBY						
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc	.85						
		PDI-823-2	≤2.0 & > 0[1] in. wc	.45						
		PDI-823-4	≤2.0 & > 0[1] in. wc	.49						
		PDI-823—5	≤2.0 & > 0[1] in. wc	.51						
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc	.56						
		PDI-830-2	≤2.0 & > 0[1] in. wc	.32						
		PDI-830-3	≤2.0 & > 0[1] in. wc	.30						
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc	.86						
		PDI-836-2	≤2.0 & > 0[1] in. wc	.55						
		PDI-836-3	≤2.0 & > 0[1] in. wc	.52						
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc	.60						
		PDI-837-2	≤2.0 & > 0[1] in. wc	.50						
		PDI-837-3	≤2.0 & > 0[1] in. wc	.46						

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

(Page 4 of 4)

			Date:	1-28-13						
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	mm						
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc	.28						
		PDI-838-2	≤2.0 & > 0[1] in. wc	.41						
		PDI-838-3	≤2.0 & > 0[1] in. wc	.38						
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc	.27						
		PDI-839-2	≤2.0 & > 0[1] in. wc	.41						
		PDI-839-3	≤2.0 & > 0[1] in. wc	.41						
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc	.17						
		PDI-810-2	≤2.0 & > 0[1] in. wc	.72						
		PDI-810-3	≤2.0 & > 0[1] in. wc	.49						
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc	OFF						
		PDI -811 -2	≤2.0 & > 0[1] in. wc	OFF						
		PDI -811 -3	≤2.0 & > 0[1] in. wc	OFF						
			Completion Time	0733						
OC Operator Review and Page Count Complete (initials)				EC						

[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 as stated in LCO 3.1.3.

Completed by: [signature] Date 1-28-13 Time 0733 Reviewed by: [signature] Date 2-5-13 Time: 0852
On-duty Supervisor

Comments _____

LA-UR-13-25881

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:		1-29-13	1-30-13	1-31-13			
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		mm	JM	JM			
	Description / Gauge	Acceptance Criteria	**SURVEILLANCE RESULTS (percentage)**						
SR 4.4.1.1	**Flammable Gas Channel Check DET-305-3 (LCD Reading)**	NA		0.2	0.2	0.2			
	CP-305-H (LED Reading)			0.2	0.2	0.2			
	(DET-305-3) – (CP-305H)	Record Calculated Value		0.0	0.0	0.0			
	(LCD Reading) (LED Reading)	≥ -0.1; ≤+0.1	Sat. / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:		0823	0804	0831			

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

(Page 2 of 4)

			Date:		1-29-13	1-30-13	1-31-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		mm	qm	qm			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	[1]PDI-894-1	≤2.0 & > 0[1] in. wc		.05	.05	.05			
		PDI-894-2	≤2.0 & > 0[1] in. wc		.42	.43	.45			
4.1.3.4	South Corridor supply (HVP-810) ΔP	[1]PDI-895-1	≤ 2.0 & > 0[1] in. wc		.07	.08	.07			
		PDI-895-2	≤2.0 & > 0[1] in. wc		.92	.92	.88			
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	[1]PDI-817-1	≤2.0 & > 0[1] in. wc		.27	.27	STBY			
		PDI-817-2	≤2.0 & > 0[1] in. wc		.30	.30	STBY			
		PDI-817-4	≤2.0 & > 0[1] in. wc		.30	.30	STBY			
		PDI-817-5	≤2.0 & > 0[1] in. wc		.30	.29	STBY			
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0[1] in. wc		.40	.40	STBY			
		PDI-81 9-3	≤2.0 & > 0[1] in. wc		.40	.40	STBY			
		PDI-819-4	≤2.0 & > 0[1] in. wc		.35	.33	STBY			
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	[1]PDI-818-1	≤2.0 & > 0[1] in. wc		STBY	STBY	.24			
		PDI-818-2	≤2.0 & > 0[1] in. wc		STBY	STBY	.30			
		PDI-818-4	≤2.0 & > 0[1] in. wc		STBY	STBY	.31			
		PDI-818-5	≤2.0 & > 0[1] in. wc		STBY	STBY	.28			
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0[1] in. wc		STBY	STBY	.39			
		PDI-821-3	≤2.0 & > 0[1] in. wc		STBY	STBY	.45			
		PDI-821-4	≤2.0 & > 0[1] in. wc		STBY	STBY	.39			

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

(Page 3 of 4)

			Date:		1-29-13	1-30-13	1-31-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		nm	[illegible]	[illegible]			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	[1]PDI-822-1	≤2.0 & > 0[1] in. wc		STBY	STBY	.65			
		PDI-822-2	≤2.0 & > 0[1] in. wc		STBY	STBY	.50			
		PDI-822-4	≤2.0 & > 0[1] in. wc		STBY	STBY	.25			
		PDI-822-5	≤2.0 & > 0[1] in. wc		STBY	STBY	.50			
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	[1]PDI-823-1	≤2.0 & > 0[1] in. wc		.86	.86	STBY			
		PDI-823-2	≤2.0 & > 0[1] in. wc		.45	.44	STBY			
		PDI-823-4	≤2.0 & > 0[1] in. wc		.49	.49	STBY			
		PDI-823—5	≤2.0 & > 0[1] in. wc		.51	.50	STBY			
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	[1]PDI-830-1	≤2.0 & > 0[1] in. wc		.55	.55	.56			
		PDI-830-2	≤2.0 & > 0[1] in. wc		.32	.32	.32			
		PDI-830-3	≤2.0 & > 0[1] in. wc		.30	.30	.30			
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	[1]PDI-836-1	≤2.0 & > 0[1] in. wc		.86	.87	.86			
		PDI-836-2	≤2.0 & > 0[1] in. wc		.55	.55	.55			
		PDI-836-3	≤2.0 & > 0[1] in. wc		.53	.52	.52			
	300 area re-circulation filter plenum (HVP-806) ΔP	[1]PDI-837-1	≤2.0 & > 0[1] in. wc		.60	.60	.60			
		PDI-837-2	≤2.0 & > 0[1] in. wc		.50	.50	.50			
		PDI-837-3	≤2.0 & > 0[1] in. wc		.47	.47	.48			

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

(Page 4 of 4)

			Date:		1-29-13	1-30-13	1-31-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		nm	qm	qm			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	[1]PDI-838-1	≤2.0 & > 0[1] in. wc		.27	.27	.27			
		PDI-838-2	≤2.0 & > 0[1] in. wc		.41	.40	.41			
		PDI-838-3	≤2.0 & > 0[1] in. wc		.38	.38	.38			
	400 area re-circulation filter plenum (HVP-808) ΔP	[1]PDI-839-1	≤2.0 & > 0[1] in. wc		.27	.27	.27			
		PDI-839-2	≤2.0 & > 0[1] in. wc		.41	.41	.40			
		PDI-839-3	≤2.0 & > 0[1] in. wc		.41	.41	.41			
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	[1]PDI-810-1	≤2.0 & > 0[1] in. wc		.17	.17	off			
		PDI-810-2	≤2.0 & > 0[1] in. wc		.74	.75	off			
		PDI-810-3	≤2.0 & > 0[1] in. wc		.50	.50	off			
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	[1]PDI -811 - 1	≤2.0 & > 0[1] in. wc		off	off	.11			
		PDI -811 -2	≤2.0 & > 0[1] in. wc		off	off	.51			
		PDI -811 -3	≤2.0 & > 0[1] in. wc		off	off	.50			
			Completion Time		0802	0812	0900			
OC Operator Review and Page Count Complete (initials)						RB				

[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 as stated in LCO 3.1.3.

Completed by: Serena M. Date 1/31/13 Time 0900 Reviewed by: _____ Date: 2-5-13 Time: 0817

On-duty Supervisor

Comments _____

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

(Page 1 of 4)

1/6/13

			Date:		1-1-13	1-2-13	1-3-13	1-4-13	1-5-13	~~1/6/13~~ 1/6/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		nm	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in[1]. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc		.45	.45	.45	.45	.45	.45
		PDI-841-2	≤2.0 & > 0[1] in. wc		.51	.51	.51	.51	.51	.52
		PDI-841-3	≤2.0 & > 0[1] in. wc		.50	.50	.51	.50	.51	.51
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc		.30	.31	.31	.31	.31	.31
		PDI-831-2	≤2.0 & > 0[1] in. wc		.40	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc		.36	.36	.38	.38	.37	.37
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc		.22	.22	.22	.22	.22	.22
		PDI-832-2	≤2.0 & > 0[1] in. wc		.51	.51	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc		.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc		.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc		.80	.79	.80	.80	.80	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc		.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc		OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc		OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc		OFF	OFF	OFF	OFF	OFF	OFF

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

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			Date:		1-1-13	1-2-13	1-3-13 (1-2-13 6m 1-3-13)	1-4-13	1-5-13	1/6/13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		nm					
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc		.06	.06	.08	.06	.07	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc		.23	.23	.29	.23	.23	.23
		PDI-829-3	≤2.0 & > 0[1] in. wc		.21	.21	.25	.21	.21	.21
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc		.83	.83	.83	.83	.83	.84
		PDI-833-2	≤2.0 & > 0[1] in. wc		.46	.46	.47	.47	.47	.47
		PDI-833-3	≤2.0 & > 0[1] in. wc		.45	.45	.45	.45	.45	.46
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc		.12	.12	.12	.12	.12	.12
		PDI-835-2	≤2.0 & > 0[1] in. wc		.42	.42	.42	.42	.42	.43
		PDI-835-3	≤2.0 & > 0[1] in. wc		.41	.40	.41	.41	.41	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc		.35	.35	.35	.35	.35	.35
		PDI-816-2	≤2.0 & > 0[1] in. wc		.42	.42	.42	.42	.42	.42
		PDI-816-4	≤2.0 & > 0[1] in. wc		.35 (4 nm 1-1-13)	.45	.45	.45	.45	.45
		PDI-816-5	≤2.0 & > 0[1] in. wc		.45	.46	.46	46	.46	.45

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

(Page 3 of 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:		nm					
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc		.12	.13	.12	.13	.13	.13
		PDI-812-2	≤2.0 & > 0[1] in. wc		.30	.31	.30	.31	.31	.31
		PDI-812-3	≤2.0 & > 0[1] in. wc		.30	.32	.31	.32	.32	.31
		PDI-812-4	≤2.0 & > 0[1] in. wc		.30	.30	.30	.31	.31	.31
		PDI-812-5	≤2.0 & > 0[1] in. wc		.29	.29	.29	.29	.29	.29
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc		.03	.03	.03	.03	.03	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc		.32	.32	.34	.32	.32	.33
		PDI-865-3	≤2.0 & > 0[1] in. wc		.40	.40	.41	.41	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc		.05	.05	.05	.05	.05	.05
		PDI-863-2	≤2.0 & >0[1] in. wc		.40	.40	.40	.40	.40	.40

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

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			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:		nm	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**		**SURVEILLANCE RESULTS**					
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc		.12	.13	.12	.12	.12	.13
		PDI-857-2	≤2.0 & > 0[1] in. wc		.45	.46	.47	.47	.47	.48
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc		.05	.05	.06	.05	.05	.06
		PDI-856-2	≤2.0 & > 0[1] in. wc		.62	.62	.62	.62	.62	.62
[1]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	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		SAT	SAT	SAT	SAT	SAT	SAT
			Completion time		0830	0830	0844	0720	0814	0816
			OC Operator Review and Page Count Complete (initials)		[illegible] RB	[illegible]	[illegible]	[illegible] RB	RB	[illegible]

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: [illegible] Date 1/6/13 Time 0816 Reviewed by: [illegible] On-duty Supervisor Date: 1-7-13 Time: 1345

Comments: 1-2-13 4.1.3.7 oil drip from flange/valve 100 new source

1-3-13 Same as above

1-4-13 Same as above

1-5-13 Same as above

1/6/13 SAME AS ABOVE

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

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			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:	PT	[illegible]	PT	[illegible]	nm	[illegible]	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	STBY	STBY	.16	.15	.15	.15	.15
		PDI-840-2	≤2.0 & > 0 in[1]. wc	STBY	STBY	.52	.52	.52	.52	.52
		PDI-840-3	≤2.0 & > 0[1] in. wc	STBY	STBY	.51	.52	.52	.52	.52
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	.45	.45	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0[1] in. wc	.52	.52	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0[1] in. wc	.51	.51	STBY	~~.52~~ STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.30	.31	.31
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.40	.40	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.37	.38	.38	.38	.36	.36	.36
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.22	.22	.22	.22	.22	.22	.22
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80	.80	.81	.80	.80	.80	.81
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.49	.50	.50	.50	.50	.50
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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

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			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:	PT	[illegible]	PT	[illegible]	[illegible]	[illegible]	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.10	.07
		PDI-829-2	≤2.0 & > 0[1] in. wc	.21	.21	.21	.22	.21	.35	.27
		PDI-829-3	≤2.0 & > 0[1] in. wc	.20	.21	.21	.21	.20	.31	.22
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.84	.84	.84	.84	.83	.83	.84
		PDI-833-2	≤2.0 & > 0[1] in. wc	.48	.48	.48	.48	.47	.47	.48
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45	.45	.45	.45	.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.13	.12	.13	.12	.12	.13	.12
		PDI-835-2	≤2.0 & > 0[1] in. wc	.42	.42	.42	.42	.42	.45	.43
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.40	.40	.40	.40	.40	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	STBY	STBY	.19	.20	.19	.10	.19
		PDI-815-2	≤2.0 & > 0[1] in. wc	STBY	STBY	.41	.40	.40	.30	.41
		PDI-815-4	≤2.0 & > 0[1] in. wc	STBY	STBY	.35	.36	.35	.25	.38
		PDI-815-5	≤2.0 & > 0[1] in. wc	STBY	STBY	.39	.40	.39	.29	.39
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	.35	.37	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0[1] in. wc	.42	.43	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	≤2.0 & > 0[1] in. wc	.43	.44	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0[1] in. wc	.45	.45	STBY	STBY	STBY	STBY	STBY

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

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			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:	PT	[illegible]	PT	[illegible]	[illegible]	[illegible]	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	.14	.13	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0[1] in. wc	.30	.31	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0[1] in. wc	.32	.33	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0[1] in. wc	.31	.30	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0[1] in. wc	.29	.29	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	STBY	STBY	.65	.64	.64	.59	.64
		PDI-813-2	≤2.0 & > 0[1] in. wc	STBY	STBY	.28	.28	.27	.24	.28
		PDI-813-3	≤2.0 & > 0[1] in. wc	STBY	STBY	.25	.26	.28	.26	.25
		PDI-813-4	≤2.0 & > 0[1] in. wc	STBY	STBY	.29	.29	.29	.29	.29
		PDI-813-5	≤2.0 & > 0[1] in. wc	STBY	STBY	.21	.21	.21	.21	.21
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.04	.04	.04	.04	.03	.03	.04
		PDI-865-2	≤2.0 & > 0[1] in. wc	.33	.32	.34	.34	.35	.33	.33
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40	.39	.41	.42	.40	.40	.41
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.05	.05	.05	.05	.05	.05	.05
		PDI-863-2	≤2.0 & >0[1] in. wc	.42	.41	.40	.40	.40	.40	.40

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

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			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:	PT	JM	PT	JM	MM	JM	PT
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.12	.15	.15	.13	.11	.15	.15
		PDI-857-2	≤2.0 & > 0[1] in. wc	.46	.48	.48	.48	.47	.47	.48
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.06	.06	.05	.06
		PDI-856-2	≤2.0 & > 0[1] in. wc	.62	.62	.62	.62	.62	.63	.63
[1]**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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0900	0845	0843	0848	0809	0803	0810
			OC Operator Review and Page Count Complete (initials)	PD	PD	PD	PD	PD	PD	PD

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Paul Trujillo Date 1-13-13 Time 0810 Reviewed by: [signature] On-duty Supervisor Date: 1-14-13 Time: 1220

Comments: 1-8-13 4.1.1.7 oil leaky from flange/valve 100 cc in source Same as above 1-9-13

1-8-13 oil leak cleaned no contamination detected JM

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

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			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:	RH	PT	AM	PT	MM	[illegible]	[illegible]
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.16	.16	.16	.15	.16	.15	.15
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52	.52	.52	.52	.53	.53	.53
		PDI-840-3	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.52	.51	.51
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-841-2	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-841-3	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.30	.30
		PDI-831-2	≤2.0 & > 0[1] in. wc	.41	.41	.40	.41	.41	.40	.40
		PDI-831-3	≤2.0 & > 0[1] in. wc	.35	.36	.38	.38	.36	.36	.36
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.22	.22	.22	.22	.22	.22	.22
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.12	.12	.11	.12	.12	.12	.10
		PDI-807-2	≤2.0 & > 0[1] in. wc	.82	.82	.81	.82	.82	.82	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc	.50	.51	.51	.51	.50	.51	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	off	OFF	OFF	OFF	OFF	off	Off
		PDI-809-2	≤2.0 & > 0[1] in. wc	off	OFF	OFF	OFF	OFF	off	Off
		PDI-809-3	≤2.0 & > 0[1] in. wc	off	OFF	OFF	OFF	OFF	off	Off

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

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			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:	RH	PT	AL	PT	nm	MWT	MWT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.07	.07	.14	.11	.09	.09	.09
		PDI-829-2	≤2.0 & > 0[1] in. wc	.24	.25	40	.32	.30	.30	.30
		PDI-829-3	≤2.0 & > 0[1] in. wc	.22	.22	.38	.30	.29	.28	.28
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.84	.84	.84	.85	.84	.84	.84
		PDI-833-2	≤2.0 & > 0[1] in. wc	.47	.48	.45	.47	.47	.45	.45
		PDI-833-3	≤2.0 & > 0[1] in. wc	.46	.45	.45	.45	.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.12	.13	.13	.13	.13	.12	.12
		PDI-835-2	≤2.0 & > 0[1] in. wc	.43	.42	.45	.43	.44	.43	.43
		PDI-835-3	≤2.0 & > 0[1] in. wc	.41 ~~.46~~ RH 1/14/13	.41	.40	.41	.41	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	.18	.19	.18	.18	.18	.18	.18
		PDI-815-2	≤2.0 & > 0[1] in. wc	.41	.41	.30	.31	.40	.40	.40
		PDI-815-4	≤2.0 & > 0[1] in. wc	.36	.37	.35	.25	.32	.32	.32
		PDI-815-5	≤2.0 & > 0[1] in. wc	.39	.39	.39	.29	.38	.39	.38
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-816-2	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-816-4	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-816-5	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby

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

(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:	ZH	PT	[illegible]	PT	nm	[illegible]	[illegible]
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-812-2	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-812-3	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-812-4	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
		PDI-812-5	≤2.0 & > 0[1] in. wc	Stby	STBY	STBY	STBY	STBY	Stby	Stby
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.63	.58	.59	.59	.63	.63	.62
		PDI-813-2	≤2.0 & > 0[1] in. wc	.27	.28	.25	.25	.28	.25	.25
		PDI-813-3	≤2.0 & > 0[1] in. wc	.28	.28	.25	.25	.28	.25	.25
		PDI-813-4	≤2.0 & > 0[1] in. wc	.29	.29	.28	.28	.29	.29	.29
		PDI-813-5	≤2.0 & > 0[1] in. wc	.21	.21	.20	.20	.21	.21	.21
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03	.04	.04	.04	.03	.02	.02
		PDI-865-2	≤2.0 & > 0[1] in. wc	.35	.35	.35	.33	.33	.32	.33
		PDI-865-3	≤2.0 & > 0[1] in. wc	.41	.41	.41	.41	.40	.39	.39
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.05	.05	.05	.05	.05	.04	.04
		PDI-863-2	≤2.0 & >0[1] in. wc	.40	.40	.40	.40	.40	.40	.40

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

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			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:	RH	JT	gbc	PT	mm	mm	mm
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.15	.14	.12	.12	.12	.12	.12
		PDI-857-2	≤2.0 & > 0[1] in. wc	.47	.46	.45	.47	.47	.45	.45
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.06	.06	.06	.07	.06	.05	.05
		PDI-856-2	≤2.0 & > 0[1] in. wc	.66	.64	.65	.65	.65	.65	.65
[1]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	SAT	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	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0908	0859	0828	0835	0734	0945	0930
			OC Operator Review and Page Count Complete (initials)	BC	BC	BC	BC	BC	BC	BC

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: Michael H. Jaramillo Date 01/20/13 Time 0930 Reviewed by: Robert R. Dietz Date: 1-21-13 Time: 0720

On-duty Supervisor

Comments: _____

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

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			Date:	1/21/13	1-22-13	1-23-13	1-24-13	1-25-13	1-26-13	1-27-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		PT					
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.51	.16	.16	.16	.15	.16	.16
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52	.52	.52	.52	.52	.52	.52
		PDI-840-3	≤2.0 & > 0[1] in. wc	.16	.51	.51	.51	.52	.51	.51
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	~~STBY~~ OFF 1/21/13	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0[1] in. wc	~~STBY~~ OFF 1/21/13	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0[1] in. wc	~~STBY~~ OFF 1/21/13	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-831-2	≤2.0 & > 0[1] in. wc	.40	.41	.41	.40	.41	.41	.41
		PDI-831-3	≤2.0 & > 0[1] in. wc	.34	.35	.36	.35	.37	.37	.37
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.22	.23	.23	.23	.23	.23	.23
		PDI-832-2	≤2.0 & > 0[1] in. wc	.51	.51	.51	.51	.52	.51	.51
		PDI-832-3	≤2.0 & > 0[1] in. wc	.48	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80	.81	.81	.80	.80	.80	.80
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49	.49	.50	.50	.50	.50	.50
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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

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			Date:	1/21/13	1-22-13	1-23-13	1-24-13	1-25-13	1-26-13	1-27-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		PT					
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.08	.09	.06	.06	.07	.06	.06
		PDI-829-2	≤2.0 & > 0[1] in. wc	.29	.30	.21	.21	.22	.22	.22
		PDI-829-3	≤2.0 & > 0[1] in. wc	.22	.29	.20	.20	.21	.21	.21
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.85	.85	.85	.85	.85	.85	.85
		PDI-833-2	≤2.0 & > 0[1] in. wc	.45	.45	.46	.46	.47	.46	.46
		PDI-833-3	≤2.0 & > 0[1] in. wc	.43	.45	.45	.45	.45	.45	.45
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.12	.12	.13	.12	.13	.13	.13
		PDI-835-2	≤2.0 & > 0[1] in. wc	.44	.44	.44	.44	.43	.43	.43
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40	.41	.41	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	.16	.19	.16	.19	.20	.19	.19
		PDI-815-2	≤2.0 & > 0[1] in. wc	.38	.39	.40	.40	.40	.40	.40
		PDI-815-4	≤2.0 & > 0[1] in. wc	.33	.33	.34	.34	.35	.34	.34
		PDI-815-5	≤2.0 & > 0[1] in. wc	.37	.38	.38	.38	.39	.39	.38
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 3 of 4)

			Date:	1/21/13	1-22-13	1-23-13	1-24-13	1-25-13	1-26-13	1-27-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		PT					
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0[1] in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.64	.64	.64	.64	.60	.64	.64
		PDI-813-2	≤2.0 & > 0[1] in. wc	.25	.25	.26	.26	.26	.26	.26
		PDI-813-3	≤2.0 & > 0[1] in. wc	.25	.25	.23	.25	.26	.25	.25
		PDI-813-4	≤2.0 & > 0[1] in. wc	.28	.29	.29	.29	.29	.29	.29
		PDI-813-5	≤2.0 & > 0[1] in. wc	.21	.20	.21	.20	.20	.20	.20
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.02	.03	.03	.03	.03	.03	.03
		PDI-865-2	≤2.0 & > 0[1] in. wc	.32	.32	.32	.32	.32	.32	.32
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40	.40	.39	.40	.40	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.05	.05	.05	.05	.05	.05	.05
		PDI-863-2	≤2.0 & >0[1] in. wc	.41	.41	.41	.41	.41	.41	.41

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

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			Date:	1/21/13	1-22-13	1-23-13	1-24-13	1-25-13	1-26-13	1-27-13
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		PT					
SRs	**Description**	**Gauge**	**Acccptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.14	.13	.14	.14	.15	.13	.13
		PDI-857-2	≤2.0 & > 0[1] in. wc	.45	.46	.47	.46	.46	.47	.47
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.07	.07	.07	.07	.07	.07	.07
		PDI-856-2	≤2.0 & > 0[1] in. wc	.56	.65	.65	.65	.67	.65	.65
[1]NA	**Combustible exclusion area around basemcnt 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, & 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	SAT	SAT	SAT
			Completion time	0820	0804	1355	0823	0807	0740	0836
			OC Operator Review and Page Count Complete (initials)							

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: _____ Date 1/21/13 Time 0836 Reviewed by: _____ Date: 1-28-13 Time: 1257

On-duty Supervisor

Comments: _____

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

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			Date:	1-28-13						
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	MM						
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc	.76						
		PDI-840-2	≤2.0 & > 0 in[1]. wc	.52						
		PDI-840-3	≤2.0 & > 0[1] in. wc	.51						
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc	STBY						
		PDI-841-2	≤2.0 & > 0[1] in. wc	STBY						
		PDI-841-3	≤2.0 & > 0[1] in. wc	STBY						
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc	.31						
		PDI-831-2	≤2.0 & > 0[1] in. wc	.40						
		PDI-831-3	≤2.0 & > 0[1] in. wc	.36						
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc	.22						
		PDI-832-2	≤2.0 & > 0[1] in. wc	.52						
		PDI-832-3	≤2.0 & > 0[1] in. wc	.49						
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc	.11						
		PDI-807-2	≤2.0 & > 0[1] in. wc	.80						
		PDI-807-3	≤2.0 & > 0[1] in. wc	.49						
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc	OFF						
		PDI-809-2	≤2.0 & > 0[1] in. wc	OFF						
		PDI-809-3	≤2.0 & > 0[1] in. wc	OFF						

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

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			Date:	1-28-13						
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	MM						
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc	.26						
		PDI-829-2	≤2.0 & > 0[1] in. wc	.22						
		PDI-829-3	≤2.0 & > 0[1] in. wc	.21						
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc	.85						
		PDI-833-2	≤2.0 & > 0[1] in. wc	.46						
		PDI-833-3	≤2.0 & > 0[1] in. wc	.45						
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc	.12						
		PDI-835-2	≤2.0 & > 0[1] in. wc	.13						
		PDI-835-3	≤2.0 & > 0[1] in. wc	.40						
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc	.14						
		PDI-815-2	≤2.0 & > 0[1] in. wc	.39						
		PDI-815-4	≤2.0 & > 0[1] in. wc	.32						
		PDI-815-5	≤2.0 & > 0[1] in. wc	.38						
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc	STBY						
		PDI-816-2	≤2.0 & > 0[1] in. wc	STBY						
		PDI-816-4	≤2.0 & > 0[1] in. wc	STBY						
		PDI-816-5	≤2.0 & > 0[1] in. wc	STBY						

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

(Page 3 of 4)

			Date:	1-28-13						
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	mm						
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS (in. wc)**						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc	STBY						
		PDI-812-2	≤2.0 & > 0[1] in. wc	STBY						
		PDI-812-3	≤2.0 & > 0[1] in. wc	STBY						
		PDI-812-4	≤2.0 & > 0[1] in. wc	STBY						
		PDI-812-5	≤2.0 & > 0[1] in. wc	STBY						
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc	.63						
		PDI-813-2	≤2.0 & > 0[1] in. wc	.27						
		PDI-813-3	≤2.0 & > 0[1] in. wc	.25						
		PDI-813-4	≤2.0 & > 0[1] in. wc	.29						
		PDI-813-5	≤2.0 & > 0[1] in. wc	.20						
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc	.03						
		PDI-865-2	≤2.0 & > 0[1] in. wc	.62 3 mm 28-13						
		PDI-865-3	≤2.0 & > 0[1] in. wc	.40						
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc	.05						
		PDI-863-2	≤2.0 & >0[1] in. wc	.40						

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

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			Date:	1-28-13						
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm						
SRs	**Description**	**Gauge**	**Acceptance Criteria**	**SURVEILLANCE RESULTS**						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc	.11						
		PDI-857-2	≤2.0 & > 0[1] in. wc	.45						
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc	.06						
		PDI-856-2	≤2.0 & > 0[1] in. wc	.62						
[1]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						
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						
			Completion time	0756						
			OC Operator Review and Page Count Complete (initials)	EC						

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: [signature] Date 1-28-13 Time 0756 Reviewed by: [signature] Date 2-5-13 Time: 0805

On-duty Supervisor

Comments: _____

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

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			Date:	~~1-29-13~~ ~~1-29-13~~	1-29-13	1-30-13	1-31-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	1-29-13 nm ~~nm~~	nm	[illegible]	[illegible]			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	[1]PDI-840-1	≤2.0 & > 0[1] in. wc		.16	.16	.16			
		PDI-840-2	≤2.0 & > 0 in[1]. wc		.52	.52	.52			
		PDI-840-3	≤2.0 & > 0[1] in. wc		.52	.51	.51			
	Vault re-circulation filter plenum (HVP-812) ΔP	[1]PDI-841-1	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
		PDI-841-2	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
		PDI-841-3	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
	200 area re-circulation filter plenum (HVP-801) ΔP	[1]PDI-831-1	≤2.0 & > 0[1] in. wc		.31	.31	.31			
		PDI-831-2	≤2.0 & > 0[1] in. wc		.40	.40	.40			
		PDI-831-3	≤2.0 & > 0[1] in. wc		.36	.35	.35			
	200 area re-circulation filter plenum (HVP-802) ΔP	[1]PDI-832-1	≤2.0 & > 0[1] in. wc		.22	.22	.22			
		PDI-832-2	≤2.0 & > 0[1] in. wc		.51	.51	.51			
		PDI-832-3	≤2.0 & > 0[1] in. wc		.49	.49	.49			
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	[1]PDI-807-1	≤2.0 & > 0[1] in. wc		.11	.11	1-31-13 OFF			
		PDI-807-2	≤2.0 & > 0[1] in. wc		.80	.80	1-31-13 OFF			
		PDI-807-3	≤2.0 & > 0[1] in. wc		.50	.50	1-31-13 OFF			
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	[1]PDI-809-1	≤2.0 & > 0[1] in. wc		OFF	off	.05			
		PDI-809-2	≤2.0 & > 0[1] in. wc		OFF	off	.61			
		PDI-809-3	≤2.0 & > 0[1] in. wc		OFF	off	.48			

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

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			Date:		1-29-13	1-30-13	1-31-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		nm	[illegible]	[illegible]			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	[1]PDI-829-1	≤2.0 & > 0[1] in. wc		.06	.07	.06			
		PDI-829-2	≤2.0 & > 0[1] in. wc		.22	.28	.22			
		PDI-829-3	≤2.0 & > 0[1] in. wc		.21	.22	.21			
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	[1]PDI-833-1	≤2.0 & > 0[1] in. wc		.85	.85	.85			
		PDI-833-2	≤2.0 & > 0[1] in. wc		.46	.46	.46			
		PDI-833-3	≤2.0 & > 0[1] in. wc		.45	.45	.45			
	100 area re-circulation filter plenum (HVP-804) ΔP	[1]PDI-835-1	≤2.0 & > 0[1] in. wc		.12	.12	.12			
		PDI-835-2	≤2.0 & > 0[1] in. wc		.42	.42	.42			
		PDI-835-3	≤2.0 & > 0[1] in. wc		.40	.40	.40			
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	[1]PDI-815-1	≤2.0 & > 0[1] in. wc		.19	.19	.19			
		PDI-815-2	≤2.0 & > 0[1] in. wc		.39	.40	.39			
		PDI-815-4	≤2.0 & > 0[1] in. wc		.32	.32	.32			
		PDI-815-5	≤2.0 & > 0[1] in. wc		.38	.38	.38			
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	[1]PDI-816-1	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
		PDI-816-2	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
		PDI-816-4	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
		PDI-816-5	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			

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

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			Date:		1-29-13	1-30-13	1-31-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		mm	[illegible]	[illegible]			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	[1]PDI-812-1	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
		PDI-812-2	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
		PDI-812-3	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
		PDI-812-4	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
		PDI-812-5	≤2.0 & > 0[1] in. wc		STBY	STBY	STBY			
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	[1]PDI-813-1	≤2.0 & > 0[1] in. wc		.63	.62	.62			
		PDI-813-2	≤2.0 & > 0[1] in. wc		.27	.28	.28			
		PDI-813-3	≤2.0 & > 0[1] in. wc		.25	.27	.25			
		PDI-813-4	≤2.0 & > 0[1] in. wc		.29	.29	.29			
		PDI-813-5	≤2.0 & > 0[1] in. wc		.20	.20	.21			
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	[1]PDI-865-1	≤2.0 & > 0[1] in. wc		.03	.04	.04			
		PDI-865-2	≤2.0 & > 0[1] in. wc		.32	.32	.32			
		PDI-865-3	≤2.0 & > 0[1] in. wc		.40	.40	.41			
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	[1]PDI-863-1	≤2.0 & > 0[1] in. wc		.05	.05	.05			
		PDI-863-2	≤2.0 & >0[1] in. wc		.40	.40	.40			

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

(Page 4 of 4)

			Date:		1-29-13	1-30-13	1-31-13			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:		mm	[illegible]	[illegible]			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	[1]PDI-857-1	≤ 2.0 & > 0[1] in. wc		.12	.13	.12			
		PDI-857-2	≤2.0 & > 0[1] in. wc		.45	.47	.47			
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	[1]PDI-856-1	≤2.0 & > 0[1] in. wc		.07	.06	.06			
		PDI-856-2	≤2.0 & > 0[1] in. wc		.62	.62	.62			
[1]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			
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			
			Completion time		0746	0810	0850			
			OC Operator Review and Page Count Complete (initials)		[illegible]	[illegible]	[illegible]			

[1] **Non TSR requirement**

Note: SR 4.1.3.4 applies during mode 1 and mode 2.

Completed by: [illegible] Date 1/31/13 Time 0856 Reviewed by: [illegible] Date 2-5-13 Time: 0818

On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature

Daily (September through April only)		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:		RH	TH	TH	TH	RH	RH
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 /UNSAT	SAT /UNSAT	SAT /UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F		47.0	48.4	48.5	46.9	48.2	47.0
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F		46.0	46.7	44.8	45.9	45.3	46.5
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F		60.3	57.9	59.3	56.5	59.0	60.7
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F		62.5	61.4	60.5	59.9	61.6	63.2
		Completion Time:		0920	0805	0820	0845	0845	0834
	OC Operator Review and Page Count Complete (initials)			RB			RB	RB	RB

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: [signature] Date 1/6/13 Time 0839

Reviewed by: [signature] Date: 1-7-13 Time: 1346
On-duty Supervisor

Comments:

LA-UR-13-25881

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data							
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373	
	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	5/30/13	Calibration Expiration Date:	8/13/13	
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744	
	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	8/13/13	Calibration Expiration Date:	8/13/13	

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		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:	RH	RH	rh	rm	rh	h	a
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 UNSAT	SAT UNSAT	SAT UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	48.9	47.4	49.3	48.1	47.1	46.9	47.6
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	45.6	46.0	46.8	45.5	46.9	47.5	45.5
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	62.4	61.1	61.9	61.9	63.0	56.8	55.5
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	62.0	61.1	62.7	63.3	61.5	61.1	59.8
		Completion Time:	0904	0900	0906	0830	0805	0845	0935
	OC Operator Review and Page Count Complete (initials)		DAO a	DAO	DAO	RB	a		a

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: _____ Date 1-13-13 Time 0935

Reviewed by: _____ Date: 1-14-13 Time: 1221
On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5-30-13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8-13-13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	1-14-13	1-15-13	1-16-13	1-17-13	1-18-13	1/19/13	1/20/13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[illegible]	RH	RH	RH	[illegible]	[illegible]	[illegible]
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	48.6	49.2	47.2	48.9	47.9	47.6	48.1
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	46.5	46.2	45.7	45.6	46.9	46.2	45.7
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	57.1	57.7	58.7	61.6	62.1	61.7	62.4
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	60.9	60.1	59.6	61.5	63.3	63.5	64.9
		Completion Time:	0856	1034	0912	0853	0820	0909	0848
OC Operator Review and Page Count Complete (initials)			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: [illegible] Date 1/20/13 Time 0852

Reviewed by: [illegible] Date: 1-21-13 Time: 0720
On-duty Supervisor

Comments:

LA-UR-13-25881

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5·14·13	Calibration Expiration Date:	5·30·13	Calibration Expiration Date:	8·13·13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5·14·13	Calibration Expiration Date:	8·13·13	Calibration Expiration Date:	8·13·13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	1·21·13	1-22-13	1-23-13	1/24/13	1-25-13	1·26·13	1·27·13
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[illegible]	RH	[illegible]	RH	[illegible]	[illegible]	[illegible]
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)/UNSAT	(SAT)/UNSAT	(SAT)/UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	47.1	49.4	48.5	48.2	48.1	47.7	47.4
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	45.5	47.3	46.9	47.3	46.8	46.6	45.9
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	61.9	63.1	63.1	64.0	64.2	64.5	63.7
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	63.5	65.2	64.9	65.3	66.5	66.4	66.1
		Completion Time:	0900	0836	0908	0821	0826	0820	0830
OC Operator Review and Page Count Complete (initials)			[illegible]	[illegible]	DDD BC	DDD BC	[illegible]	[illegible]	[illegible]

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: [signature] Date 1·27·13 Time 0845

Reviewed by: [signature] Date: 1-28-13 Time: 1301
On-duty Supervisor

Comments:

LA-UR-13-25881

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	5/30/13	Calibration Expiration Date:	8-13-13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	5-14-13	Calibration Expiration Date:	8/13/13	Calibration Expiration Date:	8-13-13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	1/28/13						
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	RH						
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 /UNSAT	SAT /UNSAT	SAT /UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	48.5						
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	45.4						
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F	63.8						
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F	64.2						
		Completion Time:	0922						
		OC Operator Review and Page Count Complete (initials)	BC						

[1] Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: _____ Date 1/28/13 Time 0922

Reviewed by: _____ Date: 2-5-13 Time: 0805
On-duty Supervisor

Comments: _____

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039745	PF-10 Thermistor File No.:	042254	V-701 Thermistor File No.:	040373
	Calibration Expiration Date:	5/14/13	Calibration Expiration Date:	5/30/13	Calibration Expiration Date:	8/13/13
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	039744
	Calibration Expiration Date:	3/14/13	Calibration Expiration Date:	8/13/13	Calibration Expiration Date:	8/13/13

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:		1/29/13	1/30/13	1/31/13			
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		RH	RH	RH			
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 /UNSAT	SAT /UNSAT	SAT /UNSAT
4.3.1.1[1]	RECORD fire water storage tank V-701 temperature	≥ 42.1 F		47.1	46.3	46.3			
4.3.1.1[1]	RECORD fire water storage tank V-704 temperature	≥ 42.1 F		47.4	45.3	47.5			
4.3.1.3[1]	RECORD PF-10 room temperature	≥ 50.1 F		51.9	49.2	57.2			
4.3.1.3[1]	RECORD PF-11 room temperature	≥ 50.1 F		58.4	56.5	61.2			
		Completion Time:		0906	0901	0912			
		OC Operator Review and Page Count Complete (initials)							

1 Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: _____ Date 1/31/13 Time 0919

Reviewed by: _____ Date: 1-31 2-5-13 Time: 0820
On-duty Supervisor

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).	(Sat.) / Unsat.	0918	1-16-13	[illegible]
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. (OOS)	(OOS)	(OOS)	(OOS)
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.	0851	1/16/13	[illegible]
			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. 5 Seconds	(Sat.) / Unsat.	0857	1/16/13	[illegible]

ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors)

(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	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.	0856	1-16-13	[illegible]
			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	(Sat.) / Unsat.	0856	1-16-13	[illegible]
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	(Sat.) / Unsat.	0907	1-16-13	PT
4.1.3.2	Confinement Door DR-90	South Basement Door (Tunnel)	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.	0901	1-16-13	PT
					OC Operator Review and Page Count Complete		[illegible]

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: [signature] Date 1-16-13 Time 0920 Reviewed by: CTasch Date: 1/17/13 Time: 1130

On-duty Supervisor Comments: CONFINMENT DOOR DE-149 NE OUT OF SERVICE, Temp Mod to DSA.

ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)

(Page 1 of 2)

SR	Description		Acceptance Criteria	Sat. / Unsat.	Completion Time:	Date:	Initials:
	Channel #	Location					
4.2.1.1	1	Rm. 201	> 1 mR/hr	(Sat.) / Unsat.	0624	01·01·13	BC
	2	Rm. 106	> 1 mR/hr	(Sat.) / Unsat.	0624	01·01·13	BC
	3	Rm. 305	> 1 mR/hr	(Sat.) / Unsat.	0624	01·01·13	BC
	4	Rm. 401	> 1 mR/hr	(Sat.) / Unsat.	0624	01·01·13	BC
	5	Rm. 206	> 1 mR/hr	(Sat.) / Unsat.	0624	01·01·13	BC
	6	Rm. 114	> 1 mR/hr	(Sat.) / Unsat.	0624	01·01·13	BC
	7	Rm. 319 W	> 1 mR/hr	(Sat.) / Unsat.	0625	01·01·13	BC
	8	Rm. 409	> 1 mR/hr	(Sat.) / Unsat.	0625	01·01·13	BC
	9	Rm. 208	> 1 mR/hr	(Sat.) / Unsat.	0625	01·01·13	BC
	10	Rm. 124	> 1 mR/hr	(Sat.) / Unsat.	0625	01·01·13	BC
	11	Rm. 319 E	> 1 mR/hr	(Sat.) / Unsat.	0625	01·01·13	BC
	12	Rm. 420	> 1 mR/hr	(Sat.) / Unsat.	0625	01·01·13	BC
	13	Rm. 209	> 1 mR/hr	(Sat.) / Unsat.	0625	01·01·13	BC
	14	Rm. 126	> 1 mR/hr	(Sat.) / Unsat.	0625	01·01·13	BC
	15	Rm. 327	> 1 mR/hr	(Sat.) / Unsat.	0626	01·01·13	BC
	16	Rm. 429	> 1 mR/hr	(Sat.) / Unsat.	0626	01·01·13	BC
	17	Vault 17	> 1 mR/hr	(Sat.) / Unsat.	0626	01·01·13	BC
4.2.2.1	18	Vault 18	> 1 mR/hr	(Sat.) / Unsat.	0626	01·01·13	BC
	19	Vault 19	> 1 mR/hr	(Sat.) / Unsat.	0626	01·01·13	BC
	20	Vault 20	> 1 mR/hr	(Sat.) / Unsat.	0626	01·01·13	BC

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

LA-UR-13-25881

ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center)

(Page 2 of 2)

Completed by: _____ Date 01-01-13 Time 0626 Reviewed by: _____ Date: 1-2-13 Time: 0855
On-duty Supervisor

Comments:

LA-UR-13-25881

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

TABLE OF CONTENTS

EXHIBITS

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

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.

(c) 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 mono- di- and poly-sulfides. The Gas shall also meet the following individual specifications for hydrogen sulfide (H_2S) 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_2).

(e) Shall not contain in excess of 0.2-mol% of Oxygen (O_2). 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.

(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.

(j) 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

LOS ALAMOS NATIONAL LABORATORY (LANL)
VISIBLE EMISSION OBSERVATION FORM (10 MINUTE)

Source Name: TA55 RLWOB Boiler #3 North

Source Location: TA55 RLWOB, LANL

Type of Source: Boiler - Fuel Oil

Type of Control Equipment: None

Describe Emission Point (Top of stack, etc.): Top of Stack

Height Above Ground Level: 45 Feet

Height Relative to Observer: 15' Feet

Distance From Observer: 45 Feet

Direction of Source From Observer: North

Description of Plume (stack exit only)
☐Lofting ☐Trapping ☐Looping ☐Fanning ☐Coning
☒No Plume Present

Emission Color: Gray

Plume Type: ☒No Plume Present ☐Continuous ☐Fugitive ☐Intermittent

Water Droplets Present?
☒NO ☐YES If YES, droplet plume is ☐Attached ☐Detached

At what point in the plume was opacity determined? Top of Stack

Describe Background (i.e. blue sky, trees, etc.): Blue/Gray Sky

Background Color: Blue/Light Gray

Sky Conditions: Partly Cloudy

Wind Speed: 3-5 mph

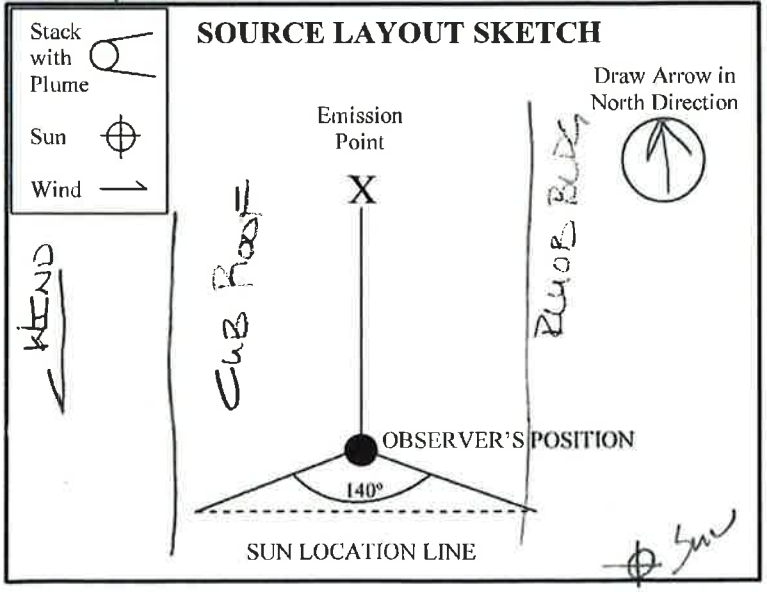
Wind Direction (provide from/to, i.e. from North to South): N to S

Ambient Temperature: 39 °F

Relative Humidity: 29 %

Additional Comments/Information:
Fuel oil meter = 0.0 gal start
High flame
BNH-03

SOURCE LAYOUT SKETCH



Observation Date	Start Time	End Time
1/9/13	1350	1402

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Average 10-Minute Opacity: 0 %

Range of Opacity Readings: Min. 0 Max. 0

OBSERVER (please print)
Name: Randy Johnson Title: ENV Tech

Signature: RJohnson Date: 1/9/13

Observer Organization: LANS

Certified by: ETA Certification Date: 8/29/12

Los Alamos NATIONAL LABORATORY

LOS ALAMOS NATIONAL LABORATORY (LANL)
VISIBLE EMISSION OBSERVATION FORM (10 MINUTE)

Source Name: RLWOB Boiler # 1 South

Source Location: TA55 - RLWOB, LANL

Type of Source: Boiler - Fuel Oil

Type of Control Equipment: NONE

Describe Emission Point (Top of stack, etc.): Top of Stack

Height Above Ground Level: 45 Feet

Height Relative to Observer: 15 Feet

Distance From Observer: 60 Feet

Direction of Source From Observer: N

Description of Plume (stack exit only)
☐Lofting ☐Trapping ☐Looping ☐Fanning ☐Coning
☒No Plume Present

Emission Color: NA

Plume Type: ☒No Plume Present ☐Continuous ☐Fugitive ☐Intermittent

Water Droplets Present?
☒NO ☐YES If YES, droplet plume is ☐Attached ☐Detached

At what point in the plume was opacity determined? Top of Stack

Describe Background (i.e. blue sky, trees, etc.): Blue/Cloudy Sky

Background Color: light Grey

Sky Conditions: Partly Cloudy

Wind Speed: 5-5 mph

Wind Direction (provide from/to, i.e. from North to South): N to S

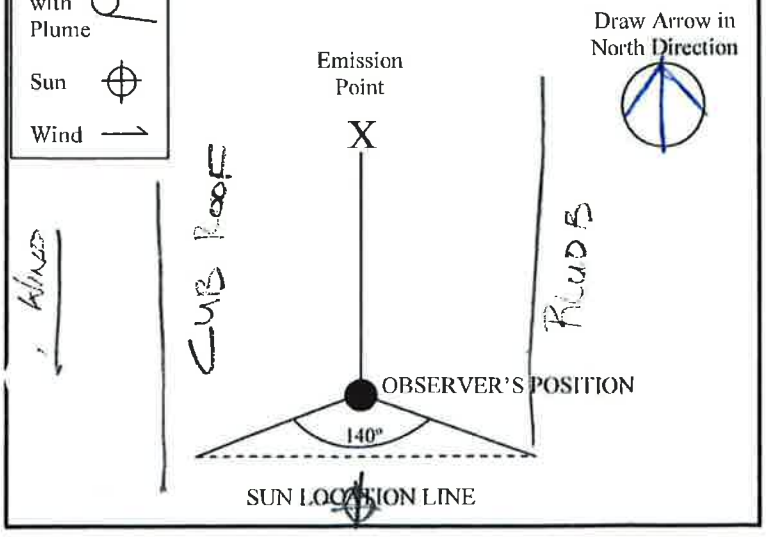
Ambient Temperature: 39 °F

Relative Humidity: 29 %

Additional Comments/Information: Smoke
AST = 3619 Gallon
3572 Gall (1/7/13)
BWH-01 High Flame

SOURCE LAYOUT SKETCH

Stack with Plume
Sun
Wind



Observation Date	Start Time	End Time
1/9/13	1500	1513

Min \ Sec	0	15	30	45	Comments
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Average 10-Minute Opacity: 0 %

Range of Opacity Readings: Min. 0 Max. 0

OBSERVER (please print)
Name: Randy Johnson Title: ENV Pro

Signature: R Johnson Date: 1/9/13

Observer Organization: LANS

Certified by: ETA Certification Date: 8/29/12

Los Alamos NATIONAL LABORATORY

LOS ALAMOS NATIONAL LABORATORY (LANL)
VISIBLE EMISSION OBSERVATION FORM (10 MINUTE)

Source Name: RLWOB Boiler #2 CENTER

Source Location: TA55 - RLWOB, LANL

Type of Source: Boiler - Fuel oil

Type of Control Equipment: NONE

Describe Emission Point (Top of stack, etc.): Top of Stack

Height Above Ground Level: 45 Feet

Height Relative to Observer: 15 Feet

Distance From Observer: 45 Feet

Direction of Source From Observer: North

Description of Plume (stack exit only)
☐Lofting ☐Trapping ☐Looping ☐Fanning ☐Coning
☒No Plume Present

Emission Color: NA

Plume Type ☒No Plume Present ☐Continuous ☐Fugitive ☐Intermittent

Water Droplets Present?
☒NO ☐YES If YES, droplet plume is ☐Attached ☐Detached

At what point in the plume was opacity determined? Top of Stack

Describe Background (i.e. blue sky, trees, etc.): Clouds - Cloudy

Background Color: Gray

Sky Conditions: Overcast

Wind Speed: 0 mph

Wind Direction (provide from/to, i.e. from North to South): NA

Ambient Temperature: 32 °F

Relative Humidity: 31 %

Additional Comments/Information: High Humidity

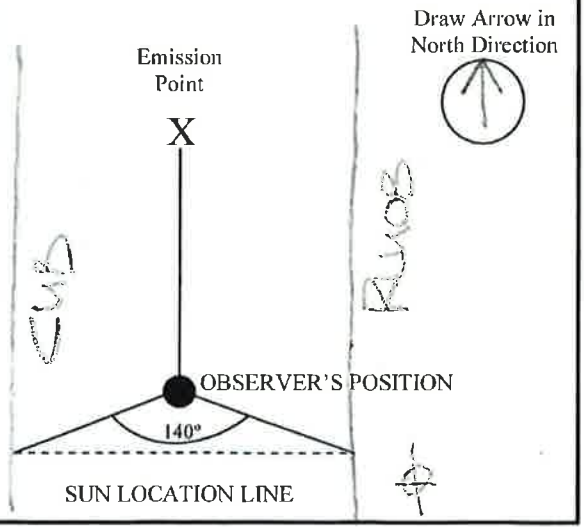
BWH-02

Stack with Plume

Sun

Wind

SOURCE LAYOUT SKETCH



Observation Date	Start Time	End Time
1/10/13	1010	1022

Min \ Sec	0	15	30	45	Comments
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Average 10-Minute Opacity: 0 %

Range of Opacity Readings Min. 0 Max. 0

OBSERVER (please print) Name: Randy Johnson Title: ENV Pro

Signature: R Johnson Date: 1/10/13

Observer Organization: LANS

Certified by: EJA Certification Date: 8/29/12