



***Environment Safety & Health***

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*Date:* **AUG 09 2016**  
*Symbol:* ADESH-16-107  
*LAUR:* 16-25832  
*Locates Action No.:* N/A

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

Dear Mr. Gruebel:

**Subject: Semi-Annual Monitoring Report for January 1–June 30, 2016 Air Quality Title V Operating Permit P100-R2 AI No. 856 – Los Alamos National Laboratory (LANL)**

Enclosed is Los Alamos National Laboratory's Semi-Annual Monitoring Report for 2016H1 covering the time period January 1–June 30, 2016. This submission is required by permit condition A109.A. of the Title V Operating Permit P100-R2 and is submitted within 45 days following June 30, 2016, the end of the six month reporting period.

The LANL Air Quality Compliance team obtained approval from Ms. Renae Held, Compliance Reporting Manager at the New Mexico Environment Department, Air Quality Bureau, to submit attachments to this report in E-files only without paper copies. This approval has resulted in preventing about 2,000 pages from being printed.

This semi-annual monitoring report includes:

1. Printed copies of:
  - Reporting Submittal Form (Signed Original)
  - Cover letter (Signed original)
  - Title V Report Certification Form (Signed original)
  - Title V Semi-Annual Monitoring Report for Permit P100-R2
    - Part 1 – Monitoring Activity Reporting Requirements
    - Part 2 – Deviation Summary Report
2. E-files of the complete monitoring report with:
  - Reporting Submittal Form
  - Cover Letter
  - Title V Report Certification Form

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- Title V Semi-Annual Monitoring Report for Permit P100-R2
  - Part 1 – Monitoring Activity Reporting Requirements
  - Part 2 – Deviation Summary Report
- Monitoring Report Attachments A113 through A1307.H.

One permit deviation occurred during this reporting period for applicable requirements A607.C and A607.G. The monthly opacity measurements, using EPA Method 9 and Method 22, were not conducted at the asphalt plant in January 2016, because the plant operated less than 2 hours for the month, and then ran out of asphalt oil. The asphalt oil delivery was not received until February 2, 2016. Corrective actions were taken to address this deviation and to prevent future deviations of the applicable requirements. An extra opacity measurement was performed in February 2016 to compensate for the lack of measurement in January 2016. A training refresher was conducted to retrain all involved parties of the opacity measurement requirements. To ensure that the monthly opacity measurements are not missed in the future, the opacity reader will perform the monthly opacity readings the very first day the plant operates each month.

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

Sincerely,



Michael T. Brandt, DrPH, CIH  
Associate Director  
Environment, Safety, and Health  
Los Alamos National Security, LLC  
Los Alamos National Laboratory

MTB:SLS:BR/lm

Enclosure: (1) LANL Title V Semi-Annual Monitoring Report for P100-R2, January 1–June 30, 2016

Cy: Hai Shen, EM-SG, (E-File)  
Richard Kacich, DIR, (E-File)  
Karen Armijo, NA-LA, (E-File)  
Adrienne Nash, NA-LA, (E-File)  
Kirsten Laskey, EM-LA (E-File)  
Annette Russell, EM-LA, (E-File)  
Craig S. Leasure, PADOPS, (E-File)  
William R. Mairson, PADOPS (E-File)  
Michael T. Brandt, ADESH, (E-File)  
Raeanna R. Sharp-Geiger, ADESH, (E-File)  
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Cy (continued):

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**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					
<b>A. ® Company Name:</b> Los Alamos National Security, LLC			<b>D. ® Facility Name:</b> Los Alamos National Laboratory		
<b>B.1 ® Company Address:</b> P.O Box 1663 MS J978			<b>E.1 ® Facility Address:</b> Same as Company		
<b>B.2 ® City:</b> Los Alamos	<b>B.3 ® State:</b> NM	<b>B.4 ® Zip:</b> 87545	<b>E.2 ® City:</b>	<b>E.3 ® State:</b>	<b>E.4 ® Zip:</b>
<b>C.1 ® Company Environmental Contact:</b> Anthony R. Grieggs		<b>C.2 ® Title:</b> EPC-CP Group Leader		<b>F.2 ® Title:</b> Air Quality Compliance Team Leader	
<b>C.3 ® Phone Number:</b> (505) 665-0451		<b>C.4 ® Fax Number:</b> (505) 665-8858		<b>F.3 ® Phone Number:</b> (505) 665-2169	
<b>C.5 ® Email Address:</b> grieggst@lanl.gov			<b>F.4 ® Fax Number:</b> (505) 665-8858		
<b>G. Responsible Official: (Title V only):</b> Michael T. Brandt		<b>H. Title:</b> Associate Director for ESH		<b>F.5 ® Email Address:</b> story@lanl.gov	
<b>K. ® AI Number:</b> 856		<b>L. Title V Permit Number:</b> P100-R2		<b>I. Phone Number:</b> (505) 667-4218	
		<b>M. Title V Permit Issue Date:</b> 02/27/2015		<b>J. Fax Number:</b> (505) 665-3811	
				<b>N. NSR Permit Number:</b> 2195	
				<b>O. NSR Permit Issue Date:</b> Various	
<b>P. Reporting Period:</b> From: January 1, 2016 To: June 30, 2016					

SECTION II - TYPE OF SUBMITTAL (check one that applies)			
<b>A.</b> <input type="checkbox"/>	<b>Title V Annual Compliance Certification</b>	<b>Permit Condition(s):</b>	<b>Description:</b>
<b>B.</b> <input checked="" type="checkbox"/>	<b>Title V Semi-annual Monitoring Report</b>	<b>Permit Condition(s):</b> A109.A	<b>Description:</b> LANL Semi-Annual Monitoring Report for January 1-June 30, 2016
<b>C.</b> <input type="checkbox"/>	<b>NSPS Requirement (40CFR60)</b>	<b>Regulation:</b>	<b>Section(s):</b> <b>Description:</b>
<b>D.</b> <input type="checkbox"/>	<b>MACT Requirement (40CFR63)</b>	<b>Regulation:</b>	<b>Section(s):</b> <b>Description:</b>
<b>E.</b> <input type="checkbox"/>	<b>NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)</b>	<b>Regulation:</b>	<b>Section(s):</b> <b>Description:</b>
<b>F.</b> <input type="checkbox"/>	<b>Permit or Notice of Intent (NOI) Requirement</b>	<b>Permit No. <input type="checkbox"/>: or NOI No. <input type="checkbox"/>:</b>	<b>Condition(s):</b> <b>Description:</b>
<b>G.</b> <input type="checkbox"/>	<b>Requirement of an Enforcement Action</b>	<b>NOV No. <input type="checkbox"/>: or SFO No. <input type="checkbox"/>: or CD No. <input type="checkbox"/>: or Other <input type="checkbox"/>:</b>	<b>Section(s):</b> <b>Description:</b>

SECTION IV - CERTIFICATION			
After reasonable inquiry, I <u>Michael T. Brandt</u> certify that the information in this submittal is true, accurate and complete. <small>(name of reporting official)</small>			
<b>® Signature of Reporting Official:</b> 	<b>® Title:</b> Associate Director for ESH	<b>® Date:</b> 8/9/16	<b>® Responsible Official for Title V?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Reviewed By: \_\_\_\_\_

Date Reviewed: \_\_\_\_\_

# **ENCLOSURE 1**

LANL Title V Semi-Annual Monitoring Report for  
P100-R2, January 1–June 30, 2016

ADESH-16-107

LA-UR-16-25832

Date:                     AUG 0 9 2016

# 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](mailto:mtbrandt@lanl.gov)

Permit No.: P100-R2

Date Permit Issued: February 27, 2015

Report Due Date (as required by the permit): 08/14/2016

Permit AI number: 856

Time period covered by this Report: From: January 1, 2016

To: June 30, 2016

## 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.AE 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:

8/9/16

# **Title V Semi - Annual Monitoring Report for Permit [P100R2](#)**

## **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.AE 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)

Stack Test Protocols and Stack Test Reports shall be submitted electronically to [Stacktest.AQB@state.nm.us](mailto:Stacktest.AQB@state.nm.us) or as directed by the Department.

Excess Emission Reports shall be submitted as directed by the Department. (20.2.7.110 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 the mailing address below, or as directed by the Department:

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 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 and any applicable requirements that become effective during the term 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. Unless otherwise indicated by Specific Conditions, the permittee shall keep the following records for malfunction emissions and routine and predictable emissions during startup, shutdown, and scheduled maintenance (SSM):

(1) The owner or operator of a source subject to a permit, shall establish and implement a plan to minimize emissions during routine or predictable startup, shutdown, and scheduled maintenance through work practice standards and good air pollution control practices. This requirement shall not apply to any affected facility defined in and subject to an emissions standard and an equivalent plan under 40 CFR Part 60 (NSPS), 40 CFR Part 63 (MACT), or an equivalent plan under 20.2.72 NMAC - Construction Permits, 20.2.70 NMAC - Operating Permits, 20.2.74 NMAC - Permits - Prevention of Significant Deterioration (PSD), or 20.2.79 NMAC - Permits - Nonattainment Areas. (20.2.7.14.A NMAC) The permittee shall keep records of all sources subject to the plan to minimize emissions during routine or predictable SSM and shall record if the source is subject to an alternative plan and therefore, not subject to the plan requirements under 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, a description of the event, and a description of the cause 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. The permittee shall also include the date, the start time, the end time, and a description of the event. Malfunction means any sudden and unavoidable failure of air pollution control equipment or process equipment beyond the control of the owner or operator, including malfunction during startup or shutdown. A failure that is caused entirely or in part by poor maintenance, careless operation, or any other preventable equipment breakdown shall not be considered a malfunction. (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 malfunction emission limit. (4) The owner or operator of a source shall meet the operational plan defining the measures to be taken to mitigate source emissions during malfunction, startup or shutdown. (20.2.72.203.A(5) NMAC)

**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. (20.2.70.302.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.

**FACILITY SPECIFIC REQUIREMENTS:**

<p><b>A109 Facility: Reporting</b></p> <p>B. A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within 90 days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-wide emissions from all natural gas combustion sources shall be estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits at Table 106.B.</p>
<p>Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.</p>
<p><input checked="" type="checkbox"/> <b>Yes</b>      <b>Date report submitted:</b> March 24, 2016      <b>Tracking Number:</b> SBR20160005</p>
<p><input type="checkbox"/> <b>No</b>      <b>Provide comments and identify any supporting documentation as an attachment.</b></p>
<p><b>Comments:</b> A Semi-Annual Report of actual emissions for 2015H2 (July 1- December 31, 2015), was submitted on March 24, 2016 within 90 days from the end of the reporting period as required by condition A109. The Semi-Annual Report of actual emissions for 2016H1 (January 1-June 30, 2016) is not due until 90 days following June 30, 2016 which is after the submission of this report.</p>

**A113 Other Provisions (20.2.70.302.G.3 NMAC)**

A. To verify Insignificant Activity 1.a and 1.b status of the TA-54 MDA L Soil Vapor Extraction System (SVE), the permittee shall perform the following actions.

(1) At least once every 3 months, the permittee shall calculate and record the tons of VOC and HAP emissions from both SVE units (east and west) using data collected from the SVE stack monitoring system and periodic sampling of the SVE stack gas. The record shall include both measured individual HAPs and total HAPs. These calculations and records shall begin upon startup of the SVE system and shall continue for a period of no less than 12-months to determine the actual ton per year emissions.

(2) The permittee shall report the available tons of HAPs (individual and total) and total VOC emissions data in the Semi-Annual reports required in Condition A109.A.

(3) Within 45 days of collecting 12 months of emissions data, the permittee shall submit the final ton per year VOC and HAPs emissions, the calculations, and the supporting data to AQB's Permit Programs Manager that verifies the Insignificant Activity status of TA-54 MDA L SVE. This submittal shall also cite the Title V Insignificant activity number that applies to the SVE units. Within 30 days of receipt of the submittal, the AQB will complete a review of the information and respond to the permittee in writing. Once AQB provides a written response of this Insignificant source verification, the monitoring, calculations, and reporting of the SVE system emissions no longer applies.

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

**Yes**      **Date report submitted:** March 9, 2016      **Tracking Number:** LANL did not receive an SBR tracking number for this submission from the Air Quality Bureau

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

**Comments:** The final air emissions report for the TA-54 MDA L SVE system, was submitted on March 9, 2016 to the NMED AQB. The methods used to determine the potential and actual tons per year of air emission rates from the SVE system, were approved by Cember Hardison, PSD Program Manager with the NMED AQB. The emissions of all regulated air pollutants from the SVE system are less than 1 ton per year and confirm that the SVE system is a Title V insignificant activity. The emissions report and approval letter are located in ATTACHMENT A113 of this monitoring report.

**EQUIPMENT SPECIFIC REQUIREMENTS:**

<p><b>A605 Fuel Requirements – Asphalt Production</b></p> <p>A. Asphalt Plant Combustion Sources</p> <p><b>Requirement:</b> Combustion sources located at the asphalt plant shall combust only those fuels allowed under condition III.A.3 of the NSR Permit GCP-3-2195G.</p> <p><b>Monitoring:</b> N/A</p> <p><b>Recordkeeping:</b> The permittee shall meet the recordkeeping requirements of GCP-3 and maintain records in accordance with Section B109.</p> <p><b>Reporting:</b> The permittee shall submit reports described in Section A109 and in accordance with Section B110.</p>
<p>Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.</p>
<p><input type="checkbox"/> <b>Yes</b>      <b>Date report submitted:</b> _____      <b>Tracking Number:</b> _____</p>
<p><input checked="" type="checkbox"/> <b>No</b>      <b>Provide comments and identify any supporting documentation as an attachment.</b></p>
<p><b>Comments:</b> Requirement: Pipeline quality natural gas is used at the asphalt plant and is allowed under condition III.A.3 of the NSR permit GCP-3-2195G.</p> <p>Recordkeeping: Records are maintained in accordance with Section B109.</p> <p>Reporting: A109.A: This Semi-Annual Monitoring Report is being submitted within 45 days allowed after the reporting period.</p> <p>A109.B: The 2015H2 (July 1-December 31, 2015) Semi-Annual Emissions Report was submitted on March 24, 2016 within the ninety days allowed following December 31, 2015. The 2016H1 (January 1- June 30, 2016) Semi-Annual Emissions Report for operating permit P100-R2 is due ninety days following June 30, 2016, which is after the submission of this report.</p> <p>A109.C: The 2015 Annual Compliance Certification Reports for operating permits P100-R1-M3 (January 1-February 26, 2015) and P100-R2 (February 27-December 31, 2015) were submitted on January 27, 2016 to NMED AQB and the U.S. Environmental Protection Agency (EPA), within 30 days of December 31, 2015, the end of the 12-month reporting period.</p> <p>All reporting requirements are completed and submitted in accordance with Section B110.</p>

**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 manually record the baghouse pressure drop readings at least once each day the rotary drum dryer operates and 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:** The differential pressure information is used to confirm proper operation of the baghouse. The differential pressure is measured during rotary dryer drum operation as described below:

1. A datalogger records differential pressure readings every two minutes and transmits the pressure drop data through a leased phone-line to a remote terminal unit.
2. A chart recorder records differential pressure readings, and serves as a backup when there is remote data-transmission phone communication problem.
3. The plant operator manually records the differential pressure readings at each start-up and shut-down daily.

Recordkeeping conditions are met using the datalogger, backup chart-recorder, and operator’s differential pressure entries at the start and end of each operation daily.

The remote communication system was upgraded in September 2015 and the fabrication of the replacement facility terminal unit (FTU) for the baghouse was performed in April 2016. A backup chart recorder captured the baghouse pressure drop data continuously when the asphalt plant operated during this certification period. The daily pressure drop data for days of plant operation and backup charts are located in ATTACHMENT A607.A.

Records are maintained in accordance with Section B109.

Emissions and monitoring reports are submitted on a six-month basis and compliance certification is submitted on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.



<b>A607 Asphalt Production – Other</b>	
B. Asphalt Plant Baghouse - Stack Height (Unit TA-60-BDM)	
<b>Requirement:</b> The rotary dryer/baghouse exhaust stack shall be no less than 10 meters in height.	
<b>Monitoring:</b> N/A	
<b>Recordkeeping:</b> The permittee shall maintain records in accordance with Section B109.	
<b>Reporting:</b> The permittee shall submit reports described in Section A109 and in accordance with Section B110.	
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.	
<input type="checkbox"/> <b>Yes</b>	<b>Date report submitted:</b> _____ <b>Tracking Number:</b> _____
<input checked="" type="checkbox"/> <b>No</b>	<b>Provide comments and identify any supporting documentation as an attachment.</b>
<p><b>Comments:</b> The height of the asphalt plant stack has been measured and is not less than 10 meters. The stack is a permanent structure attached to the baghouse fan outlet and its height does not change.</p> <p>Records are maintained in accordance with Section B109.</p> <p>Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.</p>	

**A607 Asphalt Production – Other**

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:** During periods of drum dryer operation, the permittee shall perform six (6) minute opacity readings on the rotary dryer/baghouse stack. Opacity readings shall be performed at least once per month during any month the drum dryer operates. 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 emissions (opacity) readers on-site who perform monthly six (6) minute readings using the procedures in 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. Method 9 opacity reports for this certification period are provided in ATTACHMENT A607.C.

A monthly opacity measurement was not conducted at the asphalt plant in January 2016. The asphalt plant operated less than two (2) hours in January 2016 and then ran out of asphalt oil. The asphalt oil delivery was not received until February 02, 2016 (See Attachment A607.F. for asphalt oil delivery receipt).

The following corrective actions were taken:

To compensate for the lack of opacity measurement in January 2016, a second opacity measurement was performed in February 2016. Two opacity measurements were taken in February 2016. The first measurement was taken on February 10, 2016, and the second measurement on February 18, 2016.

To ensure that the opacity measurements are not missed in the future when the plant operates very few hours in a month, the opacity reader will measure opacity the very first day the asphalt plant operates in a month. A training refresher was conducted to retrain all involved parties of the opacity requirements.

Records are maintained in accordance with Section B109. Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A607 Asphalt Production – Other**

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 (particulates) are removed from the baghouse and cyclone by 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.

Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A607 Asphalt Production – Other**

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

**Requirement:** To avoid Compliance Assurance Monitoring (CAM) requirements under 40 CFR 64, the asphalt plant shall limit uncontrolled potential PM emissions by limiting asphalt production to less than or equal to 6,000 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:**

**Monitoring:**

Asphalt production is monitored and recorded on a daily basis. The weekly rolling 12-month total is calculated and compared to the production limit set in this permit condition. Asphalt production amount is recorded daily on an operation log. The asphalt production rate for this certification period did not exceed 6,000 tons per year. The daily operation logs and 12-month rolling totals are provided in ATTACHMENT A607.E.

**Recordkeeping:**

Records are maintained in accordance with Section B109.

**Reporting:**

Emissions and monitoring reports are submitted on a six-month basis and compliance certification is submitted on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A607 Asphalt Production – Other**

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:** Requirement:

- 1) No new equipment was installed during this monitoring period. 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. Fugitive dust emissions from the plant did not cross the property boundary or exceed the five (5) minute visible emissions limit during any two consecutive hours of operation. EPA Method 9 reports are in ATTACHMENT A607.C and EPA Method 22 reports are in ATTACHMENT A607.G.

**Monitoring:** Preventive maintenance was not scheduled during this reporting period. The differential pressure data collection system was upgraded during this certification period. A facility terminal unit (FTU) replaced the existing remote terminal unit (RTU) and the data collection software is being tested.

**Recordkeeping:**

Recordkeeping conditions are met using the following methods: Standard operating procedures are in place and available on site. Maintenance and calibrations are performed annually; maintenance inspection was not conducted during this monitoring period. The plant’s operation logs contain the start time, stop time, daily and monthly hours of operation; asphalt production amounts; and the number of truck trips. The

rolling 12-month totals for production are calculated on the emissions calculation spreadsheet. The operation logs and rolling 12-month totals are provided in ATTACHMENT A607.E. Records located at the facility include fuel delivery tickets for fuel oil and asphalt oil, frequency of road sweeping, calibration procedures, and a procedure that outlines required maintenance.

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

Reports: Emissions and monitoring reports are submitted on a six-month basis and compliance certification is submitted on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A607 Asphalt Production – Other**

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 during the months the asphalt plant operates. 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:** Requirement:  
During this reporting period, the asphalt plant did not emit fugitive dust that exceeded five (5) minutes of visible emissions during any two (2) consecutive hours.

**Monitoring:**  
EPA Method 22 tests are performed once per month when the plant operates. The EPA Method 22 readings for this monitoring period are provided in ATTACHMENT A607.G. LANL has certified visible emission (opacity) readers on-site who perform monthly six (6) 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.

For this reporting period, a monthly opacity measurement using Method 22 was not conducted in January 2016. The asphalt plant operated less than two (2) hours in January 2016, and then ran out of asphalt oil. The asphalt oil delivery was not received until February 02, 2016 (See Attachment A607.F. for asphalt oil delivery receipt).

The following corrective actions were taken:  
An extra opacity measurement was conducted in February 2016 to compensate for the lack of opacity measurement in January 2016. Two opacity measurements were taken in February 2016. The first measurement was taken on February 10, 2016, and the second measurement on February 18, 2016.

To ensure that the monthly opacity measurement are not missed in the future when the plant operates very few hours in a month, the opacity reader will take the readings the very first day the plant operates in a month.

A training refresher was conducted in February 2016, to retrain all involved parties of the opacity requirements.

**Recordkeeping:**

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

**Reporting:**

Emissions and monitoring reports are submitted on a six-month basis, and compliance certification on an annual basis, in accordance with permit conditions 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 metallographic operations, electroplating /chemical milling, and relocated machining, and arc melting/casting sources.	None	Metallographic operations 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. (NSR permit 634-M2)
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)	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

	<p>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)</p>		<p>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.</p> <p>(NSR Permit 1081-M1-R1, Condition 3, partial, revised)</p>
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**B. Emissions Monitoring Requirements – Beryllium Activities**

<b>Source</b>	<b>Monitoring Requirements</b>
Sigma Facility TA-3-66	A log shall be maintained during operations, which shows the number of metallographic specimens used in the metallographic 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	<p>Facility exhaust stack will be equipped with a continuous emission monitor used to measure beryllium emissions.</p> <p>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. (NSR permit 634-M2)</p>
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	<p>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.</p> <p>(NSR Permit 1081-M1-R3, Condition 11)</p> <p>Control efficiency shall be verified by daily HEPA filter pressure drop tests and annual HEPA filter challenge tests of accessible filters.</p> <p>(NSR Permit 1081-M1-R1, Condition 3, partial, revised)</p> <p>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.</p> <p>(NSR Permit 1081-M1-R6, Condition 11, revised)</p>

**C. Recordkeeping Requirements – Beryllium Activities**

<b>Source</b>	<b>Recordkeeping Requirements</b>
Sigma Facility TA-3-66	Recordkeeping for this source is specified in Condition A707.B.
Beryllium Technology Facility	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.

TA-3-141	Record pressure drop across the cartridge and HEPA filters once per day that the exhaust fans are in operation and the facility is occupied. Record control equipment maintenance and repair activities. (NSR permit 634-M2)
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)

D. Reporting Requirements – Beryllium Activities

Source	Reporting Requirements
Sigma Facility TA-3-66	The permittee shall submit reports described in Section A109 and in accordance with 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

	<p>continuous monitoring system.</p> <p>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.</p> <p>The permittee shall submit reports described in Section A109 and in accordance with Section B110.</p>
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	<p>Stack emission test results and facility operating parameters will be made available to Department personnel upon request.</p> <p>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.</p> <p>The permittee shall submit reports described in Section A109 and in accordance with Section B110.</p>
<p>Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.</p>	
<p><input checked="" type="checkbox"/> <b>Yes</b>      <b>Date report submitted:</b> Jan 14, 2016; Apr 18, 2016      <b>Tracking Number:</b> SBR20160001; SBR20160006</p>	
<p><input type="checkbox"/> <b>No</b>      <b>Provide comments and identify any supporting documentation as an attachment.</b></p>	
<p><b>Comments:</b> A707.A Operational Requirements - Beryllium Activities:</p> <p>TA-3-66 - Metallographic operations and electroplating/chemical milling operations are conducted in aqueous solution or lubricant bath. Emissions from machining and arc melt/casting operations are exhausted through a HEPA filtration system prior to entering the atmosphere.</p> <p>TA-3-141 - The continuous emission monitor is maintained in accordance with LANL's quality program. Records of beryllium process records are available on-site for inspection. No process limits were exceeded during this reporting period.</p> <p>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 the processes used in metallographic preparation, are exhausted through a cartridge filtration system then through the HEPA filtration system. Metallographic preparations activities are conducted in lubricating baths or equivalent.</p> <p>TA-35-213 - All processes are exhausted through a HEPA filtration system prior to entering the atmosphere.</p> <p>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 four (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.</p> <p>No process limits were exceeded during this reporting period. The electric furnace did not operate during this reporting period.</p> <p>A707.B - Emissions Monitoring Requirements - Beryllium Activities:</p>	

TA-3-66 – Log books are maintained for monitoring the number of metallographic specimens used in the metallographic operation and the weight or volume of samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations. The log books are available on-site and are available for inspection. Data from the log books are included in ATTACHMENT A707.B.a.

TA-3-141 – The facility 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. Log books documenting beryllium processing are on-site and are available for inspection. Data from the 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.

#### A707.C Recordkeeping Requirements - Beryllium Activities:

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. 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 and will be conducted during the second half of 2016. Daily differential pressure readings are provided in ATTACHMENT A707.C.c. 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.

#### A707.D Reporting Requirements - Beryllium Activities:

All Beryllium Sources - Reports are submitted in accordance with permit conditions A109 and in accordance B110. For more information, see Section A605 in this report.

There were no new or modified emission sources during the reporting period.

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 was submitted on January 14, 2016 (SBR20160001) and April 18, 2016 (SBR20160006).

**A805 Fuel Sulfur Requirements – External Combustion**

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

**Requirement:** All boilers and heaters, except Units RLUOB-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:** Requirement: A natural gas transportation contract is in place, and states that gas provided to LANL will be pipeline quality and contain no more than three quarters (3/4) grains of total sulfur per one hundred (100) standard cubic feet.

**Recordkeeping:** A copy of LANL's natural gas transportation contract is maintained on-site.

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A805 Fuel Sulfur Requirements – External Combustion**

B. Units RLUOB-BHW-1 through -4

**Requirement:** Units RLUOB-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-R2, Specific Condition 1.c.)

**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-R2, Specific Condition 3.c., revised) 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:**

Requirement:

A natural gas transportation contract is in place, and states that gas provided to LANL will be pipeline quality and contain no more than three quarters (3/4) grains of total sulfur per one hundred (100) standard cubic feet.

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.

Recordkeeping: A copy of the transportation contract and purchase contract are maintained on-site. No fuel oil was purchased during this reporting period.

Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification is submitted on an annual basis in accordance with permit conditions 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 RLUOB-BHW-1 through -4)

**Requirement:** Exhaust emissions from these external combustion sources 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:**

**Requirement:** 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 exceed 20% over a 10-minute period and no visible emissions were observed during steady state operations during this reporting period.

**Monitoring:** The natural gas combusted by all boilers at LANL meets the requirement at Condition A805.A.

**Recordkeeping:** A standard form is used for all opacity measurements. The form includes the date of measurement and opacity observed. Opacity readings were not required during this reporting period.

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.



**A806 20.2.61 NMAC Opacity – External Combustion**

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

**Requirement:** Exhaust emissions from these external combustion sources 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:**

Requirement: 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 exceed 20% over a 10-minute period and no visible emissions were observed during steady state operations during this reporting period.

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

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

Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A806 20.2.61 NMAC Opacity – External Combustion**

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

**Requirement:** Exhaust emissions from these external combustion sources 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 RLUOB-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-R2, Specific Condition 3.d., revised)

**Recordkeeping:** The permittee shall record dates of any opacity measurements and the corresponding opacity readings. (NSR Permit 2195N-R2, 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:**  
Requirement: 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 exceed 20% opacity during this reporting period.  
  
Monitoring: No fuel oil was used during this reporting period. No opacity measurements were taken during this reporting period. An opacity observation is taken each day fuel oil is used. A standard form is used for all opacity measurements.  
  
Recordkeeping: The opacity form includes the date of measurement and opacity observed. No fuel oil was burned during this reporting period, and therefore, no opacity readings were taken and no records were generated.  
  
Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions 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 RLUOB-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 RLUOB-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 RLUOB-BHW-1 through -4.
- 2) Calculate the actual emissions rate for the emission units listed in Table 800.A except Units RLUOB-BHW-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:**

Requirement: 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.

Monitoring: Units TA-55-6-BHW-1 and TA-55-6-BHW-2 have volumetric flow meters in place to monitor monthly natural gas use. Fuel use information for the TA-55 units listed in this condition is available in ATTACHMENT A807.A.

**Recordkeeping:**

- 1) Monthly rolling 12-month total natural gas fuel use is calculated for the permitted units.
- 2) 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.
- 3) The emission rate is calculated every six-months and annually for this source category, and compared to the permit limits.

Records are maintained in accordance with Section B109.

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A807 Other – External Combustion**

B. Natural Gas and Fuel Oil Usage (Units RLUOB-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 RLUOB-BHW-1 through -4 using a totalizing flow meter. (NSR Permit 2195N-R2, Specific Condition 3.a., partial, revised)
- 2) Monitor the daily fuel oil consumption during which any of the 4 RLUOB boilers are fired with this fuel type. (NSR Permit 2195N-R2, 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 RLUOB-BHW-1 through -4 as a daily rolling 365-day total.
- 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:**

Monitoring:

- 1) A totalizing flow meter is in place and measures natural gas used by the RLUOB boilers. The natural gas fuel use data is provided in ATTACHMENT A807.A.
- 2) Daily fuel oil consumption is monitored using meters located on each boiler. The fuel use readings are monitored by facility personnel. No fuel oil was burned during this reporting period.
- 3) The hours of operation of each boiler are recorded by facility personnel each time a boiler is run on fuel oil. The purpose of running the boilers is also monitored.

Recordkeeping:

- 1) Annual fuel oil usage is calculated and recorded on a daily rolling 365-day total. No fuel oil was burned during this reporting period.
- 2) 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 permit limits and data are provided to NMED in accordance with Permit condition A109.
- 3) 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.
- 4) Records are maintained and submitted in accordance with conditions A109 and B110.

**A807 Other – External Combustion**

C. 40 CFR 60, Subpart Dc (Units TA-55-6-BHW-1, TA-55-6-BHW-2, RLUOB-BHW-1 through -3)

**Requirement:** The units are subject to 40 CFR 60, Subpart Dc and the permittee shall comply with the following applicable requirements:

1. When combusting oil in the affected boilers, meet the 0.5 weight percent fuel sulfur standard in 40 CFR 60.42c(d). This standard applies at all times per §60.42c(i). The permittee shall demonstrate compliance per the requirements of §60.42c(h).

**Monitoring:** The permittee shall comply with the fuel supplier certification requirements in 40 CFR 60.46c(e). The permittee shall monitor fuel usage to meet the recordkeeping requirements of 40 CFR 60.48c(g).

**Recordkeeping:** The permittee shall comply with the recordkeeping requirements of 40 CFR 60.48c(c), (f) and (g) 40 CFR 60.7(b) and (f) and maintain the records according to §60.48c(i) except when records are required to be maintained for a longer time period in accordance with Section B109.

**Reporting:** The permittee shall comply with the initial notification requirements of 40 CFR 60.48c(a) and 40 CFR 60.7(a)(1), (a)(4) and (g) and the periodic reporting requirements of 40 CFR 60.48c(b), (d), (e)(11) and (f). Reports shall be submitted according to §60.48c(j). The reporting period may be modified to coincide with the Semi-Annual reporting period in Section A109. The permittee shall report 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:**  
Requirement: Units TA-55-6-BHW-1, TA-55-6-BHW-2, RLUOB-BHW-1, RLUOB-BHW-2, and RLUOB-BHW-3 meet the requirements of 40 CFR Part 60, Subparts A and Dc. Notification requirements were met through source startup notifications and initial permit applications.

**Monitoring:** The amount of fuel combusted is monitored and recorded on a monthly basis. Fuel sulfur requirements and tracking are addressed in a fuel oil purchase contract, delivery receipts, and the natural gas transportation contract. No fuel oil was purchased during this reporting period.

**Recordkeeping:** Fuel sulfur content information and fuel use records are maintained on site for at least five (5) years as required by the operating permit.

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A807 Other – External Combustion**

D. 40 CFR 60, Subpart Dc (New Unit RLUOB-BHW-4)

**Requirement:** This unit is subject to 40 CFR 60, Subpart Dc and the permittee shall comply with the following applicable requirements:

1. When combusting oil in the affected boilers, meet the 0.5 weight percent fuel sulfur standard in 40 CFR 60.42c(d), and (g). This standard applies at all times per §60.42c(i). The permittee shall demonstrate compliance per the requirements of §60.42c(h).
2. For new boiler RLUOB-BHW-4, the permittee shall demonstrate initial compliance with the SO<sub>2</sub> standard through a certification from the fuel supplier per 40 CFR 60.44c(h).

**Monitoring:** The permittee shall comply with the fuel supplier certification requirements in 40 CFR 60.46c(e).

The permittee shall monitor fuel usage to meet the recordkeeping requirements of 40 CFR 60.48c(g).

**Recordkeeping:** The permittee shall comply with the recordkeeping requirements of 40 CFR 60.48c(c), (f) and (g) and 40 CFR 60.7(b) and (f) and maintain the records according to §60.48c(i) except when records are required to be maintained for a longer time period in accordance with Section B109.

**Reporting:** The permittee shall comply with the initial notification requirements of 40 CFR 60.48c(a) and 40 CFR 60.7(a)(1), (a)(3) and (g) and the periodic reporting requirements of 40 CFR 60.48c(b), (d), (e)(11) and (f). Reports shall be submitted according to §60.48c(j). The reporting period may be modified to coincide with the Semi-Annual reporting period in Section A109.

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 purchases only fuel oil with ultra low sulfur content; fuel oil was not combusted during this reporting period.

RLUOB-BHW-4 has not been installed. When installed, the requirements, monitoring, recordkeeping and reporting will be conducted in accordance with the requirements listed in permit P100-R2.

**A807 Other – External Combustion**

E. Initial Compliance Testing (Units RLUOB-BHW-4)

**Requirement:** Initial compliance tests are required for boiler, Unit RLUOB-BHW-4. The tests shall be conducted for NOx and CO while burning natural gas fuel only. This condition applies only if boiler Unit RLUOB-BHW-4 is not an identical make and model to boiler units RLUOB-BHW-1 through -3. (NSR Permit 2195N-R2, Specific Condition 6.a., revised)

**Monitoring:** The permittee shall conduct EPA Method tests for CO and NOx within six (6) months of any new boiler start up. Method 19 may be used for determining stack flow rates. This requirement supersedes Condition B111.A(2). Initial compliance testing shall be conducted in accordance with Section B111.

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

**Reporting:** The permittee shall report in accordance with Section B110 and Section B111.

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:**  
Unit RLUOB-BHW-4 has not been installed. Once installed, the requirements, monitoring, recordkeeping and reporting will be conducted in accordance with the requirements listed in permit P100-R2.

<b>A807 Other – External Combustion</b>	
F. Operational Inspection (Sources listed in Table 800.A)	
<p><b>Requirement:</b> Compliance with the allowable emission limits in Table 802.A shall be demonstrated by performing periodic inspections to ensure proper operations.</p> <p><b>Monitoring:</b> The permittee shall conduct annual operational inspections to determine that the boilers are operating properly. The operational inspections shall include operational checks for indications of insufficient excess air, or too much excess combustion air. These operational checks shall include observation of common physical indications of improper combustion, including indications specified by the boiler manufacturer, and indications based on operational experience with these units.</p> <p><b>Recordkeeping:</b> The permittee shall maintain records of operational inspections, describing the results of all operational inspections noting chronologically any adjustments needed to bring the boilers into compliance. The permittee shall maintain records in accordance with Section B109.</p> <p><b>Reporting:</b> The permittee shall report in accordance with Section B110.</p> <p>Within ninety (90) days of permit issuance, the permittee shall submit for Department approval a procedure which the permittee will use to carry out the operational inspections. The permittee may at any time submit revisions for Department approval.</p>	
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.	
<input type="checkbox"/> Yes	<b>Date report submitted:</b> _____ <b>Tracking Number:</b> _____
<input checked="" type="checkbox"/> No	<b>Provide comments and identify any supporting documentation as an attachment.</b>
<p><b>Comments:</b></p> <p>Monitoring: LANL conducts annual operational inspections on the permitted boilers listed in the current permit. The annual operational inspections were last conducted during the 2015H2 certification period. The next annual operational inspections are scheduled for the second half of the year (2016H2).</p> <p>Recordkeeping: The records of operational inspections and results are maintained in the compliance folders and e-files stored on air quality servers.</p> <p>Reporting: LANL submitted a procedure that will be used to carry out the operational inspections. This procedure was submitted on May 13, 2015 within 90 days after permit issuance. No revisions were proposed to this procedure.</p>	



<b>A907 Other – Chemical Usage</b>		
A. Emission calculations (Unit LANL-FW-CHEM)		
<b>Requirement:</b> The permittee shall comply with the facility-wide VOC and HAP emission limits at Table 106.B.		
<b>Monitoring:</b> 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.		
<b>Recordkeeping:</b> 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.		
<b>Reporting:</b> 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.		
<input type="checkbox"/> Yes	<b>Date report submitted:</b>	<b>Tracking Number:</b>
<input checked="" type="checkbox"/> No	<b>Provide comments and identify any supporting documentation as an attachment.</b>	
<b>Comments:</b> Requirement: Facility-wide emissions did not exceed the VOC or HAP emission limits in Table 106.B.  Monitoring: Facility-wide chemical purchases are monitored using ChemDB, an electronic chemical tracking system. The chemical purchase information is used to calculate emissions. Chemical emission information is submitted to NMED every six-months in accordance with permit condition A109.B. The semi-annual emissions report for the second half of 2015 (July 1-December 2015) was submitted to NMED on March 24, 2016, within 90 days of the end of the reporting period. Records of chemical purchases for this monitoring period are provided in ATTACHMENT A907.A.  Reporting: Facility-wide VOC and HAPs emissions are calculated, recorded, and reported on a six-month basis in accordance with permit conditions A109.B, B109, and B110. The semi-annual emissions report includes individual HAPs emitted in a quantity greater than 0.5 tons per year.		

**A907 Other – Chemical Usage**

B. Emission calculations (Unit RLUOB-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-R2, Specific Condition 2.a., revised)

**Monitoring:** The permittee shall monitor chemical purchasing for the RLUOB-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-R2, 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-R2, 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:**

**Requirement:** The RLUOB-CHEM facility laboratory activities started operations in May 2014. Chemical purchasing for the facility are monitored using ChemDB, an electronic chemical tracking system. Records of chemical purchases for the reporting period are provided in Attachment A907.B.a

**Monitoring:** The quantities of chemicals that are vented to the atmosphere are estimated on a monthly basis and are categorized as VOC, HAP, TAP, or a combination of these categories. The quantities of chemicals for this reporting period are provided in ATTACHMENT A907.B.b

**Recordkeeping:** The quantity of total VOC and TAP, individual HAP, and the total HAPs emitted are recorded on a monthly rolling, 12-month total basis. Records are maintained in accordance with Section B109.

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions 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:**

Requirement:

- 1) The degreaser is kept closed with a tight fitting cover when it is not being used.
- 2) A freeboard ratio of 0.75 or greater is maintained.
- 3) All waste solvent and solvent contaminated wipe rags are collected and stored in closed containers.
- 4) Flushing operations are performed only within the freeboard area.
- 5) Cleaned parts are allowed to drip for 15 seconds or until dripping stops.
- 6) The fill line has not been exceeded.
- 7) Spills are wiped up immediately.
- 8) Administrative controls are in place to prevent observable splashing with an agitation device.

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

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

Monitoring and Recordkeeping: A Degreaser Recordkeeping 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 this period is provided in ATTACHMENT A1007.A.a.

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

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

3) 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.

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

Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A1104 Operational Limitations – Internal Combustion**

A. Hours of Operation and Emission Limits for Unit TA-33-G-1P

**Requirements:**

- 1) Unit TA-33-G-1P 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-R4, Condition A1104.A)
- 2) Unit TA-33-G-1P is limited to the emissions limits stated in Table 1102.A. (NSR Permit 2195F-R4, Condition A1104.A)

**Monitoring:** The permittee shall monitor the time(s) of operation each day, and the daily and monthly rolling 12-month total hours of operation for Unit TA-33-G-1P using a non-resettable hour meter. Hours that do not represent hours the unit is operated at the TA-33 site may be monitored separately for subsequent subtraction from the daily and monthly rolling 12-month totals

**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 hours of operation of the genset listed above, as indicated on the non-resettable hour meter. The permittee may record and subtract hours of operation that do not represent operating hours at the TA-33 site.
- 2) The permittee shall calculate the annual emissions of all criteria and hazardous air pollutants from Unit TA-33-G-1P. The permittee may subtract emissions that are not the result of operations at TA-33.

**Reporting:** The permittee shall submit reports 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:**

Requirement: Unit TA-33-G-1-P operated only for maintenance purposes during this reporting period. Emissions are lower than the limits stated in Table 1102.A. in NSR permit 2195F-R4

Monitoring: The operations are monitored each day and the generator is equipped with a non-resettable hour meter. The purpose of equipment use at TA-33 and other site(s) are identified in the log sheet provided in ATTACHMENT A1104.A.

Recordkeeping: A log book is located in the trailer that contains the unit. The log book includes hours of operation recorded daily when the equipment operates. The monthly rolling 12-month total hours of operation are calculated in a spreadsheet. Operations at areas outside TA-33 are recorded. The annual emissions of criteria and HAPs are calculated based on the hours of operation.

Reporting: Reports are submitted as required by permit conditions.

**A1104 Operational Limitations – Internal Combustion**

B. 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 criteria and hazardous air 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:**

Monitoring: The operating 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.

The hour meters on these units are non-resettable.

Recordkeeping:

- 1) Equipment operating hours are recorded.
- 2) The emissions of regulated pollutants from Units TA-33-G-2, TA-33-G-3 and TA-33-G-4 are calculated and recorded semi-annually.
- 3) Certificates of compliance with applicable non-road emission standards are maintained on-site.

Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A1105 Fuel Sulfur Requirements – Internal Combustion**

A. Fuel Sulfur Requirement for Unit TA-33-G-1P

**Requirement:** Unit TA-33-G-1P while in use at TA-33 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:**

Requirement: Only Ultra Low Sulfur Diesel (ULSD) is used at the facility. A purchase contract is in place with LANL to only purchase ULSD, which is less than 15 ppm sulfur.

Recordkeeping: A copy of the purchase contract is available on-site.

Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions 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 - TA-33-G-1P, TA-33-G-2, TA-33-G-3, TA-33-G-4, RLUOB-GEN-1, RLUOB-GEN-2, RLUOB-GEN-3, TA-48-GEN-1, TA-55-GEN-1 TA-55-GEN-2 and TA-55-GEN-3

**Requirement:** Visible emissions from the stacks of the above listed sources shall not equal or exceed an opacity of 20 percent.

**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:**

Requirement: No unit subject to requirements in this section exceeded 20% opacity during this certification period.

Monitoring: During this reporting period, opacity measurements were conducted for the generators: RLUOB-GEN-1, RLUOB-GEN-2, RLUOB-GEN-3, TA-55-GEN-1, TA-55-GEN-2 and TA-55-GEN-3. The opacity observations for these generators were conducted within the five year period allowed by Section B108.D(2). The reports for this reporting period are located in ATTACHMENT A1106.A. Section B108.D(2) of the permit allows for 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 five (5) years of the issuance date of the operating permit. Other permitted generators are not due for an opacity measurement during this reporting period.

Recordkeeping: Records are maintained in accordance with Section B109.

Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.



**A1107 Other – Internal Combustion**

A. 40 CFR 60, Subpart IIII (Emergency Generators Units RLUOB-GEN-1 through -3)

**Requirement:** The units are subject to 40 CFR 60, Subpart IIII and the permittee shall comply with the applicable emissions standards and fuel requirements in §60.4205(a), §60.4206 and §60.4207(b) and Table 1102.B. In addition the permittee shall follow the compliance requirements stated in §60.4211(a, b, and f) and the general provisions of 40 CFR 60 Subpart A as required in §60.4218.

**Monitoring:** None

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

**Reporting:** The permittee shall comply with all applicable reporting requirements of 40 CFR 60, Subpart A as required in §60.4218 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:**

Requirement: The manufacturer's emissions certifications as required by 40 CFR Subpart A §60.4205(a) are available on-site.

Diesel sulfur requirements of 15 ppm are met by the LANL contract and policy of purchasing ULSD. §60.4211 (a) (b) and (f) - Manufacturer's certifications for nonroad engine are on-site; non-emergency maintenance checks and readiness testing of such units is limited to 100 hours per year per §60.4211(f)(3).

Recordkeeping: Hours of nonemergency and emergency operation are recorded at the facility during generator operation. The units subject to this condition operated less than 100 hours to date on non-emergency maintenance and readiness checks in accordance with condition in §60.4211(f)(3).

Reporting: Hours of operations are reported in accordance with Section B110.

**A1107 Other – Internal Combustion**

B. 40 CFR 60, Subpart IIII (Emergency Generators Unit TA-48-GEN-1, TA-55-GEN-1 TA-55-GEN-2 and TA-55-GEN-3)

**Requirement:** The units are subject to 40 CFR 60, Subpart IIII and the permittee shall comply with the applicable emissions standards and fuel requirements in §60.4205(b), §60.4202(a)(2), §60.4206 and §60.4207(b) and Table 1102.B. In addition the permittee shall follow the compliance requirements stated in §60.4211(a, c and f) and the general provisions of 40 CFR 60 Subpart A as required in §60.4218.

**Monitoring:** None

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

**Reporting:** The permittee shall comply with all applicable reporting requirements of 40 CFR 60, Subpart A as required in §60.4218 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:**

Requirement: The manufacturer's emissions certifications as required by §60.4205(a) are available on site. Diesel sulfur requirements of 15 ppm are met by the LANL contract and policy of purchasing ULSD. §60.4211 (a) (b) and (f) - Manufacturer's certifications for nonroad engine are on-site to demonstrate compliance with standards; non-emergency maintenance checks and readiness testing of such units are limited to 100 hours per year per §60.4211(f)(3).

Recordkeeping: Hours of non-emergency and emergency operation are recorded at the facility during generator operation. The units subject to this condition operated less than 100 hours to date on non-emergency maintenance and readiness checks.

Reporting: Hours of operations are reported in accordance with Section B110.

**A1204 Operational Limitations – Data Disintegrator**

A. Operational Throughput Limitation (Unit Data Disintegrator)

**Requirement:** The Unit Data Disintegrator is limited processing no more than 25,000 boxes or 565 tons per year media. To avoid Compliance Assurance Monitoring (CAM) requirements under 40 CFR 64, the Data Disintegrator shall limit uncontrolled potential PM emissions by limiting media processing no more than 25,000 boxes or 565 tons per year.

**Monitoring:** The permittee shall perform the monitoring required in Condition A1207.A.

**Recordkeeping:** The permittee shall perform the recordkeeping required in Condition A1207.A.

**Reporting:** The permittee shall perform the reporting required in Condition A1207.A.

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:**

Requirement: A log is kept to ensure that no more than 25,000 boxes or 565 tons per year of media are processed.

Monitoring, recordkeeping and reporting are discussed in Condition A1207.A.

**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:**

**Requirement:** 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.

**Monitoring:** 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.

**Recordkeeping:** The actual emissions rate is calculated for the emission unit on a semi-annual basis and is included in the semi-annual emissions report. These records are maintained on-site. The emission rate in tons per year is calculated by summing the emissions from the previous reporting period with the current period. The emissions are compared to the allowable emissions for the unit. Records are maintained in accordance with Section B109.

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

<b>A1207 Other – Data Disintegrator</b>	
B. Cyclone/Cloth Tube Filters (Data Disintegrator)	
<b>Requirement:</b> 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.)	
<b>Monitoring:</b> N/A	
<b>Recordkeeping:</b> 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.	
<b>Reporting:</b> The permittee shall submit reports described in Section A109 and in accordance with Section B110.	
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.	
<input type="checkbox"/> Yes	<b>Date report submitted:</b> _____ <b>Tracking Number:</b> _____
<input checked="" type="checkbox"/> No	<b>Provide comments and identify any supporting documentation as an attachment.</b>
<p><b>Comments:</b></p> <p>Requirement: Preventative maintenance and repair are performed on the data disintegrator cyclone and cloth tube filter(s) following manufacturer's recommendations.</p> <p>Recordkeeping: Records of maintenance performed on the cyclone and cloth tube filter(s) are provided in ATTACHMENT A1207.B. Manufacturer recommended repair and maintenance information are also available on site. Records are maintained in accordance with Section B109.</p> <p>Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.</p>	

**A1207 Other – Data Disintegrator**

C. Compliance Testing (Data Disintegrator)

**Requirement:** If upon notification by the Department, 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:**

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

Recordkeeping: No records have been generated.

Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions 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:**

**Requirement:** The natural gas transportation contract states that gas provided to LANL will be pipeline quality with total sulfur content of no more than three quarters (3/4) grains of total sulfur per one hundred (100) standard cubic feet.

**Recordkeeping:** 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. No fuel oil was purchased during this reporting period.

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A1305 Fuel Sulfur Requirements – TA-3 Power Plant**

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:**

**Requirement:** This requirement is satisfied since the natural gas transportation contract states that gas provided to LANL will be pipeline quality with total sulfur content of no more than three quarters (3/4) grains of total sulfur per one hundred (100) standard cubic feet.

**Recordkeeping:** The transportation contract is kept on-site.

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions 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:**

**Requirement:** 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.

**Monitoring:** Natural gas fuel meets the requirement specified in Condition A1305.A and B. No visible emissions were observed during steady state operation during this reporting period.

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

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A1306 20.2.61 NMAC Opacity – TA-3 Power Plant**

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:**

**Requirement:** 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.

**Monitoring:** 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. No fuel oil was burned during this monitoring period, and no opacity readings were required.

**Recordkeeping:** Records are maintained in accordance with Section B109.

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions 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 emissions calculations required by this section are performed for the emission units listed. The emission units did not exceed the hourly or annual emission limits.

Emissions 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 - 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 an MMscf). The NOx emission rate is a constant of 0.057 lbs/MMBtu unless the Btu value of the fuel changes significantly.

Records are maintained in accordance with Section B109.

Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A1307 Other – TA-3 Power Plant**

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 2195B-M2, 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:**

**Requirement:** The combined boiler natural gas use did not exceed 1,000 MMscf or 500,000 gallons of fuel oil in any 12-month period. All fuel use data are tracked monthly in a spreadsheet used for emission calculations.

**Monitoring:** 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.

**Recordkeeping:** 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.

**Reporting:** Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A1307 Other – TA-3 Power Plant**

C. Fuel Usage (Combustion Turbine, Unit TA-2-22-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:**

Requirement: 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 12-month rolling natural gas total is provided in ATTACHMENT A1307.C.

Monitoring: The natural gas flowmeter is installed on the turbine inlet. The fuel flowmeter continuously measures natural gas being delivered to the combustion turbine.

Recordkeeping: Daily hours of operation 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.

Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A1307 Other – TA-3 Power Plant**

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:**

Monitoring: Load range is calculated by the turbine operating system and is manually recorded each hour during operation. Daily operating logs showing the turbine 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.

Recordkeeping: Records are maintained in accordance with Section B109.

Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A1307 Other – TA-3 Power Plant**

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:**

Requirement: When a boiler is in operation, the associated Flue Gas Recirculation (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 reporting period.

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

Recordkeeping: 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.

Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

**A1307 Other – TA-3 Power Plant**

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:**

Requirement: 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 are available on the DLE system.

Records are maintained in accordance with Section B109.

Emissions and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.



**A1307 Other – TA-3 Power Plant**

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 2195B-M2, 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:**

Requirement: The combustion turbine is in compliance with 40 CFR Part 60 Subpart A and 40 CFR Part 60 Subpart GG.

Monitoring: The combustion turbine is in compliance with the monitoring and test requirements of 40 CFR 60.334 and 60.335.

Recordkeeping: The combustion turbine is in compliance with the monitoring, notification, and record keeping requirements of 40 CFR 60.334 and 60.7.

Reporting: The combustion turbine is in compliance with the reporting requirements of 40 CFR 60.7.

**A1307 Other – TA-3 Power Plant**

H. Periodic Emissions Tests (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 or EPA Reference Methods subject to the requirements and limitations of Section B108, General Monitoring Requirements. For periodic testing of NOx and CO emissions tests 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 emission limits.

- (1) The test period shall be annually, based on a calendar year.
- (2) The tests shall continue based on the existing testing schedule.
- (3) 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.
- (4) The permittee shall follow the General Testing Procedures of Section B111.
- (5) Performance testing required by 40 CFR 60, Subpart GG or 40 CFR 60, Subpart KKKK may be used to satisfy these periodic testing requirements if they meet the requirements of this condition and are completed during the specified monitoring period.

**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 horsepower at the time of the test, and the type of fuel fired (natural gas, field gas, etc.).

If a combustion analyzer is used to measure 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.

**Reporting:** The permittee shall report in accordance with Section B109, B110, and B111.

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:**  
Requirement: The facility is in compliance with the allowable limits as demonstrated in the monitoring and reporting sections below.

Monitoring: An annual emission stack was last conducted on December 16, 2014; the test results demonstrated that the actual emissions were less than the allowable emissions. No additional stack testing is required this reporting period (See ATTACHMENT A1307.H.). The last test was 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, or at a frequency as specified in General Condition B108.D based on the percentage of time the unit has operated. Records of periodic emissions test include all data required by this section.

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.

Recordkeeping: Records are maintained in accordance with Section B109.

Reporting: Raw data, and calculations used, are included in the test report. Emission and monitoring reports are submitted on a six-month basis and compliance certification on an annual basis in accordance with permit conditions A109, B110, and B111. 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

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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	A607. Asphalt Production - Other. A607.C. Asphalt Plant Baghouse - Opacity & A607.G. Asphalt Plant Fugitive Dust	TA-60-BDM	The monthly opacity measurements, using EPA Method 9 and Method 22, were not conducted in January 2016. The asphalt plant operated less than 2 hours for the month and then ran out of asphalt oil. The asphalt oil delivery was not received until February 2, 2016.	An extra opacity measurement was performed in February 2016 to compensate for the lack of measurement in January 2016. A training refresher was conducted to retrain all involved parties of the opacity requirements. To ensure that the monthly opacity measurements are not missed in the future, the opacity reader will perform the monthly opacity readings the very first day the plant operates each month.
2				
3				
4				
5				

**Deviation Summary Table (cont.)**

No.	Deviation Started		Deviation Ended		Pollutant	Monitoring Method	Amount of Emissions	Did you attach an excess emission form?
	Date	Time	Date	Time				
1								<input type="checkbox"/> Yes <input type="checkbox"/> No
2								<input type="checkbox"/> Yes <input type="checkbox"/> No

3								<input type="checkbox"/> Yes	<input type="checkbox"/> No
4								<input type="checkbox"/> Yes	<input type="checkbox"/> No
5								<input type="checkbox"/> Yes	<input type="checkbox"/> No

ATTACHMENT A113	MDA-L Soil Vapor Extraction Monitoring Data
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 and Delivery Records
ATTACHMENT A607.G.	Asphalt Plant - Method 22 Opacity Reports
ATTACHMENT A707.B.a.	Beryllium - TA-03-0066 Beryllium Logs
ATTACHMENT A707.B.b.	Beryllium - TA-35-0213 Beryllium Operating Log
ATTACHMENT A707.C.a.	Beryllium - TA-03-0141 Beryllium HEPA Filter Differential Pressure Readings
ATTACHMENT A707.C.b.	Beryllium – TA-55-PF4 Annual HEPA Filter Challenge Test Reports
ATTACHMENT A707.C.c.	Beryllium - TA-55-PF4 HEPA Filtration Differential Pressure Readings
ATTACHMENT A807.A.	External Combustion - Natural Gas Usage and Rolling 12-Month Total
ATTACHMENT A807.F.	External Combustion – Boiler Annual Inspections
ATTACHMENT A907.A.	Chemical Usage - Chemical Purchases (From ChemDB)
ATTACHMENT A907.B.a.	Chemical Usage – RLUOB-CHEM Chemical Purchases (From ChemDB)
ATTACHMENT A907.B.b.	Chemical Usage – RLUOB-CHEM Chemical Quantity Total
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 - TA-33-G-1P Daily Operating Logs
ATTACHMENT A1104.B.	Internal Combustion - Permitted Generator Hours
ATTACHMENT A1106.A.	Internal Combustion - Method 9 Opacity Reports
ATTACHMENT A1207.A.	Data Disintegrator - Operating Logs
ATTACHMENT A1207.B.	Data Disintegrator - Maintenance Performed
ATTACHMENT A1307.A.	TA-03 Power Plant – Emission Rate Calculations
ATTACHMENT A1307.B.	TA-03 Power Plant - Boiler Fuel Use and Hours of Operation
ATTACHMENT A1307.C.	TA-03 Power Plant - Turbine Fuel Use and Hours of Operation
ATTACHMENT A1307.D.	TA-03 Power Plant – Turbine Operating Logs



ATTACHMENT A1307.E. TA-03 Power Plant – FGR Fan Inspection and Maintenance

ATTACHMENT A1307.H. TA-03 Power Plant – Combustion Turbine Emission Stack Test Report

# **ATTACHMENT A113**

## **MDA-L Soil Vapor Extraction Monitoring Data**

**From:** [Hardison, Cember, NMENV](#)  
**To:** [Blankenship, Bill](#)  
**Cc:** [Samaniego, Robert, NMENV](#); [Olson, Kirby, NMENV](#); [Schooley, Ted, NMENV](#)  
**Subject:** RE: LANL SVE Air Emission Report  
**Date:** Wednesday, March 09, 2016 1:19:16 PM  
**Attachments:** [Final Report MDA L SVE Air Emission Report.pdf](#)

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Bill:

We have reviewed the attached Soil Vapor Extraction (SVE) system air emissions report and agree with the methods used to determine potential and actual ton per year air emission rates. We also verified that the report meets the requirements, and the intent, of permit condition A113 in Title V Permit P100-R2 which was to verify whether or not the SVE system is Title V Insignificant. The report and supporting data confirms that the SVE system is a Title V Insignificant Activity per items 1a and 1b of the list, and that the SVE system was not subject to a new source review (preconstruction) permit. According to the report, emissions of all regulated air pollutants from the SVE system are less than 1 ton per year.

Thank you,

Cember Hardison  
Air Quality Bureau - PSD Permit Program Manager  
Ph: 505-476-4346 | Fx: 505-476-4375 | [cember.hardison@state.nm.us](mailto:cember.hardison@state.nm.us)  
525 Camino de los Marquez, Suite 1, Santa Fe, NM 87505 | <https://www.env.nm.gov/aqb/>

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**From:** Blankenship, Bill [mailto:[bblankenship@lanl.gov](mailto:bblankenship@lanl.gov)]  
**Sent:** Wednesday, March 09, 2016 10:55 AM  
**To:** Schooley, Ted, NMENV <[ted.schooley@state.nm.us](mailto:ted.schooley@state.nm.us)>  
**Cc:** Hardison, Cember, NMENV <[Cember.Hardison@state.nm.us](mailto:Cember.Hardison@state.nm.us)>; Samaniego, Robert, NMENV <[robert.samaniego@state.nm.us](mailto:robert.samaniego@state.nm.us)>  
**Subject:** LANL SVE Air Emission Report

Ted –

Here is a signed e-copy of the 1 year emission report for the LANL Soil Vapor Extraction system. The report is required by Condition A113 of our Title V permit, which also requires the report to be sent to the Permit Manager. I will be dropping off the original by the end of today.

Bill

Bill Blankenship  
LANL Air Quality Team  
(505) 665-0823

## **Air Emission Report**

### **Material Disposal Area L Soil Vapor Extraction System**

The current Los Alamos National Laboratory (LANL) Title V operating permit P100-R2 was issued on February 27, 2015. Permit Condition A113 – Other Provisions requires a report regarding air emissions from a soil vapor extraction (SVE) system located at Material Disposal Area (MDA L) following the initial 12-months of operation of the system. This report fulfills the requirements of the permit condition.

#### **SVE System Background**

LANL used MDA L from the early 1960s until 1985 as the designated disposal area for containerized and uncontainerized liquid chemical wastes, including chlorinated solvents. All of the former disposal units are covered by asphalt and/or chemical waste storage structures. Subsurface vapor phase hydrocarbons were detected during the mid-1980s, and the existence of a hydrocarbon vapor plume was verified during the Resource Conservation and Recovery Act (RCRA) Phase I characterization of MDA L.

A soil vapor extraction (SVE) system was selected as the RCRA interim measure for in situ remediation of the volatile contaminants in the vadose zone (unsaturated) soils. This operation is intended to diminish contaminant concentrations in soil pore gas and assure the contaminant plume will not increase in size. SVE is a proven technology for the physical treatment of soil contaminants. The technology uses vacuum blowers and extraction wells to induce gas flow through the subsurface before being exhausted to the air. Over time and continuous operation of the unit, contaminants are removed and concentrations in soil pore gas are diminished. Two extraction wells have been utilized to reduce existing organic soil vapors. The wells are designated SVE East and SVE West. SVE West began operation on January 9, 2015. SVE East began operation on January 26, 2015, being the date of the start of full system operation.

The SVE system ran continuously 24-hours per day at full capacity with minimal periods of downtime, estimated to be approximately one percent of total potential run time. On November 18, 2015 the system was shut down due to excessive water condensation occurring in cold weather. Future operation of the system is uncertain but current plans for calendar year 2016 are to run the system 1-2 days at a time every two months and observe organic vapor removal rates compared to rates during operation in 2015. The system could again run continuously from March to November 2017 but this is not a final decision.

#### **Air Regulatory Requirements**

Based on maximum potential emissions, LANL determined a New Source Review (NSR) permit was not required under 20.2.72 NMAC – Construction Permits for construction and operation of the SVE system. To confirm this determination, LANL utilized the voluntary assistance provided by the New Mexico Environment Department (NMED) termed a No Permit Required (NPR) determination. The NPR process allows regulated facilities to submit for review and a formal NMED determination whether a permit is

required for a new process. LANL submitted an NPR application for the SVE system to NMED on April 30, 2014. NMED responded on May 29, 2014 confirming an NSR permit was not required.

During review of the five-year operating permit renewal application resulting in Permit P100-R2, NMED reviewed and agreed to the LANL determination that the SVE system qualifies as a Title V insignificant activity. EPA and NMED Title V regulations do not require an insignificant activity to be placed within or regulated by a Title V permit. In general, an insignificant activity is a small source, defined either by emission rates or rated capacity, which also has no applicable air quality regulatory requirements such as emission limits or performance standards.

In order to provide additional verification regarding the insignificant activity status of the SVE system, NMED requested LANL agree to a Title V permit condition requiring a one-time report of measured emissions during the first 12-months of SVE operation. LANL agreed to this request and Permit Condition A113 requiring this report was included in the Title V Operating Permit P100-R2.

### **SVE Emission Monitoring**

Formal monitoring of exhaust gas for contaminants was accomplished by periodic sampling using Summa canisters. A Summa canister is a stainless steel electro polished passivated vessel used to collect an air sample. Air sampling with this type of canister is a preferred method to obtain a representative air sample for analysis. To collect a sample, gas was withdrawn from the SVE exhaust into canisters which were closed and sent to a laboratory for analysis. Samples were analyzed by an independent laboratory, Eurofins Air Toxics, Inc. using EPA test method TO-15: Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS). This method provides an accurate concentration value for all TO-15 compounds. The sample analysis was quality assured including unique sample IDs for each sample and chain of custody documentation.

During the operating period, 92 Summa samples were collected and analyzed using test method TO-15 for all compounds present. At the start of operation when contaminant concentrations were the highest, multiple samples were collected in a single day. During the months of operation, as concentrations were reduced sample frequency was also reduced from daily, to weekly and monthly. All Summa sampling results are posted to the public website Intellus New Mexico located at [www.intellusnm.com](http://www.intellusnm.com). This site contains environmental monitoring data provided by LANL and the New Mexico Environment Department (NMED) DOE Oversight Bureau (DOE OB).

Additional monitoring was conducted using an in-stack monitor as a field screening tool to measure real-time contaminant concentrations. This type of monitoring was used as an indicator only for trends of gas concentrations. Results from these monitors are specifically not used to assess performance of the system for RCRA purposes as the Summa data is preferred and required by the NMED-Hazardous Waste Bureau. As such, data from these monitors is presented in this report to validate trends in Summa measurements only. The monitors used can measure four organic compounds at a time. The four compounds measured, including 1,1,1-trichloroethane or TCA, represent approximately 85% of total organic emissions. At the start of operation when contaminant concentrations were highest, multiple

monitor readings were recorded per day. During the months of operation, as concentrations were reduced, recorded monitor readings were also reduced from daily to weekly.

In-stack monitoring was initially conducted with a Bruel and Kjaer (B & K) multi-gas monitor model 1302. This was an older unit previously used by LANL for other purposes, such as assuring pore-gas contaminant levels were stable before formal sampling. Although the unit was calibrated prior to use, it eventually would no longer operate and was replaced by a modern updated monitor using similar technology. The new monitor used was a LumaSense Technologies Photoacoustic Gas Monitors model Innova 1412i (Innova). This unit uses a similar measurement principle as the B & K monitor which is a photoacoustic infrared detection method. As with the B & K, the unit measures four compounds at a time by using an optical filter specific to each compound. Unlike the B & K monitor, the Innova unit can compensate for interference between the measured field gases, using a unique cross-compensation feature.

### **Emission Monitoring Results**

Monthly records were maintained of SVE air emissions based on laboratory analysis of Summa canister sampling. Contaminant concentrations in Summa samples were converted to emission results by interpolation between measurements applied to the total exhaust gas flow rate which occurred. Table 1 – MDA L SVE Monthly Cumulative Emission Summary shows the cumulative emission totals for operation during 2015 by compound and by designated pollutant group's volatile organic compounds (VOCs) and hazardous air pollutants (HAPs). Note the monthly values shown are cumulative totals up to a given month, and not values for individual months. The figure shows for each compound whether it is a designated VOC or HAP. Some compounds such as trichloroethene (TCE) are both a HAP and a VOC and these emissions are included in both group totals. For this reason, the sum of total VOCs and total HAPs is higher than the total organic compounds emitted. The designation as to whether or not a compound is a VOC is found at 40 CFR 51.100 (s).

Operation of both SVE units from January through November resulted in:

- 1217.5 pounds total organics;
- 1089.8 pounds total HAPs; and
- 422.4 pounds total VOCs.

The five highest single compounds emitted were:

- 541.0 pounds TCA;
- 259.5 pounds TCE;
- 117.2 pounds 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113);
- 110.6 pounds tetrachloroethene (PCE); and
- 46.2 pounds 1,2-dichloroethane (DCE).

### In-Stack Monitor Results

Air emission estimates from in-stack monitors used as real-time emission indicators are shown in Table 2 – In-Stack Monitor Emission Estimates. It was found that the more modern Innova monitor correlated well with Summa canister monitoring results. The B & K monitor showed higher measurements than Summa monitoring results, possibly due to the interference from other gases. Total emission estimates are therefore somewhat higher than Summa monitoring results due to the B & K values influencing estimates until the Innova unit was brought on-line in May 2015.

**Table 2**

**In-Stack Monitor Emission Estimates**

Monitor	TCA lbs	TCA, TCE, PCE, CFC-11 lbs
B & K (to 5/27/15)	1021.0	1267.7
Innova (5/27/15 to 11/18/15)	220.0	338.5
Totals	1241.0	1606.2

### Emission Trends

The NPR application for the SVE system described emission estimates using a three-dimensional multiphase numerical model of the vapor plume in the subsurface. LANL developed this site-scale model to evaluate the nature and extent of the subsurface contaminant TCA associated with waste disposal. TCA is the predominant organic contaminant found in soil pore gas at the site. At the time of the NPR application, the model predicted a 1 year operation at full capacity for both SVE boreholes would result in a conservative estimate of 1 ton total organic emissions with 70% of the total plume being TCA. A downward trend in removal rates throughout the year was predicted as the system lowered existing concentrations in the ground.

Figures 1 and 2 are graphs showing measured TCA concentrations from Summa canister sampling over the operating period of the system for SVE East and SVE West. As shown, there is a steady and continuous downward trend in concentrations as measured in part per billion by volume (ppbv). There is a rapid decrease in measured concentrations following the first 1-2 months of operation. SVE East showed TCA concentrations of approximately 70,000 ppbv at the start of operation and 30,000 ppbv in March 2015. SVE West had TCA concentrations approaching 100,000 ppbv at the start of operation followed by less than 20,000 ppbv in March 2015. At the conclusion of operation in November 2015, TCA concentrations were approximately 10,000 to 15,000 ppbv at each site.

Figures 3 and 4 show TCA concentrations in SVE East and SVE West as measured by both Summa canisters and the B & K and Innova monitors through July 2015 at which time emission rates had been greatly diminished from the time of startup. The B & K monitor shows emissions trending downwards in a similar fashion to Summa measurements but at higher concentrations levels. It is thought this older monitor was subject to interferences from gases present. However, as an indicator of performance it

was reliable in showing the downward trend in concentrations measured. As shown in the figures, the more modern Innova instrument closely correlated with Summa canister monitoring results. Data from all measurements confirms the downward trend emissions from the start of operation.

### **Comparison to NMED Title V Insignificant Activity Criteria**

Title V Permit Condition A113 requires this report to verify the insignificant activity status of the SVE system. Specifically, the condition requires a comparison with the specific criteria LANL has previously indicated are applicable to the operation. These are Criteria 1.a and 1.b in NMED's *Operating Permit Program List of Insignificant Activities*. Unlike other criteria which are listed based on rated capacity of equipment or specific uses, Criteria 1.a and 1.b apply to any operation with emissions below the expressed mass thresholds. In general, the emission threshold for 1.a is 1 ton per year of any regulated air pollutant (other than HAP). Criteria 1.b applies to HAP emissions only and the criteria is also 1 ton per year of any HAP. As discussed below, in certain instances the threshold may be less than 1 ton.

Criteria 1.a is as follows:

- 1.a. Any emissions unit, operation or activity that has the potential to emit no more than one (1) ton per year of any regulated air pollutant, excluding 112(b) hazardous air pollutants (see item 1.b), but including 112(r) flammable and toxic regulated pollutants that are not listed in Sections 500 – 502 of 20.2.72 NMAC. Regulated 112(r) pollutants that are listed in Sections 500 – 502 of 20.2.72 NMAC are insignificant if they are emitted in quantities less than the threshold (pound per hour) of that regulation.

Regulated air pollutants include all compounds controlled by an emission regulation such as a New Source Performance Standard, a National Ambient Air Quality Standard or the Clean Air Act Title VI program for stratospheric ozone protection. The criteria includes compounds regulated under the federal 112 (r) risk management planning program. If a 112 (r) compound is present, a review must be done to determine what the criteria threshold is. In the monitoring results shown in Figure 1, only 1 compound is regulated under 112(r). The compound is 1,2 dichloroethane. The criteria threshold for this compound is 1 ton per year since it is not listed in 20.2.72 NMAC as a New Mexico toxic air pollutant.

NMED interprets criteria 1.a to include total VOCs as defined at 40 CFR 51.100 (s) as a class of compounds subject to a threshold of 1 ton per year. Certain organic compounds, including TCA, PCE, and CFCs are excluded from the VOC definition at 40 CFR 51.100 (s). Three compounds detected by monitoring are neither a VOC nor HAP but are regulated compounds because each is an ozone depleting substance regulated under Title VI. These are dichlorodifluoromethane (CFC-12), 1, 1, 2-trichloro-1,2,2-trifluoroethane (CFC-11), and trichlorofluoromethane (CFC-113). All other compounds detected by monitoring are VOCs subject to the 1 ton per year threshold as a group total. Table 3 compares emissions from Summa monitoring with the criteria 1.a thresholds.



**Table 3****Comparison of SVE Emissions with Insignificant Criteria 1.a**

Compound	Total Emissions, lbs	Criteria Threshold, lbs	Percent of Threshold
VOCs	422.4	2000	21.1%
CFCs 11,12,113	126.0	2000	6.3%

Criteria 1.b is as follows:

1.b. Any emissions unit, operation or activity that has the potential to emit no more than the lesser of either one (1) ton per year or the de minimis level of any 112(b) hazardous air pollutants listed in the U.S. EPA document "Documentation of De Minimis Rates for Proposed 40 CFR part 63 subpart B", EPA-453/R-93-035 or de minimis levels established under subsequent rulemaking for 112(g).

Applying these criteria to detected HAPs, there are 3 compounds which have a de minimis level less than 1 ton per year in the referenced EPA document. All other detected HAPs have a de minimis level equal to or greater than 1 ton per year. For example, TCA, TCE and PCE have de minimis levels of 10 tons per year. Each individual HAP has a Criteria 1.b threshold of 1 ton per year, except for the 3 compounds with a smaller threshold. Table 4 compares emissions from Summa monitoring with the criteria 1.b thresholds.

**Table 4****Comparison of SVE Emissions with Insignificant Criteria 1.b**

Compound	Total Emissions, lbs	Criteria Threshold, lbs	Percent of Threshold
Benzene	0.9	2000	0.05%
Carbon Tetrachloride	2.6	2000	0.1%
Chlorobenzene	0.1	2000	0.005%
Chloroform	24.1	1800	1.3%
1,1-Dichloroethane	17.0	2000	0.8%
1,2-Dichloroethane	46.2	1600	2.9%
1,1-Dichloroethene	34.0	800	4.3%
1,2-Dichloropropane	28.7	2000	1.4%
1,4-Dioxane	5.4	2000	0.3%
Hexane	0.1	2000	0.01%
Isooctane	0.2	2000	0.01%
Methylene Chloride	17.4	2000	0.9%
Tetrachloroethene	110.6	2000	5.5%
Toluene	2.0	2000	0.1%
1,1,1-Trichloroethane	541.0	2000	27.1%
Trichloroethene	259.5	2000	13.0%

Compound	Total Emissions, lbs	Criteria Threshold, lbs	Percent of Threshold
1,3-Xylene + 1,4-Xylene	0.2	2000	0.01%

A comparison to insignificant activity criteria can also be made from the in-stack monitor records. Although this data is considered to be useful as an indicator only of SVE performance, it is worth noting all results show the operation is a Title V insignificant activity as the Summa data does. Table 5 compares stack monitor data with Criteria 1.a and Table 6 shows the comparison to Criteria 1.b.

**Table 5**

**Comparison of Stack Monitor Results with Insignificant Criteria 1.a**

Compound	Total Emissions, lbs	Criteria Threshold, lbs	Percent of Threshold
VOCs	116.2	2000	5.8%
CFC-11	58.7	2000	2.9%

**Table 6**

**Comparison of Stack Monitor Results with Insignificant Criteria 1.b**

Compound	Total Emissions, lbs	Criteria Threshold, lbs	Percent of Threshold
Tetrachloroethene	190.2	2000	9.5%
1,1,1-Trichloroethane	1241.0	2000	62.1%
Trichloroethene	116.2	2000	5.8%

**Conclusions**

Air emissions from the MDA L SVE system were extensively monitored over a 10 month period with the system at full capacity 24 hours per day. Monitoring results show maximum air emission rates are well below the mass-based Criteria 1.a and 1.b in the NMED insignificant activity list. Total VOC emissions were 21% of the Criteria 1.a threshold. TCA, the most prominent contaminant, had emission rates which were 27.1% of the Criteria 1.b threshold. It is extremely improbable that continued operation for an additional 2 months would have significantly changed these values given the downward trend in emission rates shown for the period of operation. Thus, monitoring further demonstrates the SVE system is a Title V insignificant activity.

# **ATTACHMENT A607.A.**

Asphalt Plant

Differential Pressure Records

## LAEVSA\$ PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Time [ 0:00:00] :

Stop Time [23:59:59] :

Increment (xx[S/M/H/D]): 2M

DATE TIME Diff Press (Inches)

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20-JAN-2016 23:56:00 0.15  
20-JAN-2016 23:58:00 0.15

LAEVSAS

## PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Time [ 0:00:00] :

Stop Time [23:59:59] :

Increment (xx[S/M/H/D]): 2M

DATE TIME DIFF PRES (INCHES)

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22-FEB-2016 23:58:00	0.12

LAEVSAS

## PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Time [ 0:00:00] :

Stop Time [23:59:59] :

Increment (xx[S/M/H/D]): 2M

DATE TIME DIFF PRES (INCHES)

Increment (xx[S/M/H/D]): 2M

2-MAR-2016 0:00:00 0.00

2-MAR-2016 0:02:00 0.00

2-MAR-2016 0:04:00 0.00

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## LAEVSA\$ PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Time [ 0:00:00 ] : 30 apr

Illegal time input, re-enter

Start Time [ 0:00:00 ] :

Stop Time [23:59:59] :

Increment (xx[S/M/H/D]):

Interrupt

## LAEVSB\$ PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Time [ 0:00:00 ] :

Stop Time [23:59:59] :

Increment (xx[S/M/H/D]): 2M

DATE TIME DIFFPRES (INCHES)

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14-APR-2016 23:56:00 0.00  
14-APR-2016 23:58:00 0.00  
LAEVSB\$

## **Asphalt Batch Plant Differential Pressure Readings for May 2015**

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The asphalt batch plant did not operate in May 2016.

Differential pressure readings are not required when the plant does not operate.

## LAEVSB\$ PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Time [ 0:00:00] :

Stop Time [23:59:59] :

Increment (xx[S/M/H/D]): 2M

DATE TIME DIFFPRES (INCHES)

7-JUN-2016 0:00:00 0.00

7-JUN-2016 0:02:00 0.00

7-JUN-2016 0:04:00 0.00

7-JUN-2016 0:06:00 0.00

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7-JUN-2016	1:52:00	0.00
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7-JUN-2016	1:56:00	0.00
7-JUN-2016	1:58:00	0.00
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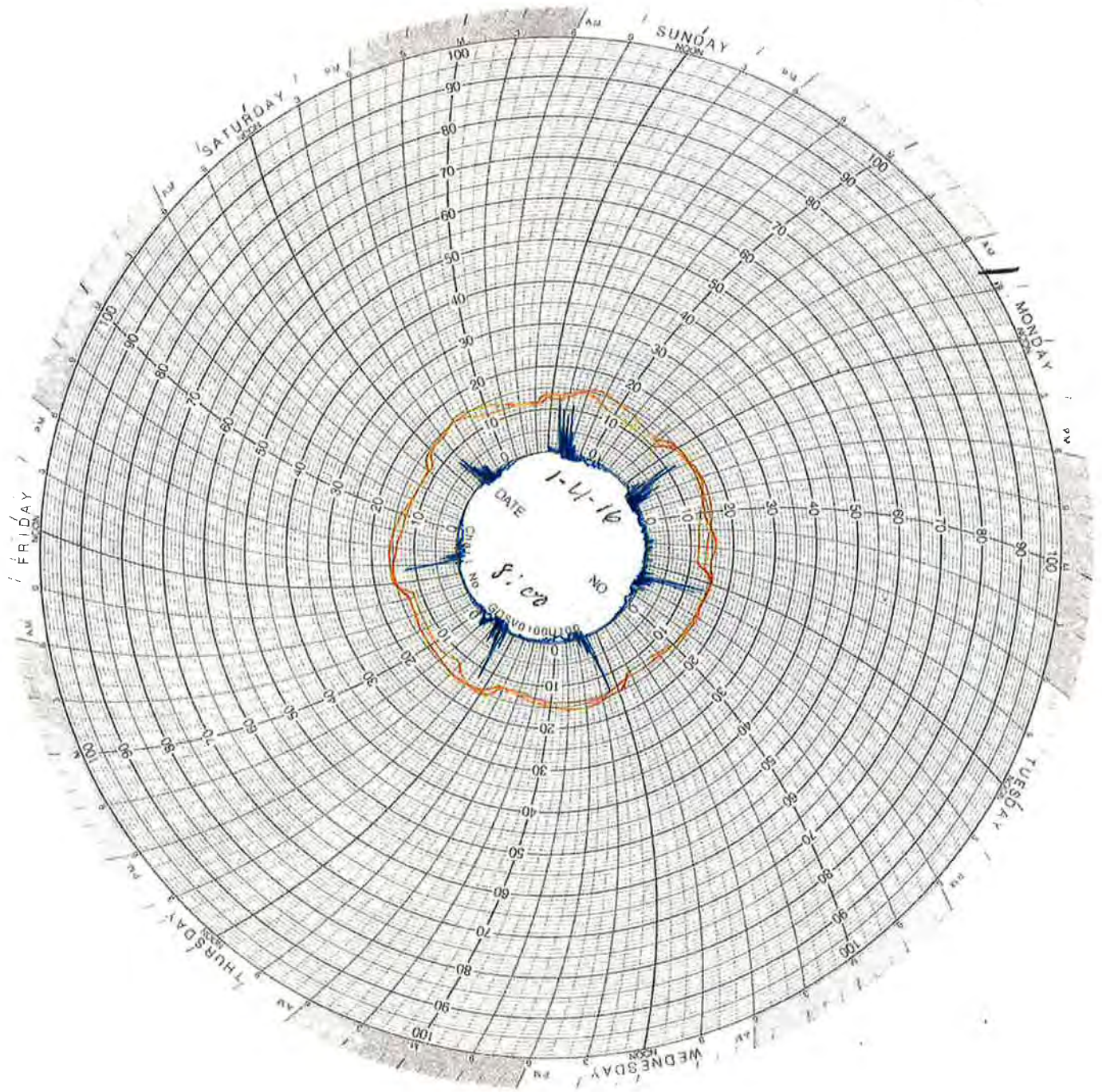
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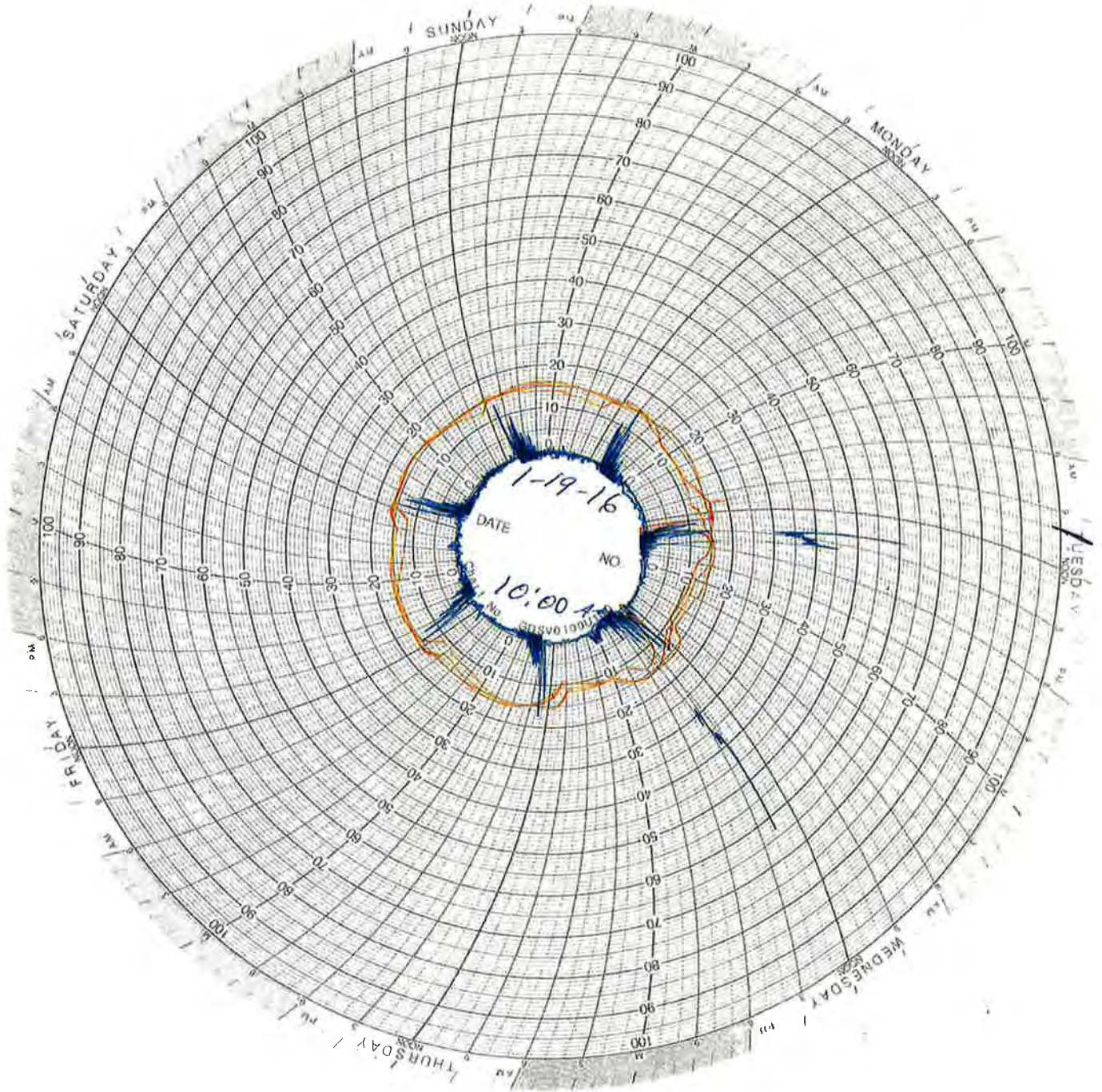
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29-JUN-2016 19:06:00	0.00
29-JUN-2016 19:08:00	0.00
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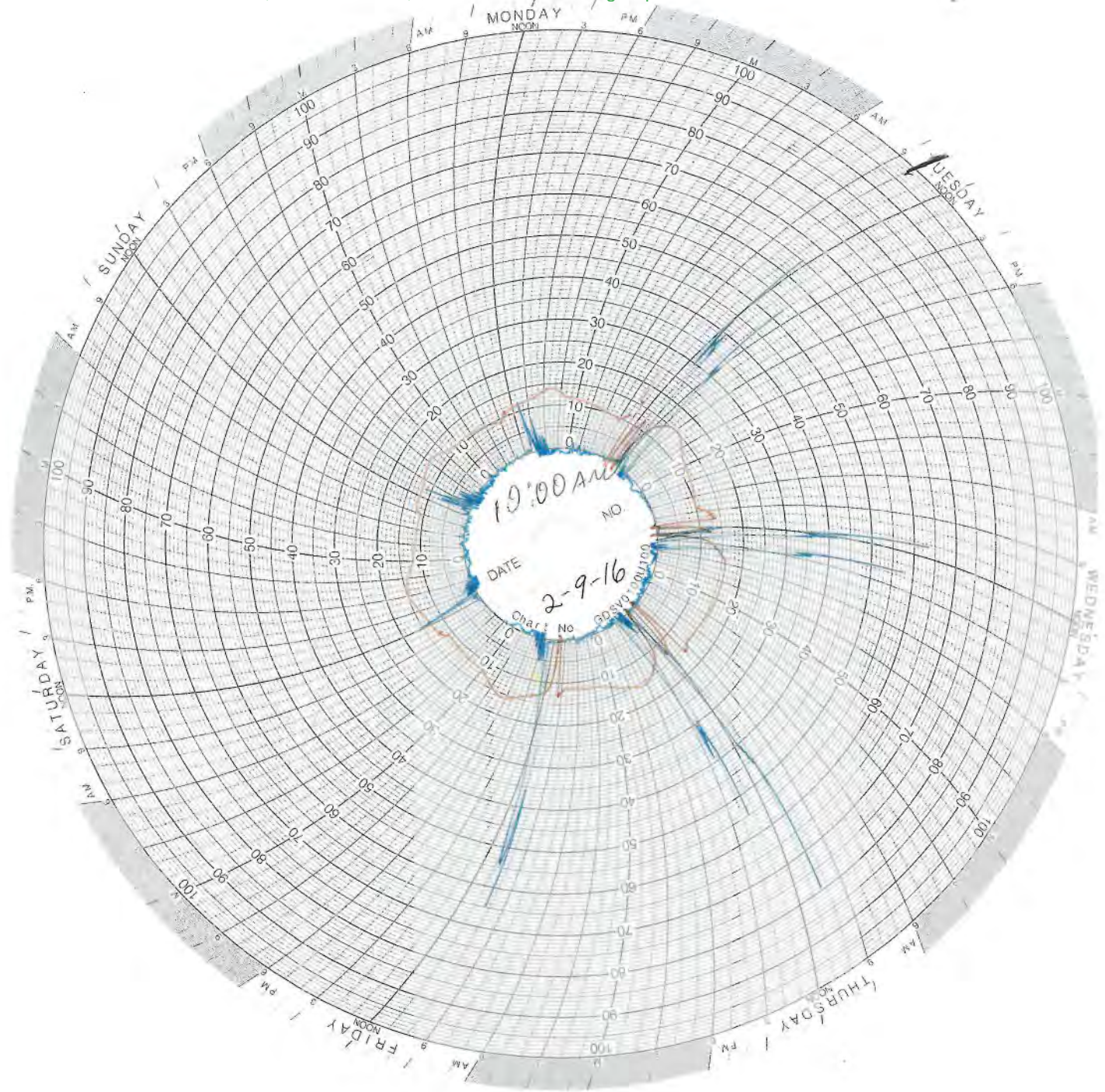
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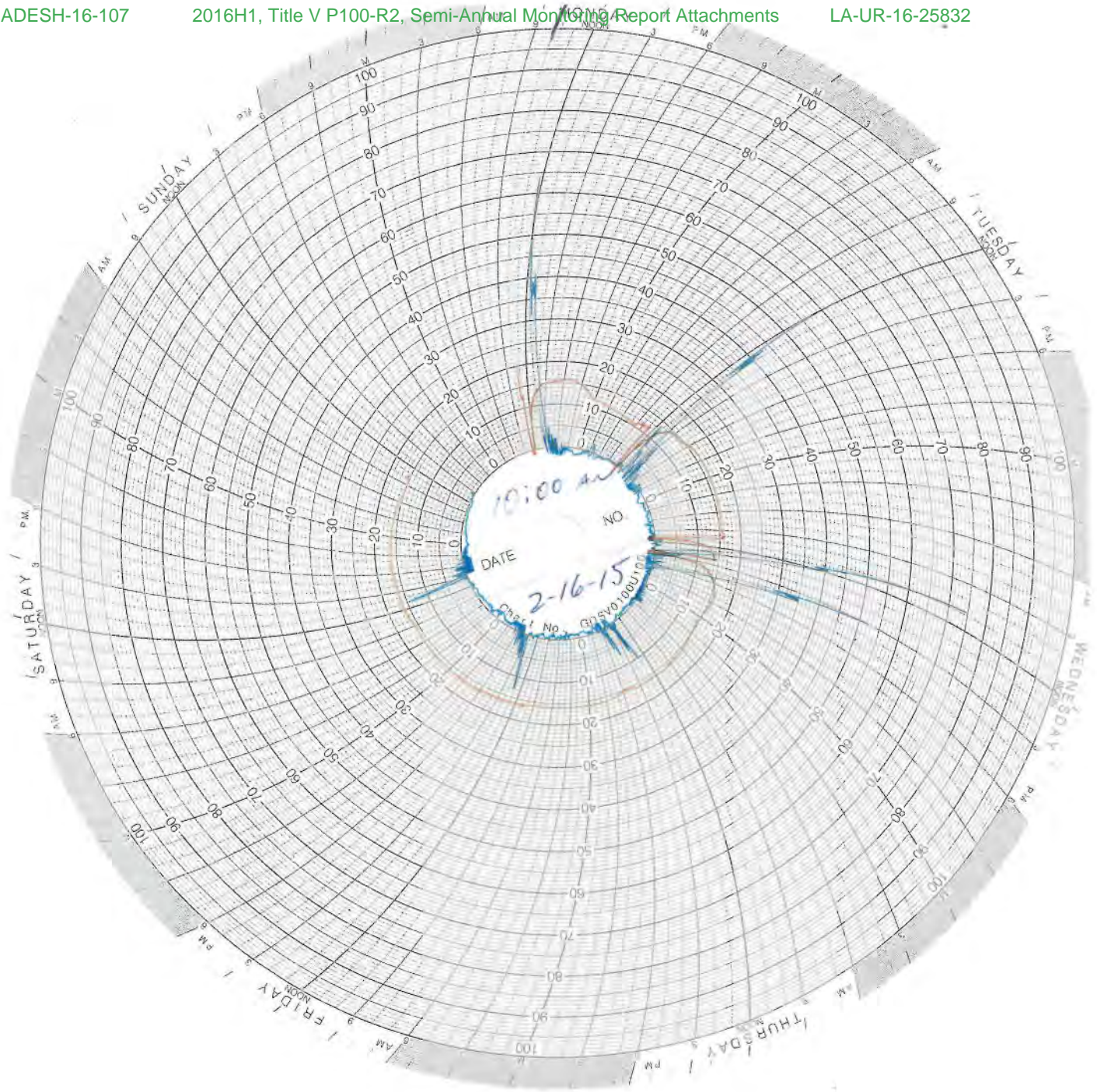
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LAEVSBS	

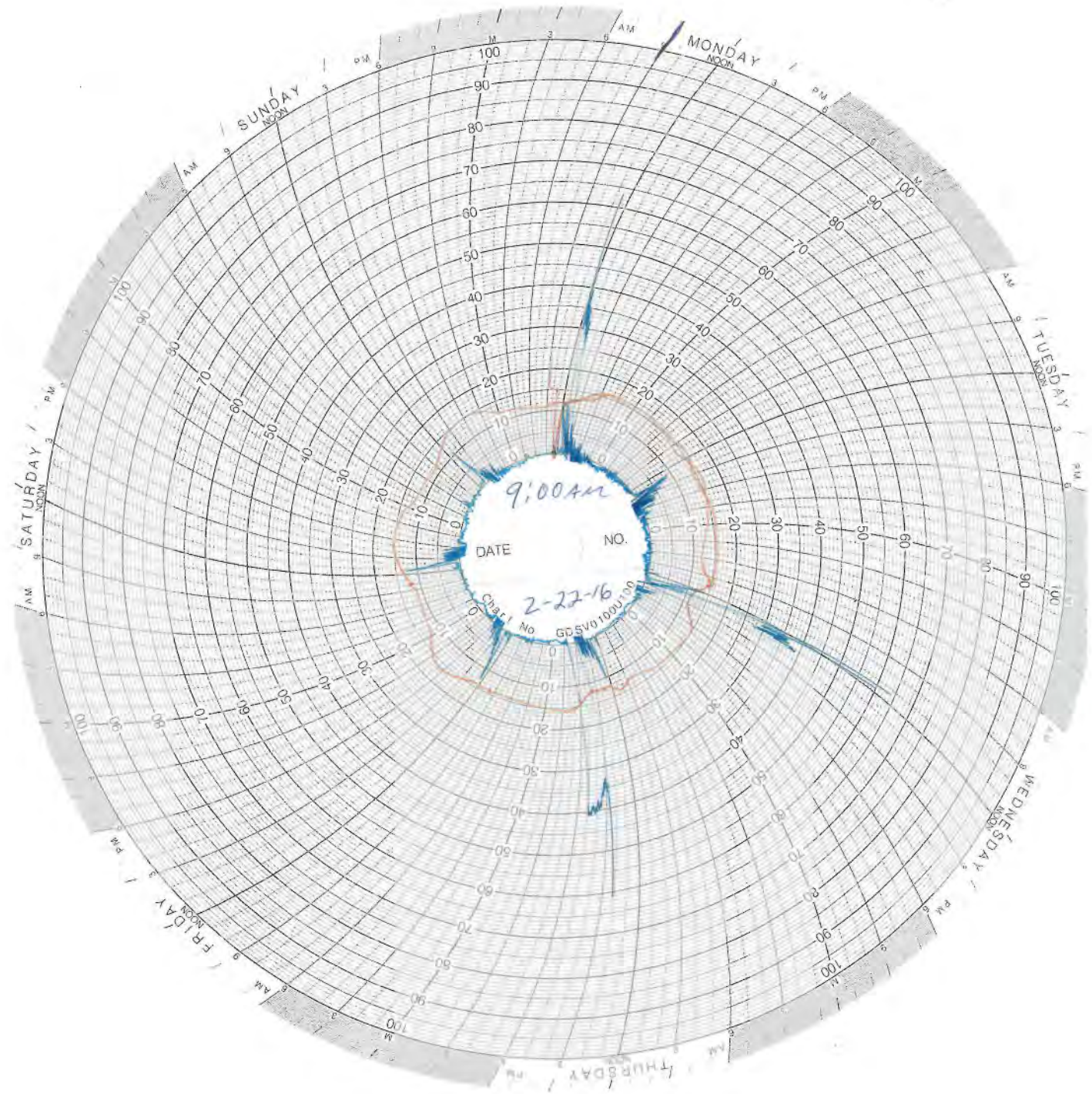


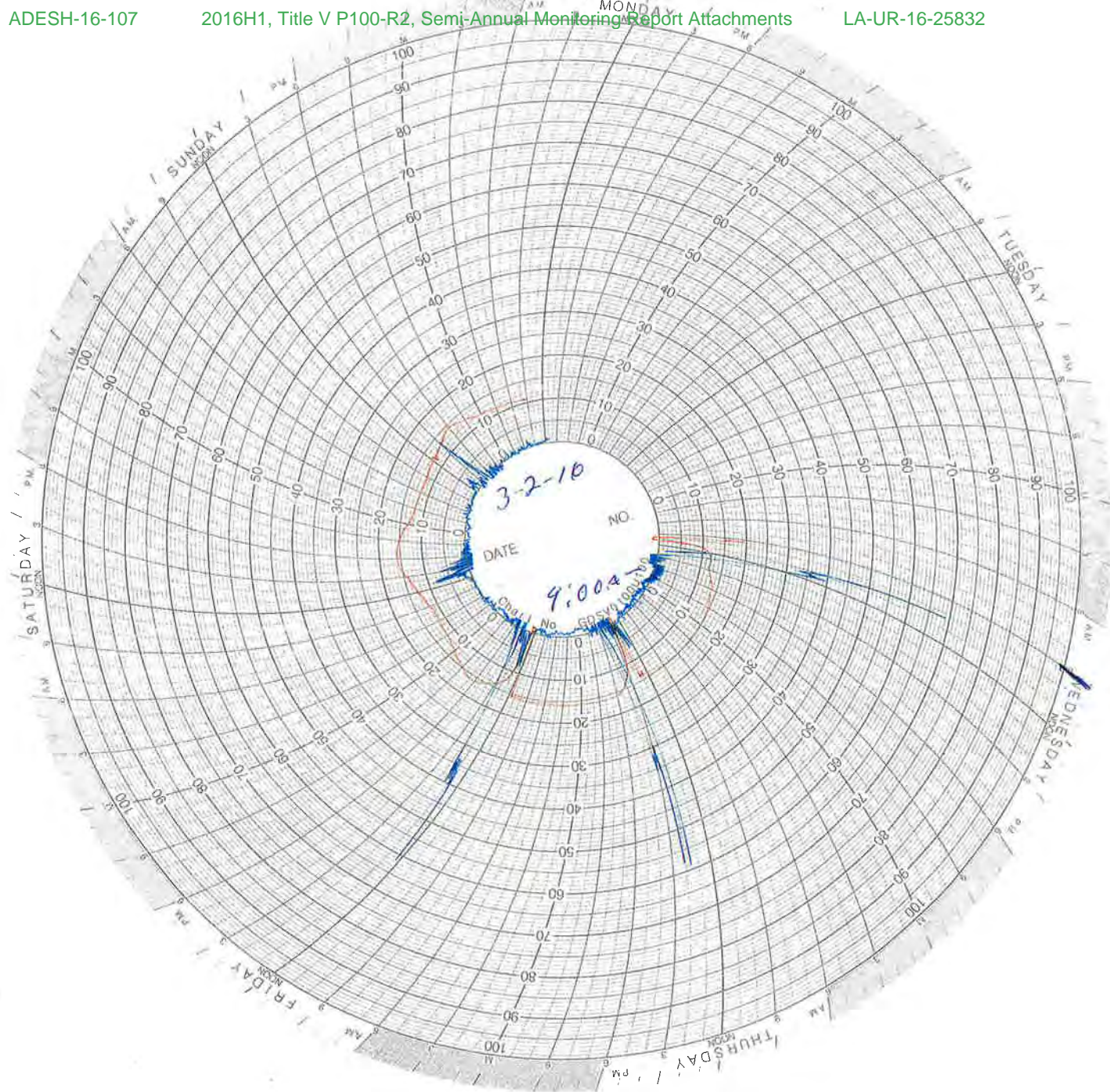


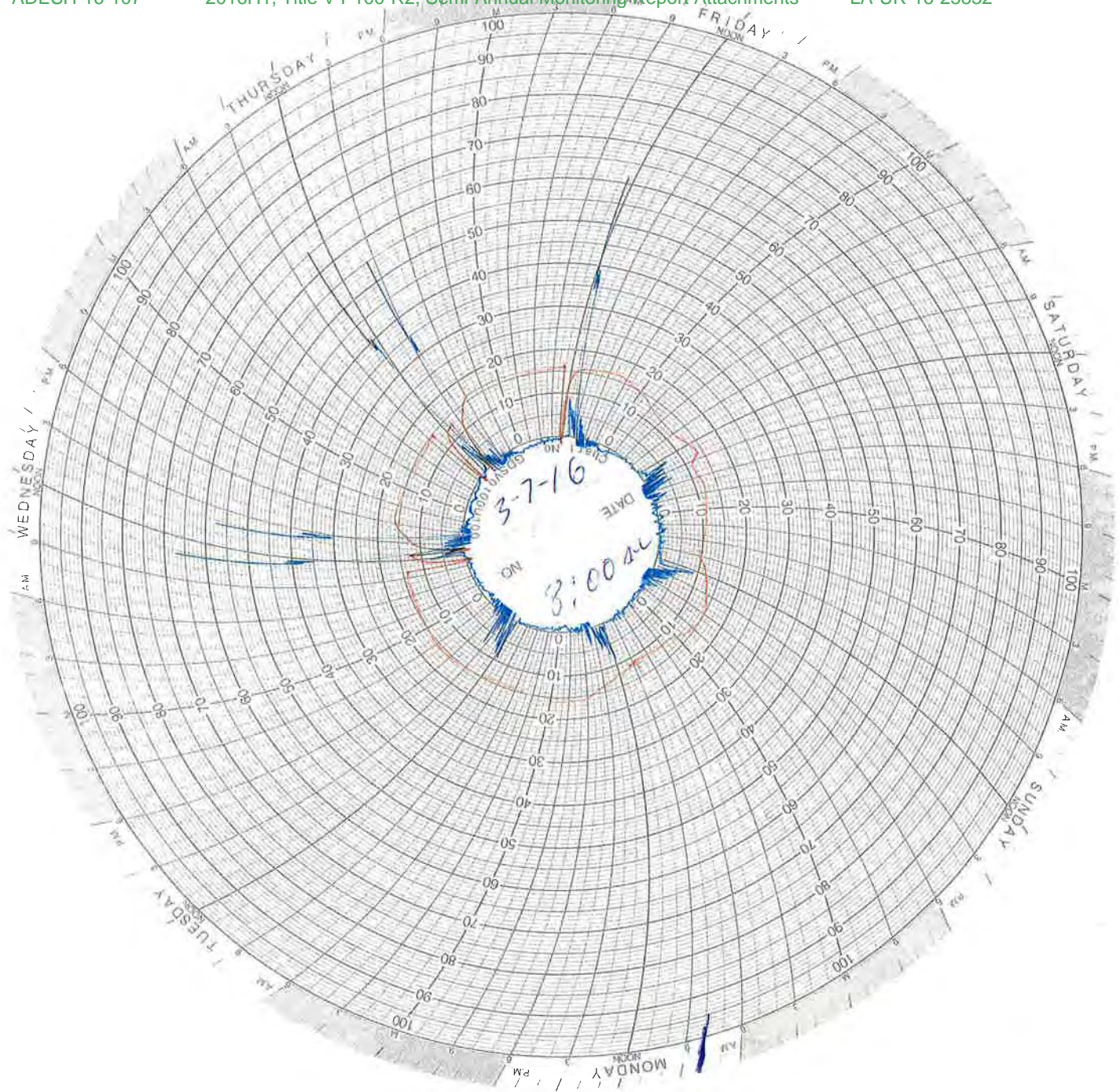


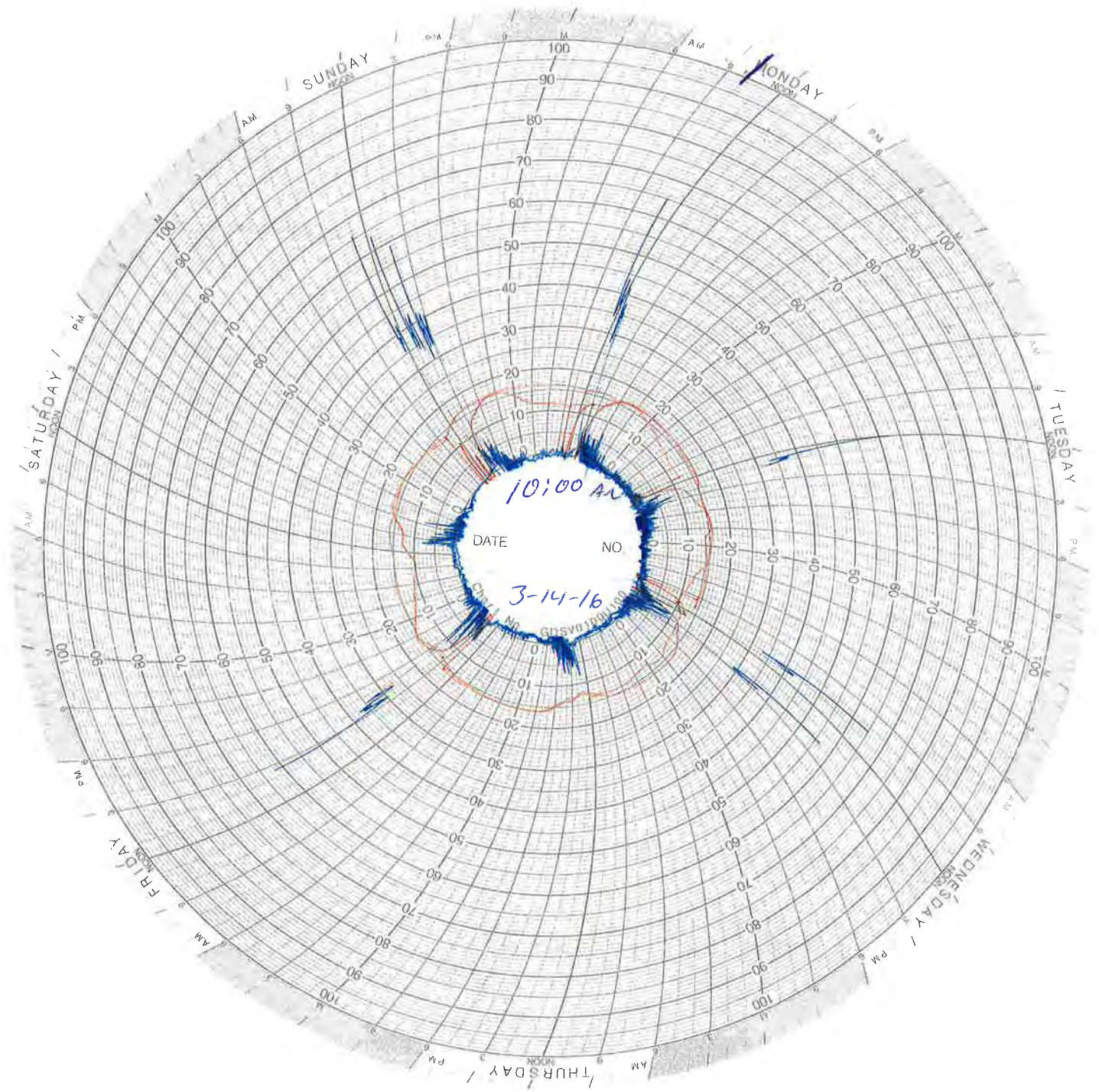


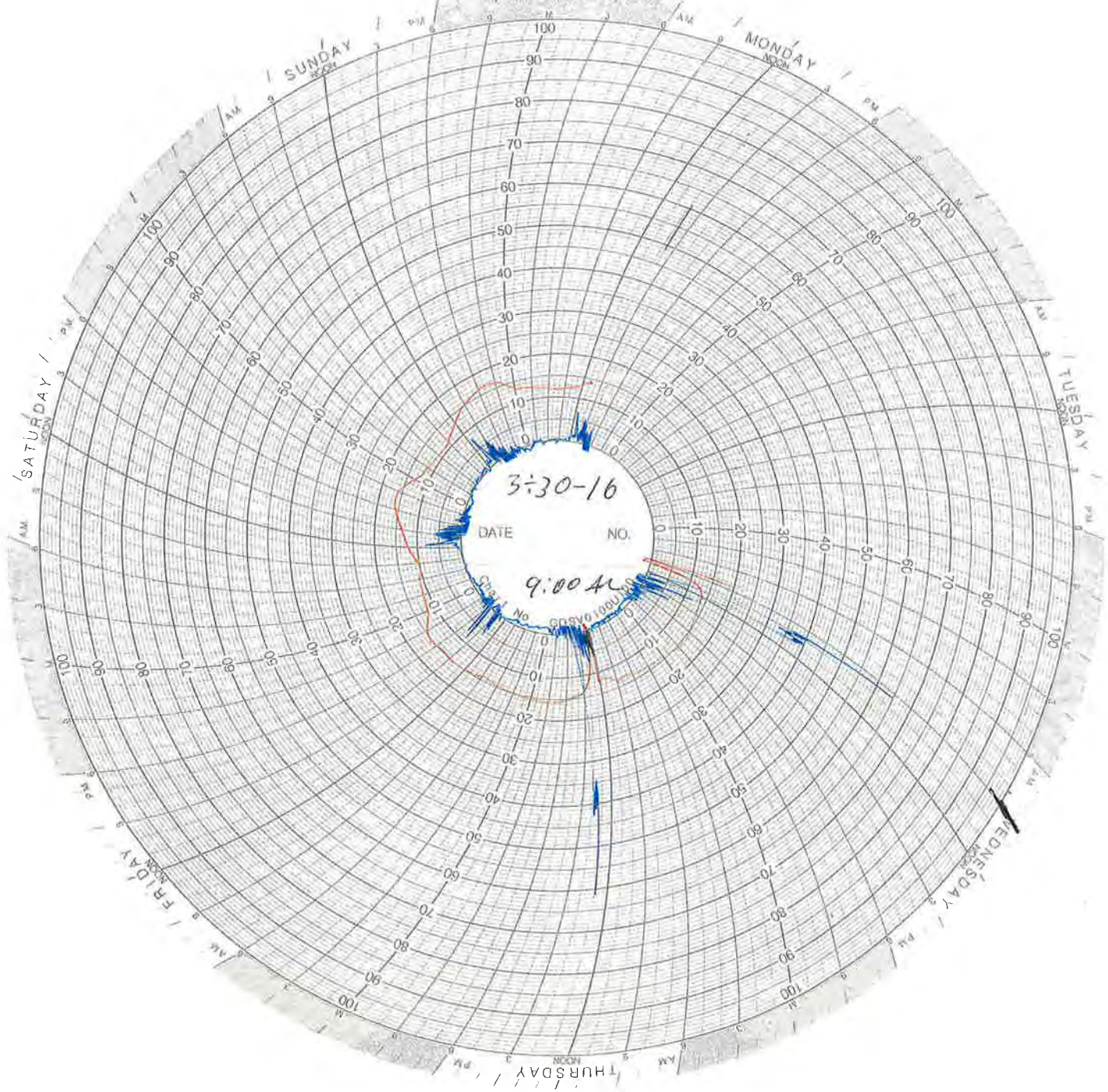


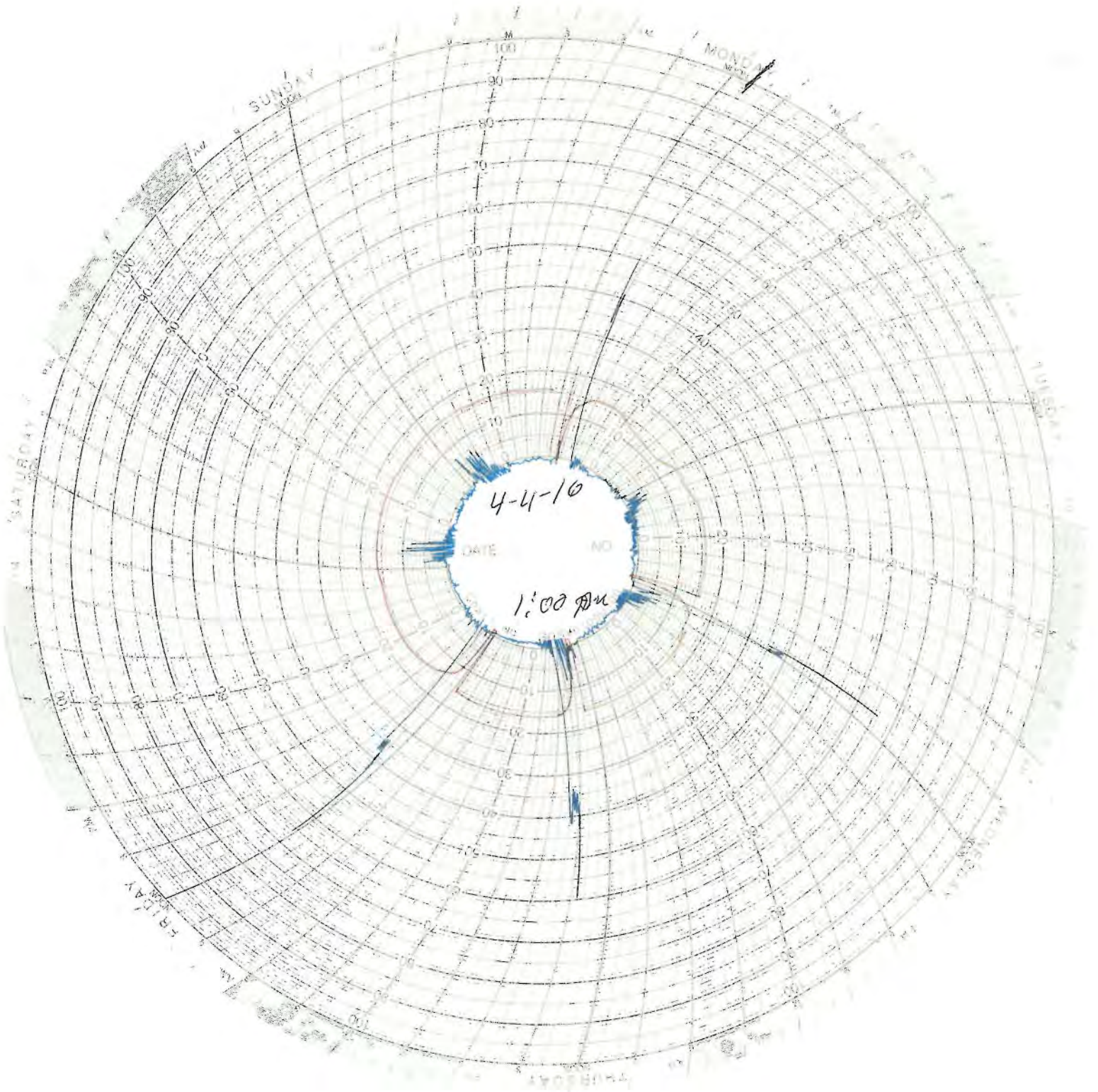


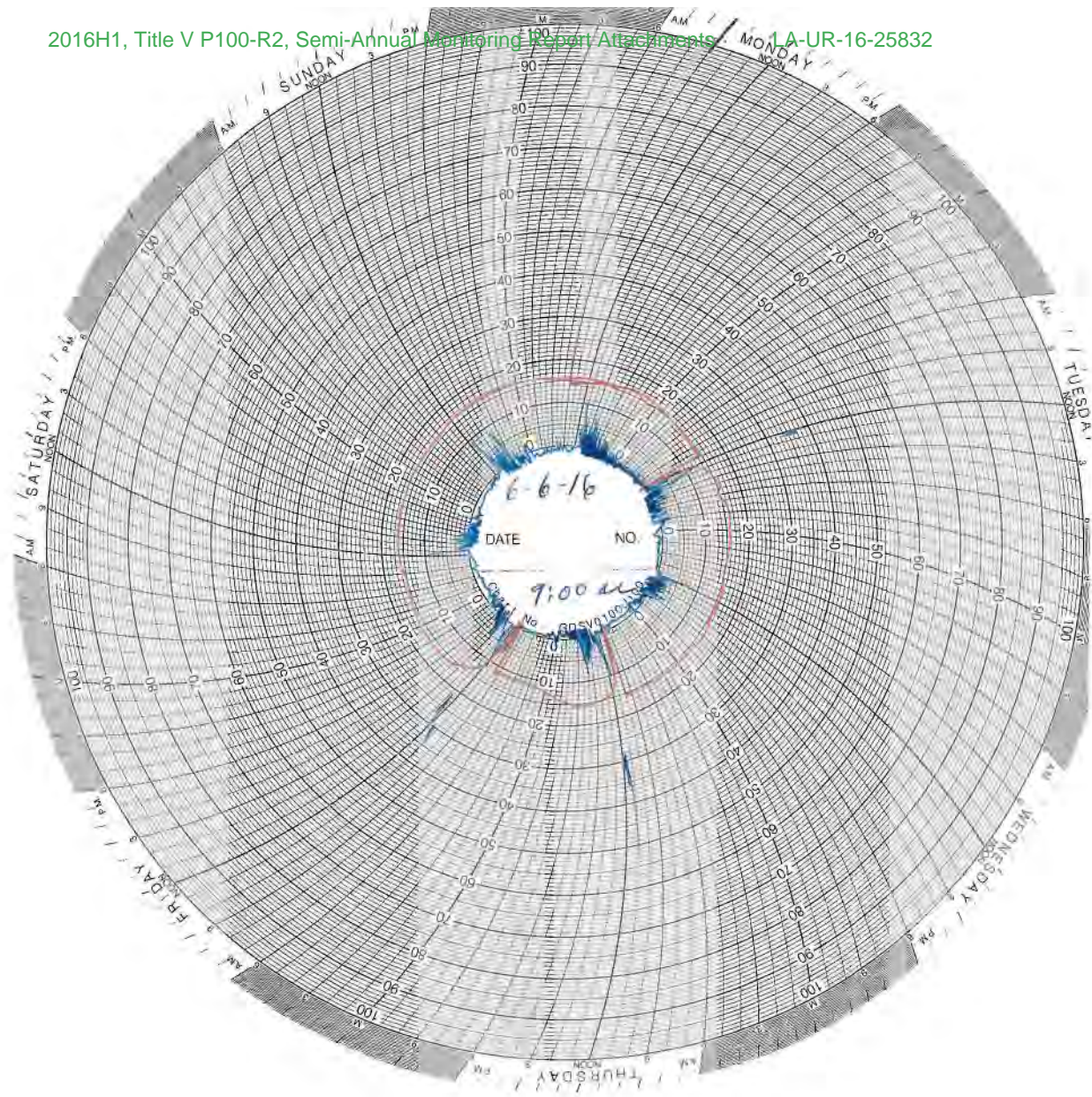




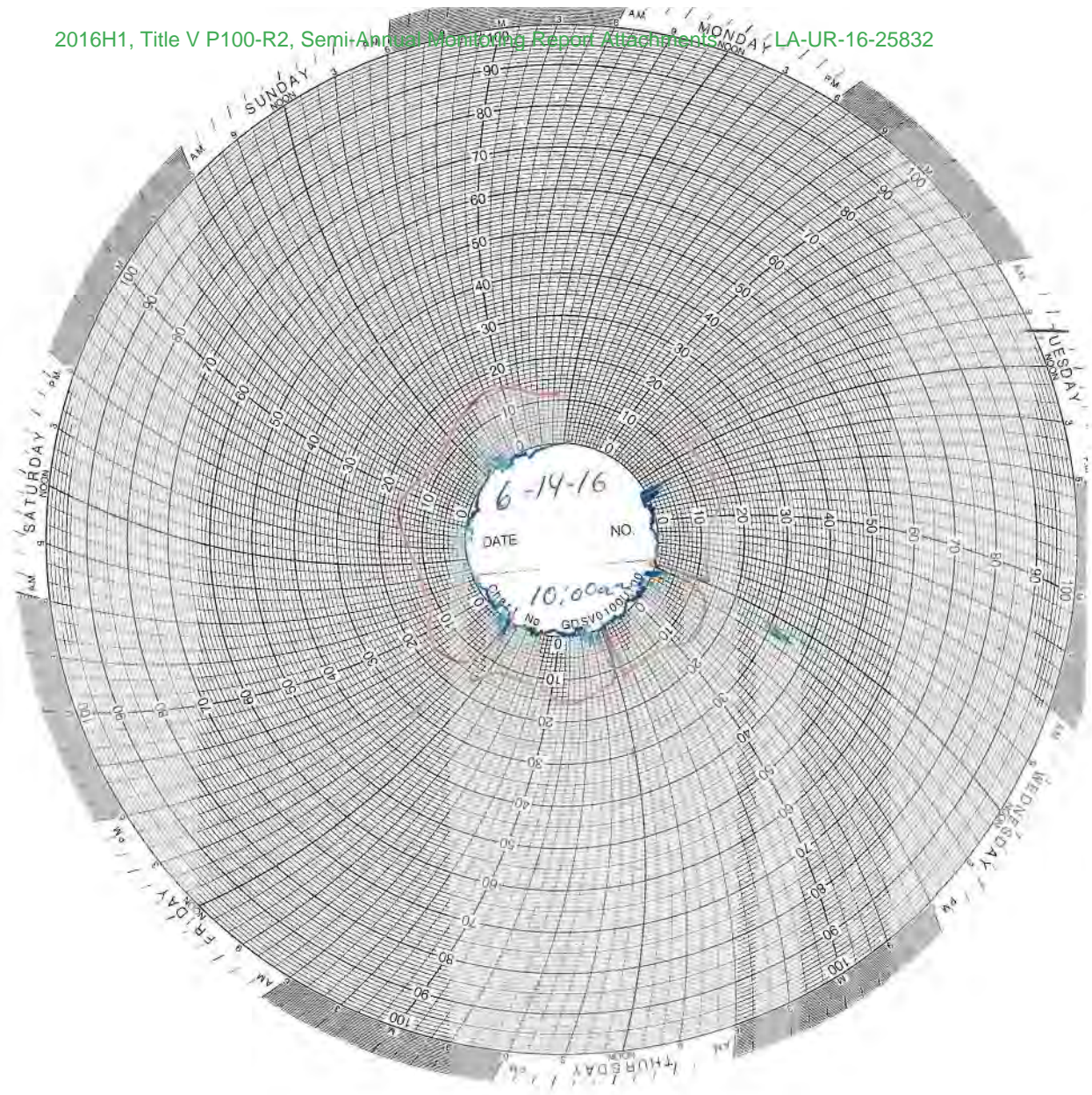


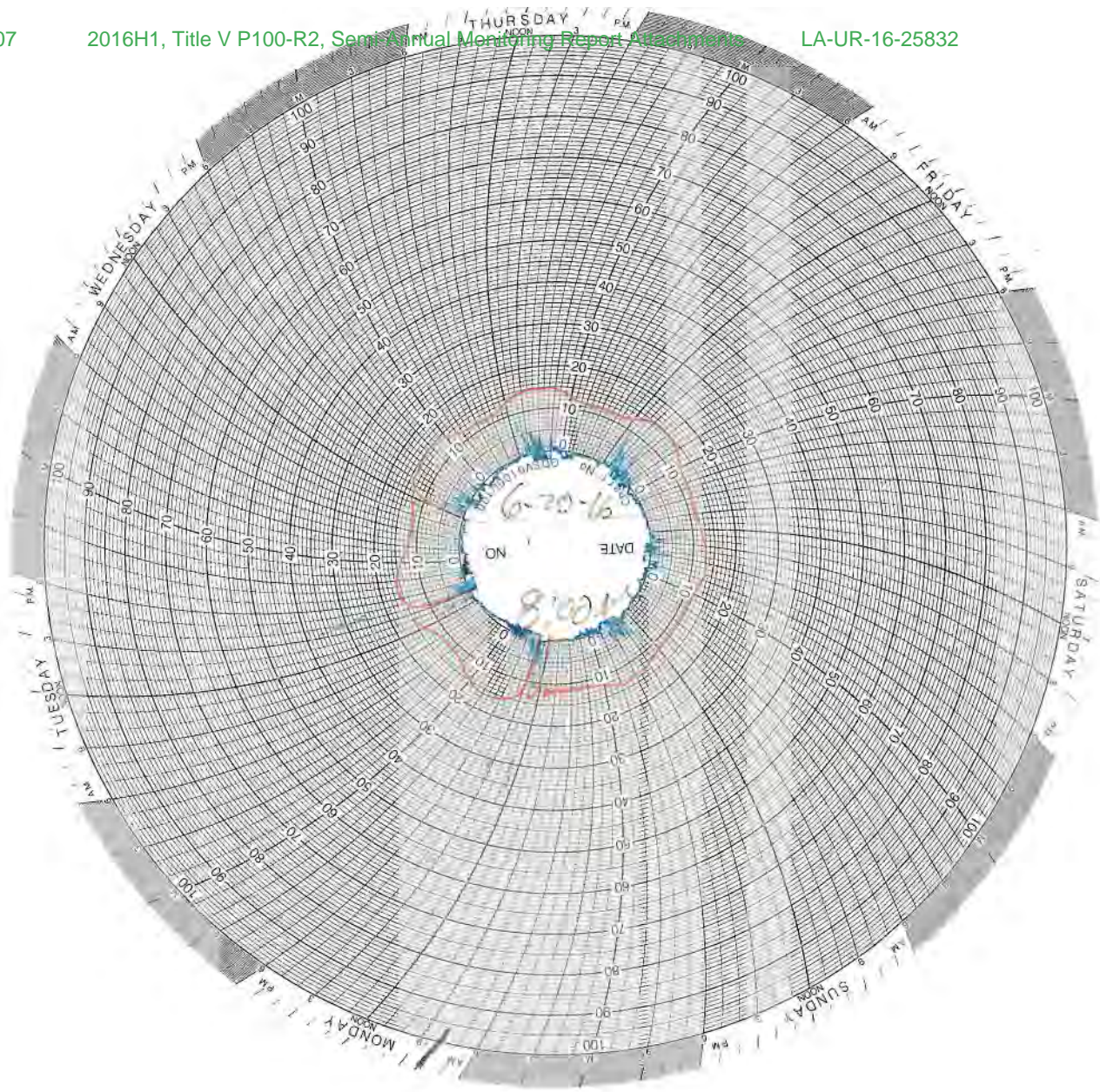


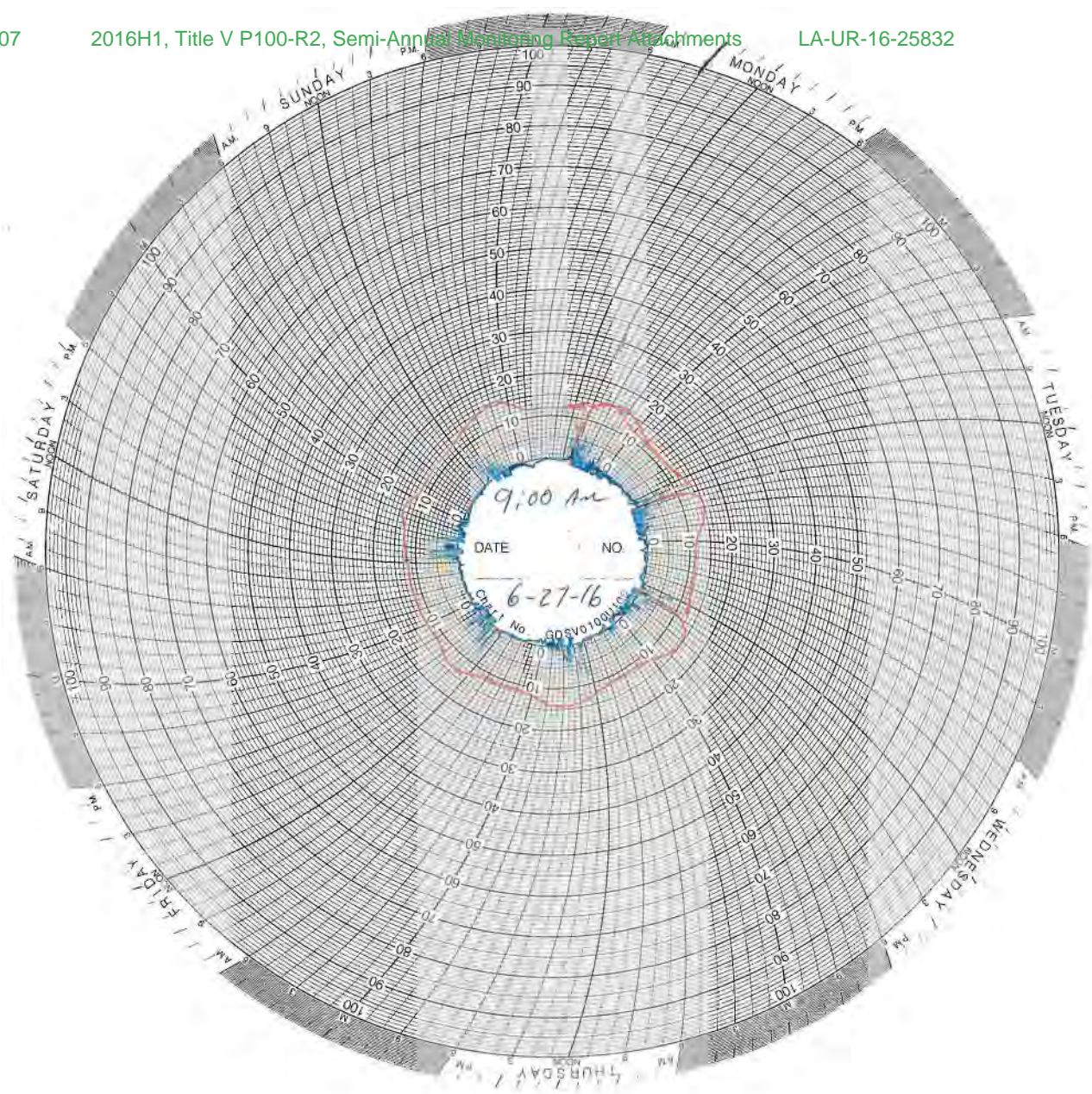












# **ATTACHMENT A607.C.**

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 (LANL)  
VISIBLE EMISSION OBSERVATION FORM (6 MINUTE)

Source Name: TA 60 Asphalt Batch Plant

Source Location: TAGO-233

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  Coaling  
 No Plume Present

Emission Color: N/A | Plume Type:  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 Stack Top

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

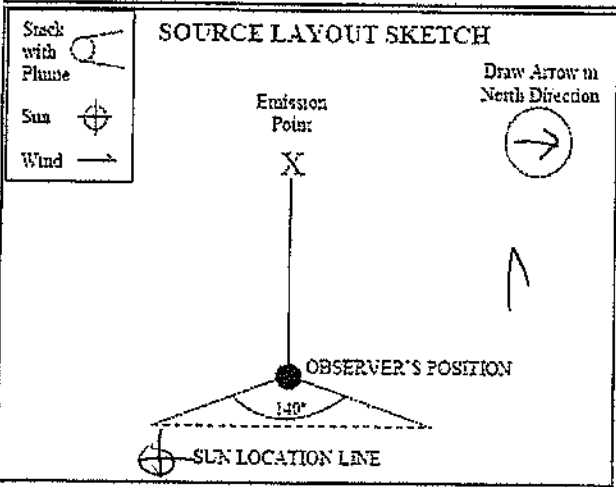
Background Color: Blue | Sky Conditions: Clear

Wind Speed: 5-10 mph | Wind Direction: From E

Ambient Temperature: 50 °F | Relative Humidity: 31 %

Additional Comments/Information:

Observation Date		Start Time		End Time	Comments
2/10/16		10:35		10:41 AM	
Min	Sec	0	15	30	45
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					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					



Average 6-Minute Opacity: 0

Range of Opacity Readings: Min. 0 Max. 0

OBSERVER (please print):  
 Name: C. Heintschel | Title: DEP  
 Signature: | Date: 2/10/16  
 Observer Organization: DESHS-VLS  
 Certified by: ETA | Certification Date: 8/26/15

THIS FORM IS FROM EAQ-307, R4

Lab Home | Phone | Search

Date: Wednesday, February 10, 2016 | Time: 10:56 MST (17:56 UTC)

# The Weather Machine

LOS ALAMOS NATIONAL LABORATORY

LANL Observations | Regional/U.S. Observations | Forecast Products | LANL Climatology | Data Requests

LANL Observations > Table Summaries

The table below provides a snapshot of current conditions at each tower location. Wind variables are measured at 11 meters above the ground (36 meters at PJMT) and the atmospheric state variables (temperature, humidity, and pressure) are measured at 1.2 meters above the ground (2 meters at PJMT).

Other Text Summaries Available: 15-Minute Short Summary (English)

Current Observations:	English   Metric			
	TA6	TA49	TA53	TA54
Tower (tower)				
Date (mm/dd)	02/10	02/10	02/10	02/10
Time (hhmm)	1045	1045	1045	1045
Wind Speed (mph)	2.7	4.0	4.7	5.6
Wind Direction (deg)	70	148	20	44
Max Gust (mph)	9.2	14.3	13.6	13.0
Max Gust Direction (deg)	343	14	6	34
Time of Max Gust (hhmm)	245	900		830
Temperature (deg-F)	48.0	46.0	43.5	43.3
Max Temp Since Midnight (deg-F)	48.0	46.2	43.5	43.3
Time of Max Temp (hhmm)	1045	1030	1045	1045
Min Temp Since Midnight (deg-F)	33.6	30.0	29.3	24.6
Time of Min Temp (hhmm)	645	715	645	715
Pressure (mb)	784.2	-	-	810.0
Relative Humidity (%)	31	39	37	38
Dew Point Temperature (deg-F)	19.0	22.8	19.2	19.6
Precip Last 15 Minutes (in)	0.00	0.00	0.00	0.00
Precip Since Midnight (in)	0.00	0.00	0.00	0.00
Downwelling Shortwave (BTU/hr*ft^2)	209	195	205	203
windchill (deg-C )	8.8	6.8	4.9	4.4

NOTE: All times are reported in Mountain Standard Time (MST).

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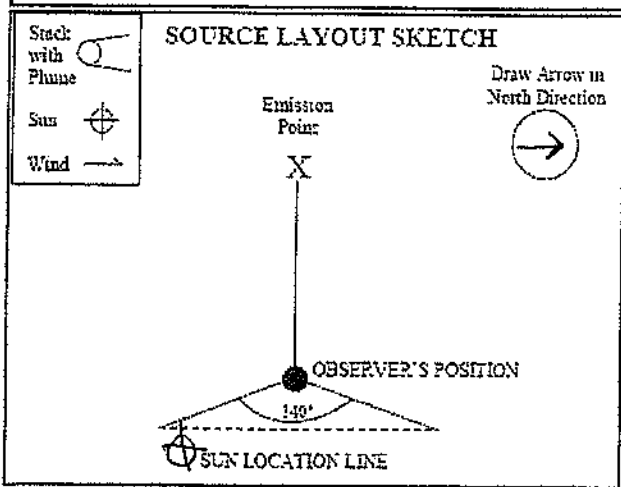
ENV-EAQ-307, R4 Attachment 2, page 1 of 1	Ecology and Air Quality Los Alamos National Laboratory
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**LOS ALAMOS NATIONAL LABORATORY (LANL)  
VISIBLE EMISSION OBSERVATION FORM (6 MINUTE)**

Source Name: <b>TA60 Asphalt Batch Plant</b>	
Source Location: <b>TA60-233</b>	
Type of Source: <b>Asphalt Plant</b>	Type of Control Equipment: <b>Bag House</b>
Describe Emission Point (Top of stack, etc.): <b>Baghouse Stack</b>	
Height Above Ground Level: <b>33</b> Feet	Height Relative to Observer: <b>27</b> Feet
Distance From Observer: <b>75</b> Feet	Direction of Source From Observer: <b>West</b>
Descriptor of Plume (stack exit only) <input type="checkbox"/> Lifting <input type="checkbox"/> Trapping <input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coiling <input checked="" type="checkbox"/> No Plume Present	
Emission Color: <b>NA</b>	Plume Type: <input checked="" type="checkbox"/> No Plume Present <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent
Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached	
At what point in the plume was opacity determined? <b>2' Above Stack Top</b>	
Describe Background (i.e. blue sky, trees, etc.): <b>Clear Blue Sky</b>	
Background Color: <b>Blue</b>	Sky Conditions: <b>Clear</b>
Wind Speed: <b>5-10</b> mph	Wind Direction: (provide front-to, i.e. from North to South) <b>From NW</b>
Ambient Temperature: <b>50</b> °F	Relative Humidity: <b>26</b> %
Additional Comments/Information:	

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



Average 6-Minute Opacity: <b>∅</b>	Range of Opacity Readings Min. <b>∅</b> Max. <b>∅</b>
OBSERVER (please print) Name: <b>C. Heintschel</b> Title: <b>DEP</b>	
Signature: 	Date: <b>2/18/16</b>
Observer Organization: <b>DESIS-UVS</b>	
Certified by: <b>ETA</b>	Certification Date: <b>8/26/15</b>

THIS FORM IS FROM EAQ-307, R4

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Date: Thursday, February 18, 2016 | Time: 09:14 MST (16:14 UTC)

# The Weather Machine

LOS ALAMOS NATIONAL LABORATORY

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- Regional/U.S. Observations ▾
- Forecast Products ▾
- LANL Climatology ▾
- Data Requests ▾

LANL Observations > Table Summaries

The table below provides a snapshot of current conditions at each tower location. Wind variables are measured at 11 meters above the ground (36 meters at PJMT) and the atmospheric state variables (temperature, humidity, and pressure) are measured at 1.2 meters above the ground (2 meters at PJMT).

Other Text Summaries Available: 15-Minute Short Summary (English) ▾

Current Observations:	English   <a href="#">Metric</a>			
Tower (tower)	<a href="#">TA6</a>	<a href="#">TA49</a>	<a href="#">TA53</a>	<a href="#">TA54</a>
Date (mm/dd)	02/18	02/18	02/18	02/18
Time (hhmm)	0900	0900	0900	0900
Wind Speed (mph)	4.5	9.6	6.3	11.9
Wind Direction (deg)	97	173	169	193
Max Gust (mph)	17.7	15.7	15.7	18.8
Max Gust Direction (deg)	266	173	199	193
Time of Max Gust (hhmm)	830	900	130	900
Temperature (deg-F)	54.0	50.4	51.4	52.2
Max Temp Since Midnight (deg-F)	54.7	50.4	51.4	52.2
Time of Max Temp (hhmm)	845	900	900	900
Min Temp Since Midnight (deg-F)	39.9	40.5	43.5	35.2
Time of Min Temp (hhmm)	615	600	530	600
Pressure (mb)	775.5	-	-	800.6
Relative Humidity (%)	25	29	26	26
Dew Point Temperature (deg-F)	19.6	19.6	18.0	18.5
Precip Last 15 Minutes (in)	0.00	0.00	0.00	0.00
Precip Since Midnight (in)	0.00	0.00	0.00	0.00
Downwelling Shortwave (BTU/hr*ft^2)	136	115	128	128
windchill (deg-C )	11.8	8.1	9.6	8.9

NOTE: All times are reported in Mountain Standard Time (MST).



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ENV-EAQ-307, R4  
Attachment 2, page 1 of 1

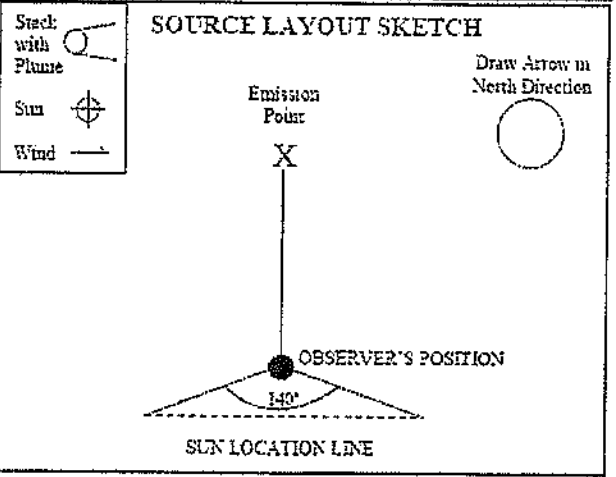
Ecology and Air Quality  
Los Alamos National Laboratory



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

Source Name: TAGO Asphalt Batch Plant  
 Source Location: TAGO-233  
 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  Coaling  
 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 Stack Top  
 Describe Background (i.e. blue sky, trees, etc.): Clear Blue Sky  
 Background Color: Blue Sky | Sky Conditions: Clear  
 Wind Speed: Var mph | Wind Direction: From W  
 Ambient Temperature: 57 °F | Relative Humidity: 18 %  
 Additional Comments/Information:

Observation Date		Start Time		End Time	Comments
3/2/2016		10:05		10:11	
Min	Sec	0	15	30	45
	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					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					



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

OBSERVER (please print):  
 Name: C. Heintschel | Title: DEP  
 Signature: | Date: 3/2/2016  
 Observer Organization: DESHS-VIS  
 Certified by: ETA | Certification Date: 2/25/2016

THIS FORM IS FROM EAQ-307, R4

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Date: Wednesday, March 2, 2016 | Time: 13:32 MST (20:32 UTC)

# The Weather Machine

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**LANL Observations > Table Summaries**

The table below provides a snapshot of current conditions at each tower location. Wind variables are measured at 11 meters above the ground (36 meters at PJMT) and the atmospheric state variables (temperature, humidity, and pressure) are measured at 1.2 meters above the ground (2 meters at PJMT).

**Other Text Summaries Available:** [15-Minute Short Summary \(English\)](#)

Current Observations:	English   <a href="#">Metric</a>			
Tower (tower)	<a href="#">TA6</a>	<a href="#">TA49</a>	<a href="#">TA53</a>	<a href="#">TA54</a>
Date (mm/dd)	03/02	03/02	03/02	03/02
Time (hhmm)	1315	1315	1315	1315
Wind Speed (mph)	19.5	23.3	24.4	19.9
Wind Direction (deg)	315	285	295	282
Max Gust (mph)	34.4	42.5	43.8	35.8
Max Gust Direction (deg)	303	285	293	282
Time of Max Gust (hhmm)	1245	1315	1300	1315
Temperature (deg-F)	60.1	61.0	60.4	63.3
Max Temp Since Midnight (deg-F)	60.4	61.7	60.4	63.5
Time of Max Temp (hhmm)	1215	1300	1215	1230
Min Temp Since Midnight (deg-F)	37.9	39.7	40.6	36.1
Time of Min Temp (hhmm)	400	415	415	615
Pressure (mb)	774.1	-	-	798.2
Relative Humidity (%)	18	17	15	15
Dew Point Temperature (deg-F)	17.2	16.9	14.0	15.3
Precip Last 15 Minutes (in)	0.00	0.00	0.00	0.00
Precip Since Midnight (in)	0.00	0.00	0.00	0.00
Downwelling Shortwave (BTU/hr*ft^2)	258	259	268	269
Wind Chill (deg-F)	57.0	57.6	56.7	61.0

**NOTE:** All times are reported in Mountain Standard Time (MST).

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ENV-EAQ-307, R4  
Attachment 2, page 1 of 1

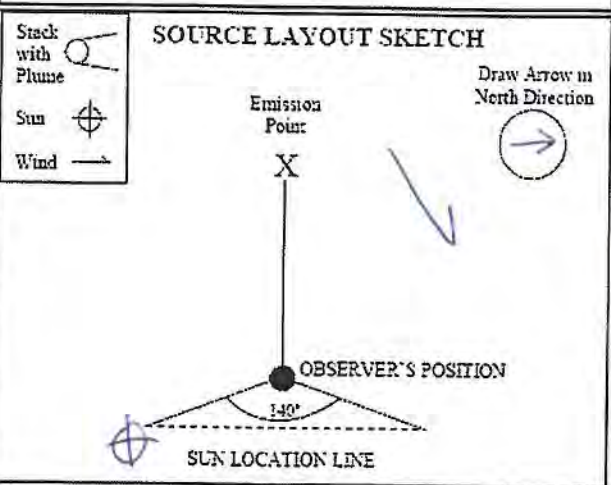
Ecology and Air Quality  
Los Alamos National Laboratory



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

Source Name: TAGO Asphalt Batch Plant	
Source Location: TAGO-233	
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) <input type="checkbox"/> Lofting <input type="checkbox"/> Trapping <input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coiling <input checked="" type="checkbox"/> No Plume Present	
Emission Color: N/A	Plume Type: <input checked="" type="checkbox"/> No Plume Present <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent
Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached	
At what point in the plume was opacity determined? 2' Above Stack top	
Describe Background (i.e. blue sky, trees, etc.): Blue/Grey Sky	
Background Color: Blue/Grey	Sky Conditions: Partly Cloudy
Wind Speed: 10-15 mph	Wind Direction: (provide from/to, i.e. from North to South) From SW
Ambient Temperature: 50 °F	Relative Humidity: 50-25 %
Additional Comments/Information:	

Observation Date		Start Time				End Time
4/12/16		14:01				14:07
Min	Sec	0	15	30	45	Comments
1		φ	φ	φ	φ	
2		φ	φ	φ	φ	
3		φ	φ	φ	φ	
4		φ	φ	φ	φ	
5		φ	φ	φ	φ	
6		φ	φ	φ	φ	
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						



Average 6-Minute Opacity: φ	Range of Opacity Readings Min: φ Max: φ
OBSERVER (please print) Name: C. Heintschel Title: DEP	
Signature: 	Date: 4/12/16
Observer Organization: DESHS-UIS	
Certified by: ETA	Certification Date: 2/25/16

THIS FORM IS FROM EAQ-307, R4

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Date: Tuesday, April 12, 2016 | Time: 08:27 MDT (14:27 UTC) | [Time Note »](#)

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LANL Observations > Table Summaries

The table below provides a snapshot of current conditions at each tower location. Wind variables are measured at 11 meters above the ground (36 meters at PJMT) and the atmospheric state variables (temperature, humidity, and pressure) are measured at 1.2 meters above the ground (2 meters at PJMT).

Other Text Summaries Available: [15-Minute Short Summary \(English\)](#)

Current Observations:	English   <a href="#">Metric</a>			
Tower (tower)	<a href="#">TA6</a>	<a href="#">TA49</a>	<a href="#">TA53</a>	<a href="#">TA54</a>
Date (mm/dd)	04/12	04/12	04/12	04/12
Time (hhmm)	0715	0715	0715	0715
Wind Speed (mph)	3.8	1.1	4.7	3.4
Wind Direction (deg)	182	201	176	211
Max Gust (mph)	9.2	8.5	14.8	12.1
Max Gust Direction (deg)	225	218	196	232
Time of Max Gust (hhmm)	145	430		15
Temperature (deg-F)	41.9	40.8	41.5	41.5
Max Temp Since Midnight (deg-F)	41.9	40.8	41.5	41.5
Time of Max Temp (hhmm)	715	715	715	715
Min Temp Since Midnight (deg-F)	35.2	34.5	37.9	35.2
Time of Min Temp (hhmm)	130	130	115	600
Pressure (mb)	778.8	-	-	804.1
Relative Humidity (%)	75	77	74	78
Dew Point Temperature (deg-F)	34.7	34.3	34.0	35.2
Precip Last 15 Minutes (in)	0.00	0.00	0.00	0.00
Precip Since Midnight (in)	0.00	0.00	0.00	0.00
Downwelling Shortwave (BTU/hr*ft^2)	82	38	68	56
windchill (deg-C)	4.2	4.9	3.6	4.3

NOTE: All times are reported in Mountain Standard Time (MST).

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Permit P100-R2 Conditions A607.C. and A607.G.

The asphalt batch plant did not operate during May 2016.

No opacity measurements were taken.

ENV-EAQ-307, R4  
Attachment 2, page 1 of 1

Ecology and Air Quality  
Los Alamos National Laboratory



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

Source Name: TA60 Asphalt Batch Plant

Source Location: TA60-233

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  Coiling  
 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?  
2' Above Stack Top

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

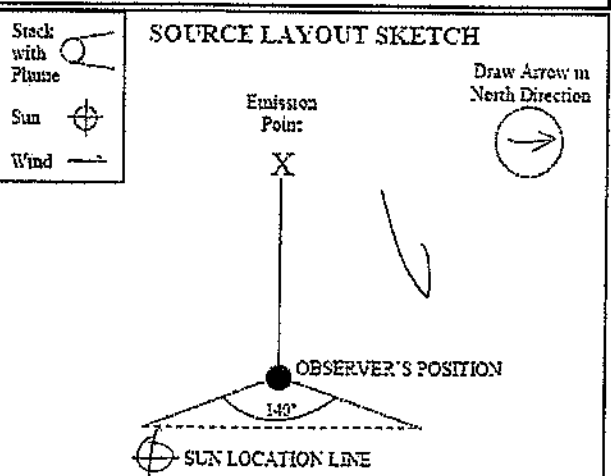
Background Color: Blue Sky Conditions: Clear

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

Ambient Temperature: 78 °F Relative Humidity: 24 %

Additional Comments/Information:

Observation Date		Start Time				End Time
6/7/2016		10:56				11:02
Min	Sec	0	15	30	45	Comments
	1		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						
8						
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10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						



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

OBSERVER (please print):  
 Name: Coltaints chel Title: DEP

Signature: Date: 6/7/2016

Observer Organization: DESHS - UHS

Certified by: ETA Certification Date: 2/25/16

THIS FORM IS FROM EAQ-307, R4

# **ATTACHMENT A607.E.**

## Asphalt Plant

### Daily Operation Log and 12-Month Rolling Production

**2016 TA-60 BDM Asphalt Plant**

Data Reviewed By / Date: Sonia Salzman, July 12, 2016

Data Entry		Data Entry		Annual Hours					
Month	Asphalt Produced (Tons)	12-Month Rolling Total	Month	Asphalt Produced (Tons)	12-Month Rolling Total	Month	Hours	Month	Hours
January	5	445	July			Jan	1.3	Jul	
February	30	461	August			Feb	6.2	Aug	
March	142	546	September			Mar	10.3	Sep	
April	75	560	October			Apr	5.6	Oct	
May	0	528	November			May	0.0	Nov	
June	89	617	December			Jun	6.9	Dec	
<b>6 mo. Total</b>	<b>341</b>		<b>6 mo. Total:</b>	<b>0</b>		<b>Total:</b>	<b>30.2</b>	<b>Total:</b>	<b>0.0</b>

**12-Month Rolling Production Permit Limit is 6,000 Tons**

Annual Total (to date): **30.24** Hours

**Hours are Limited to 4,380 per Year**

**2016 Asphalt Produced (Tons): 341**



### DAILY TA-60 ASPHALT PLANT REQUIRED READINGS

Date	Actual Hours of Operation			Asphalt Production Rate (tons per day)	Number of Truck Trips (# trips made to plant)	Pressure Drop Across Baghouse (Two Readings Required per Day)				Name (Person Taking Reading)
	Start Time	End Time	Total			Start pressure	Time	End pressure	Time	
1-19-16	1:47	2:16	0.57	3	1	3.87	1:58	3.71	2:10	Leslie
1-20-16	12:40	1:24	0.73	2	1	3.77	12:52	3.74	1:16	Leslie
Jan 2016										
TOTAL			1.3 hrs	5 tons	2 trips					

This record is required by the asphalt plant air permit must be kept for a minimum of 5 years. Operation is limited to 1/2 hour after sunrise to 1/2 hour before sunset.

Revised June 25, 2009

Feb 2016

DAILY TA-60 ASPHALT PLANT REQUIRED READINGS

Date	Actual Hours of Operation		Asphalt Production Rate (tons per day)	Number of Truck Trips (# trips made to plant)	Pressure Drop Across Baghouse (Two Readings Required per Day)			Name (Person Taking Reading)	
	Start Time	End Time			Total	Start pressure	Time		End pressure
2-9-16	10:57	11:41	0.73	3	3.63	11:14	3.58	11:38	Leslie
2-9-16	1:10	1:38	0.47	3	2.98	1:24	2.92	1:32	Leslie
2-10-16	10:24	10:55	0.52	2	3.53	10:37	3.22	10:44	Leslie
2-10-16	12:44	1:09	0.42	2	3.41	12:58	3.34	1:05	Leslie
2-11-16	9:37	10:10	0.55	2	4:27	9:50	4:05	9:58	Leslie
2-11-16	12:15	12:48	0.55	2	3.27	12:26	3.07	12:37	Leslie
2-12-16	9:14	9:50	0.60	3	4.70	9:32	3.05	9:42	Leslie
2-16-16	10:28	10:59	0.52	2	3.46	10:40	3.41	10:52	Leslie
2-17-16	10:27	11:05	0.47	3	3.66	10:53	3.91	11:00	Leslie
2-18-16	9:34	9:59	0.42	3	3.89	7:44	3.98	9:50	Leslie
2-18-16	1:17	1:42	0.42	2	3.22	1:31	3.48	1:39	Leslie
2-22-16	10:34	11:05	0.52	2	3.23	10:40	3.22	10:51	Leslie
Monthly Total			6.17 hours	30 trips					
				12 trips					
				tons					

Revised June 25, 2009

This record is required by the asphalt plant air permit must be kept for a minimum of 5 years. Operation is limited to 1/2 hour after sunrise to 1/2 hour before sunset.

**DAILY TA-60 ASPHALT PLANT REQUIRED READINGS**

Date	Actual Hours of Operation		Asphalt Production Rate (tons per day)	Number of Truck Trips (# trips made to plant)	Pressure Drop Across Baghouse (Two Readings Required per Day)				Name (Person Taking Reading)
	Start Time	End Time			Total	Start pressure	Time	End pressure	
3-2-16	9:53	10:37	13	1	3.55	10:18	3.53	10:30	Leslie
3-3-16	1:12	1:38	3	1	3.22	1:19	3.21	1:30	Leslie
3-4-16	11:11	11:58	9	1	3.61	11:35	3.80	11:52	Leslie
3-9-16	10:05	10:30	3	1	3.92	10:19	3.49	10:26	Leslie
3-9-16	12:50	1:11	3	1	3.62	12:59	3.13	1:08	Leslie
3-10-16	9:34	10:00	3	1	3.83	9:48	3.89	9:53	Leslie
3-10-16	1:12	1:30	2	1	3.37	1:21	3.14	1:26	Leslie
3-11-16	10:49	10:30	3	1	3.71	10:22	3.89	10:29	Leslie
3-14-16	10:10	11:13	17	1	3.64	10:35	3.67	10:55	Leslie
3-15-16	1:09	1:42	3	1	3.56	1:23	3.49	1:29	Leslie
3-16-16	9:23	9:47	3	1	3.09	9:38	4.04	9:44	Leslie
3-16-16	12:47	1:15	3	1	2.92	12:57	3.49	1:02	Leslie
3-18-16	1:15	2:13	19	1	3.53	1:41	2.91	2:05	Leslie
3-20-16	10:29	11:15	20	1	4.05	11:00	3.69	11:14	Leslie
3-20-16	11:44	12:36	20	1	3.23	12:03	3.50	12:26	Leslie
3-30-16	9:16	10:14	174	1	3.86	9:52	3.72	10:04	Leslie
3-31-16	12:34	1:06	4	1	3.62	12:48	3.77	12:55	Leslie
Monthly total			10.3 hrs	17	t.F.P.S				Leslie
Total =			142 TONS						

Revised June 25, 2009

This record is required by the asphalt plant air permit must be kept for a minimum of 5 years. Operation is limited to 1/2 hour after sunrise to 1/2 hour before sunset.

April 2016

DAILY TA-60 ASPHALT PLANT REQUIRED READINGS

Date	Actual Hours of Operation		Asphalt Production Rate (tons per day)	Number of Truck Trips (# trips made to plant)	Pressure Drop Across Baghouse (Two Readings Required per Day)				Name (Person Taking Reading)
	Start Time	End Time			Total	Start pressure	Time	End pressure	
4-4-16	1:10	1:25	0.42	1	3.80	1:15	3.91	1:29	Leslie
4-6-16	9:44	10:19	0.58	1	3.77	10:03	3.70	10:15	Leslie
4-7-16	1:01	2:08	1.12	1	3.60	1:38	3.78	1:51	Leslie
4-8-16	10:46	11:38	0.87	1	3.84	11:03	3.54	11:30	Leslie
4-11-16	1:13	2:10	0.95	1	3.51	1:46	3.34	1:55	Leslie
4-12-16	12:55	1:44	0.82	1	3.62	1:20	3.88	1:33	Leslie
4-13-16	10:09	10:43	0.57	1	3.84	10:26	3.77	10:34	Leslie
4-14-16	10:31	10:49	0.30	0	3.92	10:34	3.84	10:45	Leslie
4-15-16									
Total				7					
			5.62	75					
			hours	tons					
				trips					

Revised June 25, 2009

This record is required by the asphalt plant air permit must be kept for a minimum of 5 years. Operation is limited to 1/2 hour after sunrise to 1/2 hour before sunset.

*NO Run in May*

*Leslie*

Logistics Division  
 Asphalt Batch Plant Operations  
 41-20-001.2: Asphalt Batch Plant Daily Operating Log

Date	Hours of Operation			Asphalt Produced (tons)	Number of Truck Trips to Plant	Haul Road Swept? (check one)		Pressure Drop Across Baghouse				Operator's Initials (Person Taking Readings)	
	Start Time	End Time	Total (hrs.)			Yes	No	Pressure	Start Time	End Time	Pressure		Time

Operation of the plant is limited to 1/2 hour after sunrise to 1/2 hour before sunset.

The data in this log is required by NIMED Title V Operating Permit (Air Quality) and must be maintained on site for a minimum of 5 years.  
 41-20-001.2 Rev. 1 Approval Date: 01/12/2016

Logistics Division  
Asphalt Batch Plant Operations  
41-20-001.2: Asphalt Batch Plant Daily Operating Log

Date	Hours of Operation			Asphalt Produced (tons)	Number of Truck Trips to Plant	Haul Road Swept? (check one)		Pressure Drop Across Baghouse				Operator's Initials (Person Taking Readings)
	Start Time	End Time	Total (hrs.)			Yes	No	Start		End		
								Pressure	Time	Pressure	Time	
6-7-16	10:50	11:17	0:15	5	1			3.45	11:00	3.20	11:06	Leslie
6-9-16	9:44	10:14	0:50	5	1			3.32	9:56	3.16	10:01	Leslie
6-10-16	9:17	9:39	0:37	4	1			3.28	9:25	3.05	9:32	Leslie
6-10-16	10:08	10:33	0:42	3	1			2.37	10:18	2.21	10:14	Leslie
6-15-16	11:06	10:01	0:42	18	1			2.31	11:20	3.17	11:53	Leslie
6-16-16	9:50	<del>10:01</del>	10:39	6	1			2.85	10:10	2.50	9:52	Leslie
6-17-16	12:52	1:22	0:50	9	1			2:85	1:10	2:27	1:15	Leslie
6-20-16	10:03	10:30	0:37	4	1		✓	3.16	10:14	2.89	11:20	Leslie
6-20-16	12:48	1:10	0:37	6	1			3.60	12:57	3.23	1:05	Leslie
6-21-16	1:00	1:51	0:55	12	1			2.89	1:26	3.18	1:38	Leslie
6-22-16	10:04	10:30	0:43	5	1			3.16	10:14	2.69	10:22	Leslie
6-27-16	12:50	1:15	0:42	4	1			2.88	1:00	3.09	1:10	Leslie
6-28-16	12:51	1:16	0:42	4	1			3.09	1:02	3.12	1:17	Leslie
6-29-16	12:47	1:14	0:45	4	1			12:50	3:39	3.44	1:10	Leslie
Hours of operation		TOTALS =		89	14							
		6.85		tons	trips							

Operation of the plant is limited to 1/2 hour after sunrise to 1/2 hour before sunset.

The data in this log is required by NIMED Title V Operating Permit (Air Quality) and must be maintained on site for a minimum of 5 years.  
41-20-001.2 Rev. 1 Approval Date: 01/12/2016

# **ATTACHMENT A607.F.**

## **Asphalt Plant**

### **Maintenance and Delivery Records**

ASPHALT & FUEL TRANSPORT  
5 SULZER WAY  
TULSA, OK 74131

AFS B/L NO. 205860

FOR OFFICE USE ONLY

FREIGHT RATE \_\_\_\_\_ BILLING RATE \_\_\_\_\_

FSC \_\_\_\_\_ DISPATCH # \_\_\_\_\_

ACCESSORIALS \_\_\_\_\_  Pump Charge

2-1-16

INSERT FOLLOWING WHEN REQUIRED BY FEDERAL OR STATE LAW OR REGULATION.

T.C.C PERMIT \_\_\_\_\_ STATE PERMIT OR LICENSE \_\_\_\_\_ VEHICLE LICENSE NO. \_\_\_\_\_

"This is to certify that the herein-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation."

Shipper's imprint in lieu of stamp, not a part of Bill of Lading approved by the Interstate Commerce Commission.

Seller represents that in the production and manufacture of the goods and/or services covered by this invoice, it has fully complied with all the provisions of THE LABOR STANDARDS ACT of 1938, as mentioned.

SEAL NOS. NA

DRIVER/LOADER MIKE TARVIN / KYLE

CARRIER AFT TRUCK NO. 640 TRAILER NO. 148

If this shipment moves in other than Shipper's vehicle, it shall be governed by (a) the contract between shipper and carrier, if carrier is a contract carrier or (b) the terms of the applicable uniform bill of lading form prescribed in the current National Motor Freight Classification, if carrier is a common carrier, provided that, if this is an interstate shipment by common carrier in a state whose bills of lading have been legally prescribed, this shipment shall be governed by the terms of applicable bills of lading.

SPECIAL TRUCK MARKINGS LABELS, OR PLACARDS OFFERED AS REQUIRED BY DEPARTMENT OF TRANSPORTATION, THE PERSON LOADING MUST APPLY AS REQUIRED.

CARRIER CERTIFIES THAT THE CARGO TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THIS COMMODITY, AND THAT THE TANK SUPPLIED IS FREE OF WATER AND/OR OTHER CONTAMINANTS.

SHIPPER AFS @ B.K.F.P. RELEASE # \_\_\_\_\_

WEIGHT SCALE TICKET NO. 19197 PICKUP DATE. 1-31-16 PICKUP TIME \_\_\_\_\_

SOLD TO. Los Alamos Natl. Lab. PO #. 371240

DESTINATION " " " " Area TABO

CITY Los Alamos COUNTY \_\_\_\_\_ STATE NM

CUST ORDER NO. \_\_\_\_\_ PROJECT NO. \_\_\_\_\_

LAB NO. \_\_\_\_\_ CERTIFICATION NO. \_\_\_\_\_

PRODUCT PG64-22+1%<sup>API</sup> TEMP 312° LOADING FROM TANK 3751

SPECIFIC GRAVITY \_\_\_\_\_ API GRAVITY \_\_\_\_\_ LBS./GAL 8.204

HAZ MAT (HAZARDOUS MATERIALS)

TARE 31980 GROSS 69,540 NET WT. 37,560 NET GALS 4578

ELEVATED TEMPERATURE MATERIAL, LIQUID N.O.S, HOT, 9, NA 3257, iii ASPHALT-PG64-22 MARKED 3257

For help in emergencies such as a spill, leak, fire, or exposure; call CHEMTREC Day or Night 1-800-424-9300

Additional emergency and OSHA hazard information of reverse side

PRODUCT CODE \_\_\_\_\_ 60 \_\_\_\_\_

CONSIGNEE Ch...

DATE 2-1-16



This is to certify that the below named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Signature By \_\_\_\_\_

If this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and other lawful charge

Signature of Consignor \_\_\_\_\_

Cargo Tank Supplied by Carrier/Carrier Compliance to Laws - Where the cargo tank is supplied by the carrier, the carrier hereby certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity. This is to acknowledge that the carrier has in his possession or has been offered and accepted the required hazard materials placards and/or emergency response information.

The property described herein in apparent good order is received by the carrier shown on this Bill of Lading and the carrier agrees to transport the property to the consignee and the destination set forth herein subject to the classifications and tariffs, and the terms and conditions of the Uniform Domestic Straight Bill of Lading found in National Motor Freight Classification, in effect on the date of issuance of this Bill of Lading or the applicable contract with shipper. It is further agreed by the carrier that the transportation of this shipment will be performed in compliance with all applicable rules, regulations and laws.

Signature of Motor Carrier \_\_\_\_\_

ORIGIN Catoosa AC PLT, OK	SHIPPER Asphalt & Fuel Supply LLC	CARRIER Common Carrier
------------------------------	--------------------------------------	---------------------------

SOLD TO  LOS ALAMOS	CONSIGNEE/DESTINATION  LOS ALAMOS, NM. PO#371240
---------------------------	---

BILL OF LADING 84289-16-000138	SHIP DATE 01/31/2016	FREIGHT
-----------------------------------	-------------------------	---------

Original BOL 3781 19137 APT      Time In      Agreement # 21  
 Detail Ref      Time Out      Customer PO # AFS#205860  
 Order Level Comments      CHEMTREC CON: Asphalt & Fuel Supply 632693  
 Truck # 640      Trailer # 148      Tank #: 3751  
 Loaded By: KYLE

Prod #	Prod Name	Temp	Gross Vol	Net Vol	Reference	Weights	
64-22	AFS 3rd Party Storage	312 F	5004.86 GAL	4578.25 GAL	Gross	69540 LBS	31542.81 KG
		186 C	13941.56 LT	17328.75 LT	Tare	31980 LBS	14506 KG
					Net	37560 LBS	17036.93 KG
						18.78 TON	17.04 MT

Proper Shipping Description  
 UN3257, Elevated Temperature Liquid, n.o.s., (Asphalt), 3, III T/T  
 Pounds per Gallon 8.204      Kilograms per Liter 0.983      Specific Gravity @ 60.0F .984

No Certification provided. The densities and Specific Gravity denoted are typical results. Product densities can vary through the processes of manufacturing, shipping and handling.

Authorized Signatures: \_\_\_\_\_

ASPHALT & FUEL TRANSPORT  
5 SULZER WAY  
TULSA, OK 74131

AFS B/L NO. 210127

4-26-16

**FOR OFFICE USE ONLY**

FREIGHT RATE \_\_\_\_\_ BILLING RATE \_\_\_\_\_

FSC \_\_\_\_\_ DISPATCH # \_\_\_\_\_

ACCESSORIALS \_\_\_\_\_  Pump Charge

INSERT FOLLOWING WHEN REQUIRED BY FEDERAL OR STATE LAW OR REGULATION.

T.C.C PERMIT \_\_\_\_\_ STATE PERMIT OR LICENSE \_\_\_\_\_ VEHICLE LICENSE NO. \_\_\_\_\_

"This is to certify that the herein-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation."

Shipper's imprint in lieu of stamp, not a part of Bill of Lading approved by the Interstate Commerce Commission.

Seller represents that in the production and manufacture of the goods and/or services covered by this invoice, it has fully complied with all the provisions of THE LABOR STANDARDS ACT of 1938, as mentioned.

SEAL NOS. \_\_\_\_\_

DRIVER/LOADER ROBERT FORGMAN

CARRIER AF 7 TRUCK NO. 729 TRAILER NO. 140

If this shipment moves in other than Shipper's vehicle, it shall be governed by (a) the contract between shipper and carrier, if carrier is a contract carrier or (b) the terms of the applicable uniform bill of lading form prescribed in the current National Motor Freight Classification, if carrier is a common carrier, provided that, if this is an interstate shipment by common carrier in a state whose bills of lading have been legally prescribed, this shipment shall be governed by the terms of applicable bills of lading.

**SPECIAL TRUCK MARKINGS LABELS, OR PLACARDS OFFERED AS REQUIRED BY DEPARTMENT OF TRANSPORTATION, THE PERSON LOADING MUST APPLY AS REQUIRED.**

CARRIER CERTIFIES THAT THE CARGO TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THIS COMMODITY, AND THAT THE TANK SUPPLIED IS FREE OF WATER AND/OR OTHER CONTAMINANTS.

SHIPPER AFS RELEASE # \_\_\_\_\_

WEIGHT SCALE TICKET NO. 019631 PICKUP DATE 4-25-16 PICKUP TIME \_\_\_\_\_

SOLD TO Los Alamos National Lab PO # 386 383674

DESTINATION \_\_\_\_\_

CITY Los Alamos COUNTY \_\_\_\_\_ STATE NM

CUST ORDER NO. \_\_\_\_\_ PROJECT NO. \_\_\_\_\_

LAB NO. \_\_\_\_\_ CERTIFICATION NO. \_\_\_\_\_

PRODUCT P664-22 Added 50g TEMP 300 LOADING FROM TANK \_\_\_\_\_

SPECIFIC GRAVITY \_\_\_\_\_ AA STRIP API GRAVITY \_\_\_\_\_ LBS./GAL. 8.44

HAZ MAT (HAZARDOUS MATERIALS)

TARE 31680 GROSS 78060 NET WT. 46380 NET GALS 5480.3

ELEVATED TEMPERATURE MATERIAL, LIQUID N.O.S, HOT, 9, NA 3257, iii ASPHALT- MARKED 3257

For help in emergencies such as a spill, leak, fire, or exposure; call CHEMTREC Day or Night 1-800-424-9300

Additional emergency and OSHA hazard information of reverse side

PRODUCT CODE \_\_\_\_\_ 60 \_\_\_\_\_

[Signature]  
CONSIGNEE

4-26-16  
DATE

This is to certify that the below named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Signature By \_\_\_\_\_

If this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and other lawful charge

Signature of Consignor \_\_\_\_\_

Cargo Tank Supplied by Carrier/Carrier Compliance to Laws - Where the cargo tank is supplied by the carrier, the carrier hereby certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity. This is to acknowledge that the carrier has in his possession or has been offered and accepted the required hazard materials placards and/or emergency response information.

The property described herein in apparent good order is received by the carrier shown on this Bill of Lading and the carrier agrees to transport the property to the consignee and the destination set forth herein subject to the classifications and tariffs, and the terms and conditions of the Uniform Domestic Straight Bill of Lading found in National Motor Freight Classification, in effect on the date of issuance of this Bill of Lading or the applicable contract with shipper. It is further agreed by the carrier that the transportation of this shipment will be performed in compliance with all applicable rules, regulations and laws.

Signature of Motor Carrier *Robert Foreman*

ORIGIN Lafayette AC FLT OK	SHIPPER Asphalt & Fuel Supply LLC	CARRIER Common Carrier
-------------------------------	--------------------------------------	---------------------------

SOLD TO LOS ALAMOS NATIONAL LAB	CONSIGNEE/DESTINATION LOS ALAMOS, NM PO# 883674
------------------------------------	---

BILL OF LADING 54287-16-000846	SHIP DATE 04.26.2016	FREIGHT
-----------------------------------	-------------------------	---------

Original BUC 3181 15H30 AET	Time In	Agreement # 21
Detail Ref	Time Out	Customer PO # AFS# 210127
Order Level Comments	CHRYSLER CO# Asphalt & Fuel Supply 632693	
Truck # 725	Trailer # 140	Tank # 3151
	Loaded By: KYLE	

Product/Alia	Temp	Gross Vol	Net Vol	Gross	Net	Weights
P# 64-22	200 F	5964.85 GAL	5480.33 GAL	78060 LBS	46380 LBS	35407.42 KG
	149 C	22577.03 LT	20743.1 LT	31680 LBS		14370 KG
						23.19 TON
						21.04 MT

Proper Shipping Description  
 UN3257, Elevated Temperature Liquid, n.o.s., (Asphalt), 9, III T/T  
 Pounds per Gallon 5.453      Kilograms per Liter 1.014      Specific Gravity @ 60.0F 1.0151

No Certification provided. The densities and Specific Gravity denoted are typical results. Product densities can vary through the processes of manufacturing, shipping and handling.

Authorized Signature *[Signature]*

4-26-16

*[Signature]*

To request a current MSDS in non-emergency situations, please call 877-388-2629.

ENGINEER / OFFICE

# **ATTACHMENT A607.G.**

Asphalt Plant

Method 22 Opacity Reports

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

Ecology and Air Quality  
Los Alamos National Laboratory

<b>Los Alamos National Laboratory</b> <b>METHOD 22 Visual Determination of Fugitive Emissions Form</b>															
Location: TAGO Asphalt Batch Plant	Observer Affiliation: DESHS-VIS														
Representative: C. Heintschel	Date of Inspection: 2/10/16														
Sky Conditions: Clear	Wind Direction: From E														
Precipitation: ∅	Wind Speed: 5-10 mph														
Industry: National Lab	Process Unit: Fugitive Emissions														
<b>Sketch of Process Unit:</b> Indicate: * observer position relative to source * potential emission and/or actual emission points * sun location * wind direction * North direction															
<b>Observations:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;"></th> <th style="width: 25%;">Clock Time</th> <th style="width: 25%;">Observation period duration (min:sec)</th> <th style="width: 25%;">Accumulated Emission Time(min:sec)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Begin</td> <td style="padding: 5px;"><u>10:24</u></td> <td style="padding: 5px;">_____</td> <td style="padding: 5px;">_____</td> </tr> <tr> <td style="padding: 5px;">End Observation</td> <td style="padding: 5px;"><u>10:34</u></td> <td style="padding: 5px;"><u>10:00</u></td> <td style="padding: 5px;"><u>∅</u></td> </tr> </tbody> </table>					Clock Time	Observation period duration (min:sec)	Accumulated Emission Time(min:sec)	Begin	<u>10:24</u>	_____	_____	End Observation	<u>10:34</u>	<u>10:00</u>	<u>∅</u>
	Clock Time	Observation period duration (min:sec)	Accumulated Emission Time(min:sec)												
Begin	<u>10:24</u>	_____	_____												
End Observation	<u>10:34</u>	<u>10:00</u>	<u>∅</u>												
Notes:															
This form is used to document fugitive visible emissions from outside air emission sources. If an emission is observed during the Method 22 inspection/observation period (which must be at least 6 minutes for the Asphalt Plant and 10 minutes for all other LANL sources), a Method 9 visible emission test may need to be performed.															
SIGNATURE OF OBSERVER/INSPECTOR:		DATE:													
<u>C. Heintschel</u>		<u>2/10/16</u>													

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Date: Wednesday, February 10, 2016 | Time: 10:56 MST (17:56 UTC)

# The Weather Machine

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LANL Observations > Table Summaries

The table below provides a snapshot of current conditions at each tower location. Wind variables are measured at 11 meters above the ground (36 meters at PJMT) and the atmospheric state variables (temperature, humidity, and pressure) are measured at 1.2 meters above the ground (2 meters at PJMT).

Other Text Summaries Available: [15-Minute Short Summary \(English\)](#)

Current Observations:	English   <a href="#">Metric</a>			
	<a href="#">TA6</a>	<a href="#">TA49</a>	<a href="#">TA53</a>	<a href="#">TA54</a>
Tower (tower)				
Date (mm/dd)	02/10	02/10	02/10	02/10
Time (hhmm)	1045	1045	1045	1045
Wind Speed (mph)	2.7	4.0	4.7	5.6
Wind Direction (deg)	70	148	20	44
Max Gust (mph)	9.2	14.3	13.6	13.0
Max Gust Direction (deg)	343	14	6	34
Time of Max Gust (hhmm)	245	900		830
Temperature (deg-F)	48.0	46.0	43.5	43.3
Max Temp Since Midnight (deg-F)	48.0	46.2	43.5	43.3
Time of Max Temp (hhmm)	1045	1030	1045	1045
Min Temp Since Midnight (deg-F)	33.6	30.0	29.3	24.6
Time of Min Temp (hhmm)	645	715	645	715
Pressure (mb)	784.2	-	-	810.0
Relative Humidity (%)	31	39	37	38
Dew Point Temperature (deg-F)	19.0	22.8	19.2	19.6
Precip Last 15 Minutes (in)	0.00	0.00	0.00	0.00
Precip Since Midnight (in)	0.00	0.00	0.00	0.00
Downwelling Shortwave (BTU/hr*ft^2)	209	195	205	203
windchill (deg-C )	8.8	6.8	4.9	4.4

NOTE: All times are reported in Mountain Standard Time (MST).

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<b>Los Alamos National Laboratory</b> <b>METHOD 22 Visual Determination of Fugitive Emissions Form</b>			
<b>Location:</b> TA 60 Asphalt Batch Plant	<b>Observer Affiliation:</b> DESHS-VIS		
<b>Representative:</b> C. Heintschel	<b>Date of Inspection:</b> 2/18/16		
<b>Sky Conditions:</b> Clear	<b>Wind Direction:</b> From NW		
<b>Precipitation:</b> 0	<b>Wind Speed:</b> 5-10 mph		
<b>Industry:</b> National Lab	<b>Process Unit:</b> Fugitive Emissions		
<b>Sketch of Process Unit:</b> Indicate: * observer position relative to source * potential emission and/or actual emission points * sun location * wind direction * North direction			
<b>Observations:</b>			
	<b>Clock Time</b>	<b>Observation period duration (min:sec)</b>	<b>Accumulated Emission Time (min:sec)</b>
<b>Begin</b>	9:35 AM	_____	_____
<b>End Observation</b>	9:45	10:00	10
<b>Notes:</b>			
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.			
<b>SIGNATURE OF OBSERVER/INSPECTOR:</b> 		<b>DATE:</b> 2/18/16	

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Date: Thursday, February 18, 2016 | Time: 09:14 MST (16:14 UTC)

# The Weather Machine

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- LANL Climatology ▾
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LANL Observations > Table Summaries

The table below provides a snapshot of current conditions at each tower location. Wind variables are measured at 11 meters above the ground (36 meters at PJMT) and the atmospheric state variables (temperature, humidity, and pressure) are measured at 1.2 meters above the ground (2 meters at PJMT).

Other Text Summaries Available: 15-Minute Short Summary (English) ▾

Current Observations:	English   <a href="#">Metric</a>			
Tower (tower)	<a href="#">TA6</a>	<a href="#">TA49</a>	<a href="#">TA53</a>	<a href="#">TA54</a>
Date (mm/dd)	02/18	02/18	02/18	02/18
Time (hhmm)	0900	0900	0900	0900
Wind Speed (mph)	4.5	9.6	6.3	11.9
Wind Direction (deg)	97	173	169	193
Max Gust (mph)	17.7	15.7	15.7	18.8
Max Gust Direction (deg)	266	173	199	193
Time of Max Gust (hhmm)	830	900	130	900
Temperature (deg-F)	54.0	50.4	51.4	52.2
Max Temp Since Midnight (deg-F)	54.7	50.4	51.4	52.2
Time of Max Temp (hhmm)	845	900	900	900
Min Temp Since Midnight (deg-F)	39.9	40.5	43.5	35.2
Time of Min Temp (hhmm)	615	600	530	600
Pressure (mb)	775.5	-	-	800.6
Relative Humidity (%)	25	29	26	26
Dew Point Temperature (deg-F)	19.6	19.6	18.0	18.5
Precip Last 15 Minutes (in)	0.00	0.00	0.00	0.00
Precip Since Midnight (in)	0.00	0.00	0.00	0.00
Downwelling Shortwave (BTU/hr*ft^2)	136	115	128	128
windchill (deg-C )	11.8	8.1	9.6	8.9

NOTE: All times are reported in Mountain Standard Time (MST).



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<b>ENV-EAQ-307, R5</b> Attachment 3, page 1 of 1	<b>Ecology and Air Quality</b> Los Alamos National Laboratory
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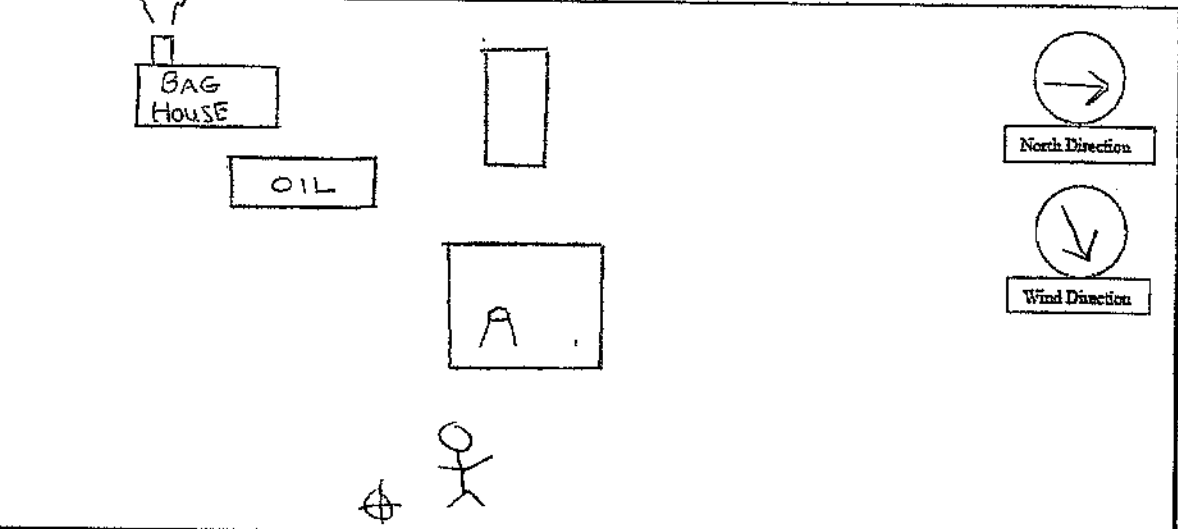
**Los Alamos National Laboratory**  
**METHOD 22 Visual Determination of Fugitive Emissions Form**

<b>Location:</b> TA 60 Asphalt Batch Plant	<b>Observer Affiliation:</b> DESHS-UIS
<b>Representative:</b> C. Heintschel	<b>Date of Inspection:</b> 3/2/2016
<b>Sky Conditions:</b> Clear	<b>Wind Direction:</b> From W
<b>Precipitation:</b> ∅	<b>Wind Speed:</b> Variable 10-20 mph
<b>Industry:</b> National Lab	<b>Process Unit:</b> Fugitive Emissions

**Sketch of Process Unit:**

Indicate:

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



Observations:	Clock Time	Observation period duration (min:sec)	Accumulated Emission Time (min:sec)
Begin	9:54	_____	0:30 = .05
	_____	_____	= 5%
End Observation	_____	10:00	_____

**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.

<b>SIGNATURE OF OBSERVER/INSPECTOR:</b> 	<b>DATE:</b> 3/2/2016
---	--------------------------

*THIS FORM IS FROM EAQ-307, R5*

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Date: Wednesday, March 2, 2016 | Time: 13:32 MST (20:32 UTC)

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**LANL Observations > Table Summaries**

The table below provides a snapshot of current conditions at each tower location. Wind variables are measured at 11 meters above the ground (36 meters at PJMT) and the atmospheric state variables (temperature, humidity, and pressure) are measured at 1.2 meters above the ground (2 meters at PJMT).

Other Text Summaries Available: [15-Minute Short Summary \(English\)](#)

Current Observations:	English   <a href="#">Metric</a>			
	<a href="#">TA6</a>	<a href="#">TA49</a>	<a href="#">TA53</a>	<a href="#">TA54</a>
Tower (tower)				
Date (mm/dd)	03/02	03/02	03/02	03/02
Time (hhmm)	1315	1315	1315	1315
Wind Speed (mph)	19.5	23.3	24.4	19.9
Wind Direction (deg)	315	285	295	282
Max Gust (mph)	34.4	42.5	43.8	35.8
Max Gust Direction (deg)	303	285	293	282
Time of Max Gust (hhmm)	1245	1315	1300	1315
Temperature (deg-F)	60.1	61.0	60.4	63.3
Max Temp Since Midnight (deg-F)	60.4	61.7	60.4	63.5
Time of Max Temp (hhmm)	1215	1300	1215	1230
Min Temp Since Midnight (deg-F)	37.9	39.7	40.6	36.1
Time of Min Temp (hhmm)	400	415	415	615
Pressure (mb)	774.1	-	-	798.2
Relative Humidity (%)	18	17	15	15
Dew Point Temperature (deg-F)	17.2	16.9	14.0	15.3
Precip Last 15 Minutes (in)	0.00	0.00	0.00	0.00
Precip Since Midnight (in)	0.00	0.00	0.00	0.00
Downwelling Shortwave (BTU/hr*ft^2)	258	259	268	269
Wind Chill (deg-F)	57.0	57.6	56.7	61.0

**NOTE:** All times are reported in Mountain Standard Time (MST).

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

Ecology and Air Quality  
Los Alamos National Laboratory

Los Alamos National Laboratory METHOD 22 Visual Determination of Fugitive Emissions Form			
Location: TAGO Asphalt Batch Plant	Observer Affiliation: DESHS-UIS		
Representative: C. Heintschel	Date of Inspection: 4/11/16		
Sky Conditions: Partly Cloudy	Wind Direction: From NW SW		
Precipitation: 0	Wind Speed: 10-15 MPH		
Industry: National Lab	Process Unit: Fugitive Emissions		
Sketch of Process Unit:			
<p>Indicate:</p> <ul style="list-style-type: none"> <li>* observer position relative to source</li> <li>* potential emission and/or actual emission points</li> <li>* sun location</li> <li>* wind direction</li> <li>* North direction</li> </ul>			
Observations:			
	Clock Time	Observation period duration (min:sec)	Accumulated Emission Time(min:sec)
Begin	13:50	_____	_____
	_____	10:00	1:30 → 15%
End Observation	14:00	_____	_____
Notes: Discussed cleaning filters with operator			
<p>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.</p>			
SIGNATURE OF OBSERVER/INSPECTOR:		DATE:	
		4/12/16	

THIS FORM IS FROM EAQ-307, R5

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Date: Tuesday, April 12, 2016 | Time: 08:27 MDT (14:27 UTC) | [Time Note »](#)

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LANL Observations > Table Summaries

The table below provides a snapshot of current conditions at each tower location. Wind variables are measured at 11 meters above the ground (36 meters at PJMT) and the atmospheric state variables (temperature, humidity, and pressure) are measured at 1.2 meters above the ground (2 meters at PJMT).

Other Text Summaries Available: [15-Minute Short Summary \(English\)](#)

Current Observations:	English   <a href="#">Metric</a>			
Tower (tower)	<a href="#">TA6</a>	<a href="#">TA49</a>	<a href="#">TA53</a>	<a href="#">TA54</a>
Date (mm/dd)	04/12	04/12	04/12	04/12
Time (hhmm)	0715	0715	0715	0715
Wind Speed (mph)	3.8	1.1	4.7	3.4
Wind Direction (deg)	182	201	176	211
Max Gust (mph)	9.2	8.5	14.8	12.1
Max Gust Direction (deg)	225	218	196	232
Time of Max Gust (hhmm)	145	430		15
Temperature (deg-F)	41.9	40.8	41.5	41.5
Max Temp Since Midnight (deg-F)	41.9	40.8	41.5	41.5
Time of Max Temp (hhmm)	715	715	715	715
Min Temp Since Midnight (deg-F)	35.2	34.5	37.9	35.2
Time of Min Temp (hhmm)	130	130	115	600
Pressure (mb)	778.8	-	-	804.1
Relative Humidity (%)	75	77	74	78
Dew Point Temperature (deg-F)	34.7	34.3	34.0	35.2
Precip Last 15 Minutes (in)	0.00	0.00	0.00	0.00
Precip Since Midnight (in)	0.00	0.00	0.00	0.00
Downwelling Shortwave (BTU/hr*ft^2)	82	38	68	56
windchill (deg-C)	4.2	4.9	3.6	4.3

NOTE: All times are reported in Mountain Standard Time (MST).

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Permit P100-R2 Conditions A607.C. and A607.G.

The asphalt batch plant did not operate during May 2016.

No opacity measurements 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: TAGO Asphalt Batch Plant	Observer Affiliation: DESHS-UIS		
Representative: C. Heintschel	Date of Inspection: 6/7/2016		
Sky Conditions: Clear	Wind Direction: FROM SE		
Precipitation: $\emptyset$	Wind Speed: 5-10 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	10:45	_____	_____
End Observation	10:55	10:00	1:30 → 1550
Notes:			
This form is used to document fugitive visible emissions from outside air emission sources. If an emission is observed during the Method 22 inspection/observation period (which must be at least 6 minutes for the Asphalt Plant and 10 minutes for all other LANL sources), a Method 9 visible emission test may need to be performed.			
SIGNATURE OF OBSERVER/INSPECTOR:		DATE:	
		6/7/2016	

THIS FORM IS FROM EAQ-307, R5

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Date: Tuesday, June 7, 2016 | Time: 14:03 MDT (20:03 UTC) | [Time Note »](#)

# The Weather Machine

LOS ALAMOS NATIONAL LABORATORY

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 [Regional/U.S. Observations](#) | 
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 [Data Requests](#)

**LANL Observations > Table Summaries**

The table below provides a snapshot of current conditions at each tower location. Wind variables are measured at 11 meters above the ground (36 meters at PJMT) and the atmospheric state variables (temperature, humidity, and pressure) are measured at 1.2 meters above the ground (2 meters at PJMT).

**Other Text Summaries Available:** [15-Minute Short Summary \(English\)](#)

Current Observations:	English   <a href="#">Metric</a>			
Tower (tower)	<a href="#">TA6</a>	<a href="#">TA49</a>	<a href="#">TA53</a>	<a href="#">TA54</a>
Date (mm/dd)	06/07	06/06	06/07	06/07
Time (hhmm)	1245	0800	1245	1245
Wind Speed (mph)	13.6	4.9	13.9	14.8
Wind Direction (deg)	180	50	195	209
Max Gust (mph)	25.9	15.4	27.1	28.2
Max Gust Direction (deg)	180	237	192	206
Time of Max Gust (hhmm)	1245	300	1215	1145
Temperature (deg-F)	80.6	*	83.3	84.9
Max Temp Since Midnight (deg-F)	80.6	*	83.3	84.9
Time of Max Temp (hhmm)	1245	*	1245	1245
Min Temp Since Midnight (deg-F)	55.2	*	58.1	54.0
Time of Min Temp (hhmm)	430	*	500	400
Pressure (mb)	777.2	-	-	801.2
Relative Humidity (%)	23	*	21	19
Dew Point Temperature (deg-F)	40.3	*	40.3	38.7
Precip Last 15 Minutes (in)	0.00	0.01	0.00	0.00
Precip Since Midnight (in)	0.00	0.01	0.00	0.00
Downwelling Shortwave (BTU/hr*ft^2)	348	*	352	351
windchill (deg-C )	27.0	*	28.5	29.4

**NOTE:** All times are reported in Mountain Standard Time (MST).

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# **ATTACHMENT A707.B.a.**

Beryllium

TA-03-0066 Beryllium Logs



January 1, 2016 - June 30, 2016

Metallography	Date	Number of Metallographic Specimens Used in the Polishing Operation
	30-Jun-16	0

Note: Information required under Title V Operating Permit P100-R2, Section A707.B, Emissions Monitoring Requirements and A707.D, Reporting Requirements

January 1, 2016 - June 30, 2016

<b>Electroplating/Chemical Milling</b>	Date	Weight or Volume of Beryllium Samples Processed	UOM
	Jan -Jun 2016	0	

Note: Information required under Title V Operating Permit P100-R2, Section A707.B, Emissions Monitoring Requirements and A707.D, Reporting Requirements

January 1, 2016 - June 30, 2016: **SM-66**

Machining		
Date	Weight or Volume of Beryllium Samples Processed	UOM
Jan-Jun 2016	n/a	

Arc Melting/Casting		
Date	Weight or Volume of Beryllium Samples Processed	UOM
Jan-Jun 2016	0	Kg

Note: Information required under Title V Operating Permit P100-R2, Section A707.B, Emissions Monitoring Requirements and A707.D, Reporting Requirements

# **ATTACHMENT A707.B.b.**

## Beryllium

### TA-35-0213 Beryllium Operating Log

Beryllium Operating Log

TA-35-213

January - June 2016

January		February		March		April		May		June	
Date	Hours	Date	Hours	Date	Hours	Date	Hours	Date	Hours	Date	Hours
		1-Feb-2016	8	4-Mar-2016	7	1-Apr-2016	6	2-May-2016	7	1-Jun-2016	4
		2-Feb-2016	7	7-Mar-2016	8	4-Apr-2016	7	3-May-2016	6	2-Jun-2016	4
19-Jan-2016	7	3-Feb-2016	6	8-Mar-2016	8	5-Apr-2016	5	4-May-2016	6	6-Jun-2016	5
20-Jan-2016	6	4-Feb-2016	6	10-Mar-2016	5	6-Apr-2016	5	5-May-2016	5	7-Jun-2016	3
21-Jan-2016	7	5-Feb-2016	5	14-Mar-2016	4	7-Apr-2016	6	10-May-2016	5	8-Jun-2016	7
22-Jan-2016	5	9-Feb-2016	7	15-Mar-2016	8	11-Apr-2016	7	11-May-2016	7	9-Jun-2016	3
25-Jan-2016	6	10-Feb-2016	5	16-Mar-2016	7	12-Apr-2016	7	17-May-2016	4	10-Jun-2016	5
26-Jan-2016	6	11-Feb-2016	8	17-Mar-2016	5	13-Apr-2016	6	18-May-2016	5	14-Jun-2016	3
27-Jan-2016	8	16-Feb-2016	6	18-Mar-2016	6	14-Apr-2016	7	19-May-2016	5	15-Jun-2016	5
28-Jan-2016	7	17-Feb-2016	3	22-Mar-2016	6	15-Apr-2016	5	24-May-2016	5	16-Jun-2016	6
		18-Feb-2016	4	23-Mar-2016	6	20-Apr-2016	6	25-May-2016	7	23-Jun-2016	7
		19-Feb-2016	7	24-Mar-2016	5	21-Apr-2016	8			24-Jun-2016	4
				28-Mar-2016	6	25-Apr-2016	6			27-Jun-2016	2
				30-Mar-2016	7	26-Apr-2016	7			28-Jun-2016	5
				31-Mar-2016	7	27-Apr-2016	7				
						28-Apr-2016	7				
						29-Apr-2016	6				
<b>Total Hours</b>	<b>52</b>		<b>72</b>		<b>95</b>		<b>108</b>		<b>62</b>		<b>63</b>
<b>Total hours for January 1 - June 30, 2016:</b>		<b>452</b>									

# **ATTACHMENT A707.C.a.**

## Beryllium

TA-03-0141 Beryllium HEPA Filter Differential Pressure Readings

# NM STATE REPORTING

			HEPA 1			HEPA 2			DUST			YEAR					
DAY 1	04:00	0.69	0.53	0.79	2016	DAY 11	04:00	0.69	0.53	0.90	2016	DAY 21	04:00	0.67	0.52	0.98	2016
	12:00	0.68	0.52	0.82	2016		12:00	0.71	0.54	1.01	2016		12:00	0.68	0.52	1.09	2016
	20:00	0.64	0.50	0.80	2016		20:00	0.72	0.55	0.98	2016		20:00	0.71	0.54	1.10	2016
DAY 2	04:00	0.71	0.55	0.76	2016	DAY 12	04:00	0.68	0.53	0.87	2016	DAY 22	04:00	0.66	0.51	0.96	2016
	12:00	0.68	0.53	0.81	2016		12:00	0.71	0.54	0.97	2016		12:00	0.68	0.53	1.37	2016
	20:00	0.68	0.53	0.93	2016		20:00	0.69	0.53	0.99	2016		20:00	0.70	0.54	1.08	2016
DAY 3	04:00	0.71	0.54	0.79	2016	DAY 13	04:00	0.74	0.56	0.93	2016	DAY 23	04:00	0.66	0.52	0.95	2016
	12:00	0.70	0.54	0.92	2016		12:00	0.71	0.54	1.01	2016		12:00	0.68	0.52	1.10	2016
	20:00	0.71	0.54	0.99	2016		20:00	0.78	0.59	0.98	2016		20:00	0.70	0.54	1.07	2016
DAY 4	04:00	0.70	0.54	0.84	2016	DAY 14	04:00	0.69	0.54	0.85	2016	DAY 24	04:00	0.67	0.52	0.91	2016
	12:00	0.71	0.55	0.95	2016		12:00	0.71	0.55	0.95	2016		12:00	0.70	0.54	1.03	2016
	20:00	0.72	0.55	0.97	2016		20:00	0.70	0.54	0.99	2016		20:00	0.72	0.55	1.07	2016
DAY 5	04:00	0.70	0.54	0.82	2016	DAY 15	04:00	0.66	0.53	0.88	2016	DAY 25	04:00	0.68	0.53	0.93	2016
	12:00	0.70	0.54	0.92	2016		12:00	0.72	0.54	0.99	2016		12:00	0.70	0.54	1.07	2016
	20:00	0.71	0.54	0.91	2016		20:00	0.69	0.53	1.07	2016		20:00	0.72	0.54	1.03	2016
DAY 6	04:00	0.71	0.55	0.76	2016	DAY 16	04:00	0.73	0.55	0.91	2016	DAY 26	04:00	0.69	0.53	0.86	2016
	12:00	0.71	0.54	0.90	2016		12:00	0.70	0.54	0.99	2016		12:00	0.70	0.54	1.00	2016
	20:00	0.70	0.53	0.88	2016		20:00	0.70	0.53	1.01	2016		20:00	0.71	0.55	0.96	2016
DAY 7	04:00	0.69	0.53	0.80	2016	DAY 17	04:00	0.73	0.55	0.84	2016	DAY 27	04:00	0.69	0.54	0.88	2016
	12:00	0.70	0.54	0.99	2016		12:00	0.70	0.53	1.02	2016		12:00	0.72	0.54	1.00	2016
	20:00	0.69	0.53	0.91	2016		20:00	0.71	0.54	1.07	2016		20:00	0.68	0.53	1.00	2016
DAY 8	04:00	0.68	0.53	0.80	2016	DAY 18	04:00	0.67	0.53	0.87	2016	DAY 28	04:00	0.69	0.53	0.89	2016
	12:00	0.70	0.53	0.96	2016		12:00	0.69	0.53	1.06	2016		12:00	0.71	0.54	1.08	2016
	20:00	0.71	0.55	0.98	2016		20:00	0.71	0.53	1.16	2016		20:00	0.71	0.55	0.95	2016
DAY 9	04:00	0.69	0.53	0.86	2016	DAY 19	04:00	0.68	0.52	0.96	2016	DAY 29	04:00	0.69	0.53	0.91	2016
	12:00	0.69	0.52	1.04	2016		12:00	0.70	0.54	1.06	2016		12:00	0.72	0.55	1.31	2016
	20:00	0.72	0.54	1.01	2016		20:00	0.70	0.53	1.20	2016		20:00	4.30	1.90	1.00	2015
DAY 10	04:00	0.68	0.53	0.91	2016	DAY 20	04:00	0.68	0.53	0.98	2016	DAY 30	04:00	0.68	0.52	0.94	2016
	12:00	0.72	0.55	0.96	2016		12:00	0.71	0.54	1.08	2016		12:00	0.71	0.54	1.31	2016
	20:00	0.70	0.54	1.00	2016		20:00	0.70	0.54	1.18	2016		20:00	0.70	0.54	1.04	2016

1:56:39 PM Thursday, July 07, 2016

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TA-03-0141 New Mexico State Report for May-2016

	EXHAUST_HEPA_1_DP			EXHAUST_HEPA_2_DP			DUST_COLLECTOR_DP		
	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00
05/01/16	0.73	0.70	0.70	0.56	0.55	0.53	0.66	0.62	0.64
05/02/16	0.70	0.72	0.72	0.54	0.55	0.55	0.67	0.68	0.68
05/03/16	0.69	0.73	0.70	0.54	0.56	0.55	0.66	0.70	0.80
05/04/16	0.68	0.72	0.71	0.53	0.54	0.54	0.72	0.91	0.87
05/05/16	0.69	0.69	0.70	0.54	0.53	0.54	0.83	0.85	0.90
05/06/16	0.69	0.69	0.69	0.54	0.53	0.54	0.79	1.08	0.87
05/07/16	0.70	0.71	0.72	0.53	0.54	0.56	0.76	0.79	0.76
05/08/16	0.69	0.73	0.71	0.54	0.55	0.55	0.64	0.67	0.69
05/09/16	0.73	0.73	0.72	0.55	0.57	0.55	0.79	0.65	0.75
05/10/16	0.68	0.73	0.70	0.53	0.54	0.54	0.75	0.78	0.83
05/11/16	0.70	0.71	0.76	0.54	0.54	0.58	0.75	0.75	0.85
05/12/16	0.69	0.72	0.71	0.54	0.56	0.54	0.71	0.71	0.88
05/13/16	0.70	0.68	0.72	0.53	0.54	0.55	0.82	0.80	0.93
05/14/16	0.72	0.71	0.67	0.54	0.54	0.53	0.84	0.77	0.86
05/15/16	0.71	0.71	0.70	0.53	0.54	0.54	0.73	0.75	0.80
05/16/16	0.70	0.70	0.74	0.53	0.54	0.56	0.74	0.81	0.73
05/17/16	0.70	0.72	0.70	0.54	0.54	0.55	0.69	0.69	0.74
05/18/16	0.69	0.70	0.72	0.54	0.55	0.55	0.72	0.64	0.72
05/19/16	0.71	0.72	0.72	0.54	0.55	0.55	0.83	0.69	0.77
05/20/16	0.70	0.73	0.68	0.54	0.54	0.53	0.69	0.79	0.86
05/21/16	0.69	0.67	0.71	0.52	0.53	0.53	0.79	0.81	0.94
05/22/16	0.68	0.69	0.72	0.53	0.52	0.55	0.78	0.76	0.88
05/23/16	0.70	0.67	0.68	0.53	0.51	0.51	0.78	0.80	0.90
05/24/16	0.64	0.67	0.71	0.51	0.53	0.54	0.76	0.76	0.89
05/25/16	0.72	0.71	0.69	0.55	0.54	0.54	0.78	0.80	0.79
05/26/16	0.70	0.68	0.71	0.53	0.54	0.55	0.78	0.75	0.81
05/27/16	0.71	0.72	0.73	0.55	0.56	0.56	0.66	0.71	0.79
05/28/16	0.70	0.71	0.70	0.54	0.54	0.54	0.66	0.78	0.85
05/29/16	0.68	0.67	0.71	0.53	0.52	0.54	0.79	0.81	0.97
05/30/16	0.68	0.66	0.69	0.52	0.52	0.53	0.75	0.86	0.94
05/31/16	0.64	0.66	0.66	0.51	0.51	0.51	0.80	0.82	0.85



TA-03-0141 New Mexico State Report for

May-2016

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
<b>Average:</b>	0.70	0.54	0.78
<b>Median:</b>	0.70	0.54	0.78
<b>Min:</b>	0.64	0.51	0.62
<b>Max:</b>	0.76	0.58	1.08

TA-03-0141 New Mexico State Report for April-2016

	EXHAUST_HEPA_1_DP			EXHAUST_HEPA_2_DP			DUST_COLLECTOR_DP		
	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00
04/01/16	0.65	0.67	0.65	0.50	0.51	0.51	0.76	0.85	0.86
04/02/16	0.64	0.65	0.65	0.51	0.51	0.51	0.81	0.82	0.84
04/03/16	0.64	0.64	0.72	0.50	0.51	0.56	0.84	0.92	0.91
04/04/16	0.69	0.71	0.65	0.54	0.55	0.52	0.74	0.75	0.78
04/05/16	0.67	0.73	0.68	0.52	0.56	0.53	0.74	0.78	0.75
04/06/16	0.67	0.71	0.68	0.52	0.55	0.54	0.64	0.62	0.75
04/07/16	0.68	0.72	0.66	0.53	0.54	0.52	0.69	0.73	0.79
04/08/16	0.69	0.70	0.70	0.53	0.55	0.54	0.70	0.71	0.67
04/09/16	0.65	0.67	0.67	0.52	0.52	0.52	0.79	0.86	0.90
04/10/16	0.67	0.66	0.69	0.53	0.51	0.53	0.83	0.89	0.87
04/11/16	0.66	0.68	0.67	0.51	0.54	0.52	0.82	0.88	0.89
04/12/16	0.65	0.71	0.72	0.50	0.54	0.54	0.84	0.86	0.70
04/13/16	0.71	0.70	0.68	0.54	0.54	0.53	0.79	0.69	0.77
04/14/16	0.69	0.68	0.68	0.54	0.53	0.52	0.72	0.73	0.79
04/15/16	0.65	0.69	0.68	0.51	0.54	0.54	0.71	0.70	0.67
04/16/16	0.71	0.68	0.67	0.54	0.53	0.52	0.76	0.84	0.87
04/17/16	0.66	0.68	0.66	0.51	0.52	0.52	0.85	0.86	0.92
04/18/16	0.65	0.67	0.66	0.51	0.52	0.52	0.87	0.86	0.89
04/19/16	0.65	0.68	0.68	0.51	0.53	0.51	0.85	0.87	0.92
04/20/16	0.65	0.67	0.68	0.51	0.52	0.53	0.79	0.91	0.88
04/21/16	0.66	0.67	0.67	0.52	0.52	0.52	0.85	0.89	0.91
04/22/16	0.66	0.67	0.67	0.51	0.53	0.51	0.90	0.94	0.95
04/23/16	0.66	0.67	0.68	0.51	0.51	0.52	0.93	0.92	0.90
04/24/16	0.66	0.67	0.67	0.51	0.52	0.53	0.86	0.83	0.88
04/25/16	0.65	0.67	0.68	0.51	0.53	0.54	0.84	0.89	0.91
04/26/16	0.66	0.68	0.69	0.52	0.53	0.52	0.80	0.83	0.86
04/27/16	0.67	0.44	0.71	0.53	0.36	0.55	0.80	0.66	0.77
04/28/16	0.70	0.73	0.66	0.55	0.56	0.51	0.67	0.70	0.74
04/29/16	0.71	0.72	0.71	0.54	0.56	0.55	0.66	0.61	0.66
04/30/16	0.72	0.73	0.70	0.55	0.55	0.55	0.76	0.66	0.66
05/01/16	0.73	0.70	0.70	0.56	0.55	0.53	0.66	0.62	0.64

TA-03-0141 New Mexico State Report for

April-2016

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
<b>Average:</b>	0.68	0.53	0.80
<b>Median:</b>	0.67	0.52	0.82
<b>Min:</b>	0.44	0.36	0.61
<b>Max:</b>	0.73	0.56	0.95

## TA-03-0141 New Mexico State Report for March-2016

	EXHAUST_HEPA_1_DP			EXHAUST_HEPA_2_DP			DUST_COLLECTOR_DP		
	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00
03/01/16	0.65	0.71	0.70	0.50	0.55	0.54	0.83	0.87	0.84
03/02/16	0.69	0.75	0.76	0.53	0.55	0.58	0.76	0.76	0.71
03/03/16	0.67	0.71	0.69	0.52	0.55	0.53	0.66	0.71	0.81
03/04/16	0.68	0.71	0.67	0.52	0.54	0.53	0.70	0.75	0.77
03/05/16	0.68	0.69	0.68	0.53	0.53	0.51	0.71	0.74	0.76
03/06/16	0.70	0.69	0.69	0.54	0.53	0.53	0.67	0.68	0.79
03/07/16	0.68	0.71	0.70	0.54	0.55	0.54	0.69	0.69	0.68
03/08/16	0.63	0.65	0.65	0.49	0.52	0.51	0.72	0.80	0.85
03/09/16	0.64	0.66	0.65	0.50	0.51	0.52	0.82	0.90	0.84
03/10/16	0.69	0.69	0.68	0.55	0.55	0.53	0.77	0.79	0.76
03/11/16	0.67	0.70	0.64	0.52	0.53	0.51	0.65	0.89	0.73
03/12/16	0.67	0.69	0.63	0.52	0.54	0.50	0.69	0.74	0.77
03/13/16	0.64	0.66	0.65	0.50	0.51	0.50	0.83	0.88	0.88
03/14/16	0.68	0.71	0.70	0.53	0.55	0.54	0.84	0.67	0.74
03/15/16	0.76	0.74	0.71	0.58	0.58	0.54	0.67	0.63	0.64
03/16/16	0.65	0.66	0.66	0.50	0.53	0.51	0.79	0.86	0.84
03/17/16	0.63	0.66	0.68	0.50	0.51	0.52	0.79	0.82	0.75
03/18/16	0.68	0.70	0.70	0.53	0.53	0.54	0.66	0.70	0.70
03/19/16	0.71	0.72	0.66	0.54	0.56	0.52	0.74	0.79	0.81
03/20/16	0.65	0.66	0.64	0.50	0.51	0.51	0.82	0.80	0.86
03/21/16	0.64	0.65	0.65	0.49	0.51	0.51	0.86	0.89	0.92
03/22/16	0.68	0.66	0.67	0.52	0.52	0.52	0.87	0.85	0.87
03/23/16	0.69	0.75	0.68	0.52	0.58	0.52	0.74	0.72	0.81
03/24/16	0.70	0.70	0.67	0.54	0.54	0.52	0.79	0.83	0.87
03/25/16	0.63	0.66	0.69	0.50	0.52	0.53	0.76	0.89	0.84
03/26/16	0.64	0.66	0.67	0.51	0.52	0.53	0.79	0.86	0.80
03/27/16	0.64	0.67	0.70	0.50	0.52	0.55	0.82	0.78	0.84
03/28/16	0.64	0.67	0.65	0.49	0.52	0.51	0.87	0.83	0.89
03/29/16	0.65	0.67	0.71	0.51	0.53	0.55	0.88	0.87	0.86
03/30/16	0.63	0.68	0.67	0.50	0.52	0.52	0.75	1.08	0.83
03/31/16	0.70	0.66	0.65	0.53	0.52	0.52	0.77	0.82	0.83

## TA-03-0141 New Mexico State Report for

March-2016

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
Average:	0.68	0.53	0.79
Median:	0.67	0.52	0.79
Min:	0.63	0.49	0.63
Max:	0.76	0.58	1.08

## TA-03-0141 New Mexico State Report for February-2016

	EXHAUST_HEPA_1_DP			EXHAUST_HEPA_2_DP			DUST_COLLECTOR_DP		
	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00
02/01/16	0.66	0.71	0.67	0.51	0.55	0.53	0.67	0.61	0.69
02/02/16	0.71	0.70	0.72	0.54	0.55	0.55	0.73	0.65	0.72
02/03/16	0.69	0.71	0.70	0.53	0.55	0.54	0.78	0.68	0.63
02/04/16	0.67	0.71	0.71	0.52	0.53	0.54	0.75	0.78	0.77
02/05/16	0.69	0.70	0.69	0.53	0.56	0.53	0.79	0.93	0.65
02/06/16	0.68	0.75	0.67	0.53	0.56	0.52	0.76	0.79	0.74
02/07/16	0.67	0.71	0.68	0.52	0.54	0.52	0.64	0.64	0.75
02/08/16	0.67	0.70	0.68	0.53	0.55	0.53	0.79	0.95	0.67
02/09/16	0.67	0.70	0.69	0.52	0.54	0.54	0.69	0.67	0.73
02/10/16	0.67	0.73	0.68	0.52	0.56	0.52	0.66	0.71	0.76
02/11/16	0.66	0.71	0.68	0.52	0.54	0.53	0.65	0.70	0.75
02/12/16	0.68	0.72	0.69	0.51	0.54	0.53	0.74	0.79	0.78
02/13/16	0.67	0.87	0.68	0.52	0.62	0.52	0.72	0.71	0.79
02/14/16	0.68	0.72	0.73	0.54	0.53	0.56	0.71	0.76	0.69
02/15/16	0.68	0.71	0.69	0.52	0.54	0.52	0.75	0.76	0.70
02/16/16	0.69	0.71	0.68	0.53	0.56	0.53	0.62	0.64	0.77
02/17/16	0.68	0.71	0.68	0.53	0.54	0.53	0.72	0.68	0.78
02/18/16	0.68	0.69	0.70	0.53	0.54	0.56	0.79	0.82	0.78
02/19/16	0.68	0.70	0.69	0.53	0.55	0.54	0.79	0.73	0.78
02/20/16	0.67	0.70	0.68	0.53	0.53	0.53	0.69	0.70	0.75
02/21/16	0.67	0.69	0.68	0.52	0.54	0.53	0.69	0.73	0.67
02/22/16	0.67	0.70	0.73	0.51	0.54	0.55	0.74	0.67	0.60
02/23/16	0.64	0.67	0.71	0.50	0.52	0.55	0.82	0.80	0.78
02/24/16	0.70	0.72	0.69	0.54	0.55	0.54	0.81	0.77	0.68
02/25/16	0.63	0.66	0.65	0.49	0.52	0.51	0.81	0.86	0.92
02/26/16	0.62	0.64	0.65	0.50	0.51	0.51	0.84	0.91	0.90
02/27/16	0.62	0.64	0.65	0.49	0.50	0.50	0.83	0.89	0.91
02/28/16	0.63	0.66	0.64	0.48	0.51	0.50	0.85	0.87	0.87
02/29/16	0.64	0.65	0.63	0.50	0.51	0.51	0.91	0.89	0.85
03/01/16	0.65	0.71	0.70	0.50	0.55	0.54	0.83	0.87	0.84
03/02/16	0.69	0.75	0.76	0.53	0.55	0.58	0.76	0.76	0.71

TA-03-0141 New Mexico State Report for

February-2016

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
Average:	0.69	0.53	0.76
Median:	0.68	0.53	0.76
Min:	0.62	0.48	0.60
Max:	0.87	0.62	0.95

## TA-03-0141 New Mexico State Report for January-2016

	EXHAUST_HEPA_1_DP			EXHAUST_HEPA_2_DP			DUST_COLLECTOR_DP		
	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00
01/01/16	0.69	0.73	0.70	0.54	0.55	0.54	0.78	0.84	0.79
01/02/16	0.71	0.73	0.70	0.53	0.55	0.53	0.80	0.77	0.82
01/03/16	0.69	0.73	0.70	0.55	0.55	0.54	0.80	0.81	0.79
01/04/16	0.71	0.72	0.70	0.55	0.56	0.53	0.81	0.80	0.69
01/05/16	0.71	0.71	0.73	0.55	0.54	0.55	0.77	0.62	0.70
01/06/16	0.70	0.72	0.70	0.54	0.54	0.54	0.77	0.81	0.59
01/07/16	0.72	0.71	0.72	0.56	0.55	0.56	0.75	0.66	0.65
01/08/16	0.71	0.72	0.72	0.55	0.56	0.55	0.74	0.64	0.74
01/09/16	0.70	0.75	0.73	0.54	0.56	0.56	0.78	0.76	0.78
01/10/16	0.71	0.72	0.72	0.55	0.56	0.56	0.78	0.78	0.79
01/11/16	0.69	0.74	0.70	0.54	0.57	0.55	0.77	0.78	0.81
01/12/16	0.64	0.65	0.65	0.51	0.52	0.51	0.80	0.80	0.78
01/13/16	0.64	0.66	0.64	0.51	0.52	0.51	0.77	0.83	0.88
01/14/16	0.63	0.65	0.64	0.50	0.51	0.51	0.79	0.81	0.81
01/15/16	0.64	0.66	0.65	0.49	0.51	0.51	0.76	1.24	0.81
01/16/16	0.63	0.65	0.63	0.49	0.51	0.50	0.77	0.77	0.75
01/17/16	0.62	0.65	0.62	0.49	0.50	0.49	0.75	0.74	0.81
01/18/16	0.62	0.65	0.65	0.49	0.50	0.51	0.78	0.83	0.82
01/19/16	0.66	0.67	0.66	0.51	0.53	0.52	0.81	0.83	0.85
01/20/16	0.65	0.68	0.69	0.51	0.54	0.53	0.83	0.83	0.82
01/21/16	0.63	0.68	0.67	0.50	0.53	0.52	-0.24	0.77	0.78
01/22/16	0.67	0.65	0.70	0.52	0.52	0.53	0.76	0.95	0.76
01/23/16	0.69	0.71	0.68	0.53	0.54	0.53	0.79	0.80	0.81
01/24/16	0.67	0.69	0.72	0.52	0.52	0.57	0.66	0.71	0.65
01/25/16	0.69	0.69	0.73	0.52	0.54	0.56	0.78	0.59	0.75
01/26/16	0.70	0.69	0.70	0.54	0.53	0.53	0.74	0.60	0.76
01/27/16	0.69	0.71	0.71	0.52	0.55	0.53	0.78	0.67	0.76
01/28/16	0.66	0.70	0.72	0.51	0.53	0.54	0.72	0.67	0.63
01/29/16	0.66	0.70	0.68	0.51	0.54	0.53	0.80	0.68	0.64
01/30/16	0.67	0.67	0.68	0.52	0.52	0.53	0.74	0.69	0.71
01/31/16	0.71	0.70	0.68	0.54	0.54	0.53	0.65	0.71	0.66



## TA-03-0141 New Mexico State Report for

January-2016

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
Average:	0.68	0.53	0.75
Median:	0.69	0.53	0.77
Min:	0.62	0.49	-0.24
Max:	0.75	0.57	1.24

# **ATTACHMENT A707.C.b.**

Beryllium

TA-55-PF4 Annual HEPA Filter Challenge Test Reports

Annual HEPA filter tests for the  
Plutonium Facility

TA-55-PF4

were not conducted in the  
months of  
January – June.

# **ATTACHMENT A707.C.c.**

## Beryllium

### TA-55-PF4 HEPA Filtration Differential Pressure Readings

# January

**Attachment B, Surveillance Training Checklist**

(Page 1 of 2)

Procedure title:	Surveillance Rounds
Procedure no.:	TA55-STP-004 R17
Date of issue:	1-1-16
Working copy issued to:	A. Dunseith
Working copy issued by:	A. Dunseith
Certified Operations Center Operator (OCO)	

**OC Reviews Complete and TSR Status Board Updated**


1
2/1/16  
 OCO Signature Date

**Training Checklist:**

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
D. Dunlavy	a	1-1-11
F. Seybert	a	1-1-16
A. Ortiz	a	1-1-16
T. Langworthy	a	1-1-11
J. Martinez	a	1-1-16
P. Trujillo	a	1-1-16
A. Sanchez	a	1-1-16
A. Dunseith	a	1-1-16
R. Lum	a	1-1-16
B. Chance	a	1-1-16

Performance Type:  Scheduled  Partial *If partial, list reason in Comments below*

Comments: (Document TSR Status Board tracking date here if different from completion date)


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

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R. Briscoe	a	1-1-16
R. Hohner	a	1-1-16
J. Smeltz	a	1-1-16
A. Herrera	a	1-1-16
M. Irish	a	1-1-16
J. Lavato	a	1-1-16
R. Price	a	1-1-16
B. Fordham	a	1-1-16
K. Bailey	a	1-1-16
D. Hemstchel	a	1-1-16

For Information Only

**ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center) [UET]**  
(Page 1 of 1)

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

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

Completed by: [Signature] Date 1/1/16 Time 0530

Reviewed by: [Signature] Date 1/4/16 Time 0700  
On-duty Supervisor

Comments:



**ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]**  
(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	Sat / Unsat.	1438	1/13/2016	BF
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.	1438	1/13/2016	BF
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.	1339	1/13/2016	BF
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	Sat / Unsat.	1352	1/13/2016	BF
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is 30 seconds.	Sat / Unsat.	1352	1/13/2016	BF
					4.34	Seconds	

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to O.E. Order 420.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANL Building T455-4 (PF-4): Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANL-DOE-ORDER-420.1B-EQ-2013-001

**ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]**

(Page 2 of 2)

SIRs	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).  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>6.84</b> Seconds	Sat/Unsat.	1402	1/13/2016	BF
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.	1110	1/13/16	BF
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.	1413	1/13/2016	BF
OC Operator Review and Page Count Complete							u

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: S. Fortham

Date: 1/13/16 Time: 1440

Reviewed by: [Signature]

Date: 1/13/16 Time: 1448

On-duty Supervisor Comments:



### ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

Note	Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
	Weekday:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Shift:		Initials:													
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	Description		Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)											
	SRs															
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc <sup>1</sup>													
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc <sup>1</sup>													
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc <sup>1</sup>													
	400 area laboratory exhaust header ΔP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc <sup>1</sup>													
4.1.1.3 4.1.2.3 <sup>2</sup>	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc <sup>1</sup>													
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc <sup>1</sup>													
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc <sup>1</sup>													
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc <sup>1</sup>													
	IFIT Facility ΔP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc													
	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc													
	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc													
	IRT Tunnel ΔP	PDI-901 or PDI-901	< 0.00 in. wc													

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS													
				Sat. / Unsat. (circle one)													
				Mon.	Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
Date:	Weekday:		Shift:		Initials:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .050	At least one fan/plenum is in service	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 AP > .050 or FR-804 Icon red and PDT-835 AP > .050	At least one fan/plenum is in service	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 AP > .050 or FR-806 Icon red and PDT-837 AP > .050	At least one fan/plenum is in service	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 AP > .050 or FR-808 Icon red and PDT-839 AP > .050	At least one fan/plenum is in service	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 AP > .050 or FR-812 Icon red and PDT-841 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	Date:													
					Weekday:		Tue:		Wed:		Thu:		Fri:		Sat:		Sun:	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's for < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			PDI-803-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-802-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
	PDI-853-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
	PDI-852-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
					Completion Time													
					0723	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719		

**SURVEILLANCE RESULTS**  
Sat. / Unsat. (circle one)

Note: <sup>1</sup> Mode 2 acceptance criteria is 2.00 in. wc  
 Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Completed by: *[Signature]* Date: 1/3/15 Time: 17:29  
 Reviewed by: *[Signature]* Date: 1/4/15 Time: 0700  
 On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

Description / Gauge	Date:	1/1/2016						
	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
	Initials:					BF	gh	gh
<b>SURVEILLANCE RESULTS (percentage)</b>								
Acceptance Criteria	NA							
Flammable Gas Channel Check DET-305-3 (LCD Reading)						0.0	0.0	0.0
CP-305-H (LED Reading)						0.0	0.0	0.0
(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value					0.0	0.0	0.0
	$\geq -0.1$ ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
Completion Time:						0740	0712	0701

For Information Only

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤2.0 & > 0' in. wc							1/1/2016	1/2/16	1/3/16
		PDI-894-2	≤2.0 & > 0' in. wc									
		'PDI-895-1	≤2.0 & > 0' in. wc									
		PDI-895-2	≤2.0 & > 0' in. wc									
		'PDI-817-1	≤2.0 & > 0' in. wc									
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-2	≤2.0 & > 0' in. wc									
		PDI-817-4	≤2.0 & > 0' in. wc									
		PDI-817-5	≤2.0 & > 0' in. wc									
		PDI-81 9-1	≤2.0 & > 0' in. wc									
		PDI-81 9-3	≤2.0 & > 0' in. wc									
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-4	≤2.0 & > 0' in. wc									
		'PDI-818-1	≤2.0 & > 0' in. wc									
		PDI-818-2	≤2.0 & > 0' in. wc									
		PDI-818-4	≤2.0 & > 0' in. wc									
		PDI-818-5	≤2.0 & > 0' in. wc									
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc									
		PDI-821-3	≤2.0 & > 0' in. wc									
		PDI-821-4	≤2.0 & > 0' in. wc									

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

TA55-S.P.-004, R17

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0' in. wc							1.13	1.13	1.13	1.13
		PDI-822-2	≤2.0 & > 0' in. wc							.61	.61	.61	.61
		PDI-822-4	≤2.0 & > 0' in. wc							.51	.51	.51	.51
		PDI-822-5	≤2.0 & > 0' in. wc							.55	.55	.55	.55
		'PDI-823-1	≤2.0 & > 0' in. wc							STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc							STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0' in. wc							STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0' in. wc							STBY	STBY	STBY	STBY
		'PDI-830-1	≤2.0 & > 0' in. wc							.70	.70	.70	.70
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc							.24	.24	.24	.25
		PDI-830-3	≤2.0 & > 0' in. wc							.28	.28	.28	.28
		'PDI-836-1	≤2.0 & > 0' in. wc							.07	.07	.07	.07
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0' in. wc							.60	.60	.60	.60
		PDI-836-3	≤2.0 & > 0' in. wc							.55	.55	.55	.54
		'PDI-837-1	≤2.0 & > 0' in. wc							.51	.51	.51	.51
		PDI-837-2	≤2.0 & > 0' in. wc							.38	.37	.37	.37
		PDI-837-3	≤2.0 & > 0' in. wc							.42	.41	.41	.41



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	$\leq 2.0$ & $> 0.1$ in. wc						1/1/2016	1/2/16	1/3/16	
		PDI-838-2	$\leq 2.0$ & $> 0.1$ in. wc									
		PDI-838-3	$\leq 2.0$ & $> 0.1$ in. wc									
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	$\leq 2.0$ & $> 0.1$ in. wc									
		PDI-839-2	$\leq 2.0$ & $> 0.1$ in. wc									
		PDI-839-3	$\leq 2.0$ & $> 0.1$ in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	$\leq 2.0$ & $> 0.1$ in. wc									
		PDI-810-2	$\leq 2.0$ & $> 0.1$ in. wc									
		PDI-810-3	$\leq 2.0$ & $> 0.1$ in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	$\leq 2.0$ & $> 0.1$ in. wc									
		PDI-811-2	$\leq 2.0$ & $> 0.1$ in. wc									
		PDI-811-3	$\leq 2.0$ & $> 0.1$ in. wc									
OC Operator Review and Page Count Complete (initials)												

'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: Sam A. Date 1/2/16 Time 0730 Reviewed by: [Signature] Date: 1/4/16 Time: 0700

On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc						1/1/16	1/2/16	1/3/16
		PDI-840-2	≤2.0 & > 0' in. wc						.16	.58	.16
		PDI-840-3	≤2.0 & > 0' in. wc						.50	.50	.50
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc						STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc						STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc						STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc						.33	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc						.47	.47	.47
		PDI-831-3	≤2.0 & > 0' in. wc						.36	.36	.36
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc						.34	.34	.34	
	PDI-832-2	≤2.0 & > 0' in. wc						.50	.60	.60	
	PDI-832-3	≤2.0 & > 0' in. wc						.55	.55	.54	
4.1.3.4	North Bleed off filter plenum (PF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc						.12	.12	.12
		PDI-807-2	≤2.0 & > 0' in. wc					.49	.49	.49	
		PDI-807-3	≤2.0 & > 0' in. wc					.48	.48	.48	
4.1.3.4	North Bleed off filter plenum (PF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc						off	off	off
		PDI-809-2	≤2.0 & > 0' in. wc						off	off	off
		PDI-809-3	≤2.0 & > 0' in. wc						off	off	off

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

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
				(in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc						11/1/16	1/2/16	1/3/16
		PDI-829-2	≤2.0 & > 0' in. wc								
		PDI-829-3	≤2.0 & > 0' in. wc								
		'PDI-833-1	≤2.0 & > 0' in. wc								
		PDI-833-2	≤2.0 & > 0' in. wc								
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc								
		'PDI-835-1	≤2.0 & > 0' in. wc								
		PDI-835-2	≤2.0 & > 0' in. wc								
		PDI-835-3	≤2.0 & > 0' in. wc								
		'PDI-815-1	≤2.0 & > 0' in. wc								
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc								
		PDI-815-4	≤2.0 & > 0' in. wc								
		PDI-815-5	≤2.0 & > 0' in. wc								
		'PDI-816-1	≤2.0 & > 0' in. wc								
		PDI-816-2	≤2.0 & > 0' in. wc								
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc								
		PDI-816-5	≤2.0 & > 0' in. wc								

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	Date:							
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:							
				SURVEILLANCE RESULTS (in. wc)							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤ 2.0 & > 0 <sup>1</sup> in. wc						1/11/16	1/21/16	1/31/16
		PDI-812-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-812-3	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-812-4	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-812-5	≤ 2.0 & > 0 <sup>1</sup> in. wc								
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-813-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-813-3	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-813-4	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-813-5	≤ 2.0 & > 0 <sup>1</sup> in. wc								
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-865-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-865-3	≤ 2.0 & > 0 <sup>1</sup> in. wc								
4.1.3.4	IFTT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-863-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								



**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0 <sup>1</sup> in. wc						1/1/16	1/2/16	1/3/16
		PDI-857-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-856-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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								
				Completion time							
1 Non TSR requirement				OC Operator Review and Page Count Complete (initials)							
Note: SR 4.1.3.4 applies during mode 1 and mode 2.											
Completed by: <u>Sam M.</u> Date <u>1/3/16</u> Time <u>0717</u>				Reviewed by: <u>[Signature]</u>							
Comments:				Date: <u>1/4/16</u> Time: <u>0700</u>							
				On-duty Supervisor							

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	042252	PF-10 Thermistor File No.:	103765	V-701 Thermistor File No.:	103761
	Calibration Expiration Date:	6/13/16	Calibration Expiration Date:	6/24/16	Calibration Expiration Date:	6/24/16
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	103763
	Calibration Expiration Date:	6/13/16	Calibration Expiration Date:	6/24/16	Calibration Expiration Date:	6/24/16

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature													
SR	Description	Acceptance Criteria	Date:							Completion Time:			
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
			Weekday:	Initials:									
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed	Calibration dates have not elapsed											
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F											
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F											
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F											
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F											
OC Operator Review and Page Count Complete (initials)													

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: 11/3/2016 Time: 0949

Reviewed by: [Signature] Date: 1/4/16 Time: 0700

On-duty Supervisor

Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria (in. wc)	SURVEILLANCE RESULTS															
			Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	≤-1.0 in. wc <sup>1</sup>	2.00	-2.01	-2.00	-2.02	-1.96	-1.99	-2.01	-2.01	-2.01	-2.01	-2.01	-1.98	-1.98	-1.99		
		PDI-814-1 or PDI-814-2	-2.03	-1.92	-1.94	-1.92	-1.92	-1.92	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.92	-1.92	-1.92	
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc <sup>1</sup>	-1.91	-1.98	-1.98	-1.98	-1.98	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.98	-1.98	-1.98	
		PDI-870-1 or PDI-870-2	-1.91	-1.97	-1.94	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.97	-1.97	-1.98	
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc <sup>1</sup>	-2.21	-2.21	-2.20	-2.21	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	
		PDI-864-1 or PDI-864-2	-2.24	-2.21	-2.23	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	
	400 area laboratory exhaust header ΔP	≤-1.0 in. wc <sup>1</sup>	-2.20	-1.99	-2.10	-2.20	-2.19	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	
		PDI-803-1 or PDI-803-2	-2.24	-2.21	-2.23	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area laboratory header ΔP	≤-0.05 in. wc <sup>1</sup>	-2.20	-1.99	-2.10	-2.20	-2.19	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20		
		PDI-853-1 or PDI-853-2	-2.24	-2.21	-2.23	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21		
400 area laboratory header ΔP	≤-0.05 in. wc <sup>1</sup>	-2.21	-2.20	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21			
	PDI-852-1 or PDI-852-2	-2.19	-2.20	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21			
IFT Facility ΔP	≤-0.05 in. wc	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19			
	PDI-865-4 or PDI-865-5	-2.10	-2.10	-2.11	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10			
North basement ΔP	< 0.00 in. wc	-2.10	-2.10	-2.11	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10			
	PDI-804-1 or PDI-804-2	-2.10	-2.10	-2.11	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10			
South basement ΔP	< 0.00 in. wc	-2.13	-2.19	-2.21	-2.14	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18			
	PDI-854-1 or PDI-854-2	-2.13	-2.19	-2.21	-2.14	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18			
IRT Tunnel ΔP	< 0.00 in. wc	-2.13	-2.19	-2.21	-2.14	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18			
	PDI-901 or PDI-901	-2.13	-2.19	-2.21	-2.14	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18	-2.18			

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS															
				Sat. / Unsat. (circle one)															
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:	1/4/16	1/5/16	1/6/16	1/7/16	1/8/16	1/9/16	1/10/16	1/11/16	1/12/16	1/13/16	1/14/16	1/15/16	1/16/16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.								
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
				Initials:	u	p													
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .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 AP > .050 or FR-804 Icon red and PDT-835 AP > .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 AP > .050 or FR-806 Icon red and PDT-837 AP > .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 AP > .050 or FR-808 Icon red and PDT-839 AP > .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	Sat
Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .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	Sat



**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS									
					Sat. / Unsat. (circle one)									
					Mon.	Tue	Wed	Thu	Fri	Sat	Sun			
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	1/11/16	1/15/16	1/20/16	1/21/16	1/22/16	1/23/16	1/24/16	1/25/16		
			PDI-803-2	PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	u	u	u	u	u	u	u	u	u	u
			PDI-802-2	PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	u	u	u	u	u	u	u	u	u	u
PDI-853-2	PDI-854-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	u	u	u	u	u	u	u	u	u	u		
	PDI-852-2	PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
Completion Time					0730	1930	0730	1930	0730	1930	0730	1930		

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

Completed by: AK Date 1-10-16 Time 1930 Reviewed by: [Signature] Date: 1/11/16 Time: 1330

On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	1. 4. 16	1/5/16	1/6/16	1/7/16	1/8/16	1-9-16	1-10-16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	PT	Am	Am	Am	Am	PT	PT	
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
SR 4.4.1.1	Description / Gauge	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	
		$\geq -0.1$ ; $\leq +0.1$	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	
		Completion Time:	0741	0845	0751	0750	0748	0715	0755	

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

(Page 2 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				1-4-16	1-5-16	1-6-16	1-7-16	1-8-16	1-9-16	1-10-16
				Weekday:						
				Initials:	PT	Qu	Qu	Qu	Qu	PT
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & >0' in. wc	.05	.05	.05	.05	.05	.05	.05
		PDI-894-2	≤2.0 & >0' in. wc	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & >0' in. wc	.05	.05	.05	.05	.05	.05	.05
		PDI-895-2	≤2.0 & >0' in. wc	.59	.59	.59	.60	.60	.61	.61
		PDI-817-1	≤2.0 & >0' in. wc	.31	.31	.31	.31	.31	.31	.31
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	≤2.0 & >0' in. wc	.32	.32	.32	.32	.32	.32	.32
		PDI-817-4	≤2.0 & >0' in. wc	.35	.35	.35	.35	.35	.35	.35
		PDI-817-5	≤2.0 & >0' in. wc	.32	.32	.32	.32	.32	.32	.32
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤2.0 & >0' in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-819-3	≤2.0 & >0' in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & >0' in. wc	.35	.36	.36	.36	.36	.35	.35
		PDI-818-1	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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TA55-S.P-004, R17

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				1-4-16	1-5-16	1-6-16	1-7-16	1-8-16	1-9-16	1-10-16
				Weekday:						
				Initials:	PT	PT	PT	PT	PT	PT
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1 PDI-822-2 PDI-822-4 PDI-822-5	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	1.15 .60 .51 .55	1.14 .60 .51 .55	1.14 .60 .51 .55	1.14 .60 .51 .55	1.14 .60 .51 .55	1.15 .60 .51 .55	1.15 .60 .51 .55
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	'PDI-823-1 PDI-823-2 PDI-823-4 PDI-823-5	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	'PDI-830-1 PDI-830-2 PDI-830-3	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	.70 .22 .28	.69 .24 .28	.69 .24 .28	.69 .24 .28	.69 .24 .28	.69 .23 .28	.69 .23 .28
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	'PDI-836-1 PDI-836-2 PDI-836-3	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	.07 .60 .53	.07 .60 .54	.07 .60 .54	.07 .60 .54	.07 .60 .54	.07 .60 .53	.07 .60 .53
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	'PDI-837-1 PDI-837-2 PDI-837-3	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	.51 .38 .40	.51 .37 .41	.51 .37 .41	.51 .37 .41	.51 .37 .41	.51 .38 .41	.51 .38 .41

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday: Initials:	1-4-16 Mon.	1-5-16 Tue.	1-6-16 Wed.	1-7-16 Thu.	1-8-16 Fri.	1-9-16 Sat.	1-10-16 Sun.	
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	PT	.50	.49	.49	.49	.49	.49	.49	.49
		PDI-838-2	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51	.51
		PDI-838-3	≤2.0 & > 0' in. wc		.58	.56	.56	.56	.56	.56	.56	.56
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc		.43	.43	.43	.43	.43	.43	.43	.43
		PDI-839-2	≤2.0 & > 0' in. wc		.55	.56	.56	.56	.56	.56	.56	.56
		PDI-839-3	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc		.15	.15	.15	.15	.15	.15	.15	.15
		PDI-810-2	≤2.0 & > 0' in. wc		.49	.46	.46	.46	.46	.46	.46	.46
		PDI-810-3	≤2.0 & > 0' in. wc		.46	.44	.44	.44	.44	.44	.44	.44
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	≤2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OC Operator Review and Page Count Complete (initials)					0753	0930	0816	0812	0800	0737	0748	

'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 Tawill Date: 1/4/16 Time: 1350  
Reviewed by: \_\_\_\_\_ On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	Jm	1/4/16	1/5/16	1/6/16	1/7/2016	1/8/2016	1/9/2016	1-10-16	
		PDI-840-2	≤2.0 & > 0' in. wc									
		PDI-840-3	≤2.0 & > 0' in. wc									
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	Jm								
		PDI-841-2	≤2.0 & > 0' in. wc									
		PDI-841-3	≤2.0 & > 0' in. wc									
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc									
		PDI-831-2	≤2.0 & > 0' in. wc									
		PDI-831-3	≤2.0 & > 0' in. wc									
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc										
	PDI-832-2	≤2.0 & > 0' in. wc										
	PDI-832-3	≤2.0 & > 0' in. wc										
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc									
		PDI-807-2	≤2.0 & > 0' in. wc									
		PDI-807-3	≤2.0 & > 0' in. wc									
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc									
		PDI-809-2	≤2.0 & > 0' in. wc									
		PDI-809-3	≤2.0 & > 0' in. wc									

\*

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							Sun.
					Date:	Weekday:	1/4/16	1/5/16	1/6/16	1/7/2016	1/8/2016	
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc	AM	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	1-10-16	
		PDI-829-2	≤2.0 & > 0' in. wc	AM					BF			
		PDI-829-3	≤2.0 & > 0' in. wc	AM						BF		
4.1.1.7	100 area re-circulation filter plenum (IIVP-803) AP	'PDI-833-1	≤2.0 & > 0' in. wc	AM								
		PDI-833-2	≤2.0 & > 0' in. wc									
		PDI-833-3	≤2.0 & > 0' in. wc									
		'PDI-835-1	≤2.0 & > 0' in. wc									
		PDI-835-2	≤2.0 & > 0' in. wc									
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	≤2.0 & > 0' in. wc									
		'PDI-815-1	≤2.0 & > 0' in. wc									
		PDI-815-2	≤2.0 & > 0' in. wc									
		PDI-815-4	≤2.0 & > 0' in. wc									
		PDI-815-5	≤2.0 & > 0' in. wc									
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	'PDI-816-1	≤2.0 & > 0' in. wc									
		PDI-816-2	≤2.0 & > 0' in. wc									
		PDI-816-4	≤2.0 & > 0' in. wc									
		PDI-816-5	≤2.0 & > 0' in. wc									

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)													
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.					
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & >0 <sup>1</sup> in. wc	GM	1/4/16	Mon.	1/5/16	Tue.	1/6/16	Wed.	1/7/2016	Thu.	1/8/2016	Fri.	1/9/2016	Sat.	1-10-16	Sun.
		PDI-812-2	≤2.0 & >0 <sup>1</sup> in. wc	GM	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & >0 <sup>1</sup> in. wc	GM	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & >0 <sup>1</sup> in. wc	GM	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & >0 <sup>1</sup> in. wc	GM	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & >0 <sup>1</sup> in. wc	GM	1.0	1.01	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		PDI-813-2	≤2.0 & >0 <sup>1</sup> in. wc	GM	.31	.31	.31	.31	.31	.31	.32	.32	.32	.32	.32	.32	.32	.32
		PDI-813-3	≤2.0 & >0 <sup>1</sup> in. wc	GM	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.27	.27	.27	.27
		PDI-813-4	≤2.0 & >0 <sup>1</sup> in. wc	GM	.36	.37	.37	.37	.37	.37	.38	.38	.38	.38	.38	.38	.38	.38
		PDI-813-5	≤2.0 & >0 <sup>1</sup> in. wc	GM	.48	.48	.48	.48	.48	.48	.48	.48	.48	.49	.49	.49	.49	.49
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & >0 <sup>1</sup> in. wc	GM	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	
		PDI-865-2	≤2.0 & >0 <sup>1</sup> in. wc	GM	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	
		PDI-865-3	≤2.0 & >0 <sup>1</sup> in. wc	GM	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	
4.1.3.4	IFTT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & >0 <sup>1</sup> in. wc	GM	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	
		PDI-863-2	≤2.0 & >0 <sup>1</sup> in. wc	GM	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	



**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS						
					Date:	Weekday:	1/4/16	1/5/16	1/6/16	1/7/2016 08/14	1/9/2016
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc								
		PDI-857-2	≤ 2.0 & > 0' in. wc								
	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc								
		PDI-856-2	≤ 2.0 & > 0' in. wc								
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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								
OC Operator Review and Page Count Complete (initials)											
Non TSR requirement											

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

Completed by: Paul Trujillo Date 1-10-16 Time 0802 Reviewed by: [Signature] Date: 1/11/16 Time: 1330

\* Comments: 1/5/16 FR 802 's mday noise could be bawny noise 4.11.7

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 042252	PF-10 Thermistor File No.: 103765	V-701 Thermistor File No.: 103761
	Calibration Expiration Date: 6/13/16	Calibration Expiration Date: 6/24/16	Calibration Expiration Date: 6/24/16
	PF-11 Thermometer File No.: 039746	PF-11 Thermistor File No.: 040376	V-704 Thermistor File No.: 103763
	Calibration Expiration Date: 6/13/16	Calibration Expiration Date: 6/24/16	Calibration Expiration Date: 6/24/16

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)							Sat.	Sun.
			Date:	Mon.	Tue.	Wed.	Thu.	Fri.			
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	1/4/16	1/5/16	1/6/16	1/7/16	1/8/2016	1/9/16	1/10/16		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	51.3	49.6	51.2	49.4	50.85	49.4	49.3		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	47.2	46.1	47.1	45.9	46.70	48.3	46.7		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	62.6	62.2	62.2	62.1	62.02	62.0	61.1		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	65.4	63.7	66.3	66.1	62.80	66.5	65.7		
	OC Operator Review and Page Count Complete (initials)	Completion Time:	0818	0825	0835	0905	0840	0835	0825		

Temperatures should be recorded using Reference Thermometer FLUKE Model I 524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: FILE Date: 1/10/16 Time: 0825

Reviewed by: [Signature] Date: 1/11/16 Time: 1330

On-duty Supervisor: [Signature]

Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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Note	Date:	1/11/16		1/12/16		1/13/16		1/14/16		1/15/16		1/16/16		1/17/16	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDIs are used.	Weekday:														
	Shift:														
	Initials:														
<b>SRS</b>	<b>Gauge Acceptance Criteria</b>	<b>SURVEILLANCE RESULTS (in. wc)</b>													
4.1.1.1 4.1.2.1 <sup>2</sup>	PDI-814-1 or PDI-814-2	1.06	2.00	2.00	2.01	1.97	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.99
	PDI-820-1 or PDI-820-2	1.97	1.92	1.98	1.92	1.92	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.92
4.1.1.2 4.1.1.5 4.1.2.2	PDI-870-1 or PDI-870-2	1.98	1.99	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98
	PDI-864-1 or PDI-864-2	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	1.97
4.1.1.3 4.1.2.3	PDI-803-1 or PDI-803-2	0.23	0.19	0.19	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
	PDI-802-1 or PDI-802-2	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23
4.1.1.2 4.1.1.5 4.1.2.2	PDI-853-1 or PDI-853-2	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20
	PDI-852-1 or PDI-852-2	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
4.1.1.3 4.1.2.3	PDI-865-4 or PDI-865-5	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
	PDI-804-1 or PDI-804-2	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
4.1.1.3 4.1.2.3	PDI-854-1 or PDI-854-2	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	PDI-901 or PDI-901	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS							
				Sat. / Unsat. (circle one)							
4.1.1.6	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.	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050 FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050 FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050 FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050 FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	1/11/16	1/12/16	1/13/16	1/14/16	1/15/16	1/16/16	1/17/16	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				AM	PM	AM	PM	AM	PM	AM	PM

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

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Note		Date:	Mon.		Tue		Wed		Thu		Fri		Sat.		Sun.		
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:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
SRs	Description	Area	Acceptance Criteria		SURVEILLANCE RESULTS												
			Sat. / Unsat. (circle gage)														
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-803-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		100 Area	PDI-820-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-802-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
300 Area	PDI-870-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
	PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
400 Area	PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
	PDI-864-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
Completion Time			07:39	1928	07:51	1920	07:24	1930	07:20	1930	07:27	1926	07:21	1926	07:21	1922	

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: 1/17/16 Time: 1922 Reviewed by: [Signature] Date: 1/17/16 Time: 0740

On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Date:	1/11/16	1/12/16	1/13/16	1/14/16	1/15/2015	01/16/16	01/17/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Initials:			gda	gda	gda	gda	EF	m-x	[Signature]
Acceptance Criteria									
4.4.1.1	Flammable Gas Channel Check	NA							
	DET-305-3 (LCD Reading)		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)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(LCD Reading) (LED Reading)	$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:		0827	0830	0915	0820	0725	0751	0805

For Information Only

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	11/11/16	11/12/16	11/13/16	11/14/16	11/15/2016	01/16/16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
				Initials:	Dr	Um	Am	Am	JK			
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	≤ 2.0 & > 0' in. wc	.05	.05	.05	.05	.04	.05	.05	.05	.05
		PDI-894-2	≤ 2.0 & > 0' in. wc	.51	.51	.51	.51	.52	.52	.52	.52	.52
4.1.3.4	South Corridor supply (HVP-810) AP	'PDI-895-1	≤ 2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-895-2	≤ 2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.60	.60	.60	.60
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1	≤ 2.0 & > 0' in. wc	.31	.31	.31	.31	.32	.31	.31	.31	.31
		PDI-817-2	≤ 2.0 & > 0' in. wc	.32	.32	.32	.32	.32	.32	.32	.32	.32
		PDI-817-4	≤ 2.0 & > 0' in. wc	.36	.36	.36	.36	.36	.36	.36	.36	.36
		PDI-817-5	≤ 2.0 & > 0' in. wc	.32	.32	.32	.32	.33	.32	.33	.32	.32
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-819-3	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.42	.41	.42	.42	.41
		PDI-819-4	≤ 2.0 & > 0' in. wc	.35	.35	.35	.35	.35	.35	.35	.35	.35
		'PDI-818-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤ 2.0 & > 0' in. wc	1/11/16	1/12/16	1/13/16	1/14/16	1/15/2016	1/16/16	1/17/16	
		PDI-822-2	≤ 2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.60	.60	.60
		PDI-822-4	≤ 2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-822-5	≤ 2.0 & > 0' in. wc	.55	.55	.55	.55	.55	.55	.55	.55
		'PDI-823-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		'PDI-830-1	≤ 2.0 & > 0' in. wc	.69	.69	.69	.69	.69	.69	.69	.69
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤ 2.0 & > 0' in. wc	.76	.76	.76	.76	.76	.76	.76	
		PDI-830-3	≤ 2.0 & > 0' in. wc	.78	.78	.78	.78	.78	.78	.78	
		'PDI-836-1	≤ 2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤ 2.0 & > 0' in. wc	.60	.59	.59	.60	.60	.59	.59	
		PDI-836-3	≤ 2.0 & > 0' in. wc	.55	.54	.54	.55	.55	.55	.55	
		'PDI-837-1	≤ 2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	
		PDI-837-2	≤ 2.0 & > 0' in. wc	.37	.37	.37	.37	.37	.37	.37	
		PDI-837-3	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	1/11/16	.49	.49	.49	.49	.49	.49	.49	1/17/16
		PDI-838-2	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51	
		PDI-838-3	≤2.0 & > 0' in. wc		.57	.57	.56	.57	.57	.57	.57	
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc		.43	.43	.43	.43	.43	.43	.43	
		PDI-839-2	≤2.0 & > 0' in. wc		.55	.55	.55	.55	.55	.55	.55	
		PDI-839-3	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51	
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc		.15	.15	.15	.15	.15	.15	.15	
		PDI-810-2	≤2.0 & > 0' in. wc		.49	.48	.48	.47	.47	.47	.47	
		PDI-810-3	≤2.0 & > 0' in. wc		.48	.46	.46	.46	.46	.45	.45	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-811-2	≤2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-811-3	≤2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	
Completion Time				0920	0905	0911	0911	0901	0820	0754	0824	
OC Operator Review and Page Count Complete (initials)												

'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: 1/17/16 Time: 0824 Reviewed by: Date: 1/17/16 Time: 0800

On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	<2.0 & > 0' in. wc	1/11/16 Mon.	1/12/16 Tue.	1/13/16 Wed.	1/14/16 Thu.	1/15/16 Fri.	01/16/16 Sat.	1/17/16 Sun.	
		PDI-840-2	<2.0 & > 0' in. wc								
		PDI-840-3	<2.0 & > 0' in. wc								
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	<2.0 & > 0' in. wc								
		PDI-841-2	<2.0 & > 0' in. wc								
		PDI-841-3	<2.0 & > 0' in. wc								
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	<2.0 & > 0' in. wc								
		PDI-831-2	<2.0 & > 0' in. wc								
		PDI-831-3	<2.0 & > 0' in. wc								
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	<2.0 & > 0' in. wc									
	PDI-832-2	<2.0 & > 0' in. wc									
	PDI-832-3	<2.0 & > 0' in. wc									
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	<2.0 & > 0' in. wc								
		PDI-807-2	<2.0 & > 0' in. wc								
		PDI-807-3	<2.0 & > 0' in. wc								
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	<2.0 & > 0' in. wc								
		PDI-809-2	<2.0 & > 0' in. wc								
		PDI-809-3	<2.0 & > 0' in. wc								

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:	1/11/16	1/12/16	1/13/16	1/14/16	1/15/2016	1/17/16
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc	AP	1/11/16	1/12/16	1/13/16	1/14/16	1/15/2016	1/17/16	
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
						AP	AP	AP	BF	WZ	
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	'PDI-833-1	≤2.0 & > 0' in. wc	AP	1/11/16	1/12/16	1/13/16	1/14/16	1/15/2016	1/17/16	
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
						AP	AP	AP	BF	WZ	
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	'PDI-815-1	≤2.0 & > 0' in. wc	AP	1/11/16	1/12/16	1/13/16	1/14/16	1/15/2016	1/17/16	
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
						AP	AP	AP	BF	WZ	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	'PDI-816-1	≤2.0 & > 0' in. wc	AP	1/11/16	1/12/16	1/13/16	1/14/16	1/15/2016	1/17/16	
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
						AP	AP	AP	BF	WZ	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)								
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	'PDI-812-1	≤2.0 & > 0' in. wc	gn	1/11/16	1/12/16	1/13/16	1/14/16	1/15/2016	01/16/16	1/17/16		
		PDI-812-2	≤2.0 & > 0' in. wc	gn									
		PDI-812-3	≤2.0 & > 0' in. wc	gn									
		PDI-812-4	≤2.0 & > 0' in. wc	gn									
		PDI-812-5	≤2.0 & > 0' in. wc	gn									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-1	≤2.0 & > 0' in. wc	gn	1.0	1.0	1.01	1.0	1.0	1.00	1.0		
		PDI-813-2	≤2.0 & > 0' in. wc	gn	.31	.31	.31	.31	.32	.32	.32		
		PDI-813-3	≤2.0 & > 0' in. wc	gn	.25	.25	.25	.25	.23	.23	.25		
		PDI-813-4	≤2.0 & > 0' in. wc	gn	.38	.38	.38	.38	.38	.38	.38		
		PDI-813-5	≤2.0 & > 0' in. wc	gn	.49	.49	.49	.49	.49	.49	.49		
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	'PDI-865-1	≤2.0 & > 0' in. wc	gn	.04	.04	.03	.03	.04	.04	.04		
		PDI-865-2	≤2.0 & > 0' in. wc	gn	.34	.34	.32	.34	.35	.35	.38		
		PDI-865-3	≤2.0 & > 0' in. wc	gn	.41	.41	.40	.40	.40	.40	.41		
4.1.3.4	IFTT supply filter plenum (IIVP-863) ΔP	'PDI-863-1	≤2.0 & > 0' in. wc	gn	.06	.06	.06	.07	.07	.07	.06		
		PDI-863-2	≤2.0 & > 0' in. wc	gn	.28	.28	.28	.28	.28	.28	.28		

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS																		
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.										
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.	
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.	
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.	
			0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.	
			0 lb/ft <sup>3</sup> 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	per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.	
OC Operator Review and Page Count Complete (initials)					per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.
Completion time					per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.
Non TSR requirement					per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.
Note: SR 4.1.3.4 applies during mode 1 and mode 2.					per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.
Completed by: [Signature] Date 1/17/16 Time 0825 Reviewed by: [Signature] On-duty Supervisor [Signature]					per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.
Comments: 1/11/16 411.7 FR807 noise level has increased since last week. Notified OPS at 0850					per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.
1/12/16 411.7 evb at service for bearing replacement.					per	1/11/16	Mon.	per	1/12/16	Tue.	per	1/13/16	Wed.	per	1/14/16	Thu.	per	1/15/2016	Fri.	CMC/Ag	Sat.	1/17/16	Sun.

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.:	103765	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/24/16	Calibration Expiration Date:
	PF-11 Thermometer File No.:	040376	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/24/16	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Initials:
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	1-11-16		AS	KB	AS	BF	TH	TH	BC	
4.3.1.1'	RECORD fire water storage tank V-701 temperature	1-12-16									
4.3.1.1'	RECORD fire water storage tank V-704 temperature	1-13-16									
4.3.1.3'	RECORD PF-10 room temperature	1-14-16									
4.3.1.3'	RECORD PF-11 room temperature	1-15-16									
	Completion Time:	09:47									
	OC Operator Review and Page Count Complete (initials)	[Signature]									

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: 01-17-16 Time: 07:52  
 Reviewed by: [Signature] Date: 1/19/16 Time: 07:20  
 On-duty Supervisor  
 Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)															
			Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	≤ -1.0 in. wc <sup>1</sup>	1-18-16	-1.99	-1.99	-2.00	-1.98	2.00	-2.01	-1.99	-1.99	2.00	-1.78	-1.99	-2.00	-2.01	-1.99	
	100 area glovebox exhaust header ΔP	≤ -1.0 in. wc <sup>1</sup>	1-20-16	-1.92	-1.93	-1.92	-1.91	1.92	-1.88	-1.91	-1.92	-1.92	-1.73	-1.93	-1.93	-1.93	-1.92	
	300 area glovebox exhaust header ΔP	≤ -1.0 in. wc <sup>1</sup>	1-20-16	-1.98	-1.99	-1.99	-1.99	1.99	-1.95	-1.99	-1.99	1.99	-1.98	-1.99	-1.99	-1.99	-1.99	
	400 area glovebox exhaust header ΔP	≤ -1.0 in. wc <sup>1</sup>	1-20-16	-1.98	-1.98	-1.87	-1.87	1.86	-1.85	-1.86	-1.86	1.86	-1.85	-1.85	-1.85	-1.85	-1.83	
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header ΔP	≤ -0.05 in. wc <sup>1</sup>	1-20-16	-2.00	-2.00	-2.00	-2.00	2.00	-2.00	-2.00	-2.00	2.00	-2.00	-2.00	-2.00	-2.00		
	100 area laboratory header ΔP	≤ -0.05 in. wc <sup>1</sup>	1-20-16	-2.23	-2.22	-2.23	-2.23	2.23	-2.23	-2.23	-2.23	2.23	-2.23	-2.23	-2.23	-2.21		
	300 area laboratory header ΔP	≤ -0.05 in. wc <sup>1</sup>	1-20-16	-2.20	-2.19	-2.19	-2.19	2.19	-2.19	-2.19	-2.19	2.19	-2.19	-2.19	-2.20	-2.19		
	400 area laboratory header ΔP	≤ -0.05 in. wc <sup>1</sup>	1-20-16	-2.21	-2.20	-2.20	-2.20	2.20	-2.20	-2.20	-2.20	2.20	-2.20	-2.20	-2.20	-2.20		
4.1.1.3 4.1.2.3 <sup>2</sup>	IFT Facility ΔP	≤ -0.05 in. wc	1-20-16	-2.19	-2.19	-2.19	-2.19	2.19	-2.17	-2.18	-2.19	2.19	-2.19	-2.19	-2.19	-2.19		
	North basement ΔP	< 0.00 in. wc	1-20-16	-2.10	-2.10	-2.10	-2.10	2.10	-2.11	-2.10	-2.10	2.10	-2.10	-2.10	-2.10	-2.10		
	South basement ΔP	< 0.00 in. wc	1-20-16	-2.12	-2.11	-2.11	-2.10	2.10	-2.10	-2.10	-2.10	2.10	-2.11	-2.11	-2.11	-2.10		
	IRT Tunnel ΔP	< 0.00 in. wc	1-20-16	-2.53	-2.26	-2.34	-2.15	2.10	-2.14	-2.14	-2.14	2.14	-2.13	-2.13	-2.13	-2.12		

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS									
				Sat. / Unsat. (circle one)									
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:	Weekday:		Wed.		Thu.		Fri.		Sat.		Sun.	
		Mon.	Tue.	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Initials:	Shift:	Weekday:		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .050	At least one fan/plenum is in service	1-18-16	1-19-16	1-20-16	1-21-16	1-22-16	1-23-16	1-24-16			
	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 AP > .050 or FR-804 Icon red and PDT-835 AP > .050	At least one fan/plenum is in service										
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 AP > .050 or FR-806 Icon red and PDT-837 AP > .050	At least one fan/plenum is in service										
	400 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 AP > .050 or FR-808 Icon red and PDT-839 AP > .050	At least one fan/plenum is in service										
	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .050	At least one fan/plenum is in service										



**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	Date: 1-18-16										
					Mon.	Tue	Wed	Thu	Fri	Sat	Sun				
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	1-18-16	1-19-16	1-20-16	1-21-16	1-22-16	1-23-16	1-24-16				
			PDI-803-2		AM	PM	AM	PM	AM	PM					
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	1-18-16	1-19-16	1-20-16	1-21-16	1-22-16	1-23-16	1-24-16				
			PDI-802-2		AM	PM	AM	PM	AM	PM					
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	1-18-16	1-19-16	1-20-16	1-21-16	1-22-16	1-23-16	1-24-16						
	PDI-853-2		AM	PM	AM	PM	AM	PM							
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	1-18-16	1-19-16	1-20-16	1-21-16	1-22-16	1-23-16	1-24-16						
	PDI-852-2		AM	PM	AM	PM	AM	PM							
Completion Time					198	0130	1926	0127	1923	0130	1922	0130	1916	0130	1920

**SURVEILLANCE RESULTS**

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

Completed by: [Signature] Date: 1/24/16 Time: 1920 Reviewed by: [Signature] Date: 1/25/16 Time: 0900

On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Date:	1/18/16	1/19/16	1/20/16	1/21/16	1/22/16	1/23/2016
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.4.1.1	Flammable Gas Channel Check	Initials:	JM	JM	JM	JM	JM	BF
	DET-305-3 (LCD Reading)	Acceptance Criteria	NA	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
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0
		$\geq -0.1$ ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0805	0826	0805	0802	0840	0805

**SURVEILLANCE RESULTS (percentage)**

For Information Only

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Date: 1/18/16	1/19/16	1/20/16	1/21/16	1/22/16	1/23/16	1/24/16
				Weekday:						
				Initials:	gm	gm	gm	gm	BF	gm
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤ 2.0 & > 0' in. wc	.05	.05	OFF	OFF	.05	.05	.05
		PDI-894-2	≤ 2.0 & > 0' in. wc	.51	.51	OFF	OFF	.51	.52	.51
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤ 2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05	.05
		PDI-895-2	≤ 2.0 & > 0' in. wc	.59	.60	.60	.60	.59	.59	.59
		PDI-817-1	≤ 2.0 & > 0' in. wc	.31	.31	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	≤ 2.0 & > 0' in. wc	.32	.32	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤ 2.0 & > 0' in. wc	.35	.35	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤ 2.0 & > 0' in. wc	.32	.32	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤ 2.0 & > 0' in. wc	.41	.41	STBY	STBY	STBY	STBY	STBY
		PDI-819-3	≤ 2.0 & > 0' in. wc	.42	.42	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤ 2.0 & > 0' in. wc	.36	.36	STBY	STBY	STBY	STBY	STBY
		PDI-818-1	≤ 2.0 & > 0' in. wc	STBY	STBY	.27	.27	.27	.27	.27
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤ 2.0 & > 0' in. wc	STBY	STBY	.35	.33	.33	.34	.33
		PDI-818-4	≤ 2.0 & > 0' in. wc	STBY	STBY	.38	.38	.39	.38	.38
		PDI-818-5	≤ 2.0 & > 0' in. wc	STBY	STBY	.40	.39	.39	.39	.39
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤ 2.0 & > 0' in. wc	STBY	STBY	.40	.40	.40	.40	.40
		PDI-821-3	≤ 2.0 & > 0' in. wc	STBY	STBY	.42	.42	.44	.44	.44
		PDI-821-4	≤ 2.0 & > 0' in. wc	STBY	STBY	.39	.39	.39	.39	.39

\*

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Dates:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤ 2.0 & > 0' in. wc	1/18/16	1/19/16	1/20/16	1/21/16	1/22/16	1/23/16	1/24/16	
		PDI-822-2	≤ 2.0 & > 0' in. wc		.60						
		PDI-822-4	≤ 2.0 & > 0' in. wc		.51						
		PDI-822-5	≤ 2.0 & > 0' in. wc		.55						
		'PDI-823-1	≤ 2.0 & > 0' in. wc		STBY		.11		.11		
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & > 0' in. wc		STBY		.58		.58		
		PDI-823-4	≤ 2.0 & > 0' in. wc		STBY		.62		.61		
		PDI-823-5	≤ 2.0 & > 0' in. wc		STBY		.61		.61		
		'PDI-830-1	≤ 2.0 & > 0' in. wc		.67		OFF		OFF		
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤ 2.0 & > 0' in. wc		.72		OFF		OFF		
		PDI-830-3	≤ 2.0 & > 0' in. wc		.76		OFF		OFF		
		'PDI-836-1	≤ 2.0 & > 0' in. wc		.07		.07		.07		
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-836-2	≤ 2.0 & > 0' in. wc		.59		.60		.60		
		PDI-836-3	≤ 2.0 & > 0' in. wc		.52		.51		.53		
		'PDI-837-1	≤ 2.0 & > 0' in. wc		.51		.52		.51		
		PDI-837-2	≤ 2.0 & > 0' in. wc		.37		.38		.38		
		PDI-837-3	≤ 2.0 & > 0' in. wc		.41		.41		.41		

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤ 2.0 & > 0' in. wc	1/18/16	1/19/16	1/20/16	1/21/16	1/22/16	1/23/16	1/24/16		
		PDI-838-2	≤ 2.0 & > 0' in. wc									
		PDI-838-3	≤ 2.0 & > 0' in. wc									
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤ 2.0 & > 0' in. wc									
		PDI-839-2	≤ 2.0 & > 0' in. wc									
		PDI-839-3	≤ 2.0 & > 0' in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤ 2.0 & > 0' in. wc									
		PDI-810-2	≤ 2.0 & > 0' in. wc									
		PDI-810-3	≤ 2.0 & > 0' in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤ 2.0 & > 0' in. wc									
		PDI-811-2	≤ 2.0 & > 0' in. wc									
		PDI-811-3	≤ 2.0 & > 0' in. wc									
OC Operator Review and Page Count Complete (initials)				0847	0958	0857	0815	0825	0805	0752		

'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 1/24/16 Time 0752 Reviewed by: [Signature] Date: 1/25/16 Time: 0900  
 Comments: 4.1.34 F5841 FF829 off full repairs On-duty Supervisor [Signature]

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)								
					Dates:								
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	Am									
		PDI-840-2	≤2.0 & > 0 in' wc										
		PDI-840-3	≤2.0 & > 0' in. wc										
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	Am									
		PDI-841-2	≤2.0 & > 0' in. wc										
		PDI-841-3	≤2.0 & > 0' in. wc										
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	Am									
		PDI-831-2	≤2.0 & > 0' in. wc										
		PDI-831-3	≤2.0 & > 0' in. wc										
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	Am										
	PDI-832-2	≤2.0 & > 0' in. wc											
	PDI-832-3	≤2.0 & > 0' in. wc											
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	Am									
		PDI-807-2	≤2.0 & > 0' in. wc										
		PDI-807-3	≤2.0 & > 0' in. wc										
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	Am									
		PDI-809-2	≤2.0 & > 0' in. wc										
		PDI-809-3	≤2.0 & > 0' in. wc										

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc	Am	1/18/16	1/19/16	1/20/16	1/21/16	1/22/16	1/23/16	1/24/16
		PDI-829-2	≤2.0 & > 0' in. wc								
		PDI-829-3	≤2.0 & > 0' in. wc								
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	'PDI-833-1	≤2.0 & > 0' in. wc	Am	1/18/16	1/19/16	1/20/16	1/21/16	1/22/16	1/23/16	1/24/16
		PDI-833-2	≤2.0 & > 0' in. wc								
		PDI-833-3	≤2.0 & > 0' in. wc								
		'PDI-835-1	≤2.0 & > 0' in. wc								
		PDI-835-2	≤2.0 & > 0' in. wc								
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	≤2.0 & > 0' in. wc								
		'PDI-815-1	≤2.0 & > 0' in. wc								
		PDI-815-2	≤2.0 & > 0' in. wc								
		PDI-815-4	≤2.0 & > 0' in. wc								
		PDI-815-5	≤2.0 & > 0' in. wc								
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	'PDI-816-1	≤2.0 & > 0' in. wc								
		PDI-816-2	≤2.0 & > 0' in. wc								
		PDI-816-4	≤2.0 & > 0' in. wc								
		PDI-816-5	≤2.0 & > 0' in. wc								

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤ 2.0 & > 0' in. wc	AW	1/18/16	1/19/16	1/20/16	1/21/16	1/22/16	1/23/16	1/24/16
		PDI-812-2	≤ 2.0 & > 0' in. wc	AW	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤ 2.0 & > 0' in. wc	AW	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤ 2.0 & > 0' in. wc	AW	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤ 2.0 & > 0' in. wc	AW	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤ 2.0 & > 0' in. wc	AW	1.01	1.01	1.01	.99	1.01	1.01	1.01
		PDI-813-2	≤ 2.0 & > 0' in. wc	AW	.31	.32	.31	.32	.32	.32	.32
		PDI-813-3	≤ 2.0 & > 0' in. wc	AW	.25	.26	.26	.26	.25	.26	.26
		PDI-813-4	≤ 2.0 & > 0' in. wc	AW	.36	.37	.38	.38	.38	.38	.38
		PDI-813-5	≤ 2.0 & > 0' in. wc	AW	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤ 2.0 & > 0' in. wc	AW	.03	.04	.04	.04	.04	.04	.04
		PDI-865-2	≤ 2.0 & > 0' in. wc	AW	.35	.37	.35	.36	.36	.36	.35
		PDI-865-3	≤ 2.0 & > 0' in. wc	AW	.40	.40	.40	.40	.41	.40	.40
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤ 2.0 & > 0' in. wc	AW	.06	.07	.06	.06	.06	.06	.06
		PDI-863-2	≤ 2.0 & > 0' in. wc	AW	.27	.28	.27	.28	.28	.28	.28



**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS																			
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.											
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	Jan	1/18/16	Mon.	Jan	1/19/16	Tue.	Jan	1/20/16	Wed.	Jan	1/21/16	Thu.	Jan	1/22/16	Fri.	Jan	1/23/16	Sat.	Jan	1/24/16	Sun.
		PDI-857-2	≤ 2.0 & > 0' in. wc	Jan	1/18/16	Mon.	Jan	1/19/16	Tue.	Jan	1/20/16	Wed.	Jan	1/21/16	Thu.	Jan	1/22/16	Fri.	Jan	1/23/16	Sat.	Jan	1/24/16	Sun.
		PDI-856-1	≤ 2.0 & > 0' in. wc	Jan	1/18/16	Mon.	Jan	1/19/16	Tue.	Jan	1/20/16	Wed.	Jan	1/21/16	Thu.	Jan	1/22/16	Fri.	Jan	1/23/16	Sat.	Jan	1/24/16	Sun.
		PDI-856-2	≤ 2.0 & > 0' in. wc	Jan	1/18/16	Mon.	Jan	1/19/16	Tue.	Jan	1/20/16	Wed.	Jan	1/21/16	Thu.	Jan	1/22/16	Fri.	Jan	1/23/16	Sat.	Jan	1/24/16	Sun.
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)		1/18/16	Mon.	Jan	1/19/16	Tue.	Jan	1/20/16	Wed.	Jan	1/21/16	Thu.	Jan	1/22/16	Fri.	Jan	1/23/16	Sat.	Jan	1/24/16	Sun.
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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		1/18/16	Mon.	Jan	1/19/16	Tue.	Jan	1/20/16	Wed.	Jan	1/21/16	Thu.	Jan	1/22/16	Fri.	Jan	1/23/16	Sat.	Jan	1/24/16	Sun.
				Completion time	0820	0940	0830	0805	0720	0801														
				OC Operator Review and Page Count Complete (initials)	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D	W D

**Non TSR requirement**

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

Completed by: Jan Date 1/24/16 Time 0801 Reviewed by: Jan Date 1/25/16 Time 0900

On-duty supervisor

Comments: 1/20/16 4:34 FS841 FE 829 off for repairs

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.:	103765	V-701 Thermistor File No.:
	Calibration Expiration Date:	6-24-16	Calibration Expiration Date:
	PF-11 Thermometer File No.:	040376	V-704 Thermistor File No.:
	Calibration Expiration Date:	6-24-16	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criteria	Date:							Completion Time:	OC Operator Review and Page Count Complete (initials)
			Weekday:								
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	1-18-16	1-19-16	1-20-16	1-21-16	1-22-16	1-23-16	1-24-16		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	θ	θ	θ	θ	JF	θ	θ	θ	θ
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	51.1	49.9	48.9	48.2	48.0	48.0	48.0	48.0	48.0
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	62.0	63.1	63.0	61.7	62.0	63.2	62.8	63.2	62.8
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	62.9	61.4	61.6	65.6	64.1	62.6	63.8	62.6	63.8
			1025	0940	0838	0850	0834	1010	1015	1015	1015
			θ	θ	θ	θ	θ	θ	θ	θ	θ

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

Completed by: at Date: 1-24-16 Time: 1015

Reviewed by: [Signature] Date: 1/25/16 Time: 0859

On-duty Supervisor: [Signature]

Comments: \_\_\_\_\_

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria (in. wc)	SURVEILLANCE RESULTS													
			Date: 01/25/16		1/26/16		1-27-16		1-28-16		1/29/16		1/30/16		1/31/16	
			Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			Shift:		U BC		U		U		U BC		U BC		U BC	
			Initials:		U BC		U		U		U BC		U BC		U BC	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	≤1.0 in. wc'	-2.00	-1.59	-2.00	-2.00	-1.97	-2.01	-1.97	-2.01	-1.98	-1.98	-2.01	-1.98	-2.04	-2.00
	100 area glovebox exhaust header AP	≤1.0 in. wc'	-1.99	-1.94	-1.92	-1.92	-1.93	-1.92	-1.94	-1.93	-1.92	-1.92	-1.92	-1.92	-1.94	-1.92
	300 area glovebox exhaust header AP	≤1.0 in. wc'	-1.99	-1.98	-1.99	-1.99	-1.98	-1.99	-1.98	-1.99	-1.98	-1.98	-1.98	-1.98	-1.99	-1.98
	400 area glovebox exhaust header AP	≤1.0 in. wc'	-1.81	-1.83	-1.81	-1.85	-1.84	-1.84	-1.84	-1.84	-1.84	-1.84	-1.84	-1.84	-1.84	-1.84
	200 area laboratory header AP	≤0.05 in. wc'	-0.19	-0.19	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.17	-0.17
	100 area laboratory header AP	≤0.05 in. wc'	-0.21	-0.22	-0.22	-0.20	-0.21	-0.20	-0.21	-0.20	-0.20	-0.20	-0.20	-0.21	-0.20	-0.19
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area laboratory header AP	≤0.05 in. wc'	-0.19	-0.21	-0.20	-0.18	-0.19	-0.19	-0.20	-0.19	-0.19	-0.19	-0.19	-0.20	-0.19	-0.19
	400 area laboratory header AP	≤0.05 in. wc'	-0.20	-0.20	-0.21	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.21
	IFT Facility AP	≤0.05 in. wc	-0.19	-0.18	-0.19	-0.19	-0.19	-0.18	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.18
	North basement AP	<0.00 in. wc	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.11
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	<0.00 in. wc	-0.11	-0.10	-0.10	-0.10	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.10	-0.12
	IRT Tunnel AP	<0.00 in. wc	-0.14	-0.12	-0.11	-0.11	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS																		
				Sat. / Unsat. (circle one)																		
4.1.1.6	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.	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050 FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050 FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050 FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050 FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service  At least one fan/plenum is in service  At least one fan/plenum is in service  At least one fan/plenum is in service  At least one fan/plenum is in service	Date:	01/25/16	1/26/16	1-27-16	1-28-16	1/29/16	1/30/16	1/31/16	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
				Readings	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Acceptance Criteria	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Readings	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Acceptance Criteria	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Readings	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Acceptance Criteria	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Readings	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Acceptance Criteria	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Readings	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Acceptance Criteria	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	Date: 01/25/16							
					Mon	Tue	Wed	Thu	Fri	Sat	Sun	
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's for basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-803-2		PDI-804-2	AM	PM	AM	PM	AM	PM	
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-802-2		PDI-804-2	AM	PM	AM	PM	AM	PM	
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM
PDI-853-2	PDI-854-2		AM		PM	AM	PM	AM	PM			
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM		
	PDI-852-2		PDI-854-2	AM	PM	AM	PM	AM	PM			
Completion Time					0718	0730	0740	0730	0728	0723	0719	0719

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

Completed by: [Signature] Date: 01/31/16 Time: 1919 Reviewed by: [Signature] Date: 2/1/16 Time: 0700  
 On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Date:	1/25/16	1/26/2016	1/27/2016	1/28/16	1/29/2016	1-30-16	1-31-16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	BF	BF	AM	BF	PT	PT
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
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
		$\geq -0.1$ ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0806	0755	0741	0820	0744	0701	0750



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	≤2.0 & > 0' in. wc	1/25/16	1/26/16	1/27/16	1/28/16	1/29/16	1-30-16	1-31-16	
			Weekday: Mon.	BF	BF	BF	PM	BF	PT	PT	
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-894-2	≤2.0 & > 0' in. wc	.05	.51	.52	.05	.05	.05	.05	
			'PDI-895-1	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.52	.52	.52
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤2.0 & > 0' in. wc	.04	.51	.51	.51	.51	.52	.52	
			'PDI-817-2	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-817-4	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	
			'PDI-817-5	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-1	≤2.0 & > 0' in. wc	.27	.35	.38	.39	.40	.40	.40	
			'PDI-818-2	≤2.0 & > 0' in. wc	.27	.35	.38	.39	.40	.40	.40
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & > 0' in. wc	.27	.35	.38	.39	.40	.40	.40	
			'PDI-821-3	≤2.0 & > 0' in. wc	.27	.35	.38	.39	.40	.40	.40
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-4	≤2.0 & > 0' in. wc	.27	.35	.38	.39	.40	.40	.40	
			'PDI-821-4	≤2.0 & > 0' in. wc	.27	.35	.38	.39	.40	.40	.40

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	1/25/16	1/26/2016	1/27/2016	1/28/16	1/29/2016	1-30-16	1-31-16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤ 2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-1	≤ 2.0 & > 0' in. wc	.41	.10	.11	.11	.11	.11	.11	.11	.10
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & > 0' in. wc	.59	.58	.58	.59	.59	.59	.59	.59	.59
		PDI-823-4	≤ 2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.61
		PDI-823-5	≤ 2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.61
		PDI-830-1	≤ 2.0 & > 0' in. wc	.67	.67	.68	.67	.67	.67	.67	.67	.67
		PDI-830-2	≤ 2.0 & > 0' in. wc	.23	.22	.22	.22	.22	.23	.23	.23	.22
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-830-3	≤ 2.0 & > 0' in. wc	.26	.26	.27	.25	.25	.27	.27	.27	.26
		PDI-836-1	≤ 2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-836-2	≤ 2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.67	.67	.68	.68
		PDI-836-3	≤ 2.0 & > 0' in. wc	.53	.54	.54	.54	.54	.52	.52	.52	.52
		PDI-837-1	≤ 2.0 & > 0' in. wc	.51	.51	.52	.51	.51	.52	.52	.51	.51
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤ 2.0 & > 0' in. wc	.37	.37	.38	.37	.37	.37	.37	.38	.37
		PDI-837-3	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	1/25/16	1/26/2016	1/27/2016	1/28/16	1/29/2016	1-30-16	1-31-16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	400 area re-circulation filter plenum (IIVP-807) AP	'PDI-838-1	≤2.0 & >0' in. wc	.49	.50	.50	.50	.51	.51	.50	.50
		PDI-838-2	≤2.0 & >0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-838-3	≤2.0 & >0' in. wc	.57	.57	.57	.57	.58	.58	.58	.58
4.1.3.4	400 area re-circulation filter plenum (IIVP-808) AP	'PDI-839-1	≤2.0 & >0' in. wc	.43	.43	.43	.43	.43	.43	.43	.43
		PDI-839-2	≤2.0 & >0' in. wc	.55	.55	.55	.55	.57	.57	.56	.55
		PDI-839-3	≤2.0 & >0' in. wc	.51	.52	.52	.51	.52	.51	.51	.51
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & >0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-2	≤2.0 & >0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-3	≤2.0 & >0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & >0' in. wc	.11	.11	.11	.11	.11	.11	.11	.11
		PDI-811-2	≤2.0 & >0' in. wc	.46	.48	.48	.48	.48	.48	.48	.45
		PDI-811-3	≤2.0 & >0' in. wc	.46	.49	.49	.48	.48	.45	.45	.45
Completion Time				0835	0510	0820	0853	0817	0720	0742	
OC Operator Review and Page Count Complete (initials)											

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in I.CO 3.1.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in I.CO 3.1.3.

Completed by: Paul Trigg Date: 1-31-16 Time: 0743 Reviewed by: [Signature] Date: 2/1/16 Time: 0700

On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)								
					Date:	1/25/16	1/26/2016	1/27/2016	1/28/16	1/29/2016	1/30/2016	1-31-16	
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	<2.0 & > 0' in. wc	gm		BF	BF	BF	DH	BF	BF		
		PDI-840-2	<2.0 & > 0' in. wc		.58	.58	.59	.58	.58	.58	.58	.59	
		PDI-840-3	<2.0 & > 0' in. wc		.50	.50	.50	.50	.50	.50	.50	.50	
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	<2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	<2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	<2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	<2.0 & > 0' in. wc		.33	.33	.33	.34	.34	.33	.33	.33	.33
		PDI-831-2	<2.0 & > 0' in. wc		.47	.48	.48	.48	.48	.48	.48	.48	.48
		PDI-831-3	<2.0 & > 0' in. wc		.40	.40	.40	.40	.40	.40	.41	.41	.40
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	<2.0 & > 0' in. wc		.34	.34	.34	.34	.34	.34	.34	.34	.34	
	PDI-832-2	<2.0 & > 0' in. wc		.67	.67	.67	.67	.67	.67	.68	.68	.68	
	PDI-832-3	<2.0 & > 0' in. wc		.61	.62	.62	.61	.61	.62	.62	.62	.62	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	<2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-807-2	<2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-807-3	<2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	<2.0 & > 0' in. wc		.07	.08	.08	.08	.08	.08	.08	.08	
		PDI-809-2	<2.0 & > 0' in. wc		.56	.55	.55	.55	.55	.55	.55	.55	
		PDI-809-3	<2.0 & > 0' in. wc		.48	.48	.48	.48	.48	.49	.49	.49	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:	SURVEILLANCE RESULTS (in. wc)						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤ 2.0 & > 0' in. wc	1/25/16	1/26/2016	1/27/2016	1/28/16	1/29/2016	1/30/2016	1-31-16	
		PDI-829-2	≤ 2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-829-3	≤ 2.0 & > 0' in. wc	PM	PF	PF	DH	PF	PF	PT	
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤ 2.0 & > 0' in. wc	.12	.10	.12	.10	.11	.11	.11	
		PDI-833-2	≤ 2.0 & > 0' in. wc	.30	.29	.31	.29	.30	.30	.29	
		PDI-833-3	≤ 2.0 & > 0' in. wc	.25	.25	.27	.21	.24	.25	.23	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1	≤ 2.0 & > 0' in. wc	.07	.07	.07	.07	.08	.08	.07	
		PDI-835-2	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.50	.49	.49	
		PDI-835-3	≤ 2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	≤ 2.0 & > 0' in. wc	.16	.16	.16	.17	.17	.17	.17	
		PDI-815-2	≤ 2.0 & > 0' in. wc	.44	.45	.45	.45	.45	.45	.44	
		PDI-815-3	≤ 2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-816-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-816-3	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤ 2.0 & > 0' in. wc	.40	.40	.41	.40	.40	.40	.40	
		PDI-816-5	≤ 2.0 & > 0' in. wc	.51	.52	.52	.52	.52	.53	.51	
		PDI-816-6	≤ 2.0 & > 0' in. wc	.47	.48	.48	.48	.48	.48	.46	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-7	≤ 2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	
		PDI-816-8	≤ 2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	
		PDI-816-9	≤ 2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	

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

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)								
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					1/25/16	1/26/2016	1/27/2016	1/28/16	1/29/2016	1/30/2016	1-31-16		
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & >0' in. wc	DM	BF	BF	DM	BF	BF	BF	BF	STBY	
		PDI-812-2	≤2.0 & >0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & >0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & >0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & >0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & >0' in. wc		1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
		PDI-813-2	≤2.0 & >0' in. wc		.32	.33	.32	.32	.32	.32	.32	.32	.32
		PDI-813-3	≤2.0 & >0' in. wc		.28	.27	.28	.28	.29	.28	.28	.28	.28
		PDI-813-4	≤2.0 & >0' in. wc		.39	.39	.39	.39	.39	.39	.39	.39	.39
		PDI-813-5	≤2.0 & >0' in. wc		.49	.50	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & >0' in. wc		.04	.04	.04	.04	.04	.04	.04	.04	.04
		PDI-865-2	≤2.0 & >0' in. wc		.35	.35	.35	.35	.35	.35	.35	.35	.35
		PDI-865-3	≤2.0 & >0' in. wc		.40	.41	.41	.40	.40	.40	.40	.40	.40
4.1.3.4	IFTT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & >0' in. wc		.06	.06	.06	.06	.06	.06	.06	.06	.06
		PDI-863-2	≤2.0 & >0' in. wc		.28	.28	.28	.28	.28	.28	.28	.28	.28

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.12	.12	.13	.12	.12	.12	.12	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	< 2.0 & > 0 <sup>1</sup> in. wc	.46	.47	.48	.46	.47	.47	.47	
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	< 2.0 & > 0 <sup>1</sup> in. wc	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-856-2	< 2.0 & > 0 <sup>1</sup> in. wc	.54	.52	.54	.55	.54	.54	.53	.52
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft <sup>3</sup> 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	SAT
Completion time				0920	0752	0801	0914	0815	0725	0754	
OC Operator Review and Page Count Complete (initials)				<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

<sup>1</sup> Non TSR requirement

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

Completed by: *[Signature]* Date: 1/31/16 Time: 0755 Reviewed by: *[Signature]* Date: 2/1/16 Time: 0700

On-duty Supervisor

Comments:

ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.:	103765	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/24/16	Calibration Expiration Date:
	PF-11 Thermometer File No.:	040376	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/24/16	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criteria	Date:							SAT	UNSAT
			Weekday:								
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed	Calibration dates have not elapsed.	1/25/16	1/26/16	1/27/16	1/28/16	1/29/16	1/30/16	1/31/16		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	> 42.1 F	50.4	49.0	50.8	49.8	49.0	49.8	50.1		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	> 42.1 F	49.0	54.2	61.2	68.5	68.6	66.6	64.6		
4.3.1.3'	RECORD PF-10 room temperature	> 50.1 F	63.3	61.7	61.1	61.2	61.7	62.7	62.8		
4.3.1.3'	RECORD PF-11 room temperature	> 50.1 F	64.9	68.2	64.7	70.7	70.8	70.9	69.1		
		Completion Time:	10:20	08:50	08:55	08:51	08:25	08:42	07:47		
OC Operator Review and Page Count Complete (initials)											

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: 2/3/16 Time: 0747

Reviewed by: [Signature] Date: 2/1/16 Time: 0750

On-duty Supervisor

Comments:

# February

TA55-STP-002, R11.3

Control and Execution of TA-55 Safety System LCOs and Surveillances

Page 21 of 30

**Attachment B, Surveillance Training Checklist**

(Page 1 of 2)

Procedure title:	SURVEILLANCE BOUNDS
Procedure no.:	TA55-STP-004 R17
Date of issue:	02-01-16
Working copy issued to:	SMELTZ
Working copy issued by:	CHANCE
	Certified Operations Center Operator (OCO)

OC Reviews Complete and TSR Status Board Updated



2/29/16

OCO Signature

Date

**Training Checklist:**

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
R BRISCOE	BC	02-01-16
B CHANCE	BC	02-01-16
A DUNSEITH	BC	02-01-16
J EDVARD	BC	02-01-16
R LUM	BC	02-01-16
A ORTIZ	BC	02-01-16
R PRICE	BC	02-01-16
F SEIBERT	BC	02-01-16
J SMELTZ	BC	02-01-16
J MARTINEZ	BC	02-01-16

Performance Type:  Scheduled  Partial *If partial, list reason in Comments below*

Comments: (Document TSR Status Board tracking date here if different from completion date.)




**Attachment B, Surveillance Training Checklist (continued)**

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**Training Checklist (continuation sheet)**

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
P TRWILD	BC	02-01-16
T LANGWORTHY	BC	02-01-16
R HÖHNER	BC	02-01-16
M IRISH	BC	02-01-16
U HERRERA	BC	02-01-16
A SANCHEZ	BC	02-01-16
B FORDHAM	BC	02-01-16
D HEINTZEL	BC	02-01-16
K BAILEY	BC	02-01-16
A JAURIGUE	EP	2/4/16

For Information Only

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria (in. wc)	SURVEILLANCE RESULTS																				
			Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.						
			Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM						
Gauge readings should be taken on rack #4 in the OC, wherever possible. Document if alternate PDIs are used.	PDI-814-1 or PDI-814-2	≤-1.0 in. wc'	2-1-16	-1.99	-2.01	2/2/16	-1.97	-2.00	2/3/16	-1.99	-2.00	2/4/16	-1.97	-2.01	2/5/16	-1.94	-2.01	2/6/16	-1.94	-2.01	2/7/16	-1.93	-2.01
	PDI-820-1 or PDI-820-2	≤-1.0 in. wc'		-1.91	-1.92		-1.91	-1.93		-1.90	-1.93		-1.92	-1.94		-1.94	-1.92		-1.94	-1.92		-1.93	-1.93
	PDI-870-1 or PDI-870-2	≤-1.0 in. wc'		-1.99	-1.98		-1.98	-1.99		-1.97	-1.99		-1.98	-1.98		-1.99	-1.98		-1.98	-1.99		-1.98	-1.98
	PDI-864-1 or PDI-864-2	≤-1.0 in. wc'		-1.83	-1.83		-1.83	-1.83		-1.84	-1.85		-1.84	-1.85		-1.85	-1.85		-1.85	-1.85		-1.85	-1.85
	PDI-803-1 or PDI-803-2	≤-0.05 in. wc'		-1.7	-1.9		-1.9	-1.8		-1.8	-1.8		-1.9	-2.1		-2.1	-2.0		-2.1	-2.0		-2.0	-2.1
	PDI-802-1 or PDI-802-2	≤-0.05 in. wc'		-2.0	-2.1		-2.1	-2.2		-2.0	-2.2		-2.2	-2.3		-2.3	-2.3		-2.3	-2.3		-2.3	-2.3
	PDI-853-1 or PDI-853-2	≤-0.05 in. wc'		-1.9	-2.0		-2.0	-1.8		-1.8	-1.9		-1.9	-2.0		-2.0	-1.9		-1.9	-2.0		-1.9	-1.9
	PDI-852-1 or PDI-852-2	≤-0.05 in. wc'		-2.0	-2.1		-2.1	-2.1		-2.0	-2.0		-2.0	-2.1		-2.0	-2.0		-2.0	-2.0		-2.0	-2.0
	PDI-865-4 or PDI-865-5	≤-0.05 in. wc		-1.9	-1.9		-1.9	-1.9		-1.9	-1.9		-1.9	-1.9		-1.9	-1.9		-1.9	-1.9		-1.9	-1.9
	PDI-804-1 or PDI-804-2	<0.00 in. wc		-0.9	-1.0		-1.0	-1.0		-1.0	-1.0		-1.0	-1.0		-1.0	-1.0		-1.0	-1.0		-1.0	-1.0
PDI-854-1 or PDI-854-2	<0.00 in. wc		-0.9	-1.1		-1.1	-1.1		-1.1	-1.1		-1.1	-1.1		-1.1	-1.1		-1.1	-1.1		-1.1	-1.1	
PDI-901 or PDI-901	<0.00 in. wc		-1.17	-1.36		-1.36	-1.34		-1.34	-1.40		-1.36	-1.52		-1.52	-1.53		-1.53	-1.54		-1.54	-1.55	

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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Note	Date:	2/2/16		2/3/16		2/4/16		2/5/16		2/6/16		2/7/16	
		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.					
Readings	Weekday:	2/2/16		2/3/16		2/4/16		2/5/16		2/6/16		2/7/16	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Description	Acceptance Criteria	u		AP		Be		u		u		u	
		Initials:	Shift:	Initials:	Shift:	Initials:	Shift:	Initials:	Shift:	Initials:	Shift:	Initials:	Shift:
4.1.1.6 200 area re-circulation fan/plenum 100 area re-circulation fan/plenum 300 area re-circulation fan/plenum 400 area re-circulation fan/plenum Vault re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	FR-803 Icon red and PDT-833 AP > .050 or FR-804 Icon red and PDT-835 AP > .050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	FR-805 Icon red and PDT-836 AP > .050 or FR-806 Icon red and PDT-837 AP > .050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	FR-807 Icon red and PDT-838 AP > .050 or FR-808 Icon red and PDT-839 AP > .050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS															
					Sat. / Unsat. (circle one)															
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
					Date:	Shift:	Date:	Shift:	Date:	Shift:	Date:	Shift:	Date:	Shift:	Date:	Shift:	Date:	Shift:		
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	2-1-16	AM	2-2-16	AM	2-3-16	AM	2-4-16	AM	2-5-16	AM	2-6-16	AM	2-7-16	AM		
			PDI-803-2																	
			PDI-804-2																	
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2																
			PDI-802-2																	
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2																
			PDI-853-2																	
			PDI-854-2																	
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2																
			PDI-852-2																	
			PDI-854-2																	
			Completion Time		0759	1930	0716	1940	0752	1922	0808	1925	0717	1940	0723	1930	0720	1930		

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

Completed by: AK Date 2-7-16 Time 1930 Reviewed by: [Signature] Date: 2/9/16 Time: 0700  
 On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Date:	2/1/16	2/2/16	2/3/16	2/9/16	2/5/16	2/2/16	2/2/16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	gm	gm	gm	gm	gm	gm	gm	
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
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 $\geq -0.1$ ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Completion Time:	0745	0750	0751	0742	0744	0730	0758	

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	2/1/16	2/2/16	2/3/16	2/4/16	2/5/16	2/6/16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
				APM	APM	APM	APM	DH	APM	MDA	MDA	Sun.
				Initials:	APM	APM	APM	APM	DH	APM	MDA	MDA
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	.05	.05	.08	.05	.05	.05	.05	.05	.05
		PDI-894-2	≤2.0 & > 0' in. wc	.53	.53	.53	.52	.53	.52	.52	.52	.52
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-895-2	≤2.0 & > 0' in. wc	.52	.52	.52	.52	.55	.55	.55	.55	.57
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & > 0' in. wc	.27	.27	.27	.27	.27	.27	.27	.27	.27
		PDI-819-3	≤2.0 & > 0' in. wc	.35	.34	.34	.34	.34	.34	.34	.32	.32
		PDI-819-4	≤2.0 & > 0' in. wc	.38	.38	.38	.38	.39	.38	.38	.39	.39
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	.41	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-821-3	≤2.0 & > 0' in. wc	.43	.45	.43	.43	.43	.43	.43	.43	.43
		PDI-821-4	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday: Initials:	Mon. Tue. Wed. Thu. Fri. Sat. Sun.					
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	<2.0 & > 0' in. wc	2/1/16 Mon. Jm	2/2/16 Tue. Jm	2/3/16 Wed. Jm	2/4/16 Thu. DM	2/5/16 Fri. Jm	2/6/16 Sat. PT	2/7/16 Sun. Jm
		PDI-822-2	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-1	<2.0 & > 0' in. wc	.11	.12	.11	.10	.11	.10	.10
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	<2.0 & > 0' in. wc	.59	.59	.59	.59	.59	.59	.59
		PDI-823-4	<2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61
		PDI-823-5	<2.0 & > 0' in. wc	.62	.62	.62	.61	.61	.61	.61
		PDI-830-1	<2.0 & > 0' in. wc	.67	.67	.67	.67	.67	.67	.67
		PDI-830-2	<2.0 & > 0' in. wc	.22	.22	.22	.22	.22	.22	.22
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-830-3	<2.0 & > 0' in. wc	.77	.26	.26	.25	.26	.26	.26
		PDI-836-1	<2.0 & > 0' in. wc	.67	.67	.67	.67	.67	.67	.67
		PDI-836-2	<2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68
		PDI-836-3	<2.0 & > 0' in. wc	.54	.54	.54	.54	.54	.54	.54
		PDI-837-1	<2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	<2.0 & > 0' in. wc	.36	.37	.37	.36	.37	.36	.36
		PDI-837-3	<2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)										
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	<2.0 &gt; 0' in. wc	2/11/16	Mon.	gm	.49	.49	.49	.49	.49	.50	.56	
		PDI-838-2	<2.0 &gt; 0' in. wc				.51	.51	.51	.51	.51	.51	.51	.56
		PDI-838-3	<2.0 &gt; 0' in. wc				.56	.56	.56	.57	.56	.59	.58	
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	<2.0 &gt; 0' in. wc	2/11/16	Mon.	gm	.42	.42	.42	.43	.44	.44	.44	
		PDI-839-2	<2.0 &gt; 0' in. wc				.56	.56	.56	.55	.56	.55	.56	
		PDI-839-3	<2.0 &gt; 0' in. wc				.51	.51	.51	.51	.51	.51	.51	
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	<2.0 &gt; 0' in. wc	2/11/16	Mon.	gm	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-2	<2.0 &gt; 0' in. wc				OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-3	<2.0 &gt; 0' in. wc				OFF	OFF	OFF	OFF	OFF	OFF	OFF	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	<2.0 &gt; 0' in. wc	2/11/16	Mon.	gm	.10	.10	.11	.11	.11	.11	.11	
		PDI-811-2	<2.0 &gt; 0' in. wc				.45	.46	.48	.50	.49	.49	.49	
		PDI-811-3	<2.0 &gt; 0' in. wc				.45	.48	.49	.49	.49	.49	.49	
OC Operator Review and Page Count Complete (initials)				2/25/16	Mon.	gm	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

'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 M. Johnson Date: 2/25/16 Time: 0827

Reviewed by:

On-duty Supervisor

Date: 2/25/16 Time: 700

Comments



**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	2/1/16	2/2/16	2/3/16	2/4/16	2/5/16	2/6/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[Handwritten initials]						
				[Handwritten initials]						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	<2.0 & > 0' in. wc	.16	.16	.16	.16	.17	.17	.16
		PDI-840-2	<2.0 & > 0 in. wc	.58	.58	.58	.58	.58	.58	.58
		PDI-840-3	<2.0 & > 0' in. wc	.50	.50	.51	.51	.51	.51	.50
4.1.1.7	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	<2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	<2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.48	.48
		PDI-831-3	<2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	<2.0 & > 0' in. wc	.33	.34	.34	.34	.34	.34	.34
		PDI-832-2	<2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68
		PDI-832-3	<2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	<2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-2	<2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-3	<2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	<2.0 & > 0' in. wc	.08	.07	.07	.07	.07	.07	.06
		PDI-809-2	<2.0 & > 0' in. wc	.56	.56	.56	.53	.53	.53	.53
		PDI-809-3	<2.0 & > 0' in. wc	.49	.49	.48	.45	.44	.44	.44

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤ 2.0 & > 0' in. wc	2/1/16 Mon.	2/2/16 Tue.	2/3/16 Wed.	2/4/16 Thu.	2/5/16 Fri.	2/6/16 Sat.	2/7/16 Sun.
		PDI-829-2	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		PDI-829-3	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		'PDI-833-1	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		PDI-833-2	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		'PDI-835-1	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		PDI-835-2	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		PDI-835-3	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		'PDI-815-1	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		PDI-815-4	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		PDI-815-5	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		'PDI-816-1	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		PDI-816-2	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
		PDI-816-5	≤ 2.0 & > 0' in. wc	gm	gm	gm	gm	gm	gm	gm
				gm	gm	gm	gm	gm	gm	gm
				gm	gm	gm	gm	gm	gm	gm
				gm	gm	gm	gm	gm	gm	gm

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	AM	2/1/16	2/2/16	2/3/16	2/4/16	2/5/16	2/6/16	2/7/16	
		PDI-812-2	≤2.0 & > 0' in. wc	AM								
		PDI-812-3	≤2.0 & > 0' in. wc	AM								
		PDI-812-4	≤2.0 & > 0' in. wc	AM								
		PDI-812-5	≤2.0 & > 0' in. wc	AM								
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	AM	1.01	1.01	1.01	1.01	1.01	1.02	1.02	
		PDI-813-2	≤2.0 & > 0' in. wc	AM	.32	.32	.32	.32	.32	.32	.32	
		PDI-813-3	≤2.0 & > 0' in. wc	AM	.25	.26	.26	.26	.26	.26	.26	
		PDI-813-4	≤2.0 & > 0' in. wc	AM	.39	.39	.39	.38	.38	.38	.38	
		PDI-813-5	≤2.0 & > 0' in. wc	AM	.50	.50	.50	.50	.50	.49	.49	
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	AM	.04	.04	.04	.04	.04	.04	.05	
		PDI-865-2	≤2.0 & > 0' in. wc	AM	.36	.35	.35	.35	.35	.35	.35	
		PDI-865-3	≤2.0 & > 0' in. wc	AM	.40	.40	.41	.41	.40	.40	.40	
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	AM	.06	.06	.06	.06	.06	.06	.06	
		PDI-863-2	≤2.0 & > 0' in. wc	AM	.29	.29	.29	.29	.29	.29	.29	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
				Date: Weekday:	2/1/16 Mon.	2/2/16 Tue.	2/3/16 Wed.	2/4/16 Thu.	2/5/16 Fri.	2/6/16 Sat.	2/7/16 Sun.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	<2.0 & >0' in. wc	gm	gm	gm	gm	gm	gm	gm	gm
		PDI-857-2	<2.0 & >0' in. wc	.12	.12	.46	.11	.46	.11	.47	.11
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	<2.0 & >0' in. wc	gm	gm	gm	gm	gm	gm	gm	gm
		PDI-856-2	<2.0 & >0' in. wc	.05	.05	.05	.05	.05	.05	.05	.05
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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	SAT
OC Operator Review and Page Count Complete (initials)				0816	0802	0804	0800	0803	0758	0816	0816

Non TSR requirement

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

Completed by: Michael M. Fitch Date: 2/7/16 Time: 0816 Reviewed by: [Signature] Date: 2/7/16 Time: 0700

On-duty Supervisor

Comments:

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 042252	PF-10 Thermistor File No.: 103765	V-701 Thermistor File No.: 103761
	Calibration Expiration Date: 6/13/16	Calibration Expiration Date: 6/24/16	Calibration Expiration Date: 6/24/16
	PF-11 Thermometer File No.: 035716	PF-11 Thermistor File No.: 010376	V-704 Thermistor File No.: 103763
	Calibration Expiration Date: 6/13/16	Calibration Expiration Date: 6/24/16	Calibration Expiration Date: 6/24/16

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature												
Daily (September through April only)		Date:	2/01/16	2/2/16	2/3/16	2/4/16	2/5/2016	2/6/15	2/7/16			
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
		Initials:	AL	AD	AD	AS	SC	PH	U			
SR		Description	Acceptance Criteria									
NA		ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.									
4.3.1.1'		RECORD fire water storage tank V-701 temperature	49.0	50.2	50.7	48.3	48.7	50.5	49.2			
4.3.1.1'		RECORD fire water storage tank V-704 temperature	61.8	57.9	54.6	51.9	50.0	48.4	47.5			
4.3.1.3'		RECORD PF-10 room temperature	62.3	59.7	59.9	58.2	59.6	60.2	60.6			
4.3.1.3'		RECORD PF-11 room temperature	72.8	69.4	67.8	65.0	67.9	69.1	69.8			
		Completion Time:	15:21:16	09:34	09:31	08:13	07:42	09:04	08:25			
		OC Operator Review and Page Count Complete (initials)	U	U	U	U	U	U	U			

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: PAVE Date: 2/7/16 Time: 0825  
 Reviewed by: [Signature] Date: 2/9/16 Time: 0750  
 On-duty Supervisor

Comments:

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**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

Note	Date	02-08-16		02-09-16		02-10-16		02-11-16		02-12-16		02-13-16		02-14-16						
		Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.				
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																
				4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤1.0 in. wc	-1.99	2.00	2.00	2.01	-2.00	-1.18	-1.98	-2.01	2.01	-1.98	-1.99	-1.98	-1.99
					100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤1.0 in. wc	-1.93	1.92	-1.93	-1.93	-1.93	-1.92	-1.92	-1.92	-1.93	-1.93	-1.93	-1.92	-1.91
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤1.0 in. wc	-1.98	1.96	-1.98	-1.97	-1.97	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.99			
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤1.0 in. wc	-1.95	1.95	-1.95	-1.96	-1.97	-1.85	-1.84	-1.85	-1.85	-1.85	-1.85	-1.85	-1.85	-1.88			
4.1.1.3 4.1.2.3 <sup>2</sup>	North basement AP	PDI-804-1 or PDI-804-2	<0.00 in. wc	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21				
	South basement AP	PDI-854-1 or PDI-854-2	<0.00 in. wc	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23				
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤0.05 in. wc	0.20	0.20	0.20	0.19	0.19	0.20	0.18	0.18	0.19	0.20	0.20	0.19	0.20				
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤0.05 in. wc	0.21	0.20	0.20	0.20	0.20	0.21	0.21	0.20	0.20	0.21	0.20	0.20	0.20				
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility AP	PDI-865-4 or PDI-865-5	≤0.05 in. wc	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19				
	IFTT Tunnel AP	PDT-901 or PDI-901	<0.00 in. wc	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70				

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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Note	Date:	01-08-16		01-09-16		2/10/16		2/11/16		02-12-16		02-14-16	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Readings	Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.	
SRs	Description	AM		PM		AM		PM		AM		PM	
Acceptance Criteria	Initials:	AC		AC		AC		AC		AC		AC	
4.1.1.6	200 area re-circulation fan/plenum	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	100 area re-circulation fan/plenum	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	300 area re-circulation fan/plenum	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	400 area re-circulation fan/plenum	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	Vault re-circulation fan/plenum	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRS	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS														
					Sat. / Unsat. (circle one)														
					Date: 02-08-16		02-09-16		2/10/16		2/11/16		02-12-16		02-13-16		02-14-16		
					Mon.	Tue	Wed	Thu	Fri	Sat.	Sun	Mon.	Tue	Wed	Thu	Fri	Sat.	Sun	
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-803-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-802-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
	PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
	PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
	PDI-852-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
					0127	1924	0723	1917	0735	1930	0731	1939	0720	0718	0715	0716	1048		
				Completion Time															

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

Completed by: *[Signature]* Date: 2/14/16 Time: 1928  
 Reviewed by: *[Signature]* Date: 2/17/16 Time: 0700  
 On-duty Supervisor

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	2/8/16	2/9/16	2/10/2016	2/11/2016	2/12/2016	2/13/16	2/14/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	AM	BF	BF	BF	AM	AM
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)							
SR 4.4.1.1	Description / Gauge	NA							
	Flammable Gas Channel Check								
	DET-305-3 (LCD Reading)	0.0	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	0.0
Record Calculated Value			0.0	0.0	0.0	0.0	0.0	0.0	0.0
≥ -0.1;		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
≤ +0.1		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Completion Time:		0810	0802	0740	0800	0721	0725	0720	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	2/8/16	2-9-16	2/10/2016	2/11/2016	2/12/2016	2/13/16	2/14/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	JK	PT	BF	DF	DF	JK	JK	JK	JK
4.1.3.4	South basement supply filter plenum (IIVP-841) AP	'PDI-894-1	<2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-894-2	<2.0 & > 0' in. wc	.52	.52	.52	.52	.52	.52	.52	.52	.52
4.1.3.4	South Corridor supply (IIVP-810) AP	'PDI-895-1	≤ 2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-895-2	≤ 2.0 & > 0' in. wc	1.41/16 1.58	.58	.58	.58	.58	.58	.58	.58	.58
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-3	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-818-1	≤ 2.0 & > 0' in. wc	.27	.27	.27	.27	.27	.26	.27	.27	.27
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤ 2.0 & > 0' in. wc	.32	.32	.33	.32	.32	.32	.32	.32	.32
		PDI-818-4	≤ 2.0 & > 0' in. wc	.38	.38	.38	.38	.38	.38	.38	.38	.38
		PDI-818-5	≤ 2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤ 2.0 & > 0' in. wc	.40	.40	.41	.40	.40	.40	.40	.40	.40
		PDI-821-3	≤ 2.0 & > 0' in. wc	.42	.43	.42	.42	.42	.42	.42	.42	.42
		PDI-821-4	≤ 2.0 & > 0' in. wc	.39	.39	.39	.40	.40	.40	.39	.39	.39

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	2/8/16	2-9-16	2/10/2016	2/11/2016	2/12/2016	2/13/16	2/14/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	AM	PT	BF	BF	BF	AM		
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			≤2.0 & > 0' in. wc	.11	.11	.11	.11	.11	.11	.11	
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-1	≤2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.60	.60	.60
			≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	
			≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	
			≤2.0 & > 0' in. wc	.67	.67	.68	.68	.68	.67	.67	
			≤2.0 & > 0' in. wc	.22	.21	.22	.23	.23	.22	.22	
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤2.0 & > 0' in. wc	.27	.27	.27	.27	.27	.27	.27	.27
			≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	
			≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	
			≤2.0 & > 0' in. wc	.52	.52	.53	.54	.54	.52	.52	
			≤2.0 & > 0' in. wc	.51	.51	.51	.51	.52	.51	.51	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-1	≤2.0 & > 0' in. wc	.37	.37	.38	.38	.38	.37	.37	.37
			≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	
			≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	
			≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	
			≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:	2/8/16	2/9-16	2/10/2016	2/11/2016	2/12/2016	2/13/16
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & >0' in. wc		Mon.	gm	PT	8P	BF	FF	SM	Sum.
		PDI-838-2	≤2.0 & >0' in. wc	.49	.50	.50	.50	.51	.50	.50	.50	
		PDI-838-3	≤2.0 & >0' in. wc	.50	.58	.58	.58	.58	.58	.58	.58	
	4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & >0' in. wc	.43	.43	.43	.43	.43	.43	.43	.43
PDI-839-2			≤2.0 & >0' in. wc	.58	.58	.58	.58	.58	.58	.58	.58	
PDI-839-3			≤2.0 & >0' in. wc	.61	.61	.61	.61	.61	.61	.61	.61	
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & >0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-2	≤2.0 & >0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-3	≤2.0 & >0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & >0' in. wc	.11	.11	.11	.11	.12	.12	.12	.12	
		PDI-811-2	≤2.0 & >0' in. wc	.48	.49	.49	.49	.49	.49	.49	.49	
		PDI-811-3	≤2.0 & >0' in. wc	.48	.49	.49	.49	.49	.49	.49	.49	
OC Operator Review and Page Count Complete (initials)				0850	0831	0810	0825	0812	0807	0807	0807	0807

'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: Seneca H. Date 2/17/16 Time 0742 Reviewed by: [Signature] Date: 2/17/16 Time: 0700

On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

TA55-S...-004, R17

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date: Weekday:	2/9/16 Mon.	2/9/16 Tue.	2/10/16 Wed.	2/11/16 Thu.	2/12/2016 Fri.	2/13/16 Sat.	2/14/16 Sun.		
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	<2.0 & > 0' in. wc		.16	.16	.16	.16	.16	.16	.16	.16	
		PDI-840-2	<2.0 & > 0 in. wc	.58	.58	.58	.58	.58	.58	.58	.58	.58	
		PDI-840-3	<2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50	.50	
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	<2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	<2.0 & > 0' in. wc	.47	.48	.48	.48	.48	.48	.48	.48	.48	.48
		PDI-831-3	<2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	<2.0 & > 0' in. wc	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	
	PDI-832-2	<2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	<2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	<2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-807-2	<2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-807-3	<2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	<2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07	.07	
		PDI-809-2	<2.0 & > 0' in. wc	.52	.52	.52	.52	.52	.52	.52	.52	.52	
		PDI-809-3	<2.0 & > 0' in. wc	.46	.46	.46	.46	.46	.46	.46	.46	.46	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:	SURVEILLANCE RESULTS (in. wc)						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤ 2.0 & > 0' in. wc	7/8/16	7/9/16	7/10/16	7/11/16	7/12/2016	7/12/16	7/14/16	
		PDI-829-2	≤ 2.0 & > 0' in. wc	.11	.11	.14	.11	.11	.12	.12	
		PDI-829-3	≤ 2.0 & > 0' in. wc	.30	.29	.35	.28	.29	.30	.30	
		PDI-833-1	≤ 2.0 & > 0' in. wc	.25	.25	.29	.21	.24	.25	.25	
		PDI-833-2	≤ 2.0 & > 0' in. wc	.37	.07	.07	.07	.07	.07	.07	
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	
		PDI-835-1	≤ 2.0 & > 0' in. wc	.40	.40	.42	.40	.40	.40	.40	
		PDI-835-2	≤ 2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17	
		PDI-835-3	≤ 2.0 & > 0' in. wc	.42	.42	.42	.42	.43	.43	.43	
		PDI-815-1	≤ 2.0 & > 0' in. wc	.29	.39	.39	.39	.40	.39	.39	
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-815-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-815-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-816-1	≤ 2.0 & > 0' in. wc	.40	.40	.40	.40	.41	.41	.41	
		PDI-816-2	≤ 2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤ 2.0 & > 0' in. wc	.47	.47	.46	.46	.46	.47	.47	
		PDI-816-5	≤ 2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

Sits	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	200 area glovebox exhaust filter plenum (FF:850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	JPC	2/8/16	2/9/16	2/10/16	2/11/16	2/12/2016	2/13/16	2/14/16
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					STBY	STBY	STBY	STBY	STBY	STBY	STBY
					STBY	STBY	STBY	STBY	STBY	STBY	STBY
					STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF:851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	JPC	2/8/16	2/9/16	2/10/16	2/11/16	2/12/2016	2/13/16	2/14/16
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					1.01	1.02	.67	1.04	1.05	1.04	1.04
					.31	.32	.28	.31	.35	.32	.32
					.16	.17	.22	.26	.28	.27	.27
4.1.3.4	IFIT exhaust filter plenum (FF:865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	JPC	2/8/16	2/9/16	2/10/16	2/11/16	2/12/2016	2/13/16	2/14/16
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					.50	.49	.47	.49	.50	.50	.50
					.04	.04	.04	.04	.04	.04	.04
					.35	.36	.33	.33	.35	.35	.35
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	JPC	2/8/16	2/9/16	2/10/16	2/11/16	2/12/2016	2/13/16	2/14/16
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					.41	.41	.40	.40	.40	.40	.40
					.06	.06	.07	.06	.06	.06	.06
					.28	.28	.28	.28	.28	.28	.28

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS										
				Date:	Weekday:	Initials:	Completion time	OC Operator Review and Page Count Complete (initials)	Non TSR requirement					
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0' in. wc	2/8/16	Mon.	gm	0920							
			≤ 2.0 & > 0' in. wc	2/9/16	Tue.	gm	0921							
			≤ 2.0 & > 0' in. wc	2/10/16	Wed.	gm	0818							
			≤ 2.0 & > 0' in. wc	2/11/16	Thu.	gm	0830							
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0' in. wc	2/8/16	Mon.	gm	0920							
			≤ 2.0 & > 0' in. wc	2/9/16	Tue.	gm	0921							
			≤ 2.0 & > 0' in. wc	2/10/16	Wed.	gm	0818							
			≤ 2.0 & > 0' in. wc	2/11/16	Thu.	gm	0830							
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	2/8/16	Mon.	SAT	0920							
			0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	2/9/16	Tue.	SAT	0921							
			0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	2/10/16	Wed.	SAT	0818							
			0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	2/11/16	Thu.	SAT	0830							
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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	2/8/16	Mon.	SAT	0920							
			0 lb/ft <sup>3</sup> 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	2/9/16	Tue.	SAT	0921							
			0 lb/ft <sup>3</sup> 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	2/10/16	Wed.	SAT	0818							
			0 lb/ft <sup>3</sup> 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	2/11/16	Thu.	SAT	0830							
				2/12/16	Fri.	BY								
				2/13/16	Sat.	gm								
				2/14/16	Sun.	gm								

OC Operator Review and Page Count Complete (initials)

Non TSR requirement

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

Completed by: [Signature] Date 2/14/16 Time 0730 Reviewed by: [Signature] Date: 2/17/16 Time: 0700

On-duty Supervisor

Comments:



**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.:	103765	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/24/2016	Calibration Expiration Date:
Record September through April only	PF-11 Thermometer File No.:	040376	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/24/2016	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criteria	Date:							Completion Time:	OC Operator Review and Page Count Complete (initials)
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	2/9/2016	2/9/2016	2/10/16	2/11/16	2/12/16	2/13/16	2/14/16		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	50.3	50.3	49.7	49.3	49.1	49.1	49.1	49.0	
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	47.16	47.6	48.0	48.0	48.1	48.4	48.7		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	62.08	62.1	60.2	63.6	63.2	63.8	63.5		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	71.77	63.1	67.1	67.7	65.4	65.5	62.2		
			0855	0946	0903	0901	0823	0843	0850		
			PF-10 PF-11 V-701 V-704 49.6 49.6 49.6 49.6 49.6 49.6 49.6 49.6 49.6 49.6								

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: 02-14-16 Time: 0850  
 Reviewed by: [Signature] Date: 2/17/16 Time: 0700  
 On-duty Supervisor: \_\_\_\_\_  
 Comments: \_\_\_\_\_

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(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:	2/15/16		2/16/16		02/17/16		02/18/16		2/19/16		2/20/16		2/21/16				
		Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Initials:	u	p	u	u	u	u	u	u	u	u	u	u	u	u	u	u	
<b>SRs</b>	<b>Description</b>	<b>SURVEILLANCE RESULTS (in. wc)</b>																
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤1.0 in. wc'	2.00	-1.97	-1.97	-1.97	-1.98	-1.99	-1.97	-1.97	-1.97	-1.97	-1.97	-1.99	-1.99	-1.98	
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤1.0 in. wc'	-1.93	-1.91	-1.92	-1.93	-1.93	-1.92	-1.93	-1.92	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93
4.1.1.2 4.1.2.2 <sup>2</sup>	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤1.0 in. wc'	-1.94	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤1.0 in. wc'	-1.85	-1.84	-1.84	-1.85	-1.85	-1.85	-1.84	-1.85	-1.85	-1.85	-1.85	-1.85	-1.85	-1.85	-1.85
4.1.1.3 4.1.2.3 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤0.05 in. wc'	-2.0	-2.1	-2.2	-2.1	-2.1	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤0.05 in. wc'	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4
4.1.1.5 4.1.2.2 <sup>2</sup>	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤0.05 in. wc'	-1.4	-1.9	-2.0	-1.9	-1.9	-2.0	-1.9	-2.0	-1.9	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤0.05 in. wc'	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility AP	PDI-865-4 or PDI-865-5	≤0.05 in. wc	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9
	North basement AP	PDI-804-1 or PDI-804-2	<0.00 in. wc	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	PDI-854-1 or PDI-854-2	<0.00 in. wc	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1
	IRT Tunnel AP	PDT-901 or PDI-901	<0.00 in. wc	-1.34	-1.34	-1.34	-1.34	-1.34	-1.34	-1.34	-1.34	-1.34	-1.34	-1.34	-1.34	-1.34	-1.34	-1.34

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS							
				Sat. / Unsat. (circle one)							
4.1.1.6	Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDTs may be used if FCS is unavailable.  200 area re-circulation fan/plenum  100 area re-circulation fan/plenum  300 area re-circulation fan/plenum  400 area re-circulation fan/plenum  Vault re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	At least one fan/plenum is in service	2/15/16	2/16/16	02-17-16	02-18-16	2/19/16	2/20/16	2/21/16	
		FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050	At least one fan/plenum is in service	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050	At least one fan/plenum is in service	AM	PM	AM	PM	AM	PM	AM	PM
		FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	At least one fan/plenum is in service	u	u	u	u	u	u	u	u
		FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	At least one fan/plenum is in service	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050	At least one fan/plenum is in service	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050	At least one fan/plenum is in service	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	At least one fan/plenum is in service	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS																
					Sat: (circle one)																
					Date: 2/15/16		2/16/16		02-17-16		02-18-16		2/19/16		2/20/16		2/21/16				
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-803-2	PDI-803-2 < PDI-804-2	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns
			PDI-804-2	PDI-804-2	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-802-2	PDI-802-2 < PDI-804-2	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-853-2	PDI-853-2 < PDI-854-2	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns
			PDI-854-2	PDI-854-2	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-852-2	PDI-852-2 < PDI-854-2	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns	Uns
					Completion Time	0705	1919	0720	1930	0721	1924	0722	1928	0725	1930	0721	1930	0721	1930		

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

Completed by: W Date 2-21-16 Time 1930 Reviewed by: [Signature] Date: 2/23/16 Time: 0800  
 On Duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date: 2/15/2016	2/16/16	2/17/16	2/18/16	2/19/16	2-20-16	2-21-16
		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		BF	AM	AM	AM	AM	PT	PT
		SURVEILLANCE RESULTS (percentage)						
Description / Gauge	Acceptance Criteria							
SR 4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	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
	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	0.0 / Unsat.	0.0 / Unsat.	0.0 / Unsat.	0.0 / Unsat.	0.0 / Unsat.	0.0 / Unsat.	0.0 / Unsat.
	Completion Time:	0755	0750	0805	0750	0705	0715	0759

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	2/15/2016	2/16/16	2/17/16	2/18/16	2/19/16	2-20-16	2-21-16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	BE	AM	AM	AM	AM	PT	PT	PT
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	≤2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-894-2	≤2.0 & > 0' in. wc	.52	.52	.52	.52	.52	.52	.52	.52	.52
4.1.3.4	South Corridor supply (HVP-810) AP	'PDI-895-1	≤2.0 & > 0' in. wc	.05	.06	.06	.06	.05	.05	.06	.06	.06
		PDI-895-2	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.58	.58	.59	.59
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-81 9-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-81 9-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	'PDI-818-1	≤2.0 & > 0' in. wc	.26	.26	.26	.26	.26	.26	.26	.26	.26
		PDI-818-2	≤2.0 & > 0' in. wc	.32	.32	.32	.32	.32	.32	.32	.32	.32
		PDI-818-4	≤2.0 & > 0' in. wc	.35	.36	.36	.36	.36	.36	.36	.36	.37
		PDI-818-5	≤2.0 & > 0' in. wc	.38	.38	.38	.38	.38	.38	.38	.39	.39
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-821-3	≤2.0 & > 0' in. wc	.45	.42	.44	.44	.44	.44	.44	.44	.44
		PDI-821-4	≤2.0 & > 0' in. wc	.40	.39	.39	.39	.39	.39	.39	.39	.39

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	2/15/2016	2/16/16	2/17/16	2/18/16	2/19/16	2-20-16	2-21-16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				BF	PM	PM	PM	PM	PT	PT	PT	PT
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.10	.11	.11	.11	.11	.11	.10	.10	.10
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.60	.60	.60	.60	.60	.60	.60	.60	.60
		PDI-823-4	≤ 2.0 & > 0 <sup>1</sup> in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.61
		PDI-823-5	≤ 2.0 & > 0 <sup>1</sup> in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.61
		PDI-830-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.69	.67	.67	.67	.67	.67	.67	.67	.67
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.22	.21	.22	.22	.22	.22	.22	.22	.22
		PDI-830-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	.26	.26	.26	.26	.26	.26	.26	.26	.26
		PDI-836-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.07	.07	.07	.07	.07	.07	.07	.07	.07
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-836-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.68	.68	.68	.68	.68	.68	.68	.68	.68
		PDI-836-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	.54	.55	.55	.54	.54	.54	.55	.54	.54
		PDI-837-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-837-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.36	.36	.37	.37	.37	.37	.37	.37	.37
		PDI-837-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & >0' in. wc	2/15/16	Mon.	BF	.50	.50	.50	.50	.50	.50	.50
		PDI-838-2	≤2.0 & >0' in. wc	2/16/16	Tue.	AP	.52	.52	.52	.52	.52	.52	.52
		PDI-838-3	≤2.0 & >0' in. wc	2/17/16	Wed.	AP	.57	.57	.57	.57	.57	.57	.57
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & >0' in. wc	2/18/16	Thu.	AP	.42	.42	.42	.42	.42	.42	.42
		PDI-839-2	≤2.0 & >0' in. wc	2/19/16	Fri.	AP	.57	.56	.56	.56	.56	.56	.56
		PDI-839-3	≤2.0 & >0' in. wc	2/20/16	Sat.	PT	.60	.61	.61	.61	.61	.61	.61
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & >0' in. wc	2/15/16	Mon.	BF	.14	.14	.14	.14	.14	.14	.14
		PDI-810-2	≤2.0 & >0' in. wc	2/16/16	Tue.	AP	.47	.47	.47	.47	.47	.47	.47
		PDI-810-3	≤2.0 & >0' in. wc	2/17/16	Wed.	AP	.44	.44	.44	.44	.44	.44	.44
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & >0' in. wc	2/18/16	Thu.	AP	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & >0' in. wc	2/19/16	Fri.	AP	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	≤2.0 & >0' in. wc	2/20/16	Sat.	PT	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OC Operator Review and Page Count Complete (initials)				2/15/16	Mon.	BF	0800	0820	0843	0728	0802	0804	0744

'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 Trevitt Date: 2-21-16 Time: 0744 Reviewed by: [Signature] Date: 2/23/16 Time: 0800

Off-duty Supervisor

Comments



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

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:	2/15/16	2/16/16	2/17/16	2/18/16	2/19/16	2/20/16
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc		BF	pm	pm	pm	pm	pm	pm	pm
		PDI-840-2	≤2.0 & > 0 in. wc	.16	.16	.58	.58	.16	.16	.58	.58	.16
		PDI-840-3	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50	.50
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	.33	.33	.48	.48	.33	.33	.48	.48	.33
		PDI-831-2	≤2.0 & > 0' in. wc	.48	.48	.40	.40	.48	.48	.40	.40	.48
		PDI-831-3	≤2.0 & > 0' in. wc	.40	.40	.34	.34	.40	.40	.34	.34	.40
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	.67	.67	.68	.68	.67	.67	.68	.68	.67	
	PDI-832-2	≤2.0 & > 0' in. wc	.62	.62	.61	.61	.62	.62	.61	.61	.62	
	PDI-832-3	≤2.0 & > 0' in. wc	.12	.12	.17	.17	.12	.12	.17	.17	.12	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	.50	.50	.49	.49	.50	.50	.49	.49	.50
		PDI-807-2	≤2.0 & > 0' in. wc	.49	.49	OFF	OFF	.49	.49	OFF	OFF	.49
		PDI-807-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date: Weekday:	2/15/2016 Mon.	2/16/16 Tue.	2/17/16 Wed.	2/18/16 Thu.	2/19/16 Fri.	2/20/16 Sat.	2/21/16 Sun.
				BF		AM	AM	AM	AM	AM	PT	PT
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc		.11	.12	.12	.12	.12	.12	.11	.11
		PDI-829-2	≤2.0 & > 0' in. wc	.31	.30	.28	.29	.29	.30	.30	.30	.30
		PDI-829-3	≤2.0 & > 0' in. wc	.27	.26	.21	.22	.22	.22	.22	.22	.22
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	'PDI-833-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤2.0 & > 0' in. wc	.50	.49	.49	.49	.49	.49	.49	.49	.49
		PDI-833-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-835-1	≤2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17	.17	.17
		PDI-835-2	≤2.0 & > 0' in. wc	.45	.45	.44	.44	.44	.44	.44	.44	.44
		PDI-835-3	≤2.0 & > 0' in. wc	.40	.40	.39	.39	.39	.39	.39	.39	.39
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	'PDI-815-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	'PDI-815-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-816-1	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-816-2	≤2.0 & > 0' in. wc	.52	.52	.52	.52	.52	.52	.52	.52	.52
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	.47	.47	.47	.47	.47	.47	.47	.47	.47
		PDI-816-5	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50	.50

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

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SIRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	'PDI-812-1	≤2.0 & >0 <sup>1</sup> in. wc	BF	2/15/2016	4/16/16	2/17/16	2/18/16	2/19/16	2-20-16	2-21-16
			≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-1	≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
4.1.3.4	IFIT exhaust filler plenum (FF-865) ΔP	'PDI-865-1	≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	'PDI-863-1	≤2.0 & >0 <sup>1</sup> in. wc								
			≤2.0 & >0 <sup>1</sup> in. wc								

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

(Page 4 of 4)

SIRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS												
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0' in. wc	BF	2/15/16	Mon.											
		PDI-857-2	≤ 2.0 & > 0' in. wc		2/16/16	Tue.	GM										
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0' in. wc		2/15/16	Mon.	GM										
		PDI-856-2	≤ 2.0 & > 0' in. wc		2/16/16	Tue.	GM										
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)		2/15/16	Mon.	SAT										
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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		2/15/16	Mon.	SAT										
					2/16/16	Tue.	SAT										
					2/17/16	Wed.	SAT										
					2/18/16	Thu.	SAT										
					2/19/16	Fri.	SAT										
					2/20/16	Sat.	SAT										
					2/21/16	Sun.	SAT										
OC Operator Review and Page Count Complete (initials)																	
					0800		0812		0829		0832		0845		0750		0750
					GM		GM		GM		GM		GM		GM		GM

Non TSR requirement

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

Completed by: Paul Trivette Date 2-11-16 Time 0750 Reviewed by: [Signature] Date: 2/23/16 Time: 0800

On-duty Supervisor

Comments:

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 042252	PF-10 Thermistor File No.: 103765	V-701 Thermistor File No.: 103761
	Calibration Expiration Date: 6/13/16	Calibration Expiration Date: 6/24/16	Calibration Expiration Date: 6/24/16
	PF-11 Thermometer File No.: 039746	PF-11 Thermistor File No.: 040376	V-704 Thermistor File No.: 103763
	Calibration Expiration Date: 6/13/16	Calibration Expiration Date: 6/24/16	Calibration Expiration Date: 6/24/16

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criteria	Date							Completion Time	OC Operator Review and Page Count Complete (initials)
			2/15/16	2/16/16	2/17/16	2/18/16	2/19/16	2/20/16	2/21/16		
Daily (September through April only)			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
Initials:			U	JF	JF	AS	PT	U	U		
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	SAT UNSAT	SAT UNSAT
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	50.4	50.5	50.0	50.3	50.4	50.3	50.1		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	48.2	48.1	49.0	48.3	48.9	49.1	49.4		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	67.5	69.3	54.4	57.6	58.1	57.7	56.6		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	63.7	67.4	62.6	62.8	63.5	64.0	64.1		
Completion Time:			0815	0900	0852	0924	0840	0812	0807		
OC Operator Review and Page Count Complete (initials)			U	U	JF	AS	PT	U	U		

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

Completed by: PHW Date: 2/21/16 Time: 0807

Reviewed by: [Signature] Date: 2/23/16 Time: 0800

On-duty Supervisor: [Signature]

Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

Note	Date:	2-22-16		2-23-16		2-24-16		2-25-16		2-26-16		2-27-16		2-28-16		
		Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Gauge readings should be taken on rack #4 in the OC, wherever possible. Document if alternate PDIs are used.	Shift:	[Handwritten: AM, PM, AM, PM, AM, PM, AM, PM, AM, PM, AM, PM, AM, PM, AM, PM]														
	Initials:	[Handwritten: JAS, JAS, JAS, JAS, JAS, JAS, JAS, JAS, JAS, JAS, JAS, JAS, JAS, JAS, JAS, JAS]														
SRs	Description	SURVEILLANCE RESULTS (in. wc)														
		Gauge Acceptance Criteria														
4.1.1.1 4.1.2.1 <sup>2</sup>	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc'	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99
	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc'	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93
	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc'	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91
	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc'	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83
	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc'	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc'	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc'	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	
	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc'	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	
	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	
	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	
4.1.1.3 4.1.2.3 <sup>2</sup>	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	
	PDI-901 or PDI-901	< 0.00 in. wc	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	
	IRT Tunnel ΔP	< 0.00 in. wc	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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Note	Date:	2/22/16		2/23-16		02/24-16		2/25/16		02/26-16		02/28-16			
		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
SRs	Description	Weekday:		Shift:		Initials:		Acceptance Criteria		Readings		SURVEILLANCE RESULTS			
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	Sat.	Unsat. (circle one)		
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.	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP > .050	FR-802 Icon red and PDT-832 AP > .050	FR-803 Icon red and PDT-833 AP > .050	FR-804 Icon red and PDT-835 AP > .050	FR-805 Icon red and PDT-836 AP > .050	FR-806 Icon red and PDT-837 AP > .050	FR-807 Icon red and PDT-838 AP > .050	FR-808 Icon red and PDT-839 AP > .050	FR-811 Icon red and PDT-840 AP > .050	FR-812 Icon red and PDT-841 AP > .050	(Sat)	Unsat		
		At least one fan/plenum is in service	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	
		At least one fan/plenum is in service	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	
		At least one fan/plenum is in service	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	
		At least one fan/plenum is in service	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	
		At least one fan/plenum is in service	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	
	4.1.1.6	Vault re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP > .050	FR-802 Icon red and PDT-832 AP > .050	FR-803 Icon red and PDT-833 AP > .050	FR-804 Icon red and PDT-835 AP > .050	FR-805 Icon red and PDT-836 AP > .050	FR-806 Icon red and PDT-837 AP > .050	FR-807 Icon red and PDT-838 AP > .050	FR-808 Icon red and PDT-839 AP > .050	FR-811 Icon red and PDT-840 AP > .050	FR-812 Icon red and PDT-841 AP > .050	(Sat)	Unsat	
			At least one fan/plenum is in service	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat
			At least one fan/plenum is in service	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat
			At least one fan/plenum is in service	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat
			At least one fan/plenum is in service	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat
			At least one fan/plenum is in service	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

Note		Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.				
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.		2/22/16		02-23-16		02-24-16		2-25-16		02-26-16		02-27-16		02-28-16						
SRs	Description	Area	Gauge	Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.				
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
Acceptance Criteria				SURVEILLANCE RESULTS																
				Sat. / Unsat. (circle one)																
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
			PDI-803-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
			PDI-804-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
			PDI-820-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
			PDI-804-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
				PDI-870-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
				PDI-853-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
				PDI-854-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
				PDI-864-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
				PDI-852-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
				PDI-854-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
				Completion Time	0757 0116 1923 0726 1923 0723 0718 1923															

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

Completed by: [Signature] Date: 02/28/16 Time: 1923  
Reviewed by: [Signature] Date: 2/29/16 Time: 0700  
On-duty Supervisor

Comments:



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq +0.1$ ).

		Date: 2/22/2016	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/16	2/28/16
		Weekday: Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials: BF	DH	GM	GM	BF	BC	JR
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge							
	Flammable Gas Channel Check	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	DET-305-3 (LCD Reading)	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)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Record Calculated Value		$\geq -0.1$ ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0
Completion Time:		0830	0808	0832	0800	0740	0812	0855

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Weekdays:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	South basement supply filter plenum (IIVP-841) AP	'PDI-894-1	$\leq 2.0$ & $> 0'$ in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/16	2/27/16	2/28/16	
		PDI-894-2	$\leq 2.0$ & $> 0'$ in. wc								
4.1.3.4	South Corridor supply (IIVP-810) AP	'PDI-895-1	$\leq 2.0$ & $> 0'$ in. wc	0F	DK	DM	DM	AF	BC	DK	
		PDI-895-2	$\leq 2.0$ & $> 0'$ in. wc								
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1	$\leq 2.0$ & $> 0'$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	$\leq 2.0$ & $> 0'$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	$\leq 2.0$ & $> 0'$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	$\leq 2.0$ & $> 0'$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	'PDI-819-1	$\leq 2.0$ & $> 0'$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-3	$\leq 2.0$ & $> 0'$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	$\leq 2.0$ & $> 0'$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	'PDI-818-1	$\leq 2.0$ & $> 0'$ in. wc	.26	.26	.26	.25	.25	.25	.25	.25
		PDI-818-2	$\leq 2.0$ & $> 0'$ in. wc	.33	.32	.32	.31	.31	.31	.31	.31
		PDI-818-4	$\leq 2.0$ & $> 0'$ in. wc	.35	.35	.36	.35	.35	.35	.35	.35
		PDI-818-5	$\leq 2.0$ & $> 0'$ in. wc	.58	.39	.39	.37	.36	.36	.35	.35
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	'PDI-821-1	$\leq 2.0$ & $> 0'$ in. wc	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-821-3	$\leq 2.0$ & $> 0'$ in. wc	.45	.45	.44	.43	.43	.42	.41	.41
		PDI-821-4	$\leq 2.0$ & $> 0'$ in. wc	.39	.39	.39	.39	.39	.39	.39	.39

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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TASS-SIP-004, R17

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	2/22/2016	2/23/16	2/24/16	2/25/16	2/26/2016	2/28/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:	BF	DM	MM	GM	BY	BC	ST
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-822-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-822-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-822-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-823-1	≤2.0 & > 0' in. wc	.11	.11	.11	.11	.11	.11	.11
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	'PDI-823-2	≤2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.60	.60
		'PDI-823-4	≤2.0 & > 0' in. wc	.62	.61	.61	.61	.61	.61	.62
		'PDI-823-5	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.62	.62
		'PDI-830-1	≤2.0 & > 0' in. wc	.68	.68	.67	.67	.68	.67	.68
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	'PDI-830-2	≤2.0 & > 0' in. wc	.24	.28	.22	.22	.23	.22	.22
		'PDI-830-3	≤2.0 & > 0' in. wc	.28	.28	.26	.26	.27	.27	.28
		'PDI-836-1	≤2.0 & > 0' in. wc	.07	.06	.07	.07	.07	.06	.06
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	'PDI-836-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68
		'PDI-836-3	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.55	.55	.55
		'PDI-837-1	≤2.0 & > 0' in. wc	.41	.51	.51	.51	.51	.50	.51
		'PDI-837-2	≤2.0 & > 0' in. wc	.38	.35	.35	.35	.36	.35	.35
		'PDI-837-3	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.40

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	2/22/2016	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
				BF	DA	GR	JA	BF	BC	BC	2/28/16	Sun.
				Initials:								
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.51	.50	.50		
		PDI-838-2	≤2.0 & > 0' in. wc	.52	.51	.51	.51	.51	.50	.51		
		PDI-838-3	≤2.0 & > 0' in. wc	.58	.58	.58	.57	.58	.58	.58		
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	.43	.44	.44	.44	.44	.44	.43		
		PDI-839-2	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.55	.55	.55		
		PDI-839-3	≤2.0 & > 0' in. wc	.61	.60	.60	.61	.61	.60	.60		
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	.14	.14	.14		
		PDI-810-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	.46	.46	.46		
		PDI-810-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	.45	.45	.43		
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc	.10	.11	.11	OFF	OFF	OFF	OFF		
		PDI-811-2	≤2.0 & > 0' in. wc	.47	.46	.47	OFF	OFF	OFF	OFF		
		PDI-811-3	≤2.0 & > 0' in. wc	.48	.45	.48	OFF	OFF	OFF	OFF		
OC Operator Review and Page Count Complete (initials)				0845	0850	0855	0835	0815	0853	0922		

\*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: JDS Date: 2/28/16 Time: 0922 Reviewed by: [Signature] Date: 2/29/16 Time: 0700  
On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	gpr	2/22/16 Mon.	2/23/16 Tue.	2/24/16 Wed.	2/25/16 Thu.	2/26/16 Fri.	2/27/16 Sat.	2/28/16 Sun.
		PDI-840-2	≤2.0 & > 0' in. wc	DH	.16	.16	.58	.16	.16	.58	.16
		PDI-840-3	≤2.0 & > 0' in. wc	DH	.58	.50	.50	.50	.50	.50	.50
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	gpr	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	DH	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	DH	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	gpr	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc	DH	.48	.48	.48	.48	.48	.48	.48
		PDI-831-3	≤2.0 & > 0' in. wc	DH	.40	.40	.40	.40	.40	.40	.40
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	gpr	.34	.34	.34	.34	.34	.34	.34	
	PDI-832-2	≤2.0 & > 0' in. wc	DH	.67	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	DH	.61	.61	.61	.61	.61	.61	.61	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	gpr	off	OFF	off	.12	.12	.12	.11
		PDI-807-2	≤2.0 & > 0' in. wc	DH	off	OFF	off	.49	.50	.50	.50
		PDI-807-3	≤2.0 & > 0' in. wc	DH	off	OFF	off	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	gpr	.07	.07	.07	off	off	off	off
		PDI-809-2	≤2.0 & > 0' in. wc	DH	.52	.51	.52	off	off	off	off
		PDI-809-3	≤2.0 & > 0' in. wc	DH	.45	.45	.45	off	off	off	off

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:	SURVEILLANCE RESULTS (in. wc)						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.11	.11	.11	.13	.13	.12	.12	
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	'PDI-829-2	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.30	.30	.30	.31	.32	.32	.31	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-829-3	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.25	.25	.25	.28	.28	.27	.27	
4.1.3.4	100 area re-circulation filter plenum (HVP-803) AP	'PDI-833-1	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.07	.07	.07	.07	.07	.07	.07	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-833-2	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.49	.49	.49	.49	.49	.49	.49	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-833-3	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.40	.40	.40	.40	.40	.40	.40	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-835-1	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.17	.17	.17	.17	.17	.17	.17	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-835-2	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.44	.44	.44	.44	.45	.45	.45	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-835-3	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.40	.40	.40	.40	.40	.40	.40	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-815-1	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-815-2	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-815-4	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-815-5	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-816-1	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.42	.41	.42	.42	.42	.42	.42	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-816-2	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.51	.51	.51	.52	.54	.54	.54	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-816-4	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.48	.48	.48	.48	.48	.48	.48	
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	'PDI-816-5	<2.0 &gt; 0' in. wc	2/22/16	2/23/16	2/24/16	2/25/16	2/26/2016	2/27/2016	2/28/2016	2/29/2016
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				pm	DA	pm	pm	6F	pm	pm	
				Initials:							
				.51	.50	.51	.51	.51	.51	.51	

Surveillance Rounds

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

(Page 3 of 4)

TA55-SIP-004, R17

Sits	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	'PDI-812-1	≤2.0 & > 0' in. wc	JM	2/22/16	2/23/16	2/24/16	2/25/16	2/26/16	2/27/16	2/28/16	2/29/16
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
					JM	DH	JM	JM	BF	JM	JM	
					STBY	STBY	STBY	STBY	STBY	STBY	STBY	
					STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-1	≤2.0 & > 0' in. wc	JM	2/22/16	2/23/16	2/24/16	2/25/16	2/26/16	2/27/16	2/28/16	2/29/16
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
					JM	DH	JM	JM	BF	JM	JM	
					STBY	STBY	STBY	STBY	STBY	STBY	STBY	
					STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	'PDI-865-1	≤2.0 & > 0' in. wc	JM	2/22/16	2/23/16	2/24/16	2/25/16	2/26/16	2/27/16	2/28/16	2/29/16
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
					JM	DH	JM	JM	BF	JM	JM	
					STBY	STBY	STBY	STBY	STBY	STBY	STBY	
					STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	'PDI-863-1	≤2.0 & > 0' in. wc	JM	2/22/16	2/23/16	2/24/16	2/25/16	2/26/16	2/27/16	2/28/16	2/29/16
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
					JM	DH	JM	JM	BF	JM	JM	
					STBY	STBY	STBY	STBY	STBY	STBY	STBY	
					STBY	STBY	STBY	STBY	STBY	STBY	STBY	

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0' in. wc	JM	DH	JAL	JPC	OF			
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	< 2.0 & > 0' in. wc								
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	'PDI-856-1	≤ 2.0 & > 0' in. wc								
		PDI-856-2	≤ 2.0 & > 0' in. wc								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)								
			0 lb/ft <sup>3</sup> 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								
OC Operator Review and Page Count Complete (initials)											
Completion time											
' Non TSR requirement											
Note: SR 4.1.3.4 applies during mode 1 and mode 2.											
Completed by: <i>Michael M. Jones</i> Date: 2/28/16 Time: 0831											
Reviewed by: <i>[Signature]</i> Date: 2/28/16 Time: 0700											
On-duty Supervisor											
Comments:											

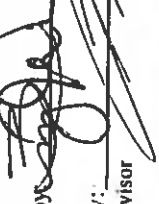



**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.:	042252	PF-10 Thermistor File No.:
	Calibration Expiration Date:	6/13/16	Calibration Expiration Date:
	PF-11 Thermometer File No.:	035746	PF-11 Thermistor File No.:
	Calibration Expiration Date:	6/13/16	Calibration Expiration Date:
	V-701 Thermistor File No.:	103765	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/29/16	Calibration Expiration Date:
	V-704 Thermistor File No.:	040376	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/29/16	Calibration Expiration Date:

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)							Sat.	Sun.
			Date:	Mon.	Tue.	Wed.	Thu.	Fri.			
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	2-22-16	2-23-16	2-24-16	2-25-16	2-26-16	2-27-16	2-28-16		
			Weekday:								
			Initials:	AS	AL	JE	TR	TR	JOS		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	49.5	48.4	49.3	50.1	50.1	50.1	50.2		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	49.1	48.4	47.9	47.9	47.9	47.9	48.3		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	56.3	55.3	54.2	57.8	57.7	60.2	59.9		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	68.4	65.2	67.1	67.9	64.5	64.0	60.7		
		Completion Time:	0932	0820	0909	0830	0845	1003	1007		
		OC Operator Review and Page Count Complete (initials)	ATA	ATA	ATA	ATA	ATA	ATA	ATA		

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: 02-28-16 Time: 1007

Reviewed by:  Date: 2/29/16 Time: 0700

On-duty Supervisor

Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

Note	Date:	Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Weekday:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:													
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	2-27-16	P U													
		P U													
<b>SRs</b>	<b>Gauge Acceptance Criteria</b>	<b>SURVEILLANCE RESULTS</b> (in. wc)													
<b>Description</b>	<b>Criteria</b>														
200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2														
100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2														
300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2														
400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2														
200 area laboratory header AP	PDI-803-1 or PDI-803-2														
100 area laboratory header AP	PDI-802-1 or PDI-802-2														
300 area laboratory header AP	PDI-853-1 or PDI-853-2														
400 area laboratory header AP	PDI-852-1 or PDI-852-2														
IFTT Facility AP	PDI-865-4 or PDI-865-5														
North basement AP	PDI-804-1 or PDI-804-2														
South basement AP	PDI-854-1 or PDI-854-2														
IRT Tunnel AP	PDI-901 or PDI-901														

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS													
				Sat. / Unsat. (circle one)													
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDTs may be used if FCS is unavailable.	Date: 2-27-16 Weekday: Shift: Initials:																
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP >.050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
		FR-802 Icon red and PDT-832 AP >.050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
		FR-803 Icon red and PDT-833 AP >.050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
	100 area re-circulation fan/plenum	FR-804 Icon red and PDT-835 AP >.050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
		FR-805 Icon red and PDT-836 AP >.050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
		FR-806 Icon red and PDT-837 AP >.050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
	300 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 AP >.050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
		FR-808 Icon red and PDT-839 AP >.050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
		FR-811 Icon red and PDT-840 AP >.050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
	400 area re-circulation fan/plenum	FR-812 Icon red and PDT-841 AP >.050	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
			Sat	Unsat	Sat	Unsat	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		Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
			Sat	Unsat	Sat	Unsat	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 [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat. / Unsat. (circle one)													
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
<b>Note</b> 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:	2-29-16												
					Weekday:													
					Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
					Initials:	C K												
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's 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	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
					Completion Time	0700		1922										

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

Completed by: RAUC Date 2/29/16 Time 1922 Reviewed by: [Signature] Date: 3/1/16 Time: 0700  
 On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is: The FLAMMABLE GAS detector in the PSTF 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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	2/19/16							
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	JM							
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
SR	Description / Gauge	NA								
	Flammable Gas Channel Check DET-305-3 (LCD Reading)									
4.4.1.1	CP-305-H (LED Reading)									
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)									
		Record Calculated Value								
		$\geq -0.1$ ; $\leq +0.1$								
		Completion Time:	0800							

For Information Only

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	[Signature]							
4.1.3.4	South basement supply filter plenum (IIVP-841) ΔP	'PDI-894-1	≤ 2.0 &gt; 0' in. wc	2/29/16							
		PDI-894-2	≤ 2.0 &gt; 0' in. wc								
4.1.3.4	South Corridor supply (IIVP-810) ΔP	'PDI-895-1	≤ 2.0 &gt; 0' in. wc								
		PDI-895-2	≤ 2.0 &gt; 0' in. wc								
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	'PDI-817-1	≤ 2.0 &gt; 0' in. wc								
		PDI-817-2	≤ 2.0 &gt; 0' in. wc								
		PDI-817-4	≤ 2.0 &gt; 0' in. wc								
		PDI-817-5	≤ 2.0 &gt; 0' in. wc								
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	'PDI-819-1	≤ 2.0 &gt; 0' in. wc								
		PDI-819-3	≤ 2.0 &gt; 0' in. wc								
		PDI-819-4	≤ 2.0 &gt; 0' in. wc								
		'PDI-818-1	≤ 2.0 &gt; 0' in. wc								
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤ 2.0 &gt; 0' in. wc								
		PDI-818-4	≤ 2.0 &gt; 0' in. wc								
		PDI-818-5	≤ 2.0 &gt; 0' in. wc								
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤ 2.0 &gt; 0' in. wc								
		PDI-821-3	≤ 2.0 &gt; 0' in. wc								
		PDI-821-4	≤ 2.0 &gt; 0' in. wc								

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	2/29/15								
		'PDI-822-2	≤ 2.0 & > 0 <sup>1</sup> in. wc		STBY							
		PDI-822-4	≤ 2.0 & > 0 <sup>1</sup> in. wc		STBY							
		PDI-822-5	≤ 2.0 & > 0 <sup>1</sup> in. wc		STBY							
		'PDI-823-1	≤ 2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-823-4	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-823-5	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		'PDI-830-1	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-830-2	≤ 2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-3	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		'PDI-836-1	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-836-2	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-836-3	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		'PDI-837-1	≤ 2.0 & > 0 <sup>1</sup> in. wc									
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-837-2	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-837-3	≤ 2.0 & > 0 <sup>1</sup> in. wc									

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤ 2.0 & > 0' in. wc	2/29/16								
		PDI-838-2	≤ 2.0 & > 0' in. wc									
		PDI-838-3	≤ 2.0 & > 0' in. wc									
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤ 2.0 & > 0' in. wc									
		PDI-839-2	≤ 2.0 & > 0' in. wc									
		PDI-839-3	≤ 2.0 & > 0' in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤ 2.0 & > 0' in. wc									
		PDI-810-2	≤ 2.0 & > 0' in. wc									
		PDI-810-3	≤ 2.0 & > 0' in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤ 2.0 & > 0' in. wc									
		PDI-811-2	≤ 2.0 & > 0' in. wc									
		PDI-811-3	≤ 2.0 & > 0' in. wc									
OC Operator Review and Page Count Complete (initials)												

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: Supra Date 2/29/16 Time 0850 Reviewed by: [Signature] Date: 3/1/16 Time: 0700  
On-Duty Supervisor

Comments



**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRs	Description	Gadge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0 <sup>1</sup> in. wc	2/29/16									
		PDI-840-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-840-3	≤2.0 & > 0 <sup>1</sup> in. wc										
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-841-3	≤2.0 & > 0 <sup>1</sup> in. wc										
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-831-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-831-3	≤2.0 & > 0 <sup>1</sup> in. wc										
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0 <sup>1</sup> in. wc											
	PDI-832-2	≤2.0 & > 0 <sup>1</sup> in. wc											
	PDI-832-3	≤2.0 & > 0 <sup>1</sup> in. wc											
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-807-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-807-3	≤2.0 & > 0 <sup>1</sup> in. wc										
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-809-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-809-3	≤2.0 & > 0 <sup>1</sup> in. wc										

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SIRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:							
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc	Jpc	2/29/16							
		PDI-829-2	≤2.0 & > 0' in. wc		.13							
		PDI-829-3	≤2.0 & > 0' in. wc		.30							
		'PDI-833-1	≤2.0 & > 0' in. wc		.27							
		PDI-833-2	≤2.0 & > 0' in. wc		.07							
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	Jpc								
		'PDI-835-1	≤2.0 & > 0' in. wc		.49							
		PDI-835-2	≤2.0 & > 0' in. wc		.40							
		PDI-835-3	≤2.0 & > 0' in. wc		.19							
		'PDI-815-1	≤2.0 & > 0' in. wc		.42							
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	Jpc								
		PDI-815-4	≤2.0 & > 0' in. wc		.39							
		PDI-815-5	≤2.0 & > 0' in. wc		STBY							
		'PDI-816-1	≤2.0 & > 0' in. wc		STBY							
		PDI-816-2	≤2.0 & > 0' in. wc		STBY							
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	Jpc								
		PDI-816-5	≤2.0 & > 0' in. wc		.43							
		'PDI-816-1	≤2.0 & > 0' in. wc		.54							
		PDI-816-2	≤2.0 & > 0' in. wc		.49							
		PDI-816-4	≤2.0 & > 0' in. wc		.51							

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤ 2.0 & > 0' in. wc	AM	2/29/18							
		PDI-812-2	≤ 2.0 & > 0' in. wc									
		PDI-812-3	≤ 2.0 & > 0' in. wc									
		PDI-812-4	≤ 2.0 & > 0' in. wc									
		PDI-812-5	≤ 2.0 & > 0' in. wc									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤ 2.0 & > 0' in. wc									
		PDI-813-2	≤ 2.0 & > 0' in. wc									
		PDI-813-3	≤ 2.0 & > 0' in. wc									
		PDI-813-4	≤ 2.0 & > 0' in. wc									
		PDI-813-5	≤ 2.0 & > 0' in. wc									
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤ 2.0 & > 0' in. wc									
		PDI-865-2	≤ 2.0 & > 0' in. wc									
		PDI-865-3	≤ 2.0 & > 0' in. wc									
4.1.3.4	IFT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤ 2.0 & > 0' in. wc									
		PDI-863-2	≤ 2.0 & > 0' in. wc									

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	< 2.0 & > 0' in. wc	2/29/18								
		PDI-857-2	≤ 2.0 & > 0' in. wc									
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0' in. wc									
		PDI-856-2	≤ 2.0 & > 0' in. wc									
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)									
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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									
OC Operator Review and Page Count Complete (initials)				Completion time								
OC Operator Review and Page Count Complete (initials)				OC Operator Review and Page Count Complete (initials)								

**Non TSR requirement**

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

Completed by: Sam M Date: 2/29/18 Time: 0850 Reviewed by: [Signature] Date: 3/1/18 Time: 0700

On-duty Supervisor

Comments:

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**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.:	042252	PF-10 Thermistor File No.:
	Calibration Expiration Date:	6/13/16	Calibration Expiration Date:
	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:
	Calibration Expiration Date:	6/13/16	Calibration Expiration Date:
		103765	V-701 Thermistor File No.:
		6/24/2016	Calibration Expiration Date:
		040376	V-704 Thermistor File No.:
		6/24/2016	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criteria	Date:	Weekday:	Initials:	SAT / UNSAT		SAT / UNSAT		SAT / UNSAT	
						Mon.	Tue.	Wed.	Thu.	Fri.	Sun.
	Daily (September through April only)		2/29/16	Mon.	BF						
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.									
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F									
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F									
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F									
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F									
		Completion Time:	0831								
		OC Operator Review and Page Count Complete (initials)	08								

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

Completed by: B. Felt Date: 2/29/2016 Time: 0845  
 Reviewed by: [Signature] Date: 2/29/16 Time: 0700  
 On-duty Supervisor: [Signature] Date: 3/1/16 Time: 0700  
 Comments: \_\_\_\_\_

**ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]**  
(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	Sat / Unsat.	1415	2/10/16	DH
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.	1415	2/10/16	DH
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.	1309	2/10/16	DH
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	Sat / Unsat.	1318	2/10/16	DH
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is <u>30</u> seconds.	Sat / Unsat.	1318	2/10/16	DH

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OE Order # 20.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANL Building T455-4 (P.F.-4). Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANL-DOE-ORDER-4201B-EO-2013-001

ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]  
(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). 6.4 Seconds	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1332	2/10/16	DH
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.	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1356	2/10/16	DH
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).	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1342	2/10/16	DH
OC Operator Review and Page Count Complete							2

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: *[Signature]* Date 2/10/16 Time 1415 Reviewed by: *[Signature]* Date 2/10/16 Time: 1435

On-duty Supervisor Comments:

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**ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center) [UET]**  
(Page 1 of 1)

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

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

Completed by: John Smets Date 2/1/16 Time 0508

Reviewed by: [Signature] Date 2/1/16 Time 0632  
On-duty Supervisor

Comments:



# March

TA55-STP-002, R11.3

Control and Execution of TA-55 Safety System LCOs and Surveillances

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**Attachment B, Surveillance Training Checklist**

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004 R17
Date of issue:	3/1/16
Working copy issued to:	PRICE
Working copy issued by:	PRICE
Certified Operations Center Operator (OCO)	

**OC Reviews Complete and TSR Status Board Updated**



OCO Signature

1 4/3/16

Date

**Training Checklist:**

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
R BRISCOE	u	3/1/16
B CHANCE	u	
A DUNSETH	u	
J LOVATO	u	
R LUM	u	
A DRTIC	u	
R PRICE	u	
F SEYBART	u	
J SMELTZ	u	
J MARTINEZ	u	

Performance Type:  Scheduled  Partial *If partial, list reason in Comments below*

Comments: (Document TSR Status Board tracking date here if different from completion date.)

Track as 4/3/16

TA55-STP-002, R11.3

Control and Execution of TA-55 Safety System LCOs and Surveillances

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**Attachment B, Surveillance Training Checklist (continued)**

(Page 2 of 2)

**Training Checklist (continuation sheet)**

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
P TRUJILLO	u	3/1/16
T LAUGHWORTHY	u	↓
R HORN	u	
M IRISH	u	
A HERRERA	u	
A SANCHEZ	u	
B FORDHAM	u	
D HEINTZEL	u	
K BAILEY	u	
A JAURIGUE	u	

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria (in. wc)	SURVEILLANCE RESULTS															
			Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Weekday:	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-814-1 or PDI-814-2																
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-820-1 or PDI-820-2																
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-870-1 or PDI-870-2																
	400 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-864-1 or PDI-864-2																
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header ΔP	≤-0.05 in. wc' PDI-803-1 or PDI-803-2																
	100 area laboratory header ΔP	≤-0.05 in. wc' PDI-802-1 or PDI-802-2																
	300 area laboratory header ΔP	≤-0.05 in. wc' PDI-853-1 or PDI-853-2																
	400 area laboratory header ΔP	≤-0.05 in. wc' PDI-852-1 or PDI-852-2																
4.1.1.3 4.1.2.3 <sup>2</sup>	IFIT Facility ΔP	≤-0.05 in. wc PDI-865-4 or PDI-865-5																
	North basement ΔP	< 0.00 in. wc PDI-804-1 or PDI-804-2																
	South basement ΔP	< 0.00 in. wc PDI-854-1 or PDI-854-2																
	IRT Tunnel ΔP	< 0.00 in. wc PDI-901 or PDI-901																

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS							
				Sat. / Unsat. (circle one)							
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:	3-1-16	3-2-16	03-03-16	3-4-16	3-5-16	3-6-16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Shift:	AM	PM	AM	PM	AM	PM	
				Initials:							
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 AP > .050 or FR-804 Icon red and PDT-835 AP > .050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 AP > .050 or FR-806 Icon red and PDT-837 AP > .050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	400 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 AP > .050 or FR-808 Icon red and PDT-839 AP > .050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRS	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat. / Unsat. (circle one)													
					Mon.	Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2		3-1-16	3-2-16	03-03-16	3-4-16	3-5-16	3-6-16							
			PDI-803-2															
			PDI-804-2															
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2														
			PDI-802-2															
			PDI-804-2															
			PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2														
			PDI-853-2															
			PDI-854-2															
			PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2														
			PDI-852-2															
			PDI-854-2															
			Completion Time			0130	0739	0718	0730	0740	0730	1422	0740	0730	1420			

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

Completed by: PLUC Date 3/6/16 Time 1900 Reviewed by: [Signature] Date: 3/17/16 Time: 0925  
 On-duty Supervisor

Comments: \_\_\_\_\_

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:							
<b>SURVEILLANCE RESULTS (percentage)</b>									
SR	Description / Gauge	Acceptance Criteria							
	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA							
4.4.1.1	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							
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:		0802	0745	0832	0750	0710	0705	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤2.0 & > 0' in. wc									
		PDI-894-2	≤2.0 & > 0' in. wc									
		'PDI-895-1	≤2.0 & > 0' in. wc									
		PDI-895-2	≤2.0 & > 0' in. wc									
4.1.3.4	South Corridor supply (HVP-810) ΔP	'PDI-817-1	≤2.0 & > 0' in. wc									
		PDI-817-2	≤2.0 & > 0' in. wc									
		PDI-817-4	≤2.0 & > 0' in. wc									
		PDI-817-5	≤2.0 & > 0' in. wc									
		PDI-819-1	≤2.0 & > 0' in. wc									
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-819-3	≤2.0 & > 0' in. wc									
		PDI-819-4	≤2.0 & > 0' in. wc									
		'PDI-818-1	≤2.0 & > 0' in. wc									
		PDI-818-2	≤2.0 & > 0' in. wc									
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-4	≤2.0 & > 0' in. wc									
		PDI-818-5	≤2.0 & > 0' in. wc									
		PDI-821-1	≤2.0 & > 0' in. wc									
		PDI-821-3	≤2.0 & > 0' in. wc									
		PDI-821-4	≤2.0 & > 0' in. wc									



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0' in. wc			1.14	1.14	1.14	1.14	1.14	1.14	1.14
		PDI-822-2	≤2.0 & > 0' in. wc		.60	.60	.60	.60	.60	.60	.60	.60
		PDI-822-4	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51	.51
		PDI-822-5	≤2.0 & > 0' in. wc		.55	.54	.54	.54	.54	.54	.54	.54
		'PDI-823-1	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-830-1	≤2.0 & > 0' in. wc		.68	.68	.68	.68	.68	.68	.68	.68
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc		.22	.22	.22	.22	.22	.22	.22	.22
		PDI-830-3	≤2.0 & > 0' in. wc		.22	.27	.27	.27	.27	.27	.27	.27
		'PDI-836-1	≤2.0 & > 0' in. wc		.07	.07	.07	.07	.07	.07	.07	.07
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-836-2	≤2.0 & > 0' in. wc		.67	.67	.67	.67	.67	.67	.67	.67
		PDI-836-3	≤2.0 & > 0' in. wc		.55	.55	.55	.55	.55	.55	.55	.55
		'PDI-837-1	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51	.51
4.1.1.7	300 area re-circulation filter plenum (IIVP-806) AP	PDI-837-2	≤2.0 & > 0' in. wc		.36	.36	.36	.36	.36	.36	.36	.36
		PDI-837-3	≤2.0 & > 0' in. wc		.41	.41	.41	.41	.41	.41	.41	.41

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc			.51	.51	.51	.51	.51	.51	.51
		PDI-838-2	≤2.0 & > 0' in. wc			.51	.51	.51	.51	.51	.51	.51
		PDI-838-3	≤2.0 & > 0' in. wc			.56	.56	.56	.56	.56	.56	.56
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc			.42	.42	.42	.42	.42	.42	.42
		PDI-839-2	≤2.0 & > 0' in. wc			.55	.55	.55	.55	.55	.55	.55
		PDI-839-3	≤2.0 & > 0' in. wc			.60	.60	.60	.60	.60	.60	.60
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc			.14	.14	.14	.14	.14	.14	.14
		PDI-810-2	≤2.0 & > 0' in. wc			.45	.45	.47	.46	.46	.46	.46
		PDI-810-3	≤2.0 & > 0' in. wc			.42	.42	.46	.44	.44	.44	.46
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc			OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & > 0' in. wc			OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	≤2.0 & > 0' in. wc			OFF	OFF	OFF	OFF	OFF	OFF	OFF
OC Operator Review and Page Count Complete (initials)						.0835	.0830	.0840	.0820	.0755	.0735	

'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: Scora A. Date: 3/16/16 Time: 0735 Reviewed by: [Signature] Date: 3/16/16 Time: 0925

On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

TA55-S.P-004, R17

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc									
		PDI-840-2	≤2.0 & > 0 in. wc									
		PDI-840-3	≤2.0 & > 0' in. wc									
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc									
		PDI-841-2	≤2.0 & > 0' in. wc									
		PDI-841-3	≤2.0 & > 0' in. wc									
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc									
		PDI-831-2	≤2.0 & > 0' in. wc									
		PDI-831-3	≤2.0 & > 0' in. wc									
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc										
	PDI-832-2	≤2.0 & > 0' in. wc										
	PDI-832-3	≤2.0 & > 0' in. wc										
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc									
		PDI-807-2	≤2.0 & > 0' in. wc									
		PDI-807-3	≤2.0 & > 0' in. wc									
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc									
		PDI-809-2	≤2.0 & > 0' in. wc									
		PDI-809-3	≤2.0 & > 0' in. wc									

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc									
		PDI-829-2	≤2.0 & > 0' in. wc									
		PDI-829-3	≤2.0 & > 0' in. wc									
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤2.0 & > 0' in. wc									
		PDI-833-2	≤2.0 & > 0' in. wc									
		PDI-833-3	≤2.0 & > 0' in. wc									
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	≤2.0 & > 0' in. wc									
		PDI-815-2	≤2.0 & > 0' in. wc									
		PDI-815-4	≤2.0 & > 0' in. wc									
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤2.0 & > 0' in. wc									
		PDI-816-2	≤2.0 & > 0' in. wc									
		PDI-816-4	≤2.0 & > 0' in. wc									
		PDI-816-5	≤2.0 & > 0' in. wc									

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

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:								
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc			.17	.17	.17	.17	.17	.17	.17
		PDI-812-2	≤2.0 & > 0' in. wc		.40	.40	.40	.40	.40	.40	.40	.40
		PDI-812-3	≤2.0 & > 0' in. wc		.40	.40	.40	.40	.40	.40	.40	.40
		PDI-812-4	≤2.0 & > 0' in. wc		.32	.33	.33	.33	.33	.33	.33	.33
		PDI-812-5	≤2.0 & > 0' in. wc		.34	.44	.44	.44	.44	.44	.44	.44
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc		.04	.03	.03	.03	.03	.03	.03	.03
		PDI-865-2	≤2.0 & > 0' in. wc		.30	.31	.31	.31	.30	.30	.30	
		PDI-865-3	≤2.0 & > 0' in. wc		.35	.40	.40	.36	.36	.35	.33	.33
4.1.3.4	IFIT supply filter plenum (FIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc		.06	.06	.06	.07	.07	.07	.07	.07
		PDI-863-2	≤2.0 & > 0' in. wc		.29	.29	.29	.29	.29	.29	.29	.29

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc									
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc									
4.3.2.2	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤ 2.0 & > 0' in. wc									
		PDI-856-2	≤ 2.0 & > 0' in. wc									
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)									
			0 lb/ft <sup>3</sup> 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									
Completion time												
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: FERG H. Date 3/16/16 Time 0720 Reviewed by: [Signature] Time 0925

On-duty Supervisor

Comments:

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.:	103765	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/24/16	Calibration Expiration Date:
Record September through April only	PF-11 Thermometer File No.:	040371	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/24/16	Calibration Expiration Date:

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)							SAT / UNSAT	SAT / UNSAT	SAT / UNSAT									
			Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.				Sun.								
			Weekday:	Initials:																	
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.																			
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F			49.6	48.91	49.9	49.3	49.9	49.9	50.3	50.1									
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F			48.5	49.69	49.3	49.3	49.7	50.4	50.4	50.4									
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F			60.0	62.62	63.8	63.8	66.9	64.3	65.0	65.0									
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F			63.8	64.19	72.5	72.5	71.8	68.3	73.3	73.3									
	OC Operator Review and Page Count Complete (initials)	Completion Time:			0109	0801	0935	0935	0852	1030	0827	0827									

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: 3/6/16 Time: 0827  
 Reviewed by: [Signature] Date: 3/7/14 Time: 0925  
 On-duty Supervisor

Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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Note	Date:	3/7/16		3/8/16		3-9-16		3-10-16		3/11/16		3/12/16		3/13/16		
		Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDIs are used.	Initials:	[Handwritten]		[Handwritten]		[Handwritten]		[Handwritten]		[Handwritten]		[Handwritten]		[Handwritten]		
<b>SRs</b>	<b>Description</b>	<b>SURVEILLANCE RESULTS</b> (in. wc)														
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc'	-1.99	-2.00	-1.99	-2.01	-2.00	-1.99	-2.00	-1.99	-2.00	-1.99	-2.00	-1.99	-2.00
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc'	-1.97	-1.93	-1.97	-1.93	-1.92	-1.93	-1.97	-1.97	-1.92	-1.97	-1.92	-1.97	-1.93
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc'	-1.97	-1.98	-1.97	-1.98	-1.98	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.98
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc'	-1.97	-1.97	-1.98	-1.98	-1.98	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.98
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc'	-0.22	-0.22	-0.22	-0.22	-0.23	-0.21	-0.22	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc'	-0.25	-0.24	-0.24	-0.24	-0.26	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.25
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc'	-0.21	-0.20	-0.19	-0.19	-0.21	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.19	-0.19
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc'	-0.21	-0.20	-0.20	-0.20	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.21	-0.20	-0.20
4.1.1.3 4.1.2.3 <sup>2</sup>	IFT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-0.10	-0.10	-0.09	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-0.11	-0.11	-0.09	-0.11	-0.10	-0.10	-0.11	-0.10	-0.11	-0.11	-0.11	-0.10	-0.10
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12



ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS								
				Sat. / Unsat. (circle one)								
4.1.1.6	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.	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050 FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050 FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050 FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050 FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	Date:	3/7/16	3/8/16	3-9-16	3-10-16	3/11/16	3/12/16	3/13/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
				Readings	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS															
					Sat/Unsat. (circle one)															
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-803-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-820-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-802-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM				
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	PDI-853-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	PDI-854-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM				
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	PDI-852-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
				Completion Time	0713	1919	0721	1919	0730	1923	0730	1927	0731	1921	0732	1917	0732	1918		

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

Completed by:  Date: 3/15/16 Time: 1918 Reviewed by:  Date: 3/15/16 Time: 0620  
 On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	3/7/16	3/8/16	3/9/16	3/10/16	3-11-16	3-12-16	3/13/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	AM	AM	AM	PT	PT	[Signature]
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR	Description / Gauge	NA							
	Flammable Gas Channel Check DET-305-3 (LCD Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.4.1.1	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 $\geq -0.1$ ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Completion Time:	0730	0821	0826	0720	0745	0802	0810

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

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SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday:	3/2/16 Mon.	3/8/16 Tue.	3/9/16 Wed.	3/10/16 Thu.	3-11-16 Fri.	3/12/16 Sat.	3/13/16 Sun.	
				Initials:	AM	AM	AM	AM	AM	PT	PT	
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1 PDI-894-2	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc		.05 .51	.05 .51	.05 .51	.05 .51	.05 .51	-.05 .51	.05 .49	.06 .49
4.1.3.4	South Corridor supply (HVP-810) AP	'PDI-895-1 PDI-895-2	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc		.05 .60	.05 .60	.05 .60	.05 .60	.05 .60	-.05 .60	.06 .61	.06 .41
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1 PDI-817-2 PDI-817-4 PDI-817-5	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc		.29 .31 .31 .30	.29 .31 .32 .30	.29 .31 .32 .30	.29 .31 .32 .30	.29 .31 .31 .30	.29 .31 .31 .30	.29 .31 .31 .30	.29 .31 .32 .30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1 PDI-819-3 PDI-819-4	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc		.41 .41 .36	.41 .42 .36	.41 .41 .36	.41 .41 .36	.41 .41 .36	.41 .41 .36	.41 .41 .36	.41 .41 .35
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	'PDI-818-1 PDI-818-2 PDI-818-4 PDI-818-5	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc		STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1 PDI-821-3 PDI-821-4	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc		STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0 <sup>1</sup> in. wc	3/2/16	3/8/16	3/9/16	3/10/16	3-11-16	3-12-16	3/13/16		
		PDI-822-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-822-4	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-822-5	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-823-1	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-823-5	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-830-1	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-830-3	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-836-1	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-836-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-836-3	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-837-1	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.1.7	300 area re-circulation filter plenum (IIVP-806) AP	PDI-837-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-837-3	≤2.0 & > 0 <sup>1</sup> in. wc									

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday: Initials:	3/2/16 Mon. Jm	3/8/16 Tue. Jm	3/9/16 Wed. Jm	3/10/16 Thu. Jm	3/11/16 Fri. PT	3/12/16 Sat. PT
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & >0' in. wc	.49	.49	.49	.49	.50	.50	.50
		PDI-838-2	≤2.0 & >0' in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-838-3	≤2.0 & >0' in. wc	.56	.56	.56	.56	.58	.58	.58
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & >0' in. wc	.43	.43	.43	.43	.44	.44	.43
		PDI-839-2	≤2.0 & >0' in. wc	.55	.55	.55	.55	.55	.55	.55
		PDI-839-3	≤2.0 & >0' in. wc	.61	.60	.60	.60	.61	.60	.60
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & >0' in. wc	.14	.14	.15	.16	.16	.14	.14
		PDI-810-2	≤2.0 & >0' in. wc	.58	.43	.49	.45	.45	.45	.46
		PDI-810-3	≤2.0 & >0' in. wc	.45	.42	.49	.42	.43	.43	.44
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & >0' in. wc	off	off	off	off	off	off	off
		PDI-811-2	≤2.0 & >0' in. wc	off	off	off	off	off	off	off
		PDI-811-3	≤2.0 & >0' in. wc	off	off	off	off	off	off	off
Completion Time				0822	0906	0904	0730	0759	0800	0848
OC Operator Review and Page Count Complete (initials)										

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: 3/17/16 Time: 0848

Reviewed by: Date: 3/15/16 Time: 0620

On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	AM	3/2/16	3/8/16	3/9/16	3/10/16	3/11/2016	7-12-16	3/13/16	
		PDI-840-2	≤2.0 & > 0' in. wc	AM								
		PDI-840-3	≤2.0 & > 0' in. wc	AM								
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc									
		PDI-841-2	≤2.0 & > 0' in. wc									
		PDI-841-3	≤2.0 & > 0' in. wc									
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc									
		PDI-831-2	≤2.0 & > 0' in. wc									
		PDI-831-3	≤2.0 & > 0' in. wc									
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc										
	PDI-832-2	≤2.0 & > 0' in. wc										
	PDI-832-3	≤2.0 & > 0' in. wc										
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc									
		PDI-807-2	≤2.0 & > 0' in. wc									
		PDI-807-3	≤2.0 & > 0' in. wc									
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc									
		PDI-809-2	≤2.0 & > 0' in. wc									
		PDI-809-3	≤2.0 & > 0' in. wc									

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	3/2/16 Mon.	3/8/16 Tue.	3/9/16 Wed.	3/10/16 Thu.	3/11/2016 Fri.	3-12-16 Sat.	3/13/16 Sun.
		PDI-829-2	≤2.0 & > 0' in. wc	.14	.14	.14	.15	.15	.15	.15
		PDI-829-3	≤2.0 & > 0' in. wc	.35	.33	.33	.35	.36	.36	.35
		PDI-833-1	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.30	.30	.30
		PDI-833-2	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49
		PDI-835-1	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40
		PDI-835-2	≤2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17
		PDI-835-3	≤2.0 & > 0' in. wc	.42	.42	.42	.43	.43	.43	.42
		PDI-815-1	≤2.0 & > 0' in. wc	.40	.40	.40	.39	.40	.40	.39
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	.20	.20	.20	.20	.21	.21	.21
		PDI-815-4	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.50	.50	.50
		PDI-815-5	≤2.0 & > 0' in. wc	.42	.43	.43	.42	.44	.45	.45
		PDI-816-1	≤2.0 & > 0' in. wc	.45	.44	.45	.45	.46	.47	.46
		PDI-816-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY



**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)									
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	gm	3/7/16	Mon.	.12	.17	.17	.16	.17	.17	.17	.18
		PDI-812-2	≤2.0 & > 0' in. wc	gm	3/8/16	Tue.	.40	.40	.40	.40	.40	.40	.40	.38
		PDI-812-3	≤2.0 & > 0' in. wc	gm	3/8/16	Wed.	.40	.40	.40	.40	.40	.40	.40	.39
		PDI-812-4	≤2.0 & > 0' in. wc	gm	3/7/16	Mon.	.32	.32	.32	.32	.32	.32	.32	.32
		PDI-812-5	≤2.0 & > 0' in. wc	gm	3/7/16	Mon.	.43	.45	.45	.45	.45	.45	.45	.45
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	gm	3/7/16	Mon.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0' in. wc	gm	3/8/16	Tue.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0' in. wc	gm	3/8/16	Wed.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0' in. wc	gm	3/7/16	Mon.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0' in. wc	gm	3/7/16	Mon.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	gm	3/7/16	Mon.	.03	.03	.03	.03	.03	.03	.03	.02
		PDI-865-2	≤2.0 & > 0' in. wc	gm	3/8/16	Tue.	.31	.30	.30	.30	.30	.30	.30	.30
		PDI-865-3	≤2.0 & > 0' in. wc	gm	3/8/16	Wed.	.38	.36	.32	.35	.35	.35	.35	.35
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	gm	3/7/16	Mon.	.06	.06	.06	.06	.06	.06	.06	.07
		PDI-863-2	≤2.0 & > 0' in. wc	gm	3/7/16	Mon.	.28	.28	.28	.29	.28	.29	.29	.29

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS								
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0' in. wc	3/2/16	3/8/16	3/9/16	3/10/16	3/11/2016	3/12/16	3/13/16		
		PDI-857-2	≤ 2.0 & > 0' in. wc									
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0' in. wc									
		PDI-856-2	≤ 2.0 & > 0' in. wc									
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)									
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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									
Completion time												
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: *[Signature]* Date: 3/17/16 Time: 0832 Reviewed by: *[Signature]* Date: 3/15/16 Time: 0620  
 On-duty Supervisor

Comments:

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.:	042252	PF-10 Thermistor File No.:
	Calibration Expiration Date:	6/13/16	Calibration Expiration Date:
	PF-11 Thermometer File No.:	039746	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/13/16	Calibration Expiration Date:
		103765	V-701 Thermistor File No.:
		6/24/16	Calibration Expiration Date:
		040376	V-704 Thermistor File No.:
		6/24/16	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature															
SR	Description	Acceptance Criteria	Date:							Completion Time:					
			3/7/2016	3/8/2016	3/9/2016	3/10/2016	3/11/2016	3/12/16	Sat.	Sun.	(SAT) UNSAT	(SAT) UNSAT			
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	49.8	49.9	50.0	50.4	50.3	50.2	49.6	49.7	52.7	63.0	64.3	0856	0855
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	49.8	49.9	50.0	50.4	50.3	50.2	49.6	49.7	52.7	63.0	64.3	0856	0855
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	49.8	49.9	50.0	50.4	50.3	50.2	49.6	49.7	52.7	63.0	64.3	0856	0855
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	49.8	49.9	50.0	50.4	50.3	50.2	49.6	49.7	52.7	63.0	64.3	0856	0855
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	49.8	49.9	50.0	50.4	50.3	50.2	49.6	49.7	52.7	63.0	64.3	0856	0855
			OC Operator Review and Page Count Complete (initials)												

Temperatures should be recorded using Reference Thermometer FLUKE Model 1824 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent)

Completed by: [Signature] Date: 3/13/16 Time: 0855

Reviewed by: [Signature] Date: 3/15/16 Time: 0620

On-duty Supervisor

Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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Note	Date:	14/Jan/16		15/Jan/16		3/16/16		3/17/16		03/18/16		3/19/16		3/20/16		
		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.								
Weekday:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Shift:		u		u		u		u		u		u		u		
Initials:		u		u		u		u		u		u		u		
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	<b>SRs</b> Description Gauge Acceptance Criteria (in. wc)	PDI-814-1 or PDI-814-2	<-1.0 in. wc'	-1.99	-2.00	-1.98	-2.00	-1.99	-2.00	-1.99	-2.00	-1.99	-2.01	-1.99	-2.01	
		PDI-820-1 or PDI-820-2	<-1.0 in. wc'	-1.93	-1.94	-1.93	-1.94	-1.93	-1.92	-1.93	-1.92	-1.93	-1.92	-1.91	-1.93	-1.93
	PDI-870-1 or PDI-870-2	<-1.0 in. wc'	-1.98	-1.99	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.97
	PDI-864-1 or PDI-864-2	<-1.0 in. wc'	-1.98	-1.97	-1.99	-1.99	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.97
	PDI-803-1 or PDI-803-2	<-0.05 in. wc'	-2.21	-2.21	-2.21	-2.20	-2.20	-2.20	-2.21	-2.20	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21
	PDI-802-1 or PDI-802-2	<-0.05 in. wc'	-2.24	-2.25	-2.25	-2.22	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.21	-2.23	-2.23	-2.21
	PDI-853-1 or PDI-853-2	<-0.05 in. wc'	-2.19	-2.20	-2.20	-2.20	-2.17	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.20
	PDI-852-1 or PDI-852-2	<-0.05 in. wc'	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20
	IFTT Facility ΔP	≤-0.05 in. wc	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
	North basement ΔP	< 0.00 in. wc	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
	South basement ΔP	< 0.00 in. wc	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
	IRT Tunnel ΔP	< 0.00 in. wc	-1.91	-1.93	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91	-1.91

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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Note	Date:	14 Mar 14		15 Mar 14		3/16/14		3/17/14		03 18 14		3/19/14		
		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
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.	Weekday:													
	Shift:													
	Initials:	u		u		u		u		u		u		
<b>SRs</b>	<b>Acceptance Criteria</b>	<b>SURVEILLANCE RESULTS</b>												
	<b>Readings</b>	<b>Sat. / Unsat. (circle one)</b>												
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	(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 AP >.050 or FR-804 Icon red and PDT-835 AP >.050	(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 AP >.050 or FR-806 Icon red and PDT-837 AP >.050	(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 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat
	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat	(Sat)	Unsat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
					Sat. / Unsat. (circle one)							
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
<p><b>Note</b> 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.</p>					Date: 3/14/16	3/16/16	3/17/16	03/18/16	3/19/16	3/20/16		
Weekday:					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
Shift:					AM	PM	AM	PM	AM	PM	AM	PM
Initials:					u	u	u	u	u	u	u	
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-803-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-802-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
	PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	PDI-852-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
	PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
Completion Time					0725	0915	1922	0720	1928	0715	1920	

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

Completed by: Rene Date: 3/24/16 Time: 1920 Reviewed by: [Signature] Date: 3/24/16 Time: 1200  
 Op-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Date:	3/14/2016	3/15/16	3/16/16	3/17/16	3-18-16	03/19/16	03/20/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Initials:	BF	ga	gm	gm	PT	mm	ms
SURVEILLANCE RESULTS (percentage)									
	Acceptance Criteria								
	Flammable Gas Channel Check		0.0						
	DET-305-3 (LCD Reading)		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
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:		0745	0810	0755	0800	0726	0733	0654

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

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TA55-S1P-004, R17

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
				Weekday:	Initials:												
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤2.0 & > 0' in. wc	3/14/2016	EF	3/15/16	AM	3/16/16	AM	3/17/16	AM	3/18/16	AM	3/19/16	AM	3/20/16	AM
		PDI-894-2	≤2.0 & > 0' in. wc			.05	.49	.05	.49	.05	.49	.05	.49	.06	.50	.06	.50
		'PDI-895-1	≤2.0 & > 0' in. wc			.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06
		PDI-895-2	≤2.0 & > 0' in. wc			.62	.61	.57	.57	.57	.57	.61	.61	.61	.61	.61	.61
		'PDI-817-1	≤2.0 & > 0' in. wc			.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-2	≤2.0 & > 0' in. wc			.40	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	
		PDI-817-4	≤2.0 & > 0' in. wc			.33	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	
		PDI-817-5	≤2.0 & > 0' in. wc			.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-819-1	≤2.0 & > 0' in. wc			.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	
		PDI-819-3	≤2.0 & > 0' in. wc			.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-4	≤2.0 & > 0' in. wc			.45	.46	.46	.46	.46	.46	.46	.46	.46	.46		
		'PDI-818-1	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-818-2	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-818-4	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-818-5	≤2.0 & > 0' in. wc			STBY	STBY	STBY	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' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-821-3	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-821-4	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0' in. wc	3/14/16	0F	1.17	1.17	1.17	1.17	1.17	1.17	1.17	3/20/16
		PDI-822-2	≤2.0 & > 0' in. wc			.61	.61	.61	.61	.61	.61	.61	
		PDI-822-4	≤2.0 & > 0' in. wc			.51	.51	.51	.51	.51	.51	.51	
		PDI-822-5	≤2.0 & > 0' in. wc			.55	.55	.56	.56	.56	.56	.56	
		'PDI-823-1	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-4	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-5	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		'PDI-830-1	≤2.0 & > 0' in. wc			.69	.67	.67	.67	.67	.69	.67	
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc			.25	.24	.24	.24	.24	.22	.22	
		PDI-830-3	≤2.0 & > 0' in. wc			.28	.26	.26	.26	.26	.28	.29	
		'PDI-836-1	≤2.0 & > 0' in. wc			.07	.07	.07	.07	.07	.07	.07	
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-836-2	≤2.0 & > 0' in. wc			.69	.69	.69	.69	.69	.69	.69	
		PDI-836-3	≤2.0 & > 0' in. wc			.58	.56	.56	.56	.56	.56	.56	
		'PDI-837-1	≤2.0 & > 0' in. wc			.51	.51	.52	.52	.52	.51	.51	
4.1.1.7	300 area re-circulation filter plenum (IIVP-806) AP	PDI-837-2	≤2.0 & > 0' in. wc			.37	.36	.36	.36	.36	.36	.36	
		PDI-837-3	≤2.0 & > 0' in. wc			.42	.41	.41	.41	.41	.41	.41	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	3/14/2016	BF	3/15/16	3/16/16	3/17/16	3/18-16	3/19/16	3/20/16
		PDI-838-2	≤2.0 & > 0' in. wc								
		PDI-838-3	≤2.0 & > 0' in. wc								
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc								
		PDI-839-2	≤2.0 & > 0' in. wc								
		PDI-839-3	≤2.0 & > 0' in. wc								
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc								
		PDI-810-2	≤2.0 & > 0' in. wc								
		PDI-810-3	≤2.0 & > 0' in. wc								
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc								
		PDI-811-2	≤2.0 & > 0' in. wc								
		PDI-811-3	≤2.0 & > 0' in. wc								
OC Operator Review and Page Count Complete (Initials)				0808	ARB	0850	0832	0820	0741	0845	0845

'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: *3/21/16* Time: *17:50*  
 Reviewed by: *[Signature]* Date: *3/21/16* Time: *17:50*  
 On-duty Supervisor: *[Signature]*

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

TA55-S.P-004, R17

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)											
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
				Weekday:	Initials:										
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	3/14/16	STBY	3/15/16	STBY	3/16/16	STBY	3/17/16	STBY	3/18/16	STBY	03/19/16	STBY
		PDI-840-2	≤2.0 & > 0' in. wc		STBY		STBY		STBY		STBY		STBY		STBY
		PDI-840-3	≤2.0 & > 0' in. wc		STBY		STBY		STBY		STBY		STBY		STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc		.46	.46	.47	.47	.47	.47	.47	.47	.47	.47	.47
		PDI-841-2	≤2.0 & > 0' in. wc		.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57
		PDI-841-3	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
		'PDI-831-1	≤2.0 & > 0' in. wc		.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc		.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48
		PDI-831-3	≤2.0 & > 0' in. wc		.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc		.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	
	PDI-832-2	≤2.0 & > 0' in. wc		.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc		.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc		.11	.11	OFF	.12	.12	.12	.12	.12	.12	.12	
		PDI-807-2	≤2.0 & > 0' in. wc		.49	.49	OFF	.49	.49	.49	.49	.49	.49	.49	
		PDI-807-3	≤2.0 & > 0' in. wc		.48	.48	OFF	.48	.48	.48	.48	.48	.48	.48	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc		OFF	OFF	.07	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0' in. wc		OFF	OFF	.51	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc		OFF	OFF	.46	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday:	3/14/16 Mon.	3/15/16 Tue.	3/16/16 Wed.	3/17/16 Thu.	3/18/16 Fri.	3/19/16 Sat.	3/20/16 Sun.	
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤ 2.0 & > 0' in. wc		.16	.13	.15	.15	.15	.15	.06	.15
		PDI-829-2	≤ 2.0 & > 0' in. wc	.35	.32	.35	.36	.35	.35	.19	.35	
		PDI-829-3	≤ 2.0 & > 0' in. wc	.30	.29	.29	.30	.30	.18	.30		
4.1.1.7	100 area re-circulation filter plenum (IIVP-803) AP	PDI-833-1	≤ 2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.48	.48	.48	
		PDI-833-3	≤ 2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.39	.39	.39	
		PDI-835-1	≤ 2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17	.17	
		PDI-835-2	≤ 2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42	.42	
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	≤ 2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39
		PDI-815-1	≤ 2.0 & > 0' in. wc	.20	.20	.20	.20	.20	.20	.20	.20	
		PDI-815-2	≤ 2.0 & > 0' in. wc	.44	.49	.49	.49	.49	.49	.49	.49	
		PDI-815-4	≤ 2.0 & > 0' in. wc	.43	.43	.43	.43	.43	.43	.43	.43	
		PDI-815-5	≤ 2.0 & > 0' in. wc	.46	.46	.45	.45	.45	.45	.45	.45	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	'PDI-812-1	≤2.0 & > 0' in. wc	gm	3/14/16	3/15/16	3/16/16	3/17/16	3/18/16	3/19/16	3/20/16	
		PDI-812-2	≤2.0 & > 0' in. wc									
		PDI-812-3	≤2.0 & > 0' in. wc									
		PDI-812-4	≤2.0 & > 0' in. wc									
		PDI-812-5	≤2.0 & > 0' in. wc									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-1	≤2.0 & > 0' in. wc									
		PDI-813-2	≤2.0 & > 0' in. wc									
		PDI-813-3	≤2.0 & > 0' in. wc									
		PDI-813-4	≤2.0 & > 0' in. wc									
		PDI-813-5	≤2.0 & > 0' in. wc									
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	'PDI-865-1	≤2.0 & > 0' in. wc									
		PDI-865-2	≤2.0 & > 0' in. wc									
		PDI-865-3	≤2.0 & > 0' in. wc									
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	'PDI-863-1	≤2.0 & > 0' in. wc									
		PDI-863-2	≤2.0 & > 0' in. wc									

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS													
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.					
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	< 2.0 & > 0' in. wc	APR	3/14/16	Mon.	3/15/16	Tue.	3/16/16	Wed.	3/17/16	Thu.	3/18/16	Fri.	3/19/16	Sat.	3/20/16	Sun.
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc	APR														
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	APR														
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-2	≤ 2.0 & > 0' in. wc	APR														
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)															
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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															
Completion time																		
OC Operator Review and Page Count Complete (initials)																		
i Non TSR requirement																		
Note: SR 4.1.3.4 applies during mode 1 and mode 2.																		

Completed by: Michael M. Ish Date: 3/21/16 Time: 0916

Reviewed by: [Signature] Date: 3/21/16 Time: 12:00

On-duty Supervisor

Comments:

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**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 042252	PF-10 Thermistor File No.: 103765	V-701 Thermistor File No.: 103761
	Calibration Expiration Date: 6-13-16	Calibration Expiration Date: 6-24-16	Calibration Expiration Date: 6-24-16
Record September through April only	PF-11 Thermometer File No.: 039746	PF-11 Thermistor File No.: 040376	V-704 Thermistor File No.: 103763
	Calibration Expiration Date: 6-13-16	Calibration Expiration Date: 6-24-16	Calibration Expiration Date: 6-24-16

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)							SAT	UNSAT
			Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	3/14/16	3/15/16	3/16/16	3/17/16	3/18/16	3/19/16	3-19-16	3-20-16	
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	49.6	49.5	48.8	50.3	50.1	49.4	49.8		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	49.6	49.8	49.3	49.3	49.8	49.3	48.8		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	63.7	63.3	63.2	63.2	63.0	58.8	60.2		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	56.9	65.9	62.4	61.2	58.4	61.5	57.1		
	Completion Time:		0933	0841	0835	0910	0917	1050	1055		
	OC Operator Review and Page Count Complete (initials)		AS	DH	JF	AS	AT	AS	AS		

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

Completed by: AS CS Date 3-20-16 Time 1055  
 Reviewed by: [Signature] Date 3/21/16 Time 1200  
 On-duty Supervisor  
 Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

Note	Date:	3-21-16		3-22-16		3-23-16		3-24-16		3-25-16		3-26-16		3-27-16		
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
SRs	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-814-1 or PDI-814-2	-2.00	-1.99	2.00	-1.99	-2.01	-2.00	-2.01	-1.98	-2.01	-1.98	-1.99	-1.99	-2.00	
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-820-1 or PDI-820-2	-1.93	-1.93	-1.93	-1.91	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-870-1 or PDI-870-2	-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	≤-1.0 in. wc' PDI-864-1 or PDI-864-2	-1.98	-1.97	-1.97	-1.96	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header ΔP	≤-0.05 in. wc' PDI-803-1 or PDI-803-2	-2.20	-2.22	-2.21	-2.21	-2.20	-2.20	-2.21	-2.20	-2.21	-2.21	-2.21	-2.21		
	100 area laboratory header ΔP	≤-0.05 in. wc' PDI-802-1 or PDI-802-2	-2.23	-2.25	-2.24	-2.24	-2.24	-2.24	-2.23	-2.24	-2.23	-2.23	-2.23			
	300 area laboratory header ΔP	≤-0.05 in. wc' PDI-853-1 or PDI-853-2	-2.19	-2.20	-2.20	-2.17	-2.20	-2.20	-2.20	-2.20	-2.20	-2.19	-2.20			
	400 area laboratory header ΔP	≤-0.05 in. wc' PDI-852-1 or PDI-852-2	-2.19	-2.20	-2.20	-2.16	-2.20	-2.20	-2.20	-2.20	-2.21	-2.20	-2.21			
4.1.1.3 4.1.2.3 <sup>2</sup>	IFIT Facility ΔP	≤-0.05 in. wc PDI-865-4 or PDI-865-5	-2.19	-2.19	-2.19	-2.21	-2.26	-2.26	-2.25	-2.21	-2.19	-2.19	-2.19			
	North basement ΔP	<0.00 in. wc PDI-804-1 or PDI-804-2	-2.09	-2.10	-2.10	-2.05	-2.10	-2.10	-2.10	-2.10	-2.11	-2.09	-2.10			
	South basement ΔP	<0.00 in. wc PDI-854-1 or PDI-854-2	-2.10	-2.11	-2.11	-2.06	-2.10	-2.10	-2.10	-2.10	-2.12	-2.10	-2.10			
	IRT Tunnel ΔP	<0.00 in. wc PDI-901 or PDI-901	-2.118	-2.110	-2.110	-2.110	-2.117	-2.114	-2.114	-2.114	-2.122	-2.119	-2.121			



**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

Note	Date:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
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.	03-21-16														
	Weekday:														
	Shift:	AM PM		AM PM		AM PM		AM PM		AM PM		AM PM		AM PM	
	Initials:	[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]	
<b>SRs</b>	<b>Description</b>	<b>SURVEILLANCE RESULTS</b>													
	<b>Readings</b>	<b>Sat. / Unsat. (circle one)</b>													
4.1.1.6	200 area re-circulation fan/plenum	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)
	100 area re-circulation fan/plenum	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)
	300 area re-circulation fan/plenum	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)
	400 area re-circulation fan/plenum	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)
	Vault re-circulation fan/plenum	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)
	Acceptance Criteria	At least one fan/plenum is in service													
	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)
	FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)
	FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)
	FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)
	FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)	(Sat)

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRS	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
					Sat./ Unsat. (circle one)							
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	03/21/16	3/22/16	3/23/16	3/24/16	03/25/16	03/26/16	03/27/16	
			PDI-803-2		AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2		AM	PM	AM	PM	AM	PM	AM	PM
			PDI-820-2		AM	PM	AM	PM	AM	PM	AM	PM
			PDI-802-2		AM	PM	AM	PM	AM	PM	AM	PM
PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM				
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	0725	0718	0730	0730	0720	0723	0717	
			PDI-853-2		AM	PM	AM	PM	AM	PM	AM	PM
			PDI-854-2		AM	PM	AM	PM	AM	PM	AM	PM
			PDI-864-2		AM	PM	AM	PM	AM	PM	AM	PM
			PDI-852-2		AM	PM	AM	PM	AM	PM	AM	PM
PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM				
Completion Time					0725	0718	0730	0730	0720	0723	0717	

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

Completed by: [Signature] Date: 03/27/16 Time: 1917 Reviewed by: [Signature] Date: 3/28/16 Time: 0700

On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	3-22-16	3-23-16	3-24-16	3-25-16	3-26-16	3-27-16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
		Initials:	JM	PT	DM	PT	AS	JM	
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	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	
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value $\geq -0.1$ ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	
		Completion Time:	0749	0759	0805	0815	0843	0905	
								0870	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				3-21-16	3-22-16	3-23-16	3-24-16	3-25-16	3-26-16	3-27-16	
				Initials:	PT	PT	DA	PT	AS	AM	JL
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤2.0 & >0' in. wc	.06	.06	.06	.06	.06	.06	.06	.05
		PDI-894-2	≤2.0 & >0' in. wc	.48	.49	.49	.49	.49	.48	.48	.49
4.1.3.4	South Corridor supply (HVP-810) ΔP	'PDI-895-1	≤2.0 & >0' in. wc	.07	.07	.07	.07	.07	.07	.07	.06
		PDI-895-2	≤2.0 & >0' in. wc	.61	.61	.61	.61	.62	.62	.61	.61
		'PDI-817-1	≤2.0 & >0' in. wc	.29	.29	.29	.29	.29	.29	.29	.29
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-2	≤2.0 & >0' in. wc	.31	.31	.31	.31	.31	.31	.31	.30
		PDI-817-4	≤2.0 & >0' in. wc	.32	.32	.32	.32	.32	.32	.32	.32
		PDI-817-5	≤2.0 & >0' in. wc	.30	.30	.31	.31	.31	.31	.31	.31
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & >0' in. wc	.41	.41	.41	.41	.41	.41	.41	.40
		PDI-819-3	≤2.0 & >0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤2.0 & >0' in. wc	.33	.33	.35	.35	.38	.36	.35	.35
		'PDI-818-1	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-1	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-3	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	3-21-16	PT	PT	3/23/16	PT	3-24-16	AD	3/26/16	3/27/16	
		PDI-822-2	≤2.0 & > 0' in. wc	1.17	1.17	1.20	1.18	1.17	1.18	1.17	1.18	1.17	
		PDI-822-4	≤2.0 & > 0' in. wc	1.20	.60	.60	.60	.60	.60	.60	.60	.60	.60
		PDI-822-5	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-823-1	≤2.0 & > 0' in. wc	.53	.53	.55	.55	.55	.55	.55	.55	.55	.55
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-830-1	≤2.0 & > 0' in. wc	.69	.69	.65	.68	.69	.68	.69	.68	.68	
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc	.22	.22	.22	.22	.22	.22	.22	.22	.22	
		PDI-830-3	≤2.0 & > 0' in. wc	.27	.27	.27	.27	.27	.27	.27	.27	.27	
		PDI-836-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07	.07	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0' in. wc	.69	.68	.68	.68	.68	.68	.68	.68	.68	
		PDI-836-3	≤2.0 & > 0' in. wc	.56	.56	.56	.56	.56	.56	.56	.56	.56	
		PDI-837-1	≤2.0 & > 0' in. wc	.52	.51	.52	.52	.52	.52	.52	.52	.52	
		PDI-837-2	≤2.0 & > 0' in. wc	.35	.35	.35	.35	.35	.35	.35	.35	.35	
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-3	≤2.0 & > 0' in. wc	.40	.41	.41	.41	.41	.41	.41	.41	.40	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				3-21-16	3-22-16	3-23-16	3-24-16	3-25-16	3-26-16	3-27-16
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT	PT	DA	PT	AS	fu	Jan
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	.51	.50	.50	.50	.50	.50	.50
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc	.51	.51	.51	.52	.52	.51	.52
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc	.58	.58	.58	.58	.58	.58	.57
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc	.44	.44	.44	.44	.44	.44	.44
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc	.55	.55	.55	.55	.55	.55	.55
		PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc	.60	.60	.60	.60	.60	.60	.60
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc	.14	.14	.21	.15	.15	.14	.15
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc	.46	.45	.50	.49	.48	.46	.48
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.49	.43	.46	.42	.46
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			Completion Time	0806	0840	0838	0911	0943	0855	0900
OC Operator Review and Page Count Complete (initials)										

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

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

Completed by: Date: 3/27/16 Time: 0910  
 Reviewed by: Date: 3/28/16 Time: 0700  
 On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:							
				gm	3/21/16	3-22-16	3/23/16	3-24-16	3-25-16	3/26/16	3/27/16	
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
						PT	DH	PT	AS			
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-840-2	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-840-3	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc		.47	.47	.47	.47	.46	.46	.46	
		PDI-841-2	≤2.0 & > 0' in. wc		.57	.59	.58	.59	.58	.58	.58	
		PDI-841-3	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51	
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc		.33	.33	.33	.33	.33	.33	.33	
		PDI-831-2	≤2.0 & > 0' in. wc		.48	.48	.48	.49	.49	.49	.49	
		PDI-831-3	≤2.0 & > 0' in. wc		.40	.40	.40	.40	.40	.40	.40	
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc		.34	.34	.34	.34	.34	.34	.34		
	PDI-832-2	≤2.0 & > 0' in. wc		.68	.68	.68	.69	.68	.69	.69		
	PDI-832-3	≤2.0 & > 0' in. wc		.61	.61	.61	.61	.61	.61	.61		
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc		.11	.11	.12	.12	.11	.11	.11	
		PDI-807-2	≤2.0 & > 0' in. wc		.49	.50	.50	.50	.50	.49	.49	
		PDI-807-3	≤2.0 & > 0' in. wc		.48	.49	.49	.49	.49	.48	.48	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc		off	off	off	off	off	off	off	
		PDI-809-2	≤2.0 & > 0' in. wc		off	off	off	off	off	off	off	
		PDI-809-3	≤2.0 & > 0' in. wc		off	off	off	off	off	off	off	

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:	SURVEILLANCE RESULTS (in. wc)								
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:									
			Initials:										
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0 <sup>1</sup> in. wc	3/21/16	3/22/16	3/23/16	3/24/16	3/25/16	3/26/16	3/27/16			
		PDI-829-2	≤2.0 & > 0 <sup>1</sup> in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
		PDI-829-3	≤2.0 & > 0 <sup>1</sup> in. wc										
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤2.0 & > 0 <sup>1</sup> in. wc	PM	PT	DH	PT	AD					
		PDI-833-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-833-3	≤2.0 & > 0 <sup>1</sup> in. wc										
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-835-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-835-3	≤2.0 & > 0 <sup>1</sup> in. wc										
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-815-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-815-4	≤2.0 & > 0 <sup>1</sup> in. wc										
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-816-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-816-4	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-816-5	≤2.0 & > 0 <sup>1</sup> in. wc										



**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	'PDI-812-1	≤2.0 & > 0' in. wc	gm	3/22/16	PT	3/22-16	3/23/16	3/24-16	3/25-16	3/26/16	3/27/16
		PDI-812-2	≤2.0 & > 0' in. wc									
		PDI-812-3	≤2.0 & > 0' in. wc									
		PDI-812-4	≤2.0 & > 0' in. wc									
		PDI-812-5	≤2.0 & > 0' in. wc									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-1	≤2.0 & > 0' in. wc									
		PDI-813-2	≤2.0 & > 0' in. wc									
		PDI-813-3	≤2.0 & > 0' in. wc									
		PDI-813-4	≤2.0 & > 0' in. wc									
		PDI-813-5	≤2.0 & > 0' in. wc									
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	'PDI-865-1	≤2.0 & > 0' in. wc									
		PDI-865-2	≤2.0 & > 0' in. wc									
		PDI-865-3	≤2.0 & > 0' in. wc									
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	'PDI-863-1	≤2.0 & > 0' in. wc									
		PDI-863-2	≤2.0 & > 0' in. wc									

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	gr	PT	DA	PT	AS	gr	gr	gr
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								
'NA	Combustible exclusion area around basement exhaust fans FER28, FER29 and bleed-off fans FER20A, FER20B, FER20C, FER22A, FER22B, FER22C	'PDI-856-1	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-856-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)								
			0 lb/ft <sup>3</sup> 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								
				OC Operator Review and Page Count Complete (initials)							
				Completion time							
				0801 0840 0905 1045 0920 0910 0846							

<sup>1</sup> Non TSR requirement

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

Completed by: Swan, Date 3/24/16 Time 0816 Reviewed by: [Signature]

Comments: IFET Fan supply is OFF

Date: 3/23/16 Time: 0750

On-duty Supervisor

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.:	PF-10 Thermistor File No.:	V-701 Thermistor File No.:
	Calibration Expiration Date:	Calibration Expiration Date:	Calibration Expiration Date:
	PF-11 Thermometer File No.:	PF-11 Thermistor File No.:	V-704 Thermistor File No.:
	Calibration Expiration Date:	Calibration Expiration Date:	Calibration Expiration Date:

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)							SAT	UNSAT
			Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	3-21-16	3-22-16	3-23-16	3-24-16	3-25-16	03-26-16	03-27-16		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	JF	JL	JL	DH	DH	DH	EC	EC	EC
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F									
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F									
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F									
Completion Time:			0931	0915	0840	0838	0849	0828	0941		
OC Operator Review and Page Count Complete (initials)			[Signatures]								

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: 03-27-16 Time: 0941  
 Reviewed by: [Signature] Date: 3/28/16 Time: 0700  
 On-duty Supervisor  
 Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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Note	Date:	3/28/16		3/29/16		3/30/16		3/31/16		Sun.		
		Weekday:		Tue.		Wed.		Thu.			Sat.	
		AM	PM	AM	PM	AM	PM	AM	PM		AM	PM
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.		U	D	U	D	U	D	U	D			
<b>SRs</b>	<b>Description</b>	<b>SURVEILLANCE RESULTS (in. wc)</b>										
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc'	-2.01	-2.00	-1.99	-2.00	-1.99	-2.01	-1.98		
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc'	-1.93	-1.92	-1.94	-1.91	-1.92	-1.92	-1.92		
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc'	-1.98	-1.98	-1.98	-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'	-1.97	-1.98	-1.98	-1.98	-1.97	-1.97	-1.98		
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc'	-2.21	-2.21	-2.22	-2.21	-2.21	-2.21	-2.22		
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc'	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24		
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc'	-1.19	-1.20	-1.20	-1.20	-1.20	-1.19	-1.20		
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc'	-1.20	-1.20	-1.20	-1.20	-1.20	-1.19	-1.20		
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility ΔP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	-2.20	-2.22	-2.22	-2.22	-2.21	-2.21	-2.21		
	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-1.10	-1.10	-1.10	-1.10	-1.10	-1.09	-1.10		
	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-1.10	-1.10	-1.10	-1.10	-1.10	-1.09	-1.10		
	IRT Tunnel ΔP	PDI-901 or PDI-901	< 0.00 in. wc	-1.134	-1.130	-1.14	-1.130	-1.130	-1.12	-1.134		

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)																
				3/22/16	3/23/16	3/24/16	3/25/16	3/26/16	3/27/16	3/28/16	3/29/16	3/30/16	3/31/16	Thu.		Fri.		Sat.		Sun.
Note				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.									
Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDI's may be used if FCS is unavailable.				Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Initials:				Shift:	u	u	u	u	u	u	u	u	u	u	u	u	u	u	u	u
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	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 AP >.050 or FR-804 Icon red and PDT-835 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	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 AP >.050 or FR-806 Icon red and PDT-837 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	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 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	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 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS														
					Sat. / Unsat. (circle one)														
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	3/24/16	3/24/16	3/24/16	3/24/16	3/24/16	3/24/16	3/24/16	3/24/16	3/24/16	3/24/16	3/24/16	3/24/16	3/24/16		
			PDI-803-2	PDI-803-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
			PDI-804-2	PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
			PDI-802-2	PDI-802-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	0720	0724	0725	0724	0731	0730	0724	0724	0731	0730	0724	0724	0731	0730	
			PDI-853-2	PDI-853-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
			PDI-854-2	PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
			PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	0720	0724	0725	0724	0731	0730	0724	0724	0731	0730	0724	0724	0731	0730	
			PDI-852-2	PDI-852-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
			PDI-854-2	PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
			Completion Time	Completion Time	0720	0724	0725	0724	0731	0730	0724	0724	0731	0730	0724	0724	0731	0730	

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

Completed by: AT Date 3-31-16 Time 1930 Reviewed by: [Signature] Date: 3/31/16 Time: 0720  
 On-duty Supervisor

Comments: \_\_\_\_\_

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Date:	3-28-16	3-29-16	3-30-16	3-31-16			
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AS	RS	KS	AD			
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)							
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	00.0	00.0	00.0	00.0		
	CP-305-H (LED Reading)		0.00	0.00	0.00	0.0	0.0		
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value $\geq -0.1$ ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0		
Completion Time:			0825	0935	0940	0910			

Surveillance Rounds

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

(Page 2 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	3-28-16	3-29-16	3-30-16	3-31-16				
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
				Initials:	AD	AS	AD	AS				
4.1.3.4	South basement supply filter plenum (IIVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	.07	.06	.05	.06	.06				
		PDI-894-2	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49				
4.1.3.4	South Corridor supply (IIVP-810) AP	PDI-895-1	≤2.0 & > 0' in. wc	.08	.08	.06	.06	.06				
		PDI-895-2	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61				
		PDI-817-1	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.29				
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31				
		PDI-817-4	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31				
		PDI-817-5	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31				
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41				
		PDI-819-3	≤2.0 & > 0' in. wc	.42	.41	.41	.41	.41				
		PDI-819-4	≤2.0 & > 0' in. wc	.35	.35	.36	.36	.36				
		PDI-818-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY				
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY				
		PDI-818-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY				
		PDI-818-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY				
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY				
		PDI-821-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY				
		PDI-821-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY				



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
				Date:	3-28-16	3-29-16	3-30-16	3-31-16									
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.							
			Initials:	AS	AS	AS	AS	AS									
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0 <sup>1</sup> in. wc	1.17 AS	1.17	1.17	1.17	1.17									
		PDI-822-2	≤2.0 & > 0 <sup>1</sup> in. wc	.60	.60	.60	.60										
		PDI-822-4	≤2.0 & > 0 <sup>1</sup> in. wc	.51	.51	.51	.51										
		PDI-822-5	≤2.0 & > 0 <sup>1</sup> in. wc	.55	.55	.55	.55										
		'PDI-823-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY									
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY									
		PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY									
		PDI-823-5	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY									
		'PDI-830-1	≤2.0 & > 0 <sup>1</sup> in. wc	.69	.69	.68	.68										
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0 <sup>1</sup> in. wc	.21	.22	.23	.22										
		PDI-830-3	≤2.0 & > 0 <sup>1</sup> in. wc	.27	.27	.28	.28										
		'PDI-836-1	≤2.0 & > 0 <sup>1</sup> in. wc	.06	.07	.07	.07										
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0 <sup>1</sup> in. wc	.68	.68	.67	.68										
		PDI-836-3	≤2.0 & > 0 <sup>1</sup> in. wc	.55	.55	.54	.53										
		'PDI-837-1	≤2.0 & > 0 <sup>1</sup> in. wc	.51	.51	.51	.51										
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0 <sup>1</sup> in. wc	.36	.35	.36	.35										
		PDI-837-3	≤2.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41										

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & >0' in. wc	3-28-16	AS	AS	AS	AS	AS			
		PDI-838-2	≤2.0 & >0' in. wc		.51	.51	.51	.51	.51			
		PDI-838-3	≤2.0 & >0' in. wc		.58	.58	.55	.58	.58			
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & >0' in. wc		.44	.44	.43	.45	.45			
		PDI-839-2	≤2.0 & >0' in. wc		.55	.55	.56	.55	.55			
		PDI-839-3	≤2.0 & >0' in. wc		.60	.60	.60	.60	.60			
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & >0' in. wc		.14	.14	.14	.14	.14			
		PDI-810-2	≤2.0 & >0' in. wc		.46	.48	.45	.49	.49			
		PDI-810-3	≤2.0 & >0' in. wc		.45	.46	.44	.45	.45			
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & >0' in. wc		OFF	OFF	OFF	OFF	OFF			
		PDI-811-2	≤2.0 & >0' in. wc		OFF	OFF	OFF	OFF	OFF			
		PDI-811-3	≤2.0 & >0' in. wc		OFF	OFF	OFF	OFF	OFF			
				Completion Time		1011	1001	0941	1004			
OC Operator Review and Page Count Complete (initials)					WZ	WAB	WAD	WAD	WAD			

'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: *Mr. [Signature]* Date: 3/21/16 Time: 10:24 Reviewed by: *[Signature]* Date: 3/21/16 Time: 0820

On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
				3-28-16	AS	AS	AS	AS	AS				
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY				
		PDI-840-2	≤2.0 & > 0 in' wc	STBY	STBY	STBY	STBY	STBY	STBY				
		PDI-840-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY				
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	.47	.47	.46	.46	.47	.47				
		PDI-841-2	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.58				
		PDI-841-3	≤2.0 & > 0' in. wc	.52	.51	.51	.51	.51	.51				
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33				
		PDI-831-2	≤2.0 & > 0' in. wc	.49	.49	.48	.48	.49	.49				
		PDI-831-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40				
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	.34	.34	.34	.34	.34	.34					
	PDI-832-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68					
	PDI-832-3	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61					
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	.12	.12	.12	.12	.12	.12				
		PDI-807-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50				
		PDI-807-3	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49				
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF				
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF				
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF				

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	3-28-16	3-29-16	3-30-16	3-31-16				
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	AS	AS	AS	AS	AS				
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0 <sup>1</sup> in. wc	.16	.16	.16	.16	.16				
		PDI-829-2	≤2.0 & > 0 <sup>1</sup> in. wc	.35	.31	.38	.38					
		PDI-829-3	≤2.0 & > 0 <sup>1</sup> in. wc	.30	.28	.30	.30					
		PDI-833-1	≤2.0 & > 0 <sup>1</sup> in. wc	.35	.07	.07	.07					
		PDI-833-2	≤2.0 & > 0 <sup>1</sup> in. wc	.49	.49	.49	.49					
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0 <sup>1</sup> in. wc	.40	.40	.40	.40					
		PDI-835-1	≤2.0 & > 0 <sup>1</sup> in. wc	.17	.17	.17	.17					
		PDI-835-2	≤2.0 & > 0 <sup>1</sup> in. wc	.45	.45	.42	.42					
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-3	≤2.0 & > 0 <sup>1</sup> in. wc	.39	.39	.39	.39					
		PDI-815-1	≤2.0 & > 0 <sup>1</sup> in. wc	.21	.21	.21	.21					
		PDI-815-2	≤2.0 & > 0 <sup>1</sup> in. wc	.50	.50	.50	.50					
		PDI-815-4	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.45	.45	.45					
		PDI-815-5	≤2.0 & > 0 <sup>1</sup> in. wc	.45	.45	.48	.45					
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-816-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY					
		PDI-816-2	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY					
		PDI-816-4	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY					
		PDI-816-5	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY					

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

TA55-S.P-004, R17

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	3-28-16	AD	AD	AS	AD				
		PDI-812-2	≤2.0 & > 0' in. wc		STBY	.17	.16	.16	.16			
		PDI-812-3	≤2.0 & > 0' in. wc		STBY	.40	.40	.40	.40			
		PDI-812-4	≤2.0 & > 0' in. wc		STBY	.39	.32	.31	.31			
		PDI-812-5	≤2.0 & > 0' in. wc		STBY	.45	.45	.45	.41			
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc		1.0	STBY	STBY	STBY	STBY			
		PDI-813-2	≤2.0 & > 0' in. wc		.32	STBY	STBY	STBY	STBY			
		PDI-813-3	≤2.0 & > 0' in. wc		.30	STBY	STBY	STBY	STBY			
		PDI-813-4	≤2.0 & > 0' in. wc		.39	STBY	STBY	STBY	STBY			
		PDI-813-5	≤2.0 & > 0' in. wc		.50	STBY	STBY	STBY	STBY			
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc		.02	.01	.01	.01	.01			
		PDI-865-2	≤2.0 & > 0' in. wc		.30	.30	.29	.31	.31			
		PDI-865-3	≤2.0 & > 0' in. wc		.31	.32	.32	.32	.32			
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc		.08	.08	.08	.07	.07			
		PDI-863-2	≤2.0 & > 0' in. wc		.29	.29	.28	.28	.28			

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS														
				Date:	3-28-16	3-29-16	3-30-16	3-31-16										
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.								
			Initials:	AD	AS	AS	AS											
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	'PDI-857-1	≤2.0 & >0' in. wc	.15	.15	.12	.12	.12										
		PDI-857-2	≤2.0 & >0' in. wc	.41	.41	.42	.41	.41										
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	'PDI-856-1	≤2.0 & >0' in. wc	.06	.06	.07	.06	.06										
		PDI-856-2	≤2.0 & >0' in. wc	.51	.51	.51	.51	.51										
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> 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/ft <sup>3</sup> 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				0939	1002	0941	1005	1005										
OC Operator Review and Page Count Complete (initials)				V. J. C.	J. A. R.	J. A. R.	J. A. R.	J. A. R.										

Non TSR requirement

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

Completed by: *[Signature]* Date: 3/31/16 Time 10:35

Reviewed by: *[Signature]* Date: 4/5/16 Time: 0820

On-duty Supervisor

Comments:

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**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 042252	PF-10 Thermistor File No.: 103765	V-701 Thermistor File No.: 103761
	Calibration Expiration Date: 6-13-16	Calibration Expiration Date: 6-24-16	Calibration Expiration Date: 6-24-16
	PF-11 Thermometer File No.: 034746	PF-11 Thermistor File No.: 040376	V-704 Thermistor File No.: 103763
	Calibration Expiration Date: 6-13-16	Calibration Expiration Date: 6-24-16	Calibration Expiration Date: 6-24-16

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criteria	Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
	Daily (September through April only)		3-28-16								
					JF				JF		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.									
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	50.9		51.6		50.9		49.6		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	47.4		48.1		48.0		47.5		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	63.5		64.1		61.9		60.4		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	58.1		62.5		61.1		63.2		
	OC Operator Review and Page Count Complete (initials)	Completion Time:	0911		0845		0900		0903		
					UAP		UAP		UAP		

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

Completed by: Jeff Frank Date 3-31-16 Time 1150  
 Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 On-duty Supervisor \_\_\_\_\_  
 Comments: \_\_\_\_\_

**ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]**  
(Page 1 of 2)

SIRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1435	3/9/2014	BF
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).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1436	3/9/2014	BF
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).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1316	3/9/2014	BF
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1335	3/9/2014	BF
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).  AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds.  4.62 Seconds	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1336	3/9/2014	BF

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OF Order 420.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANL Building T455-4 (PF-4): Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANL-DOE-ORDER-420.1B-EO-2013-001



**ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]**  
(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).  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>6.28</b> Seconds	Sat / Unsat.	1345	3/9/2016	BF
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.	1410	3/9/2016	BF
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.	1357	3/9/2016	BF
OC Operator Review and Page Count Complete							C

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: B. Fordeham

Date: 3/9/2016 Time: 1440 Reviewed by: [Signature]

Date: 3/9/16 Time: 1459

On-duty Supervisor Comments:

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**ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center) [UET]**  
(Page 1 of 1)

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

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

Completed by: PRICE Date 3/1/14 Time 0100

Reviewed by: [Signature] Date 3/1/16 Time 0700  
On-duty Supervisor

Comments:

April

TA55-STP-002, R11.3

Control and Execution of TA-55 Safety System LCOs and Surveillances

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**Attachment B, Surveillance Training Checklist**

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004 R-17
Date of issue:	4-1-16
Working copy issued to:	A. ORTIZ
Working copy issued by:	A. ORTIZ
	Certified Operations Center Operator (OCO)

OC Reviews Complete and TSR Status Board Updated



15/1/16

OCO Signature

Date

**Training Checklist:**

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
R. BRISCOE	R	4-1-16
B CHANCE	B	
A DUNSEITH	A	
J LOVATO	J	
R LUM	R	
A ORTIZ	A	
R PRICE	R	
F SEYBERT	F	
J SMELTZ	J	
J MARTINEZ	J	4-1-16

Performance Type:  Scheduled  Partial *If partial, list reason in Comments below*

Comments: (Document TSR Status Board tracking date here if different from completion date.)


TA55-STP-002, R11.3

Control and Execution of TA-55 Safety System LCOs and Surveillances

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

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
P TRUSILLO	A	4-1-16
T LANGWORTHY	A	
R HOFNER	A	
M IRISH	A	
A HERRERA	A	
A SANCHEZ	A	
B FORDHAM	A	
K BAILEY	A	
D HEINSTCHEL	A	
A SAORIGUE	A	4-1-16
J FRANK	M	4/1/16

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)															
			Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Weekday:	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	≤ 1.0 in. wc <sup>1</sup>																
	100 area glovebox exhaust header AP	≤ 1.0 in. wc <sup>1</sup>																
	300 area glovebox exhaust header AP	≤ 1.0 in. wc <sup>1</sup>																
	400 area glovebox exhaust header AP	≤ 1.0 in. wc <sup>1</sup>																
	200 area laboratory header AP	≤ 0.05 in. wc <sup>1</sup>																
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	100 area laboratory header AP	≤ 0.05 in. wc <sup>1</sup>																
	300 area laboratory header AP	≤ 0.05 in. wc <sup>1</sup>																
	400 area laboratory header AP	≤ 0.05 in. wc <sup>1</sup>																
	IFT Facility AP	≤ 0.05 in. wc																
	North basement AP	< 0.00 in. wc																
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	< 0.00 in. wc																
	IRT Tunnel AP	< 0.00 in. wc																

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

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





**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Date:	4/1/16	4-2-16	4-3-16
		Weekday:	Fri.	Sat.	Sun.
		Initials:	RH	PT	PT
<b>SURVEILLANCE RESULTS (percentage)</b>					
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0
	CP-305-H (LED Reading)		0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value $\geq -0.1$ ; $\leq +0.1$	0.0	0.0	0.0
		Completion Time:	0952	0836	0755

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.3.4	South basement supply filter plenum (IIVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	4/11/14	RAH					4/11/14	PT	4-3-16	PT
4.1.3.4	South Corridor supply (IIVP-810) AP	PDI-894-2	≤2.0 & > 0' in. wc										
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-895-1	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-895-2	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-817-1	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-817-2	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-817-4	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-817-5	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-819-1	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-819-3	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-819-4	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-818-1	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-818-4	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-818-5	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	≤2.0 & > 0' in. wc										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-4	≤2.0 & > 0' in. wc										

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & >0 <sup>1</sup> in. wc	4/1/16						4/1/16	4/2-16	4/3-16	
		PDI-822-2	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-822-4	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-822-5	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-823-1	≤2.0 & >0 <sup>1</sup> in. wc										
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-823-4	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-823-5	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-830-1	≤2.0 & >0 <sup>1</sup> in. wc										
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-830-3	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-836-1	≤2.0 & >0 <sup>1</sup> in. wc										
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-836-2	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-836-3	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-837-1	≤2.0 & >0 <sup>1</sup> in. wc										
		PDI-837-2	≤2.0 & >0 <sup>1</sup> in. wc										
4.1.1.7	300 area re-circulation filter plenum (IIVP-806) AP	PDI-837-3	≤2.0 & >0 <sup>1</sup> in. wc										

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	4/1/16					4/1/16	4-2-16	4-3-16
				Mon.							
				Initials:	BA						
4.1.1.7	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc						.51	.51	.51
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc						.15	.15	.14
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc						.49	.49	.48
Completion Time											
OC Operator Review and Page Count Complete (initials)											

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Completed by: Paul Treviño Date: 4-3-16 Time: 0815 Reviewed by: [Signature] Date: 4/5/16 Time: 0820

Comments: 4.1.3.4 North Basement Supply (HVP-807) OFF for Cooling Coil Replacement (FE-829 OFF)

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

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TA55-S.V.-004, R17

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	4/11/16						4.2		4/13/16	
		PDI-840-2	≤2.0 & > 0 in'. wc										
		PDI-840-3	≤2.0 & > 0' in. wc										
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc										
		PDI-841-2	≤2.0 & > 0' in. wc										
		PDI-841-3	≤2.0 & > 0' in. wc										
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc										
		PDI-831-2	≤2.0 & > 0' in. wc										
		PDI-831-3	≤2.0 & > 0' in. wc										
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc											
	PDI-832-2	≤2.0 & > 0' in. wc											
	PDI-832-3	≤2.0 & > 0' in. wc											
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc										
		PDI-807-2	≤2.0 & > 0' in. wc										
		PDI-807-3	≤2.0 & > 0' in. wc										
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc										
		PDI-809-2	≤2.0 & > 0' in. wc										
		PDI-809-3	≤2.0 & > 0' in. wc										

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

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SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	4/1/14						4/1/14	4.2-16	4/3/16	
		PDI-829-2	≤2.0 & > 0' in. wc										
		PDI-829-3	≤2.0 & > 0' in. wc										
		PDI-833-1	≤2.0 & > 0' in. wc										
		PDI-833-2	≤2.0 & > 0' in. wc										
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc										
		PDI-835-1	≤2.0 & > 0' in. wc										
		PDI-835-2	≤2.0 & > 0' in. wc										
		PDI-835-3	≤2.0 & > 0' in. wc										
		PDI-815-1	≤2.0 & > 0' in. wc										
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc										
		PDI-815-4	≤2.0 & > 0' in. wc										
		PDI-815-5	≤2.0 & > 0' in. wc										
		PDI-816-1	≤2.0 & > 0' in. wc										
		PDI-816-2	≤2.0 & > 0' in. wc										
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc										
		PDI-816-5	≤2.0 & > 0' in. wc										

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	4/11/14						4/11/14	4-2-16	4/3/16	
		PDI-812-2	≤2.0 & > 0' in. wc										
		PDI-812-3	≤2.0 & > 0' in. wc										
		PDI-812-4	≤2.0 & > 0' in. wc										
		PDI-812-5	≤2.0 & > 0' in. wc										
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc										
		PDI-813-2	≤2.0 & > 0' in. wc										
		PDI-813-3	≤2.0 & > 0' in. wc										
		PDI-813-4	≤2.0 & > 0' in. wc										
		PDI-813-5	≤2.0 & > 0' in. wc										
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc										
		PDI-865-2	≤2.0 & > 0' in. wc										
		PDI-865-3	≤2.0 & > 0' in. wc										
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc										
		PDI-863-2	≤2.0 & > 0' in. wc										

Surveillance Rounds

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

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	4/13/16					4/14/16		4/2-16	4/3/16
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc							OFF	OFF	
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤ 2.0 & > 0' in. wc							.07	.07	.07
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0' in. wc							.55	.55	.52
			0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)							SAT	SAT	SAT
			0 lb/ft <sup>3</sup> 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
OC Operator Review and Page Count Complete (initials)										1001	8939	0810

**1 Non TSR requirement**  
 Note: SR 4.1.3.4 applies during mode 1 and mode 2.  
 Completed by: PLC Date: 4/13/16 Time: 0710 Reviewed by: [Signature] Date: 4/14/16 Time: 0820  
 Comments: 4.1.3.4, 4.1.3.4 North Basement Supply OFF for Cooling Coil Replacement (PDI-857-1,2)



**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 042252	PF-10 Thermistor File No.: 103765	V-701 Thermistor File No.: 103761
	Calibration Expiration Date: 6-13-16	Calibration Expiration Date: 6-24-16	Calibration Expiration Date: 6-24-16
	PF-11 Thermometer File No.: 035796	PF-11 Thermistor File No.: 040376	V-704 Thermistor File No.: 103763
	Calibration Expiration Date: 6-13-16	Calibration Expiration Date: 6-24-16	Calibration Expiration Date: 6-24-16

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature												
SR	Description	Acceptance Criteria	Date:							Initials:	Completion Time:	OC Operator Review and Page Count Complete (initials)
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.										
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F								49.8	50.5	50.4°
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F								47.1	48.7	49.1°
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F								62.8	61.6	63.2°
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F								63.9	66.6	67.1°
										0906	0955	0970 0910
										JF	W	RD
										4-1-16	4-2-16	4-3-16

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: 4/3/16 Time: 0910

Reviewed by: [Signature] Date: 4/5/16 Time: 0820

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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Note Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	Date:	4/4/16		4/5/16		4/6/16		4/7/16		4/8/16		4/9/16		4/10/16	
		Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
SRs	Description	<b>SURVEILLANCE RESULTS (in. wc)</b>													
		Gauge	Acceptance	Criteria											
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	1.99	1.99	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99
	100 area glovebox exhaust header ΔP	1.92	1.92	1.90	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
	300 area glovebox exhaust header ΔP	1.96	1.96	1.96	1.98	1.99	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.99
	400 area glovebox exhaust header ΔP	1.97	1.97	1.96	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header ΔP	0.21	0.22	0.22	0.22	0.20	0.22	0.21	0.23	0.21	0.22	0.21	0.22	0.21	0.22
	100 area laboratory header ΔP	0.23	0.25	0.24	0.25	0.23	0.25	0.23	0.26	0.24	0.24	0.25	0.24	0.25	
	300 area laboratory header ΔP	0.19	0.20	0.19	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.19	0.20
	400 area laboratory header ΔP	0.20	0.20	0.20	0.18	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility ΔP	0.24	0.24	0.20	0.36	0.26	0.25	0.21	0.25	0.21	0.21	0.24	0.24	0.24	
	North basement ΔP	0.10	0.10	0.10	0.10	0.09	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.10	
	South basement ΔP	0.10	0.10	0.10	0.11	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
	IRT Tunnel ΔP	0.10	0.11	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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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 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	At least one fan/plenum is in service	Date: 4/1/16	Mon.	PM	4/5/16	Tue.	PM	4/6/16	Wed.	PM	4/7/16	Thu.	PM	4/8/16	Fri.	PM	4/9/16	Sat.	PM	4/10/16	Sun.					
				Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
				Shift:																								
				Initials:																								
4.1.1.6	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050	At least one fan/plenum is in service																									
4.1.1.6	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050	At least one fan/plenum is in service																									
4.1.1.6	400 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	At least one fan/plenum is in service																									
4.1.1.6	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service																									

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS																
					Sat. / Unsat. (circle one)																
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
			PDI-803-2	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-820-2	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-802-2	PDI-852-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			Completion Time																		

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

Completed by: [Signature] Date: 4/10/16 Time: 1919 Reviewed by: [Signature] Date: 4/13/16 Time: 0630  
 On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	4-4-16	4/5/16	4/6/16	4/7/16	4/8/2016	4/9/16	4/10/2016
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	KD	JM	JM	JM	BF	[Signature]	JAV
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge 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)		00.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value $\geq -0.1$ ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Completion Time:	0859	0830	0815	0810	0747	0650	0828

Surveillance Rounds

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	4-4-16	4/5/16	4/6/16	4/7/16	4-8-16	4/9/16		
		PDI-894-2	≤2.0 & > 0' in. wc								
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc	AS	gm	gm	gm	pk			
		PDI-895-2	≤2.0 & > 0' in. wc								
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc								
		PDI-817-2	≤2.0 & > 0' in. wc								
		PDI-817-4	≤2.0 & > 0' in. wc								
		PDI-817-5	≤2.0 & > 0' in. wc								
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & > 0' in. wc								
		PDI-819-3	≤2.0 & > 0' in. wc								
		PDI-819-4	≤2.0 & > 0' in. wc								
		PDI-818-1	≤2.0 & > 0' in. wc								
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤2.0 & > 0' in. wc								
		PDI-818-4	≤2.0 & > 0' in. wc								
		PDI-818-5	≤2.0 & > 0' in. wc								
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc								
		PDI-821-3	≤2.0 & > 0' in. wc								
		PDI-821-4	≤2.0 & > 0' in. wc								

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday:	4-4-16 Mon.	4/5/16 Tue.	4/6/16 Wed.	4/7/16 Thu.	4-8-16 Fri.	4/9/16 Sat.	4/10/16 Sun.
				AD	AM	AM	AM	AM	AD		
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	1.19	1.18	1.18	1.18	1.18	1.20	1.20	1.20
		PDI-822-2	≤2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.60	.60	.60
		PDI-822-4	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.52	.52
		PDI-822-5	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.55	.55	.55	.55
		PDI-823-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤2.0 & > 0' in. wc	.69	.63	.68	.68	.68	.70	.68	.76
		PDI-830-2	≤2.0 & > 0' in. wc	.21	.21	.22	.22	.22	.22	.22	.22
		PDI-830-3	≤2.0 & > 0' in. wc	.25	.26	.26	.26	.26	.26	.27	.27
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.06	.06	.06
		PDI-836-2	≤2.0 & > 0' in. wc	.68	.68	.68	.67	.67	.68	.68	.68
		PDI-836-3	≤2.0 & > 0' in. wc	.55	.55	.55	.54	.54	.54	.53	.53
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-1	≤2.0 & > 0' in. wc	.52	.51	.51	.51	.51	.52	.52	.52
		PDI-837-2	≤2.0 & > 0' in. wc	.36	.36	.36	.36	.36	.36	.36	.36
		PDI-837-3	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)															
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	4-4-16	Mon.	KS	4/5/16	Tue.	4/6/16	Wed.	4/7/16	Thu.	4/8/16	Fri.	4/9/16	Sat.	4/10/16	Sun.	
		PDI-838-2	≤2.0 & > 0' in. wc				.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-838-3	≤2.0 & > 0' in. wc				.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc				.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	
		PDI-839-2	≤2.0 & > 0' in. wc				.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	
		PDI-839-3	≤2.0 & > 0' in. wc				.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc				.14	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14	
		PDI-810-2	≤2.0 & > 0' in. wc				.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	
		PDI-810-3	≤2.0 & > 0' in. wc				.42	.44	.44	.44	.44	.43	.43	.43	.43	.43	.43	.43	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc				OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-811-2	≤2.0 & > 0' in. wc				OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-811-3	≤2.0 & > 0' in. wc				OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
OC Operator Review and Page Count Complete (initials)				0935			0913		0845		0838		0825		0813				

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

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

Completed by: M. [Signature] Date: 4/13/16 Time: 0630

Reviewed by: [Signature] Date: 4/13/16 Time: 0630

Comments



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

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	4/4/16	4/5/16	4/6/16	4/7/16	4/8/2016	4/9/2016		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
			Initials:	RS	AM	AM	AM	AM	AF	MD		
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	.16	.16		
		PDI-840-2	≤2.0 & > 0 in' wc	STBY	STBY	STBY	STBY	STBY	.59	.59		
		PDI-840-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	.50	.50		
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	.47	.47	.47	.47	.47	STBY	STBY	STBY	
		PDI-841-2	≤2.0 & > 0' in. wc	.59	.59	.59	.59	.59	STBY	STBY	STBY	
		PDI-841-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	STBY	STBY	STBY	
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33	.33	.33	
		PDI-831-2	≤2.0 & > 0' in. wc	.49	.48	.48	.48	.48	.48	.48	.48	
		PDI-831-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.39	.39	
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	.34	.34	.34	.34	.34	.34	.34	.34		
	PDI-832-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	.68		
	PDI-832-3	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.62	.62		
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	.11	.11	.11	.11	.11	.12	.12		
		PDI-807-2	≤2.0 & > 0' in. wc	.50	.49	.49	.49	.49	.50	.50	.50	
		PDI-807-3	≤2.0 & > 0' in. wc	.49	.48	.48	.48	.48	.49	.48	.48	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																				
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.											
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	4-4-16	Mon.	AS	4/5/16	Tue.	AS	4/6/16	Wed.	AS	4/7/16	Thu.	AS	4/8/2016	Fri.	AS	4/9/2016	Sat.	AS	4/10/16	Sun.	AS
		PDI-829-2	≤2.0 & > 0' in. wc				.16	.35	.30	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	.50
		PDI-829-3	≤2.0 & > 0' in. wc				.30	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	.50
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤2.0 & > 0' in. wc				.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.50	.45	.46	.45	
		PDI-833-2	≤2.0 & > 0' in. wc				.50	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
		PDI-833-3	≤2.0 & > 0' in. wc				.40	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-1	≤2.0 & > 0' in. wc				.17	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.50	.45	.46	.45	
		PDI-835-2	≤2.0 & > 0' in. wc				.42	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
		PDI-835-3	≤2.0 & > 0' in. wc				.40	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-1	≤2.0 & > 0' in. wc				.21	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.50	.45	.46	.45	
		PDI-815-2	≤2.0 & > 0' in. wc				.49	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
		PDI-815-4	≤2.0 & > 0' in. wc				.45	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤2.0 & > 0' in. wc				.45	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
		PDI-816-2	≤2.0 & > 0' in. wc				.45	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
		PDI-816-4	≤2.0 & > 0' in. wc				.45	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-5	≤2.0 & > 0' in. wc				.45	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
		PDI-816-1	≤2.0 & > 0' in. wc				.45	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	
		PDI-816-2	≤2.0 & > 0' in. wc				.45	.44	.45	.07	.49	.40	.17	.42	.39	.20	.49	.45	.46	.50	.45	.46	.45	

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

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	200 area glovebox exhaust filter plenum (FF-850) ΔP	PDI-812-1	≤2.0 & > 0 <sup>1</sup> in. wc	4-4-16	4/5/16	4/6/16	4/7/16	4/8/2016	4/9/2016	4/10/16
		PDI-812-2	≤2.0 & > 0 <sup>1</sup> in. wc	AD	AD	AD	AD	AD	AD	AD
		PDI-812-3	≤2.0 & > 0 <sup>1</sup> in. wc							
		PDI-812-4	≤2.0 & > 0 <sup>1</sup> in. wc							
		PDI-812-5	≤2.0 & > 0 <sup>1</sup> in. wc							
4.1.3.4	200 area glovebox exhaust filter plenum (FF-851) ΔP	PDI-813-1	≤2.0 & > 0 <sup>1</sup> in. wc	.13	.13	.13	.13	.13	.13	.12
		PDI-813-2	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.32
		PDI-813-3	≤2.0 & > 0 <sup>1</sup> in. wc	.25	.26	.26	.26	.26	.26	.28
		PDI-813-4	≤2.0 & > 0 <sup>1</sup> in. wc	.39	.37	.37	.37	.37	.37	.38
		PDI-813-5	≤2.0 & > 0 <sup>1</sup> in. wc	.50	.49	.49	.49	.49	.49	.50
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 <sup>1</sup> in. wc	.01	.02	.03	.03	.03	.02	.01
		PDI-865-2	≤2.0 & > 0 <sup>1</sup> in. wc	.30	.29	.30	.30	.30	.30	.30
		PDI-865-3	≤2.0 & > 0 <sup>1</sup> in. wc	.32	.32	.34	.34	.34	.34	.33
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0 <sup>1</sup> in. wc	.09	.09	.08	.08	.08	.09	.08
		PDI-863-2	≤2.0 & > 0 <sup>1</sup> in. wc	.29	.28	.28	.28	.28	.28	.29

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

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Dates	Weekday:	Initials:	Completion time	OC Operator Review and Page Count Complete (initials)	' Non TSR requirement	
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	4-4-16	Mon.	AS	0936	[Signature]	4/10/16	Time 0830
		PDI-857-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	4/5/16	Tue	JW	0840	[Signature]	4/11/16	Time 0830
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	4/6/16	Wed	JM	0835	[Signature]	4/12/16	Time 0830
		PDI-856-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	4/7/16	Thu	JM	0830	[Signature]	4/13/16	Time 0630
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>2</sup> combustibles in designated exclusion area (within 15 feet of fans)	4/8/16	Fri.	BF	SAT	[Signature]	4/14/16	Time 0830
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>2</sup> 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	4/10/16	Sat.	[Signature]	SAT	[Signature]	4/16/16	Time 0830

Completed by: [Signature] Date: 4/10/16 Time 0830

Reviewed by: [Signature] Date: 4/13/16 Time 0630

On-duty Supervisor: [Signature]

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 042252	PF-10 Thermistor File No.: 103765	V-701 Thermistor File No.: 103761
	Calibration Expiration Date: 6-13-16	Calibration Expiration Date: 6-24-16	Calibration Expiration Date: 6-24-16
	PF-11 Thermometer File No.: 039741	PF-11 Thermistor File No.: 040376	V-704 Thermistor File No.: 103763
	Calibration Expiration Date: 6-13-16	Calibration Expiration Date: 6-24-16	Calibration Expiration Date: 6-24-16

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)							SAT	UNSAT			
			Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.			Sun.		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.												
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	4-4-16	4-5-16	4-6-16	4-7-16	4-8-16	4-9-16	4-10-16					
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	JF	JF	JF	JF	JF	JF	JF					
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F												
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F												
	Completion Time:		0906	0909	0930	0932	0908	0910	0930					
	OC Operator Review and Page Count Complete (initials)		[Handwritten initials and signatures]											

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: 4/10/16 Time: 0930  
 Reviewed by: [Signature] Date: 4/13/16 Time: 0630  
 On-duty Supervisor  
 Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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Note	Date:	4-11-16		4-12-16		4-13-16		4-14-16		4-15-16		4-16-16		4-17-16	
		Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SRs</b>	<b>Description</b>	<b>SURVEILLANCE RESULTS (in. wc)</b>													
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	1.99	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99
	100 area glovebox exhaust header AP	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
	300 area glovebox exhaust header AP	1.99	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97
	400 area glovebox exhaust header AP	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	2.22	2.22	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21
	100 area laboratory header AP	2.23	2.23	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21
	300 area laboratory header AP	2.19	2.19	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	400 area laboratory header AP	2.20	2.20	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21
4.1.1.3 4.1.2.3 <sup>2</sup>	IFT Facility AP	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	North basement AP	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
	South basement AP	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
	IRT Tunnel AP	2.23	2.23	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS							
				Sat. / Unsat. (circle one)							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	At least one fan/plenum is in service	4-11-16	4-12-16	4-13-16	4-14-16	4-15-16	4-16-16	4-17-16	
		FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050	At least one fan/plenum is in service	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050	At least one fan/plenum is in service	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
		FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	At least one fan/plenum is in service	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
	400 area re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
		Vault re-circulation fan/plenum	At least one fan/plenum is in service	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRS	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
					Sat. / Unsat. (circle one)						
					Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	Sun.
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	4-11-16	4-12-16	4-13-16	4-14-16	4-15-16	4-16-16	4-17-16
			PDI-803-2								
			PDI-804-2								
			PDI-820-2	PDI-820-2 < PDI-804-2							
			PDI-804-2								
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2									
	PDI-853-2										
	PDI-854-2										
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2									
	PDI-852-2										
Completion Time					01:00	01:30	01:30	01:30	01:30	01:30	

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

Completed by: Zulu Date: 4/17/16 Time: 1921 Reviewed by: BBQ Date: 4/18/16 Time: 1050  
 On-duty Supervisor

Comments:



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	4/11/16	4/12/16	4/13/2016	4/14/16	4/15/16	4/16/16	4/17/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	SM	SM	DF	SM	SM	SM	SM
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge	NA							
	Flammable Gas Channel Check DET-305-3 (LCD Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading) (DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Record Calculated Value							
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
		Completion Time:	0810	0820	0808	0806	0805	0720	0720

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	4/11/16	4/12/16	4/13/2016	4/14/16	4/15/16	4/16/16	4/17/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	GM	GM	BF	GM	GM	GM	GM	GM
4.1.3.4	South basement supply filter plenum (IIVP-841) AP	'PDI-894-1	≤2.0 & > 0' in. wc	.06	.06	.06	.06	.06	.06	.06	.06	.06
		PDI-894-2	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	.49	.48
		'PDI-895-1	≤2.0 & > 0' in. wc	.07	.06	.06	.06	.06	.06	.06	.06	.06
		PDI-895-2	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.61
		'PDI-817-1	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.29	.29	.29	.29	.29
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-817-4	≤2.0 & > 0' in. wc	.32	.32	.32	.32	.32	.32	.32	.32	.32
		PDI-817-5	≤2.0 & > 0' in. wc	.30	.30	.31	.31	.31	.31	.31	.31	.30
		PDI-819-1	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-819-3	≤2.0 & > 0' in. wc	.41	.42	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-4	≤2.0 & > 0' in. wc	.36	.36	.38	.36	.36	.37	.37	.37	.37
		'PDI-818-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
				STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	4/11/16	4/12/16	4/13/16	4/14/16	4/15/16	4/16/16	4/17/16	
		PDI-822-2	≤2.0 & > 0' in. wc	1.18	1.18	1.19	1.19	1.19	1.19	1.19	
		PDI-822-4	≤2.0 & > 0' in. wc	.60	.60	.61	.60	.60	.60	.60	
		PDI-822-5	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	
		PDI-823-1	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.55	.55	.55	
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-830-1	≤2.0 & > 0' in. wc	.68	.68	.69	.68	.68	.68	.68	
		PDI-830-2	≤2.0 & > 0' in. wc	.22	.22	.23	.22	.22	.22	.22	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-830-3	≤2.0 & > 0' in. wc	.26	.26	.27	.26	.26	.26	.26	
		PDI-836-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	
		PDI-836-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	
		PDI-836-3	≤2.0 & > 0' in. wc	.54	.54	.53	.54	.53	.54	.54	
		PDI-837-1	≤2.0 & > 0' in. wc	.36	.52	.52	.52	.52	.52	.52	
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0' in. wc	.51	.37	.38	.37	.37	.37	.37	
		PDI-837-3	≤2.0 & > 0' in. wc	.41	.41	.42	.41	.41	.41	.41	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0' in. wc	4/11/16	Mon.	AP	.50	.50	.51	.50	.50	.50	
		PDI-838-2	≤2.0 & > 0' in. wc	4/12/16	Tue.	AP	.51	.51	.52	.51	.51	.51	
		PDI-838-3	≤2.0 & > 0' in. wc	4/13/16	Wed.	BP	.57	.57	.58	.57	.57	.57	
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc	4/14/16	Thu.	AP	.43	.43	.44	.43	.43	.43	
		PDI-839-2	≤2.0 & > 0' in. wc	4/15/16	Fri.	AP	.55	.55	.55	.55	.55	.55	
		PDI-839-3	≤2.0 & > 0' in. wc	4/16/16	Sat.	AP	.60	.61	.61	.61	.61	.61	
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc	4/17/16	Sun.	AP	.14	.14	.14	.14	.14	.14	
		PDI-810-2	≤2.0 & > 0' in. wc	4/18/16	Mon.	AP	.45	.45	.45	.45	.45	.45	
		PDI-810-3	≤2.0 & > 0' in. wc	4/19/16	Tue.	AP	.44	.44	.43	.44	.44	.44	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & > 0' in. wc	4/20/16	Wed.	AP	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-811-2	≤2.0 & > 0' in. wc	4/21/16	Thu.	AP	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-811-3	≤2.0 & > 0' in. wc	4/22/16	Fri.	AP	OFF	OFF	OFF	OFF	OFF	OFF	
OC Operator Review and Page Count Complete (initials)				4/23/16	Sat.	AP	0845	0915	0925	0842	0835	0841	0745

'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: AP Date 4/17/16 Time 0745 Reviewed by: AP Date 4/18/16 Time 1051  
 On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday:	4/11/16 Mon.	4/12/16 Tue.	4/13/2016 Wed.	4/14/16 Thu.	4/15/16 Fri.	4/16/16 Sat.	4/17/16 Sun.
			Initials:	Apr	Apr	PF	Apr	Apr	Apr	Apr	Apr
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	<2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17	.17
		PDI-840-2	<2.0 & > 0 in' wc	.58	.58	.58	.58	.58	.58	.58	.58
		PDI-840-3	<2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	<2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	<2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.48	.48	.48
		PDI-831-3	<2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	<2.0 & > 0' in. wc	.34	.34	.34	.34	.34	.34	.34	.34	
	PDI-832-2	<2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	<2.0 & > 0' in. wc	.61	.61	.62	.61	.61	.61	.61		
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	<2.0 & > 0' in. wc	.11	.11	.12	.12	.12	.12	.12	.12
		PDI-807-2	<2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	
		PDI-807-3	<2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	<2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	<2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	<2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday: Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	4/11/16 Mon. Jm	4/12/16 Tue. Jm	4/13/2016 Wed. Bf	4/14/16 Thu. Jm	4/15/16 Fri. Jm	4/16/16 Sat. Jm	4/17/16 Sun. Jm
		PDI-829-2	≤2.0 & > 0' in. wc	.15	.15	.15	.15	.14	.15	.15
		PDI-829-3	≤2.0 & > 0' in. wc	.35	.35	.30	.35	.32	.35	.35
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤2.0 & > 0' in. wc	.30	.29	.30	.30	.28	.30	.30
		PDI-833-2	≤2.0 & > 0' in. wc	.67	.67	.07	.07	.07	.07	.07
		PDI-833-3	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-1	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40
		PDI-835-2	≤2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17
		PDI-835-3	≤2.0 & > 0' in. wc	.45	.44	.45	.44	.43	.43	.43
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-1	≤2.0 & > 0' in. wc	.39	.39	.40	.40	.39	.39	.39
		PDI-815-2	≤2.0 & > 0' in. wc	.20	.21	.21	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0' in. wc	.50	.49	.50	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-5	≤2.0 & > 0' in. wc	.44	.44	.45	STBY	STBY	STBY	STBY
		PDI-816-1	≤2.0 & > 0' in. wc	.45	.45	.47	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	.51	.51	.51	.51
		PDI-816-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	.46	.46	.46	.46
		PDI-816-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	.50	.50	.50	.50



**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Date:	4/11/16	4/12/16	4/13/2016	4/14/16	4/15/16	4/16/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:	AM	AM	BF	AM	AM	AM	AM
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0' in. wc	.12	.12	.12	.12	.12	.12	.12
		PDI-857-2	≤ 2.0 & > 0' in. wc	.41	.41	.42	.42	.42	.42	.42
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0' in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-856-2	≤ 2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> 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/ft <sup>3</sup> 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				0832	0900	0900	0835	0900	0820	0810
OC Operator Review and Page Count Complete (initials)				AM	AM	AM	AM	AM	AM	AM

Non TSR requirement

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

Completed by: [Signature] Date: 4/14/16 Time: 0810 Reviewed by: [Signature] Date: 4/14/16 Time: 1051

Comments:

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**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 042252	PF-10 Thermistor File No.: 103765	V-701 Thermistor File No.: 103761
	Calibration Expiration Date: 6/13/16	Calibration Expiration Date: 6/24/16	Calibration Expiration Date: 6/24/16
Record September through April only	PF-11 Thermometer File No.: 039746	PF-11 Thermistor File No.: 040376	V-704 Thermistor File No.: 103763
	Calibration Expiration Date: 6/13/16	Calibration Expiration Date: 6/24/2016	Calibration Expiration Date: 6/24/16

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)							SAT/UNSAT	SAT/UNSAT
			Date:	Weekday:	Initials:	Tue.	Wed.	Thu.	Fri.		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	4/11/16	4-12-16	4-13-16	4-14-16	4-15-16	4-16-16	4-17-16		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	BF	JF	JF	AS	PT	W			
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F									
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F									
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F									
Completion Time:			0850	0900	0837	0846	0806	0840	0840	0840	
OC Operator Review and Page Count Complete (initials)			ARJ	ARJ	ARJ	ARJ	ARJ	ARJ	ARJ	ARJ	

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: ARJ Date: 4-17-16 Time: 1000  
 Reviewed by: ARJ Date: 4/18/16 Time: 1052  
 On-duty Supervisor

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria (in. wc)	Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Weekday:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			Shift:		Initials:													
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	≤-1.0 in. wc' PDI-814-1 or PDI-814-2	1.99	1.99	1.99	1.99	2.00	1.99	2.00	1.99	2.00	1.99	1.99	1.99	1.98	2.01	1.99	1.99
	100 area glovebox exhaust header AP	≤-1.0 in. wc' PDI-820-1 or PDI-820-2	1.92	1.92	1.92	1.91	1.93	1.93	1.92	1.93	1.92	1.93	1.91	1.91	1.92	1.94	1.92	1.92
	300 area glovebox exhaust header AP	≤-1.0 in. wc' PDI-870-1 or PDI-870-2	1.99	1.98	1.97	1.99	1.99	1.98	1.98	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.98	1.98
	400 area glovebox exhaust header AP	≤-1.0 in. wc' PDI-864-1 or PDI-864-2	1.98	1.97	1.89	1.90	1.98	1.90	1.91	1.98	1.90	1.91	1.93	1.91	1.93	1.92	1.90	1.90
	200 area laboratory header AP	≤-0.05 in. wc' PDI-803-1 or PDI-803-2	0.21	0.20	0.20	0.21	0.21	0.21	0.22	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
	100 area laboratory header AP	≤-0.05 in. wc' PDI-802-1 or PDI-802-2	0.15	0.22	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area laboratory header AP	≤-0.05 in. wc' PDI-853-1 or PDI-853-2	0.17	0.19	0.21	0.19	0.19	0.20	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.19	0.19	0.19
	400 area laboratory header AP	≤-0.05 in. wc' PDI-852-1 or PDI-852-2	0.21	0.20	0.22	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.19	0.20	0.20
	IFT Facility AP	≤-0.05 in. wc PDI-865-4 or PDI-865-5	0.19	0.19	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
4.1.1.3 4.1.2.3 <sup>2</sup>	North basement AP	< 0.00 in. wc PDI-804-1 or PDI-804-2	0.10	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	South basement AP	< 0.00 in. wc PDI-854-1 or PDI-854-2	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	IRT Tunnel AP	< 0.00 in. wc PDI-901 or PDI-901	0.19	0.15	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS						
				Sat. / Unsat. (circle one)						
4.1.1.6	Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDTs may be used if FCS is unavailable.  200 area re-circulation fan/plenum  100 area re-circulation fan/plenum  300 area re-circulation fan/plenum  400 area re-circulation fan/plenum  Vault re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050  FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050  FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050  FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050  FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service  At least one fan/plenum is in service  At least one fan/plenum is in service  At least one fan/plenum is in service  At least one fan/plenum is in service	Date: 4/15/16	4-20-16	4-21-16	4-22-16	4-23-16	4-24-16	4-25-16
				Weekday: Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Shift: AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
				Initials: [Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS									
					Sat. / Unsat. (circle one)									
					Mon	Tue	Wed	Thu	Fri	Sat	Sun			
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	4/8/16	4/9/16	4-20-16	4-21-16	4/22/16	4/23/16	4/24/16			
			PDI-803-2	PDI-803-2										
			PDI-804-2	PDI-804-2										
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2										
			PDI-802-2	PDI-802-2										
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2												
	PDI-853-2	PDI-853-2												
	PDI-854-2	PDI-854-2												
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2												
	PDI-852-2	PDI-852-2												
Completion Time					0711	1928	0730	1937	0737	1938	0746	1939	0751	1949

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

Completed by: [Signature] Date: 4/24/16 Time: 1929 Reviewed by: [Signature] Date: 4/25/16 Time: 0745  
 On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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  $(\geq -0.1; \leq 0.1)$ .

SR	Description / Gauge	Date:	4-18-16	4/19/2016	4/20/16	4/21/16	4/22/16	4/23/16	4-24-16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	EF	JM	JM	KS	JM	PT
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)							
4.4.1.1	Flammable Gas Channel Check	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	DET-305-3 (LCD Reading)		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)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(LCD Reading) (LED Reading)	$\geq -0.1;$ $\leq +0.1$	(Sat.) Unsat.	(Sat.) Unsat.	(Sat.) Unsat.	(Sat.) Unsat.	(Sat.) Unsat.	(Sat.) Unsat.	(Sat.) Unsat.
	Completion Time:	0825	0822	0750	0920	0817	0812	0749	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤2.0 & > 0' in. wc	4-18-16 PT	4-19-16 BF	4-20-16 QM	4-21-16 QM	4-22-16 AS	4-23-16 E	4-24-16 Sun.		
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-894-2	≤2.0 & > 0' in. wc	.07	.49	.48	.07	.48	.07	.07	.08	.50
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	'PDI-895-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07	.07
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-895-2	≤2.0 & > 0' in. wc	.61	.54	.58	.58	.58	.58	.58	.68	.62
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	'PDI-817-1	≤2.0 & > 0' in. wc	.29	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-817-2	≤2.0 & > 0' in. wc	.31	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-817-4	≤2.0 & > 0' in. wc	.31	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-817-5	≤2.0 & > 0' in. wc	.30	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-81 9-1	≤2.0 & > 0' in. wc	.41	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-81 9-3	≤2.0 & > 0' in. wc	.41	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-819-4	≤2.0 & > 0' in. wc	.35	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	'PDI-818-1	≤2.0 & > 0' in. wc	STBY	.25	.25	.25	.25	.25	.25	.25	.25
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤2.0 & > 0' in. wc	STBY	.31	.31	.31	.31	.31	.31	.31	.31
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-818-4	≤2.0 & > 0' in. wc	STBY	.35	.36	.36	.35	.35	.35	.35	.35
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-818-5	≤2.0 & > 0' in. wc	STBY	.38	.38	.38	.38	.38	.38	.38	.38
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	STBY	.40	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-821-3	≤2.0 & > 0' in. wc	STBY	.45	.44	.44	.44	.44	.44	.44	.44
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-821-4	≤2.0 & > 0' in. wc	STBY	.40	.39	.39	.39	.39	.39	.39	.39

X

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
				4-18-16	4-19-16	4-20-16	4-21-16	4-22-16	4-23-16	4-24-16	
				PT	BF	AM	AM	AM	AS	AS	PT
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0' in. wc	1, 2, 2	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0' in. wc	.60	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0' in. wc	.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0' in. wc	.55	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-823-1	≤2.0 & > 0' in. wc	STBY	.11	.11	.11	.11	.11	.11	.11
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	STBY	.60	.60	.60	.60	.60	.60	.60
		PDI-823-4	≤2.0 & > 0' in. wc	STBY	.61	.61	.61	.61	.61	.61	.61
		PDI-823-5	≤2.0 & > 0' in. wc	STBY	.61	.61	.61	.61	.61	.61	.61
		'PDI-830-1	≤2.0 & > 0' in. wc	.69	.69	.68	.68	.68	.68	.68	.68
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc	.22	.22	.22	.22	.22	.22	.22	.22
		PDI-830-3	≤2.0 & > 0' in. wc	.27	.28	.27	.27	.27	.28	.28	.28
		'PDI-836-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	.68
		PDI-836-3	≤2.0 & > 0' in. wc	.52	.53	.52	.52	.52	.55	.55	.55
		'PDI-837-1	≤2.0 & > 0' in. wc	.51	.52	.52	.52	.52	.52	.52	.52
		PDI-837-2	≤2.0 & > 0' in. wc	.36	.36	.37	.37	.37	.38	.38	.38
		PDI-837-3	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41

X

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	4-18-16	PT	Bf	4-19-16	4-20-16	4-21-16	4-22-16	4-23-16	4-24-16	
		PDI-838-2	≤2.0 & > 0' in. wc										
		PDI-838-3	≤2.0 & > 0' in. wc										
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc										
		PDI-839-2	≤2.0 & > 0' in. wc										
		PDI-839-3	≤2.0 & > 0' in. wc										
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc										
		PDI-810-2	≤2.0 & > 0' in. wc										
		PDI-810-3	≤2.0 & > 0' in. wc										
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc										
		PDI-811-2	≤2.0 & > 0' in. wc										
		PDI-811-3	≤2.0 & > 0' in. wc										
Completion Time				0841	0855	0819	0902	0817	0828	0740			
OC Operator Review and Page Count Complete (initials)													

'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 Truitt Date: 4-25-16 Time: 0750

Reviewed by: RB

On-duty Supervisor

Comments: SOUTH IS TREATMENT SUPPLY EXHAUSTS COS FOR COOLING WATER

\* South Basement Supply & Exhaust Back in Service 4-25-16



**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: 4-18-2016	4/19/2016	4/20/16	4/21/16	4/22/16	4/23/16	4-24-16	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	AS	BF	AM	AM	AS	AS	PT	
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	.16	.17	.17	.17	.17	.17	.17	
		PDI-840-2	≤2.0 & > 0 in' wc	.59	.59	.58	.58	.59	.58	.59	
		PDI-840-3	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc	.49	.48	.48	.48	.49	.48	.48	.48
		PDI-831-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	.35	.35	.35	.35	.35	.35	.35	.35	
	PDI-832-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	.61	.62	.61	.61	.61	.61	.61	.61	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	.60	OFF	.11	.11	.12	.12	.12	
		PDI-807-2	≤2.0 & > 0' in. wc	.50	OFF	.49	.49	.50	.50	.50	
		PDI-807-3	≤2.0 & > 0' in. wc	.41	OFF	.47	.47	.49	.49	.49	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				4-18-2016 Mon.	4-19-2016 Tue.	4-20-16 Wed.	4-21-16 Thu.	4-22-16 Fri.	4-23-16 Sat.	4-24-16 Sun.
			Initials:	AD	OF	gh	gh	KS		PT
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc	.16	.16	.16	.16	.15	.02	.16
		PDI-829-2	≤2.0 & > 0' in. wc	.38	.36	.36	.32	.36	.05	.35
		PDI-829-3	≤2.0 & > 0' in. wc	.40	.30	.29	.29	.30	.05	.30
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	'PDI-833-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49
		PDI-833-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40
	100 area re-circulation filter plenum (HVP-804) AP	'PDI-835-1	≤2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17
		PDI-835-2	≤2.0 & > 0' in. wc	.42	.45	.43	.43	.45	.44	.44
		PDI-835-3	≤2.0 & > 0' in. wc	.39	.40	.39	.39	.40	.39	.39
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	'PDI-815-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-816-1	≤2.0 & > 0' in. wc	.40	.40	.41	.41	.41	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-2	≤2.0 & > 0' in. wc	.51	.52	.52	.52	.51	.52	.51
		PDI-816-4	≤2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.47	.48
		PDI-816-5	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.49	.49

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: 4-18-2016	4-19-2016	4-20-16	4-21-16	4-22-16	4-23-16	4-24-16
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	AD	BE	GM	GM	AS		PT
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & >0' in. wc	.16	.16	.16	.16	.16	.17	
		PDI-812-2	≤2.0 & >0' in. wc	.39	.38	.38	.38	.39	.38	
		PDI-812-3	≤2.0 & >0' in. wc	.39	.38	.38	.38	.39	.39	
		PDI-812-4	≤2.0 & >0' in. wc	.31	.31	.31	.31	.31	.31	
		PDI-812-5	≤2.0 & >0' in. wc	.41	.41	.41	.41	.41	.41	
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-2	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-3	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-5	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & >0' in. wc	.01	.02	.02	.02	.01	.03	
		PDI-865-2	≤2.0 & >0' in. wc	.29	.29	.29	.29	.30	.31	
		PDI-865-3	≤2.0 & >0' in. wc	.32	.33	.32	.33	.32	.39	
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & >0' in. wc	.08	.08	.07	.07	.08	.09	
		PDI-863-2	≤2.0 & >0' in. wc	.28	.28	.28	.28	.28	.29	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Date:	4-18-2016	4-19-2016	4-20-2016	4-21-2016	4-22-2016	4-23-2016
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:	AS	BF	JA	JA	AD	AE	
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	.15	.14	.12	.13	.12	.12	.11
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.42	.42
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤ 2.0 & > 0' in. wc	.08	.08	.08	.08	.08	.08	.08
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0' in. wc	.51	.52	.51	.51	.51	.51	.51
			0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft <sup>3</sup> 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	0945	0850	0805	0825	0824	0824	0752
			OC Operator Review and Page Count Complete (initials)	AS	BF	JA	JA	AD	AE	

1 Non TSR requirement

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

Completed by: Paul Towelle Date 4/24/16 Time 0752 Reviewed by: RB Date: 4/25/16 Time: 0751

On-duty Supervisor

Comments:

**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 042252	PF-10 Thermistor File No.: 103765	V-701 Thermistor File No.: 103761
	Calibration Expiration Date: 6/13/16	Calibration Expiration Date: 6/24/16	Calibration Expiration Date: 6/24/16
Record September through April only	PF-11 Thermometer File No.: 039746	PF-11 Thermistor File No.: 040326	V-704 Thermistor File No.: 103763
	Calibration Expiration Date: 6/13/16	Calibration Expiration Date: 6/24/16	Calibration Expiration Date: 6/24/16

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)							Completion Time:	OC Operator Review and Page Count Complete (initials)										
			Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.			Fri.	Sat.	Sun.							
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	4/18/16		JK																
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	4/19/16		JK																
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	4/19/16		JK																
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	4/19/16		JK																
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	4/19/16		JK																
			4/20/16		AD																
			4/21/16		AD																
			4/22/16		JK																
			4/23/16		JK																
			4/24/16		JK																
			4/25/16		JK																
			4/26/16		JK																
			4/27/16		JK																
			4/28/16		JK																
			4/29/16		JK																
			4/30/16		JK																
			5/1/16		JK																
			5/2/16		JK																
			5/3/16		JK																
			5/4/16		JK																
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			5/28/16		JK																
			5/29/16		JK																
			5/30/16		JK																
			5/31/16		JK																

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: 04-29-16 Time: 0851  
 Reviewed by: [Signature] Date: 4/25/16 Time: 0752  
 On-duty Supervisor  
 Comments:

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

Note	Date:	4-25-16		4-26-16		04-27-16		04-28-16		4-29-16		4-30-16	
		Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
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.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Initials:	Shift:	Q		Q		PZ		PZ		Q		Q	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
SRs	Description	<b>SURVEILLANCE RESULTS</b>											
		(in. wc)											
4.1.1.1 4.1.2.1.2	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc'	-2.00	-1.98	-1.99	-2.00	-1.99	-1.99	-2.00	-2.00	-1.99	-2.00
		PDI-820-1 or PDI-820-2	≤-1.0 in. wc'	-1.91	-1.90	-1.91	-1.92	-1.92	-1.91	-1.93	-1.90	-1.92	-1.91
4.1.1.2 4.1.1.5 4.1.2.2	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc'	-1.98	-1.98	-1.99	-1.94	-1.99	-1.97	-1.99	-1.98	-1.99	-1.99
		PDI-864-1 or PDI-864-2	≤-1.0 in. wc'	-1.89	-1.89	-1.87	-1.99	-1.89	-1.88	-1.89	-1.89	-1.89	-1.88
4.1.1.3 4.1.2.3	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc'	.22	.22	.21	.22	.21	.22	.22	.20	.22	.20
		PDI-802-1 or PDI-802-2	≤-0.05 in. wc'	-2.5	-2.4	-2.5	-2.4	-2.5	-2.4	-2.5	-2.4	-2.4	-2.4
4.1.1.2 4.1.1.5 4.1.2.2	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc'	-1.9	-2.0	-2.2	-2.0	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0
		PDI-852-1 or PDI-852-2	≤-0.05 in. wc'	-2.0	-2.1	-2.2	-2.1	-2.1	-2.1	-2.1	-2.0	-2.0	-2.1
4.1.1.3 4.1.2.3	IFT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	-1.9	-1.9	-1.9	-1.9	-2.0	-2.1	-2.1	-1.9	-1.9	-2.1
		PDI-804-1 or PDI-804-2	< 0.00 in. wc	-2.0	-1.3	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
4.1.1.3 4.1.2.3	North basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-1.0	-1.3	-1.1	-1.0	-1.0	-1.1	-1.1	-1.0	-1.0	-1.0
		PDI-901 or PDI-901	< 0.00 in. wc	-1.24	-1.53	-1.30	-1.24	-1.24	-1.35	-1.17	-1.24	-1.24	-1.23

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS													
				Sat. / Unsat. (circle one)													
				Date: 4-25-16		4-26-16		4-27-16		4-28-16		4-29-16		4-30-16			
Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	AM	PM	AM	PM	AM	PM	AM	PM		
Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Initials:	A		K		PC		PC		PC		PC		PC		K		
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .050	At least one fan/plenum is in service	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 AP > .050 or FR-804 Icon red and PDT-835 AP > .050	At least one fan/plenum is in service	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 AP > .050 or FR-806 Icon red and PDT-837 AP > .050	At least one fan/plenum is in service	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 AP > .050 or FR-808 Icon red and PDT-839 AP > .050	At least one fan/plenum is in service	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 AP > .050 or FR-812 Icon red and PDT-841 AP > .050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS															
					Sat/ Unsat. (circle one)															
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
			PDI-803-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-802-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2	Completion Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. vc  
 Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3 I.2.

Completed by: PKAC Date 4/30/16 Time 1925 Reviewed by: BSB Date: 5/2/16 Time: 0735  
 On-duty Supervisor

Comments:



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	4/25/2016	4/26/16	4/27/16	4/28/16	4/29/16	5/1/2016
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
		Initials:	BF	JM	JM	JM	KS	WMS
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)					
SR 4.4.1.1	Description / Gauge Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value $\geq -0.1$ ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0
		Completion Time:	0749	0830	0825	0900	0755	0710

Surveillance Rounds

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	4/25/2016	4/26/16	4/27/16	4/28/16	4/29/16	4/30/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
				Initials:	PF	gm	gm	gm	ds		
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	.07	.06	.06	.06	.06	.06	.06	.06
		PDI-894-2	≤2.0 & > 0' in. wc	.50	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & > 0' in. wc	.09	.06	.06	.06	.06	.06	.06	.06
		PDI-895-2	≤2.0 & > 0' in. wc	.62	.62	.62	.62	.62	.62	.62	.62
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-1	≤2.0 & > 0' in. wc	.25	.25	.25	.25	.25	.25	.25	.25
		PDI-818-2	≤2.0 & > 0' in. wc	.32	.31	.31	.31	.31	.32	.31	.31
		PDI-818-4	≤2.0 & > 0' in. wc	.37	.36	.36	.36	.36	.36	.36	.36
		PDI-818-5	≤2.0 & > 0' in. wc	.38	.38	.37	.37	.37	.38	.38	.38
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-821-3	≤2.0 & > 0' in. wc	.40	.43	.43	.43	.43	.42	.42	.42
		PDI-821-4	≤2.0 & > 0' in. wc	.42	.39	.39	.39	.39	.39	.39	.39

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

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0' in. wc	4/25/16	4/26/16	4/27/16	4/28/16	4/29/16	4/30/16		
		PDI-822-2	≤2.0 & > 0' in. wc								
		PDI-822-4	≤2.0 & > 0' in. wc								
		PDI-822-5	≤2.0 & > 0' in. wc								
		'PDI-823-1	≤2.0 & > 0' in. wc								
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc								
		PDI-823-4	≤2.0 & > 0' in. wc								
		PDI-823-5	≤2.0 & > 0' in. wc								
		'PDI-830-1	≤2.0 & > 0' in. wc								
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc								
		PDI-830-3	≤2.0 & > 0' in. wc								
		'PDI-836-1	≤2.0 & > 0' in. wc								
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0' in. wc								
		PDI-836-3	≤2.0 & > 0' in. wc								
		'PDI-837-1	≤2.0 & > 0' in. wc								
		PDI-837-2	≤2.0 & > 0' in. wc								
		PDI-837-3	≤2.0 & > 0' in. wc								

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	4/25/16	4/26/16	4/27/16	4/28/16	4/29/16	4/30/16		
		PDI-838-2	≤2.0 & > 0' in. wc								
		PDI-838-3	≤2.0 & > 0' in. wc								
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc								
		PDI-839-2	≤2.0 & > 0' in. wc								
		PDI-839-3	≤2.0 & > 0' in. wc								
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc								
		PDI-810-2	≤2.0 & > 0' in. wc								
		PDI-810-3	≤2.0 & > 0' in. wc								
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc								
		PDI-811-2	≤2.0 & > 0' in. wc								
		PDI-811-3	≤2.0 & > 0' in. wc								
OC Operator Review and Page Count Complete (initials)				0845	0915	0846	1035	0835	0728		

'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 M. Jones Date: 04/30/16 Time: 0830 Reviewed by: RSB Date: 5/2/16 Time: 0737

Comments

On-duty Supervisor

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

TA55-SY-004, R17

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	4/25/16	4/26/16	4/27/16	4/28/16	4/29/16	4/30/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				BF	gm	BF	AM	AD		
			Initials:							
4.1.1.7	Vault re-circulation filter plenum (IIVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	.16	.16	.16	.16	.16	.17	.16
		PDI-840-2	≤2.0 & > 0' in. wc	.59	.59	.58	.58	.58	.58	.58
		PDI-840-3	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50
	Vault re-circulation filter plenum (IIVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (IIVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	.34	.34	.34	.34	.34	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc	.47	.47	.47	.47	.48	.48	.48
		PDI-831-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40
200 area re-circulation filter plenum (IIVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	.34	.34	.34	.34	.34	.35	.35	
	PDI-832-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	.62	.61	.61	.61	.61	.61	.61	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	.12	.12	.12	.12	.12	.12	.11
		PDI-807-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-807-3	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	OFF	off	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	off	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	off	OFF	OFF	OFF	OFF	OFF

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	BF	BM	BF	AN	AS			
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc	4/25/16	.15	.15	.15	.15	.15	.15	.16	
		PDI-829-2	≤2.0 & > 0' in. wc		.33	.34	.34	.34	.33	.33	.33	
		PDI-829-3	≤2.0 & > 0' in. wc		.29	.29	.29	.29	.30	.30	.30	
		'PDI-833-1	≤2.0 & > 0' in. wc		.07	.07	.07	.07	.07	.07	.07	
		PDI-833-2	≤2.0 & > 0' in. wc		.50	.50	.50	.50	.49	.49	.49	
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc		.40	.40	.40	.40	.40	.40	.40	
		'PDI-835-1	≤2.0 & > 0' in. wc		.17	.17	.17	.17	.17	.17	.17	
		PDI-835-2	≤2.0 & > 0' in. wc		.45	.44	.45	.44	.42	.42	.42	
		PDI-835-3	≤2.0 & > 0' in. wc		.40	.39	.39	.39	.39	.39	.39	
		'PDI-815-1	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-815-4	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-815-5	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		'PDI-816-1	≤2.0 & > 0' in. wc		.40	.40	.40	.40	.41	.41	.41	
		PDI-816-2	≤2.0 & > 0' in. wc		.52	.52	.51	.51	.52	.52	.52	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc		.46	.46	.46	.46	.46	.46	.46	
		PDI-816-5	≤2.0 & > 0' in. wc		.50	.50	.50	.50	.50	.50	.50	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:	SURVEILLANCE RESULTS (in. wc)						
					4/25/16	4/26/16	4/27/16	4/28/16	4/29/16	4/30/16	Sun.
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	BF	JP	BF	JM	AD	WZ		
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & >0 <sup>1</sup> in. wc	.16	.16	.16	.16	.16	.16	.16	.16
		PDI-812-2	≤2.0 & >0 <sup>1</sup> in. wc	.39	.38	.38	.38	.39	.38	.38	.38
		PDI-812-3	≤2.0 & >0 <sup>1</sup> in. wc	.39	.38	.38	.38	.38	.38	.38	.38
		PDI-812-4	≤2.0 & >0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-812-5	≤2.0 & >0 <sup>1</sup> in. wc	.42	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & >0 <sup>1</sup> in. wc	4/25/16 .02	.02	.02	.02	.02	.01	.02	.02
		PDI-865-2	≤2.0 & >0 <sup>1</sup> in. wc	.30	.30	.30	.30	.29	.29	.29	.29
		PDI-865-3	≤2.0 & >0 <sup>1</sup> in. wc	4/25/16 .35	.32	.32	.32	.32	.32	.32	.32
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & >0 <sup>1</sup> in. wc	.09	.09	.09	.09	.09	.09	.09	.09
		PDI-863-2	≤2.0 & >0 <sup>1</sup> in. wc	.29	.29	.29	.29	.29	.29	.29	.29

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Date:	Weekday:	Initials:	Completion time	OC Operator Review and Page Count Complete (initials)	Non TSR requirement	
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	4/25/16	Mon.	BF	0815	ATM AJ	1	
		PDI-857-2	≤ 2.0 & > 0' in. wc	4/26/16	Tue.	JW	0901	ATM AJ	1	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	4/28/16	Thu.	JM	1023	PL ARS	1	
		PDI-856-2	≤ 2.0 & > 0' in. wc	4/29/16	Fri.	AS	0835	PL ARS	1	
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	4/25/16	Mon.	SAT				
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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	4/28/16	Thu.	SAT				
				4/29/16	Fri.	SAT				
				4/30/16	Sat.	SAT				

1 Non TSR requirement

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

Completed by: Michael M. Irish Date: 4/30/16 Time: 0604 Reviewed by: RBQ Date: 5/12/16 Time: 0738

On-duty Supervisor

Comments:

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**ATTACHMENT C: Non-PF-4 Daily Surveillance Rounds [UET]**

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	042252	PF-10 Thermistor File No.:	103765	V-701 Thermistor File No.:	103761
	Calibration Expiration Date:	6-13-16	Calibration Expiration Date:	6-24-16	Calibration Expiration Date:	6-24-16
Record September through April only	PF-11 Thermometer File No.:	039746	PF-11 Thermistor File No.:	040376	V-704 Thermistor File No.:	103763
	Calibration Expiration Date:	6-13-2016	Calibration Expiration Date:	6-24-16	Calibration Expiration Date:	6-24-16

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature																
SR	Description	Acceptance Criteria	Date:	Weekday:	Initials:	Temperature (September through April only)							SAT/UNSAT			
						SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT		SAT/UNSAT		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	4/25/16	Mon.	AD	4/26/16	Tue.	4/27/16	Wed.	4/28/16	Thu.	4/29/16	Fri.	4/30/16	Sat.	Sun.
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F														
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F														
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F														
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F														
		Completion Time:	0856			0854		0858		0912		0850		0930		
	OC Operator Review and Page Count Complete (initials)															
			P	APD		AD		AM		AD		AD		AD		AD

Temperatures should be recorded using Reference Thermometer FLUKE Model 1524 connected to Thermistor P986c Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: [Signature] Date: 4/30/16 Time: 0930  
 Reviewed by: [Signature] Date: 5/2/16 Time: 0731  
 On-duty Supervisor

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]**  
(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1504	4/6/16	AS
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).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1504	4/6/16	AS
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).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1419 <del>1419</del> 4/6/16	4/6/16	AS
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1430	4/6/16	AS
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).  AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds.  4.44 Seconds	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1431	4/6/16	AS
4.1.3.2	Confinement Door DR-102	Northwest	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.	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1431	4/6/16	AS

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OE Order 420, IB Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANI Building T455-4 (PE-4): Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANI-DOF-ORDER-420, IB-EQ-2013-001



**ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center) [UET]**  
(Page 1 of 1)

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

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

Completed by: CW Date 4-1-16 Time 0515

Reviewed by: [Signature] Date 4/5/16 Time 0820  
On-duty Supervisor

Comments:

May

TA55-STP-002, R12

Control and Execution of TA-55 Safety System LCOs and Surveillances

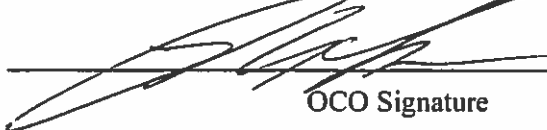
Page 20 of 29

**Attachment B, Surveillance Training Checklist**

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004 P17
Date of issue:	5/1/16
Working copy issued to:	PRICE
Working copy issued by:	PRICE
Certified Operations Center Operator (OCO)	

**OC Reviews Complete and TSR Status Board Updated**



OCO Signature

1 6/1/16

Date

**Training Checklist:**

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
P BEISCOE	u	5/1/16
B CHANCE	u	
A DUNSEITH	u	
J LOVATO	u	
R LUM	u	
A DEWIZ	u	
P PRICE	u	
F SEYBERT	u	
J SMELTZ	u	
J MARTINEZ	u	

Procedure is the current revision listed in Documentum:  Yes  Documentum Unavailable

Performance Type:  Scheduled  Partial  Other *If partial or other list reason in Comments below*

Comments: (Document TSR Status Board tracking date here if different from completion date.)


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

**Training Checklist (continuation sheet)**

Workers Performing Surveillance	Applicable Surveillance Training Current		
	Initials	Date	
F TRUJILLO	u	5/1/10	
T LANGRISHY	u	↓	
R HOHNKE	u		
M IRISH	u		
A HERBEKA	u		
A SANCHEZ	u		
B FORDHAM	u		
K BAILEY	u		
D HEINSTEHEL	u		
J FRANK	u		↓

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

(Page 1 of 2)

SRS	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	Sat/Unsat.	14:32	5-4-16	PT
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.	14:23	5-4-16	PT
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.	13:41	5-4-16	PT
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position  Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	Sat/Unsat.	13:49	5-4-16	PT
4.1.3.2	Confinement Door DR-102	Northwest	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.  4.5 _____ Seconds	Sat/Unsat.	13:53	5-4-16	PT

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to O&E Order 420, 1B Chapter 120, NEPA 80, NEPA 101 and IBC Requirements for LANL Building T455-4 (PF-4), Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANL-DOE-ORDER-420, 1B-EO-2013-001



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

(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). 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.	Sat Unsat.	1358	5-4-16	PT
			6.69 Seconds				
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.	1416	5-4-16	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.	1408	5-4-16	PT

OC Operator Review and Page Count Complete

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: Paul Tevujillo

Date 5-4-16 Time 1925

Reviewed by: Marcus Cat RA

Date: 5/4/16 Time: 1947

On-duty Supervisor Comments:

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**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**  
(Page 1 of 3)

SRS	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																
			Date:		Weekday:		Shift:		Initials:		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2																2.00	-2.00
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2																1.11	-1.11
4.1.1.1 4.1.2.1 <sup>2</sup>	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2																1.09	-1.09
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2																1.89	-1.90
4.1.1.2 4.1.1.5 4.1.2.2	200 area laboratory header AP	PDI-803-1 or PDI-803-2																1.20	-1.20
	100 area laboratory header AP	PDI-802-1 or PDI-802-2																1.21	-1.21
4.1.1.2 4.1.1.5 4.1.2.2	300 area laboratory header AP	PDI-853-1 or PDI-853-2																1.16	-1.20
	400 area laboratory header AP	PDI-852-1 or PDI-852-2																1.20	-1.20
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility AP	PDI-865-4 or PDI-865-5																1.20	-1.20
	North basement AP	PDI-804-1 or PDI-804-2																1.10	-1.10
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	PDI-854-1 or PDI-854-2																1.10	-1.10
	IRT Tunnel AP	PDT-901 or PDI-901																1.13	-1.24





**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							Sun.	
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.			
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA									0/5/6
	CP-305-H (LED Reading)	Record Calculated Value									0/0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	$\geq -0.1$ ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	0/1/3
Completion Time:											0/1/3



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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:		Weekday:					Sun.	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.			
41.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1 PDI-822-2 PDI-822-4 PDI-822-5	<2.0 &gt; 0' in. wc <2.0 &gt; 0' in. wc <2.0 &gt; 0' in. wc <2.0 &gt; 0' in. wc									SHY SHY SHY SHY
41.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-1 PDI-823-2 PDI-823-4 PDI-823-5	<2.0 &gt; 0' in. wc <2.0 &gt; 0' in. wc <2.0 &gt; 0' in. wc <2.0 &gt; 0' in. wc									SHY SHY SHY SHY
41.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1 PDI-830-2 PDI-830-3	<2.0 &gt; 0' in. wc <2.0 &gt; 0' in. wc <2.0 &gt; 0' in. wc									SHY SHY SHY
41.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-1	<2.0 &gt; 0' in. wc									SHY
		PDI-836-2	<2.0 &gt; 0' in. wc									SHY
		PDI-836-3	<2.0 &gt; 0' in. wc									SHY
		PDI-837-1	<2.0 &gt; 0' in. wc									SHY
300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	<2.0 &gt; 0' in. wc										SHY
	PDI-837-3	<2.0 &gt; 0' in. wc										SHY
												SHY



TASS-STP-004, R17

Surveillance Rounds

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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.1.7	400 area re-circulation filter plenum (IIVP-807) AP	PDI-838-1	≤ 2.0 & > 0' in. wc									57	
		PDI-838-2	≤ 2.0 & > 0' in. wc									51	
		PDI-838-3	≤ 2.0 & > 0' in. wc									58	
	400 area re-circulation filter plenum (IIVP-808) AP	PDI-839-1	≤ 2.0 & > 0' in. wc										44
		PDI-839-2	≤ 2.0 & > 0' in. wc										57
		PDI-839-3	≤ 2.0 & > 0' in. wc										60
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤ 2.0 & > 0' in. wc									45	
		PDI-810-2	≤ 2.0 & > 0' in. wc									44	
		PDI-810-3	≤ 2.0 & > 0' in. wc									45	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤ 2.0 & > 0' in. wc									47	
		PDI-811-2	≤ 2.0 & > 0' in. wc									47	
		PDI-811-3	≤ 2.0 & > 0' in. wc									47	
OC Operator Review and Page Count Complete (Initials)												07:49	
Completion Time													ASB

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: M. J. Jones Date: 6/15/16 Time: 0749

Reviewed by:

RSB

Date: 6/15

Time: 0931

On-duty Supervisor

Comments









**ATTACHMENT A: Per Shift Surveillance Rounds [UFT]**  
(Page 1 of 3)

SRS	Description	Gauge Acceptance Criteria	Date:														
			Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
			Mon.	Tue.	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
<p align="center"><b>GAUGE READINGS</b></p> <p>Note: Gauge readings should be taken on rack #4 in the OC, wherever possible. Document if alternate PDI's are used.</p>																	
4.1.1.1 4.1.2.1?	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc'	05/02/16	05/03/16	5/4/16	5/5/16	05/06/16	05/07/16	05/08/16							
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM				
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc'	-1.93	-1.91	-1.91	-1.91	-1.91	-1.92	-1.92	2.00	2.00	2.00	2.00	2.00	2.00	
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc'	-1.99	-1.98	-1.99	-1.99	-1.99	-1.99	-1.98	-1.98	1.99	1.99	1.98	1.99	1.99	1.99
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc'	-1.90	-1.90	-1.90	-2.00	-1.98	-1.97	-1.99	1.99	1.99	1.99	1.99	1.97	1.98	
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc'	0.20	0.21	0.21	0.18	-0.19	-0.20	-0.20	0.22	0.23	0.20	0.21	0.20	0.20	
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc'	0.24	0.24	0.24	0.24	0.21	0.22	0.23	0.25	0.25	0.23	0.23	0.23	0.23	
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc'	0.20	0.19	0.20	0.19	0.20	0.18	0.20	0.20	0.20	0.19	0.20	0.19	0.19	0.19	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc'	-0.21	0.20	0.21	0.20	0.21	0.20	0.20	0.21	0.21	0.20	0.21	0.19	0.20	0.20	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
IFT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	0.20	0.21	0.21	0.21	0.20	0.21	0.21	0.21	0.21	0.21	0.18	0.18	0.17		
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
North basement AP	PDI-804-1 or PDI-804-2	≤-0.00 in. wc	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
South basement AP	PDI-854-1 or PDI-854-2	≤-0.00 in. wc	0.10	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
HRT Tunnel AP	PDI-901 or PDI-901	≤-0.00 in. wc	-0.18	0.19	-0.22	-0.11	-0.11	-0.14	-0.15	-0.12	-0.12	-0.13	-0.16	-0.16	-0.16		
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			

SURVEILLANCE RESULTS  
(in. wc)

ATTACHMENT A: Per Shift Surveillance Rounds [UFT]

(Page 2 of 3)

SRS	Description	Readings	Acceptance Criteria	Date:														
				Weekday:														
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.								
4.1.1.6	200 area re-circulation fan/plenum	FIR-801 Icon red and PDI-831 AP >.050 or FIR-802 Icon red and PDI-832 AP >.050	At least one fan/plenum is in service	05-02-16	05-03-16	5/4/16	5/5/16	05-06-16	05-07-16	05-08-16	AM	PM	AM	PM	AM	PM	AM	PM
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.								
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
	100 area re-circulation fan/plenum	FIR-803 Icon red and PDI-833 AP >.050 or FIR-804 Icon red and PDI-835 AP >.050	At least one fan/plenum is in service	05-02-16	05-03-16	5/4/16	5/5/16	05-06-16	05-07-16	05-08-16	AM	PM	AM	PM	AM	PM	AM	PM
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.								
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
	300 area re-circulation fan/plenum	FIR-805 Icon red and PDI-836 AP >.050 or FIR-806 Icon red and PDI-837 AP >.050	At least one fan/plenum is in service	05-02-16	05-03-16	5/4/16	5/5/16	05-06-16	05-07-16	05-08-16	AM	PM	AM	PM	AM	PM	AM	PM
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.								
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
	400 area re-circulation fan/plenum	FIR-808 Icon red and PDI-839 AP >.050 or FIR-811 Icon red and PDI-840 AP >.050 or FIR-812 Icon red and PDI-841 AP >.050	At least one fan/plenum is in service	05-02-16	05-03-16	5/4/16	5/5/16	05-06-16	05-07-16	05-08-16	AM	PM	AM	PM	AM	PM	AM	PM
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.								
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
Vault re-circulation fan/plenum	FIR-811 Icon red and PDI-840 AP >.050 or FIR-812 Icon red and PDI-841 AP >.050	At least one fan/plenum is in service	05-02-16	05-03-16	5/4/16	5/5/16	05-06-16	05-07-16	05-08-16	AM	PM	AM	PM	AM	PM	AM	PM	
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.									
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM						

SURVEILLANCE RESULTS  
Sat. / Unsat. (circle one)

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
05-02-16							
05-03-16							
5/4/16							
5/5/16							
05-06-16							
05-07-16							
05-08-16							

SURVEILLANCE RESULTS

SRS	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS															
					Sat./Unsat. (circle one)															
4.1.1.4	Glovebox exhaust header APs < Laboratory APs < basement APs 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	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		Completion Time			0136	1926	0712	1925	0734	1922	0730	1415	0713	1929	0121	1731	0113	1926		

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.40 in. wc  
Note: <sup>2</sup> SRS 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Completed by:  Date: 5/10/16 Time: 1928  
Reviewed by:  Date: 5/16/16 Time: 0700  
On-duty Supervisor

Comments:



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)									
			Date:	Weekday:	Initials:							
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	5/2/16	Mon.	JA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			5/3/16	Tue.	JA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)		5/4/16	Wed.	JA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			5/5/2016	Thu.	KS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			5/6/16	Fri.	BR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			5/7/16	Sat.	JA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			5/8/16	Sun.	JA	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 $\geq -0.1$ ; $\leq +0.1$			Sat / Unsat.	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Completion Time:	0830	0825	0830	0841	0815	0725	0804			

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:						
				5/2/16	5/3/16	5/4/16	5/5/16	5/6/16	5/12/16	5/18/16		
				Mon	Tue	Wed	Thu	Fri	Sat	Sun		
4.1.3.4	South basement supply filter plenum (IIVP-841) AP	PDI-894-1 PDI-894-2	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	.04 .49	.04 .49	.04 .50	.04 .50	.04 .50	.04 .49	.04 .49		
4.1.3.4	South Corridor supply (IIVP-810) AP	PDI-895-1 PDI-895-2	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	.04 .60	.04 .60	.04 .55	.05 .59	.05 .59	.04 .61	.04 .59		
4.1.3.4	300 area glovebox exhaust filter plenum (FRS4) AP	PDI-817-1 PDI-817-2 PDI-817-4 PDI-817-5	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY		
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FRS8) AP	PDI-819-1 PDI-819-3 PDI-819-4	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY		
4.1.3.4	300 area glovebox exhaust filter plenum (FRS5) AP	PDI-818-1 PDI-818-2 PDI-818-4 PDI-818-5	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	.24 .31 .35 .36	.25 .31 .35 .36	.24 .31 .34 .36	.25 .31 .35 .38	.25 .32 .35 .39	.25 .32 .35 .38	.25 .31 .35 .38		
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FRS9) AP	PDI-821-1 PDI-821-3 PDI-821-4	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	.40 .44 .39	.40 .44 .39	.40 .43 .39	.40 .42 .39	.40 .45 .39	.40 .44 .39	.40 .43 .39		

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

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Weekday:	Initials:					
				5/2/16	5/3/16	5/4/16	5/5/16	5/6/16	5/9/16	5/8/16	
41.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	<2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	1.0	1.01	1.02	
		PDI-822-2	<2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	.53	.54	.54	
		PDI-822-4	<2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	.47	.47	.47	
		PDI-822-5	<2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	.50	.50	.50	
		PDI-823-1	<2.0 &gt; 0' in. wc	.12	.12	.13	.14	STBY	STBY	STBY	
		PDI-823-2	<2.0 &gt; 0' in. wc	.60	.60	.54	.55	STBY	STBY	STBY	
	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-4	<2.0 &gt; 0' in. wc	.62	.62	.58	.59	STBY	STBY	STBY	
		PDI-823-5	<2.0 &gt; 0' in. wc	.62	.62	.58	.59	STBY	STBY	STBY	
		PDI-830-1	<2.0 &gt; 0' in. wc	.68	.69	.68	.70	.70	.69	.69	
		PDI-830-2	<2.0 &gt; 0' in. wc	.22	.22	.22	.22	.22	.22	.22	
		PDI-830-3	<2.0 &gt; 0' in. wc	.26	.26	.26	.24	.27	.22	.26	
		PDI-836-1	<2.0 &gt; 0' in. wc	.07	.07	.07	.07	.07	.07	.07	
41.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-836-2	<2.0 &gt; 0' in. wc	.67	.67	.67	.68	.68	.68	.68	
		PDI-836-3	<2.0 &gt; 0' in. wc	.53	.53	.53	.55	.55	.54	.54	
		PDI-837-1	<2.0 &gt; 0' in. wc	.51	.52	.52	.53	.53	.53	.53	
	300 area re-circulation filter plenum (IIVP-806) AP	PDI-837-2	<2.0 &gt; 0' in. wc	.38	.36	.37	.36	.37	.36	.36	
		PDI-837-3	<2.0 &gt; 0' in. wc	.41	.41	.41	.41	.42	.41	.41	

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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Weekday:	Initials:	Completion Time	Value	Value	Value	Value	Value	Value
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤ 2.0 & > 0' in. wc	5/2/16	Mon.	AP	0905	.51	.51	.51	.51	.51	.51
				5/3/16	Tue.	AP	0925	.51	.51	.51	.51	.51	
		5/4/16	Wed.	AP	0900	.51	.51	.51	.51	.51			
		5/5/16	Thu.	RS	0929	.51	.51	.51	.51	.51			
		5/6/16	Fri.	BF	0905	.51	.51	.51	.51	.51			
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-2	≤ 2.0 & > 0' in. wc	5/2/16	Mon.	AP	0905	.55	.55	.55	.55	.55	.55
				5/3/16	Tue.	AP	0925	.55	.55	.55	.55	.55	
		5/4/16	Wed.	AP	0900	.54	.54	.54	.54	.54			
		5/5/16	Thu.	RS	0929	.61	.61	.61	.61	.61			
		5/6/16	Fri.	BF	0905	.55	.55	.55	.55	.55			
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤ 2.0 & > 0' in. wc	5/2/16	Mon.	AP	0905	.14	.14	.14	.14	.14	
				5/3/16	Tue.	AP	0925	.15	.15	.15	.15	.15	
		5/4/16	Wed.	AP	0900	.15	.15	.15	.15	.15			
		5/5/16	Thu.	RS	0929	.14	.14	.14	.14	.14			
		5/6/16	Fri.	BF	0905	.14	.14	.14	.14	.14			
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-810-3	≤ 2.0 & > 0' in. wc	5/2/16	Mon.	AP	0905	.45	.45	.45	.45	.45	
				5/3/16	Tue.	AP	0925	.46	.46	.46	.46	.46	
		5/4/16	Wed.	AP	0900	.45	.45	.45	.45	.45			
		5/5/16	Thu.	RS	0929	.45	.45	.45	.45	.45			
		5/6/16	Fri.	BF	0905	.45	.45	.45	.45	.45			
OC Operator Review and Page Count Complete (initials)				5/2/16	Mon.	AP	0905						
				5/3/16	Tue.	AP	0925						
				5/4/16	Wed.	AP	0900						
				5/5/16	Thu.	RS	0929						
				5/6/16	Fri.	BF	0905						

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: 5/8/16 Time: 0755 Reviewed by: *[Signature]*

On-duty Supervisor

Date: 5/12/16 Time: 0750

Comments

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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)														
				Date:	Weekday:	Initials:												
				5/2/16	5/3/16	5/4/16	5/5/16	5/6/16	5/7/16	5/8/16								
411.7	Vault re-circulation Filter plenum (HVP-811) AP	1PDI-840-1	<2.0 &gt; 0' in. wc															
		PDI-840-2	<2.0 &gt; 0 in. wc	.16	.16	.16	.17	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16
		PDI-840-3	<2.0 &gt; 0' in. wc	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58
		1PDI-841-1	<2.0 &gt; 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-841-2	<2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	<2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation Filter plenum (HVP-801) AP	1PDI-831-1	<2.0 &gt; 0' in. wc	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	<2.0 &gt; 0' in. wc	.45	.46	.46	.46	.46	.45	.46	.46	.46	.46	.46	.46	.46	.46	.46
		PDI-831-3	<2.0 &gt; 0' in. wc	.40	.40	.40	.40	.40	.39	.40	.40	.40	.40	.40	.40	.40	.40	.40
		1PDI-832-1	<2.0 &gt; 0' in. wc	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35
		PDI-832-2	<2.0 &gt; 0' in. wc	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68
		PDI-832-3	<2.0 &gt; 0' in. wc	.61	.61	.61	.62	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61
41.34	North Bleed off Filter Plenum (PF-820A) AP	1PDI-807-1	<2.0 &gt; 0' in. wc	.11	.11	.12	.12	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	
		PDI-807-2	<2.0 &gt; 0' in. wc	.49	.49	.49	.50	.49	.50	.49	.49	.49	.49	.49	.49	.49	.49	.49
		PDI-807-3	<2.0 &gt; 0' in. wc	.48	.48	.49	.49	.48	.49	.48	.48	.48	.48	.48	.48	.48	.48	.48
41.34	North Bleed off Filter Plenum (PF-820B) AP	1PDI-809-1	<2.0 &gt; 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	<2.0 &gt; 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	<2.0 &gt; 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	APN	APN	APN	AS	AS	APN	APN
41.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	.16	.16	.16	.15	.16	.16	.16	.16
		PDI-829-2	≤2.0 & > 0' in. wc	.36	.35	.36	.35	.36	.35	.35	.35
		PDI-829-3	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-833-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤2.0 & > 0' in. wc	.49	.49	.49	.50	.49	.49	.49	.49
		PDI-833-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40
	100 area re-circulation filter plenum (HVP-803) AP	PDI-835-1	≤2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17	.17
		PDI-835-2	≤2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42	.42
		PDI-835-3	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39
		PDI-815-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
41.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-1	≤2.0 & > 0' in. wc	.42	.40	.40	.40	.40	.40	.40	.40
		PDI-816-2	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-816-4	≤2.0 & > 0' in. wc	.45	.45	.46	.45	.45	.45	.45	.45
		PDI-816-5	≤2.0 & > 0' in. wc	.50	.50	.49	.50	.50	.50	.50	.50

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

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:							
4.1.3.4	200 area glovebox exhaust filter plenum (PF850) AP	PDI-812-1	≤ 2.0 &gt; 0' in. wc	5/2/16	5/3/16	5/4/16	5/5/16	5/6/16	5/7/16	5/8/16	
				.17	.17	.17	.17	.17	.17	.17	
		PDI-812-2	≤ 2.0 &gt; 0' in. wc	.38	.38	.38	.39	.39	.38	.38	
		PDI-812-3	≤ 2.0 &gt; 0' in. wc	.38	.38	.38	.38	.38	.38	.38	
		PDI-812-4	≤ 2.0 &gt; 0' in. wc	.31	.32	.32	.32	.32	.32	.32	
		PDI-812-5	≤ 2.0 &gt; 0' in. wc	.43	.43	.43	.42	.42	.43	.42	
		PDI-813-1	≤ 2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-2	≤ 2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-3	≤ 2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-4	≤ 2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	H-IT exhaust filter plenum (PF-865) AP	PDI-813-5	≤ 2.0 &gt; 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-865-1	≤ 2.0 &gt; 0' in. wc	.03	.03	.02	.02	.02	.02	.03	
		PDI-865-2	≤ 2.0 &gt; 0' in. wc	.29	.30	.29	.30	.30	.30	.30	
		PDI-865-3	≤ 2.0 &gt; 0' in. wc	.34	.33	.33	.35	.32	.33	.33	
4.1.3.4	H-IT supply filter plenum (HVP-863) AP	PDI-863-1	≤ 2.0 &gt; 0' in. wc	.06	.06	.07	.07	.07	.06	.06	
		PDI-863-2	≤ 2.0 &gt; 0' in. wc	.27	.27	.28	.29	.29	.29	.28	

TA55-STP-004, R17

Surveillance Rounds

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

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SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS																																		
				Date:	Weekday:	Initials:	Value	Acceptance	Value	Acceptance																												
4.1.3.4	North Basement supply filter plenum (11VP-840) AP	PDI-857-2	≤ 2.0 & > 0' in. wc	5/2/16	Mon.	AS	.12	Pass	5/3/16	Tue.	AS	.12	Pass	5/4/16	Wed.	AS	.12	Pass	5/5/16	Thu.	AS	.12	Pass	5/6/16	Fri.	AS	.12	Pass	5/7/16	Sat.	AS	.12	Pass	5/8/16	Sun.	AS	.12	Pass
				5/2/16	Mon.	AS	.42	Pass	5/3/16	Tue.	AS	.42	Pass	5/4/16	Wed.	AS	.42	Pass	5/5/16	Thu.	AS	.42	Pass	5/6/16	Fri.	AS	.42	Pass	5/7/16	Sat.	AS	.42	Pass	5/8/16	Sun.	AS	.42	Pass
4.1.3.4	North corridor supply filter plenum (11VP-809) AP	PDI-856-1	≤ 2.0 & > 0' in. wc	5/2/16	Mon.	AS	.04	Pass	5/3/16	Tue.	AS	.05	Pass	5/4/16	Wed.	AS	.05	Pass	5/5/16	Thu.	AS	.05	Pass	5/6/16	Fri.	AS	.05	Pass	5/7/16	Sat.	AS	.05	Pass	5/8/16	Sun.	AS	.05	Pass
				5/2/16	Mon.	AS	.51	Pass	5/3/16	Tue.	AS	.51	Pass	5/4/16	Wed.	AS	.55	Pass	5/5/16	Thu.	AS	.52	Pass	5/6/16	Fri.	AS	.51	Pass	5/7/16	Sat.	AS	.51	Pass	5/8/16	Sun.	AS	.51	Pass
N/A	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>2</sup> combustibles in designated exclusion area (within 15 feet of fans)	5/2/16	Mon.	AS		Pass	5/3/16	Tue.	AS		Pass	5/4/16	Wed.	AS		Pass	5/5/16	Thu.	AS		Pass	5/6/16	Fri.	AS		Pass	5/7/16	Sat.	AS		Pass	5/8/16	Sun.	AS		Pass
				5/2/16	Mon.	AS		Pass	5/3/16	Tue.	AS		Pass	5/4/16	Wed.	AS		Pass	5/5/16	Thu.	AS		Pass	5/6/16	Fri.	AS		Pass	5/7/16	Sat.	AS		Pass	5/8/16	Sun.	AS		Pass
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>2</sup> combustibles within 3.5 feet perpendicular from the face of the PVMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	5/2/16	Mon.	AS		Pass	5/3/16	Tue.	AS		Pass	5/4/16	Wed.	AS		Pass	5/5/16	Thu.	AS		Pass	5/6/16	Fri.	AS		Pass	5/7/16	Sat.	AS		Pass	5/8/16	Sun.	AS		Pass
OC Operator Review and Page Count Complete (Initials)				0855	AS	AS	0910	AS	AS	0852	AS	AS	0929	AS	AS	0825	AS	AS	0810	AS	AS	0810	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS

Non TSIR requirement

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

Completed by: Seime M. Date 5/8/16 Time 0810 Reviewed by: [Signature]

Comments:

On-duty Supervisor

Date: 5/12/16 Time: 0700



ATTACHMENT A: Per Shift Surveillance Rounds [UET]

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SRS	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																	
			Date:		Weekday:		Shift:		Initials:		Wed.		Thu.		Fri.		Sat.		Sun.	
			Mon.	Tue.	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤1.0 in. wc <sup>1</sup>	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤1.0 in. wc <sup>1</sup>	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤1.0 in. wc <sup>1</sup>	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤1.0 in. wc <sup>1</sup>	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤0.05 in. wc <sup>1</sup>	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤0.05 in. wc <sup>1</sup>	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤0.05 in. wc <sup>1</sup>	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤0.05 in. wc <sup>1</sup>	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	IFTT Facility AP	PDI-865-4 or PDI-865-5	≤0.05 in. wc	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	North basement AP	PDI-804-1 or PDI-804-2	<0.00 in. wc	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	PDI-854-1 or PDI-854-2	<0.00 in. wc	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	IRT Tunnel AP	PDI-901 or PDI-901	<0.00 in. wc	5/9/16	5/10/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

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SRS	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS																	
				Sat. / Unsat. (circle one)																	
				Date:	Weekday:	Shift:	Initials:	5/9/16	5/10/16	05/11/16	05/12/16	5/13/16	5/14/16	5/15/16	5/16/16	5/17/16	5/18/16				
<p>Note: Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDI's may be used if FCS is unavailable.</p>				5/9/16	Mon.	AM	APD	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
4.1.1.6	200 area re-circulation fan/plenum	FIR-801 Icon red and PDI-831 AP > .050 or FIR-802 Icon red and PDI-832 AP > .050	At least one fan/plenum is in service	5/9/16	Mon.	PM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
				5/10/16	Tue.	AM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				05/11/16	Wed.	AM	EC	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	100 area re-circulation fan/plenum	FIR-803 Icon red and PDI-833 AP > .050 or FIR-804 Icon red and PDI-835 AP > .050	At least one fan/plenum is in service	5/9/16	Mon.	PM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				5/10/16	Tue.	PM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				05/11/16	Wed.	PM	EC	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	300 area re-circulation fan/plenum	FIR-805 Icon red and PDI-836 AP > .050 or FIR-806 Icon red and PDI-837 AP > .050	At least one fan/plenum is in service	5/9/16	Mon.	AM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				5/10/16	Tue.	AM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				05/11/16	Wed.	AM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	400 area re-circulation fan/plenum	FIR-807 Icon red and PDI-838 AP > .050 or FIR-808 Icon red and PDI-839 AP > .050	At least one fan/plenum is in service	5/9/16	Mon.	PM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				5/10/16	Tue.	PM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				05/11/16	Wed.	PM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
Vault re-circulation fan/plenum	FIR-811 Icon red and PDI-840 AP > .050 or FIR-812 Icon red and PDI-841 AP > .050	At least one fan/plenum is in service	5/9/16	Mon.	AM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			5/10/16	Tue.	AM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			05/11/16	Wed.	AM	U	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

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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:	5/9/16	5/10/16	5/11/16	5/12/16	5/13/16	5/14/16	5/15/16
Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Shift:	AM	PM	AM	PM	AM	PM	AM
Initials:	ARD	U	U	U	U	U	U

SURVEILLANCE RESULTS

SRS	Description	Area	Gauge	Acceptance Criteria	Sat - Y Unsat. (circle one)													
					Mon AM	Mon PM	Tue AM	Tue PM	Wed AM	Wed PM	Thu AM	Thu PM	Fri AM	Fri PM	Sat AM	Sat PM		
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's 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	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	
Completion Time					0731	1930	0734	1930	0722	1931	0711	1930	0730	1930	0735	1930	0730	

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

Completed by:   *ARD*   Date: 5/15/16 Time: 1930

Reviewed by:   *[Signature]*   Date: 5/20/16 Time: 0740

Comments:

On-duty Supervisor   *[Signature]*

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)									
			Date:	Weekday:	Initials:							
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	5/9/16	Mon.	AM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			5/10/16	Tue.	AM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)		5/11/16	Wed.	AM	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	5/12/16	Thu.	AM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		$\geq -0.1$ ; $\leq +0.1$	5/13/16	Fri.	AM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Completion Time:	5/14/16	Sat.	PT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			5-15-16	Sun.	PT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			0930			0745	0835	0831	1015	8:00	0800	

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																													
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.																				
41.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	5/9/16	Mon.	JK	.04	5/10/16	Tue.	JK	.04	5/11/16	Wed.	JK	.04	5/12/16	Thu.	JK	.04	5-13-14	Fri.	JK	.05	5-14-16	Sat.	PT	.04	5-15-16	Sun.	PT	.04		
		PDI-894-2	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	OFF	.50	.49																					
		PDI-895-1	≤2.0 & > 0' in. wc	.04	.04	.04	.04	.04	.04	.04	.04	.04																					
41.3.4	South Corridor supply (HVP-810) AP	PDI-895-2	≤2.0 & > 0' in. wc	.59	.59	.59	.59	.59	.59	.69	.61	.61																					
		PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY																					
		PDI-817-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY																					
41.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY				
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY				
		PDI-819-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY			
41.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY			
		PDI-818-1	≤2.0 & > 0' in. wc	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25			
		PDI-818-2	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31		
41.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-4	≤2.0 & > 0' in. wc	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35		
		PDI-818-5	≤2.0 & > 0' in. wc	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	
		PDI-821-1	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
41.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	≤2.0 & > 0' in. wc	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	
		PDI-821-4	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39

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

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SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	AM	AM	AM	AM	PH	PT	PT	
41.3.4	400 area glovebox exhaust filter plenum (PF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	5/9/16	1.01	1.01	1.61	1.61	1.01	1.01	1.05	1.03
		PDI-822-2	≤2.0 & > 0' in. wc	5/10/16	.52	.53	.53	.53	.52	.52	1.52	.52
		PDI-822-4	≤2.0 & > 0' in. wc	5/11/16	.49	.49	.49	.49	.49	.49	.49	.49
		PDI-822-5	≤2.0 & > 0' in. wc	5/12/16	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-823-1	≤2.0 & > 0' in. wc	5/13/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0' in. wc	5/14/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	41.3.4	400 area glovebox exhaust filter plenum (PF857) AP	PDI-823-4	≤2.0 & > 0' in. wc	5/15/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
			PDI-823-5	≤2.0 & > 0' in. wc	5/16/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
			PDI-830-1	≤2.0 & > 0' in. wc	5/17/16	.69	.70	.70	.70	Ø	.71	.71
			PDI-830-2	≤2.0 & > 0' in. wc	5/18/16	.72	.72	.73	.74	Ø	.73	.73
			PDI-830-3	≤2.0 & > 0' in. wc	5/19/16	.76	.76	.78	.77	Ø	.78	.78
			PDI-836-1	≤2.0 & > 0' in. wc	5/20/16	.07	.07	.07	.07	.06	.07	.07
41.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0' in. wc	5/21/16	.67	.67	.67	.67	.69	.69	.69	
		PDI-836-3	≤2.0 & > 0' in. wc	5/22/16	.55	.55	.55	.55	.55	.55	.56	
		PDI-837-1	≤2.0 & > 0' in. wc	5/23/16	.51	.51	.51	.51	.53	.53	.53	
		PDI-837-2	≤2.0 & > 0' in. wc	5/24/16	.36	.36	.36	.36	.34	.36	.36	
		PDI-837-3	≤2.0 & > 0' in. wc	5/25/16	.41	.41	.41	.41	.40	.41	.41	
		PDI-837-3	≤2.0 & > 0' in. wc	5/26/16	.41	.41	.41	.41	.40	.41	.41	

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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0' in. wc	5/9/16	Mon.	Am	.51	.51	.51	.51	.52	.51	.51
		PDI-838-2	≤2.0 & > 0' in. wc	5/10/16	Tue.	Am	.50	.50	.50	.50	.50	.51	.51
		PDI-838-3	≤2.0 & > 0' in. wc	5/11/16	Wed.	Am	.56	.56	.56	.56	.56	.58	.58
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-839-1	≤2.0 & > 0' in. wc	5/12/16	Thu.	Am	.43	.43	.43	.43	.45	.44	.45
		PDI-839-2	≤2.0 & > 0' in. wc	5/13/16	Fri.	Am	.55	.55	.56	.56	.56	.55	.55
		PDI-839-3	≤2.0 & > 0' in. wc	5/14/16	Sat.	Am	.61	.61	.61	.61	.60	.61	.61
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-810-1	≤2.0 & > 0' in. wc	5/15/16	Sun.	Am	.14	.15	.15	.15	.17	.16	.15
		PDI-810-2	≤2.0 & > 0' in. wc	5/16/16	Mon.	Am	.48	.48	.48	.48	.50	.49	.49
		PDI-810-3	≤2.0 & > 0' in. wc	5/17/16	Tue.	Am	.45	.45	.46	.48	.50	.48	.47
OC Operator Review and Page Count Complete (initials)	Completion Time	PDI-811-1	≤2.0 & > 0' in. wc	5/18/16	Wed.	Am	.0825	.0810	.0900	.0905	.1027	.0807	.0752
		PDI-811-2	≤2.0 & > 0' in. wc	5/19/16	Thu.	Am	.0825	.0810	.0900	.0905	.1027	.0807	.0752
		PDI-811-3	≤2.0 & > 0' in. wc	5/20/16	Fri.	Am	.0825	.0810	.0900	.0905	.1027	.0807	.0752

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 Truitt Date 5/15/16 Time 0752 Reviewed by:

On-duty Supervisor

Date: 5/16/16 Time: 0630

Comments

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

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SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					5/9/16	5/10/16	5/11/16	5/12/16	5.13.14	5/14/16	5-15-16
					PM	PM	PM	PM	OFF	PT	PT
41.1.7	Vault re-circulation filter plenum (HVP-811) AP	PDI-840-1	≤2.0 & > 0' in. wc	.16	.16	.16	.16	.16	.16	.16	.16
		PDI-840-2	≤2.0 & > 0 in <sup>1</sup> . wc	.58	.58	.58	.58	.59	.59	.59	.59
		PDI-840-3	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50
		<sup>1</sup> PDI-841-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) AP	<sup>1</sup> PDI-831-1	≤2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45	.45
		PDI-831-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40
		<sup>1</sup> PDI-832-1	≤2.0 & > 0' in. wc	.34	.34	.35	.35	.35	.35	.35	
		PDI-832-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	
		PDI-832-3	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	
41.3.4	North Bleed off filter plenum (PF-820A) AP	<sup>1</sup> PDI-807-1	≤2.0 & > 0' in. wc	.11	.12	.12	.12	.12	.11	.11	
		PDI-807-2	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.50	.49	.49	
		PDI-807-3	≤2.0 & > 0' in. wc	.49	.48	.48	.48	.49	.48	.49	
41.3.4	North Bleed off filter plenum (PF-820B) AP	<sup>1</sup> PDI-809-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	



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

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SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Weekday:	Initials:							
4134	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	5/9/16	Mon.	AP	.16	.16	.16	.16	.04	.16	.16
			≤2.0 & > 0' in. wc	5/10/16	Tue.	AP	.36	.36	.36	.36	.05	.37	.38
		PDI-829-2	≤2.0 & > 0' in. wc	5/11/16	Wed.	AP	.30	.30	.30	.30	.05	.30	.30
			≤2.0 & > 0' in. wc	5/12/16	Thu.	AP	.07	.07	.07	.07	.07	.07	.07
		PDI-829-3	≤2.0 & > 0' in. wc	5/13/16	Fri.	AP	.49	.49	.49	.49	.49	.49	.49
			≤2.0 & > 0' in. wc	5/14/16	Sat.	PT	.49	.49	.49	.49	.49	.49	.49
	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤2.0 & > 0' in. wc	5/9/16	Mon.	AP	.17	.17	.17	.17	.17	.17	.17
			≤2.0 & > 0' in. wc	5/10/16	Tue.	AP	.42	.42	.42	.42	.43	.42	.42
		PDI-833-2	≤2.0 & > 0' in. wc	5/11/16	Wed.	AP	.39	.39	.39	.39	.39	.39	.39
			≤2.0 & > 0' in. wc	5/12/16	Thu.	AP	.40	.40	.40	.40	.40	.40	.40
		PDI-833-3	≤2.0 & > 0' in. wc	5/13/16	Fri.	AP	.40	.40	.40	.40	.40	.40	.40
			≤2.0 & > 0' in. wc	5/14/16	Sat.	PT	.40	.40	.40	.40	.40	.40	.40
4134	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	≤2.0 & > 0' in. wc	5/9/16	Mon.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			≤2.0 & > 0' in. wc	5/10/16	Tue.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-815-2	≤2.0 & > 0' in. wc	5/11/16	Wed.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			≤2.0 & > 0' in. wc	5/12/16	Thu.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-815-4	≤2.0 & > 0' in. wc	5/13/16	Fri.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			≤2.0 & > 0' in. wc	5/14/16	Sat.	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4134	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤2.0 & > 0' in. wc	5/9/16	Mon.	AP	.40	.40	.40	.40	.40	.40	
			≤2.0 & > 0' in. wc	5/10/16	Tue.	AP	.51	.51	.51	.51	.51	.51	
		PDI-816-2	≤2.0 & > 0' in. wc	5/11/16	Wed.	AP	.45	.45	.45	.45	.45	.45	
			≤2.0 & > 0' in. wc	5/12/16	Thu.	AP	.49	.49	.49	.49	.49	.49	
		PDI-816-4	≤2.0 & > 0' in. wc	5/13/16	Fri.	AP	.49	.49	.49	.49	.49	.49	
			≤2.0 & > 0' in. wc	5/14/16	Sat.	PT	.49	.49	.49	.49	.49	.49	

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

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																																	
				Date:	Weekday:	Initials:																															
4134	200 area glovebox exhaust filter plenum (PF850) AP	PDI-812-1	≤ 2.0 &gt; 0' in. wc	5/9/16	Mon.	gm	.17	STBY	5/10/16	Tue.	gm	.17	STBY	5/11/16	Wed.	gm	.17	STBY	5/12/16	Thu.	gm	.17	STBY	5/13/16	Fri.	BSA	.17	STBY	5/14/16	Sat.	PT	.16	STBY	5-15-16	Sun.	PT	.16
				5/9/16	Mon.	gm	.39	STBY	5/10/16	Tue.	gm	.39	STBY	5/11/16	Wed.	gm	.39	STBY	5/12/16	Thu.	gm	.39	STBY	5/13/16	Fri.	BSA	.39	STBY	5/14/16	Sat.	PT	.39	STBY	5-15-16	Sun.	PT	.38
		PDI-812-3	≤ 2.0 &gt; 0' in. wc	5/9/16	Mon.	gm	.39	STBY	5/10/16	Tue.	gm	.39	STBY	5/11/16	Wed.	gm	.39	STBY	5/12/16	Thu.	gm	.39	STBY	5/13/16	Fri.	BSA	.39	STBY	5/14/16	Sat.	PT	.38	STBY	5-15-16	Sun.	PT	.35
				5/9/16	Mon.	gm	.32	STBY	5/10/16	Tue.	gm	.32	STBY	5/11/16	Wed.	gm	.32	STBY	5/12/16	Thu.	gm	.32	STBY	5/13/16	Fri.	BSA	.31	STBY	5/14/16	Sat.	PT	.31	STBY	5-15-16	Sun.	PT	.30
		PDI-812-5	≤ 2.0 &gt; 0' in. wc	5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41
				5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41
		PDI-813-1	≤ 2.0 &gt; 0' in. wc	5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41
				5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41
		PDI-813-2	≤ 2.0 &gt; 0' in. wc	5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41
				5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41
PDI-813-3	≤ 2.0 &gt; 0' in. wc	5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41		
		5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41		
PDI-813-4	≤ 2.0 &gt; 0' in. wc	5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41		
		5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41		
PDI-813-5	≤ 2.0 &gt; 0' in. wc	5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41		
		5/9/16	Mon.	gm	.44	STBY	5/10/16	Tue.	gm	.43	STBY	5/11/16	Wed.	gm	.43	STBY	5/12/16	Thu.	gm	.43	STBY	5/13/16	Fri.	BSA	.41	STBY	5/14/16	Sat.	PT	.41	STBY	5-15-16	Sun.	PT	.41		
4134	IFFT exhaust filter plenum (PF-865) AP	PDI-865-1	≤ 2.0 &gt; 0' in. wc	5/9/16	Mon.	gm	.02	STBY	5/10/16	Tue.	gm	.02	STBY	5/11/16	Wed.	gm	.02	STBY	5/12/16	Thu.	gm	.02	STBY	5/13/16	Fri.	BSA	.02	STBY	5/14/16	Sat.	PT	.02	STBY	5-15-16	Sun.	PT	.02
				5/9/16	Mon.	gm	.30	STBY	5/10/16	Tue.	gm	.30	STBY	5/11/16	Wed.	gm	.30	STBY	5/12/16	Thu.	gm	.30	STBY	5/13/16	Fri.	BSA	.30	STBY	5/14/16	Sat.	PT	.30	STBY	5-15-16	Sun.	PT	.30
				5/9/16	Mon.	gm	.33	STBY	5/10/16	Tue.	gm	.32	STBY	5/11/16	Wed.	gm	.32	STBY	5/12/16	Thu.	gm	.33	STBY	5/13/16	Fri.	BSA	.38	STBY	5/14/16	Sat.	PT	.32	STBY	5-15-16	Sun.	PT	.32
4134	IFFT supply filter plenum (HVP-863) AP	PDI-863-1	≤ 2.0 &gt; 0' in. wc	5/9/16	Mon.	gm	.07	STBY	5/10/16	Tue.	gm	.07	STBY	5/11/16	Wed.	gm	.07	STBY	5/12/16	Thu.	gm	.07	STBY	5/13/16	Fri.	BSA	.09	STBY	5/14/16	Sat.	PT	.09	STBY	5-15-16	Sun.	PT	.09
				5/9/16	Mon.	gm	.28	STBY	5/10/16	Tue.	gm	.28	STBY	5/11/16	Wed.	gm	.28	STBY	5/12/16	Thu.	gm	.28	STBY	5/13/16	Fri.	BSA	.29	STBY	5/14/16	Sat.	PT	.30	STBY	5-15-16	Sun.	PT	.30

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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	Date						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
41.34	North Basement supply filter plenum (IIVP-840) AP	1PDI-857-1	≤ 2.0 & > 0' in. wc	.12	.12	.12	.12	.11	.11	.11
41.34	North corridor supply filter plenum (IIVP-809) AP	1PDI-856-1	≤ 2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05	.05
43.22	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft <sup>3</sup> 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
OC Operator Review and Page Count Complete (initials)				AD	W	W	W	W	W	W
Non TSR requirement				0915	0950	0850	0842	0938	0810	0745
Note: SR 4.1.3.4 applies during mode 1 and mode 2.										

Completed by: Paul Tevill Date 5-15-16 Time 0745 Reviewed by: [Signature] Date: 5/18/16 Time: 0650

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**  
(Page 1 of 3)

SRS	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																					
			Date:		Weekday:		Shift:		Initials:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			05-16-16	05-17-16	5-18-16	5-19-16	05-20-16	05-21-16	05-22-16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
4.1.1.1 4.1.2.1?	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	<1.0 in. wc	-2.00	-1.99	-1.99	-1.99	-2.00	-2.00	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	<1.0 in. wc	-1.92	-1.91	-1.91	-1.91	-1.91	-1.91	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	<1.0 in. wc	-1.98	-1.98	-1.97	-1.97	-1.97	-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	-1.98	-1.98
4.1.1.2 4.1.1.5 4.1.2.2	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	<1.0 in. wc	-1.98	-1.99	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97
	200 area laboratory header AP	PDI-803-1 or PDI-803-2	<0.05 in. wc	-0.21	-0.21	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	<0.05 in. wc	-0.24	-0.24	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23
4.1.1.3 4.1.2.3?	300 area laboratory header AP	PDI-853-1 or PDI-853-2	<0.05 in. wc	-0.20	-0.21	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	<0.05 in. wc	-0.20	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
	IFT Facility AP	PDI-865-4 or PDI-865-5	<0.05 in. wc	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
	North basement AP	PDI-804-1 or PDI-804-2	<0.00 in. wc	-0.09	-0.10	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
	South basement AP	PDI-854-1 or PDI-854-2	<0.00 in. wc	-0.09	-0.10	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
	IRT Tunnel AP	PDT-901 or PDI-901	<0.00 in. wc	-0.100	-0.099	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRS	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS																	
				Sat. / Unsat. (circle one)																	
				Date:	Weekday:	Shift:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	AM	PM					
4.1.1.6	200 area re-circulation fan/plenum	f:R-801 Icon red and PDI-831 AP > .050	At least one fan/plenum is in service	05-16-16	Mon.	AM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	
				05-17-16	Tue.	PM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
		f:R-802 Icon red and PDI-832 AP > .050	At least one fan/plenum is in service	5/18/16	Wed.	AM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
				5/19/16	Thu.	PM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
	100 area re-circulation fan/plenum	f:R-803 Icon red and PDI-833 AP > .050	At least one fan/plenum is in service	05-21-16	Fri.	AM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
				05-22-16	Sun.	PM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
		f:R-804 Icon red and PDI-835 AP > .050	At least one fan/plenum is in service	05-21-16	Fri.	PM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
				05-22-16	Sun.	AM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
	300 area re-circulation fan/plenum	f:R-805 Icon red and PDI-836 AP > .050	At least one fan/plenum is in service	05-21-16	Fri.	AM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
				05-22-16	Sun.	PM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
		f:R-806 Icon red and PDI-837 AP > .050	At least one fan/plenum is in service	05-21-16	Fri.	PM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
				05-22-16	Sun.	AM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat
400 area re-circulation fan/plenum	f:R-807 Icon red and PDI-838 AP > .050	At least one fan/plenum is in service	05-21-16	Fri.	AM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	
			05-22-16	Sun.	PM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	
	f:R-808 Icon red and PDI-839 AP > .050	At least one fan/plenum is in service	05-21-16	Fri.	PM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	
			05-22-16	Sun.	AM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	
Vault re-circulation fan/plenum	f:R-811 Icon red and PDI-840 AP > .050	At least one fan/plenum is in service	05-21-16	Fri.	AM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	
			05-22-16	Sun.	PM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	
	f:R-812 Icon red and PDI-841 AP > .050	At least one fan/plenum is in service	05-21-16	Fri.	PM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	
			05-22-16	Sun.	AM	AC	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	<input checked="" type="radio"/> Sat	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

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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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
05/16/16	05/17/16	5/18/16	5/19/16	05/20/16	05/21/16	05/22/16	
AM	PM	AM	PM	AM	PM	AM	PM
Initials:	BC	BC	AB	AB	BC	BC	BC

SURVEILLANCE RESULTS

SRS	Description	Area	Gauge	Acceptance Criteria	Sat. / Unsat. (circle one)														
					0717	0718	0721	0733	0730	0713	0730	0714	0730	0723	0724	0717	0727		
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's 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	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		Completion Time			0717	0718	0721	0733	0730	0713	0730	0714	0730	0723	0724	0717	0727		

R33

Note: 1 Mode 2 acceptance criteria is < 8.00 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 7/22/16 Time 1922 Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Comments: \_\_\_\_\_  
On-duty Supervisor \_\_\_\_\_

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
			Date:	Weekday:	Initials:	Record Calculated Value	Completion Time:		
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	5-16-16	Mon.	KS	0.0	0940		
			5/17/16	Tue.	QM	0.0	0800		
			5/18/16	Wed.	QM	0.0	0706		
			5/19/16	Thu.	QM	0.0	0920		
			5/20/16	Fri.	BS	0.0	0730		
			5/21/16	Sat.	DM	0.0	0707		
			5/22/16	Sun.	JR	0.0	0755		
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value $\geq -0.1$ ; $\leq +0.1$							

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																				
				Date:	Weekday:	Initials:																		
				5/16/16	Mon	AS	5/17/16	Tue	JA	5/18/16	Wed	JA	5/19/16	Thu	JA	5/20/16	Fri	AS	5/21/16	Sat	JA	5/22/16	Sun	WJR
41.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	<2.0 &gt; 0' in. wc	.05	.04	.04	.04	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-894-2	<2.0 &gt; 0' in. wc	.50	.49	.49	.50	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
41.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	<2.0 &gt; 0' in. wc	.06	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-895-2	<2.0 &gt; 0' in. wc	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60
41.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	<2.0 &gt; 0' in. wc	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29
		PDI-817-2	<2.0 &gt; 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
41.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-817-5	<2.0 &gt; 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-819-1	<2.0 &gt; 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
41.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-1	<2.0 &gt; 0' in. wc	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25
		PDI-818-2	<2.0 &gt; 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
41.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	<2.0 &gt; 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-821-3	<2.0 &gt; 0' in. wc	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45
41.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-4	<2.0 &gt; 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39



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

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SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:						
				5/16/16	5/17/16	5/18/16	5/19/16	5/20/16	5/21/16	5/22/16		
41.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	<2.0 & > 0 <sup>1</sup> in. wc	1.0	1.01	1.02	1.02	1.0	.99	1.02		
		PDI-822-2	<2.0 & > 0 <sup>1</sup> in. wc	.52	.52	.54	.54	.51	.51	.51		
		PDI-822-4	<2.0 & > 0 <sup>1</sup> in. wc	.49	.48	.48	.48	.48	.48	.48		
		PDI-822-5	<2.0 & > 0 <sup>1</sup> in. wc	.50	.50	.50	.50	.49	.49	.49		
		PDI-823-1	<2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-823-2	<2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-823-4	<2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-823-5	<2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-830-1	<2.0 & > 0 <sup>1</sup> in. wc	.72	.70	.70	.70	.71	.70	.70		
		PDI-830-2	<2.0 & > 0 <sup>1</sup> in. wc	.25	.25	.25	.25	.24	.24	.23		
41.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-830-3	<2.0 & > 0 <sup>1</sup> in. wc	.28	.28	.28	.28	.28	.28	.27		
		PDI-836-1	<2.0 & > 0 <sup>1</sup> in. wc	.07	.07	.07	.07	.07	.07	.06		
		PDI-836-2	<2.0 & > 0 <sup>1</sup> in. wc	.68	.68	.67	.67	.68	.68	.68		
		PDI-836-3	<2.0 & > 0 <sup>1</sup> in. wc	.55	.55	.54	.53	.54	.55	.54		
		PDI-837-1	<2.0 & > 0 <sup>1</sup> in. wc	.53	.53	.53	.52	.53	.53	.52		
		PDI-837-2	<2.0 & > 0 <sup>1</sup> in. wc	.35	.36	.36	.37	.35	.36	.35		
		PDI-837-3	<2.0 & > 0 <sup>1</sup> in. wc	.40	.41	.41	.41	.41	.41	.41		
		41.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-3	<2.0 & > 0 <sup>1</sup> in. wc	.28	.28	.28	.28	.28	.28	.27
				PDI-836-1	<2.0 & > 0 <sup>1</sup> in. wc	.07	.07	.07	.07	.07	.07	.06
				PDI-836-2	<2.0 & > 0 <sup>1</sup> in. wc	.68	.68	.67	.67	.68	.68	.68
PDI-836-3	<2.0 & > 0 <sup>1</sup> in. wc			.55	.55	.54	.53	.54	.55	.54		
PDI-837-1	<2.0 & > 0 <sup>1</sup> in. wc			.53	.53	.53	.52	.53	.53	.52		
PDI-837-2	<2.0 & > 0 <sup>1</sup> in. wc			.35	.36	.36	.37	.35	.36	.35		
PDI-837-3	<2.0 & > 0 <sup>1</sup> in. wc			.40	.41	.41	.41	.41	.41	.41		

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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																											
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.																		
4.1.1.7	400 area re-circulation filter plenum (HVFP-807) AP	PDI-838-1	≤ 2.0 & > 0' in. wc	5/16/16	Mon.	AD	.51	5/17/16	Tue.	QM	.51	5/18/16	Wed.	QM	.50	5/19/16	Thu.	QM	.50	5/20/16	Fri.	AB	.57	5/21/16	Sat.	DM	.51	5/22/16	Sun.	MS	.51
		PDI-838-2	≤ 2.0 & > 0' in. wc				.50		.50		.50		.50		.50		.50		.50		.50		.50		.50		.50		.50		.50
		PDI-838-3	≤ 2.0 & > 0' in. wc				.56		.56		.56		.56		.56		.56		.56		.58		.58		.58		.58		.58		.58
	400 area re-circulation filter plenum (HVFP-808) AP	PDI-839-1	≤ 2.0 & > 0' in. wc				.44		.44		.44		.44		.44		.44		.44		.44		.44		.44		.44		.44		.44
		PDI-839-2	≤ 2.0 & > 0' in. wc				.55		.55		.55		.55		.55		.55		.55		.52		.52		.55		.55		.55		.55
		PDI-839-3	≤ 2.0 & > 0' in. wc				.60		.60		.60		.60		.60		.60		.60		.60		.60		.60		.60		.60		.60
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤ 2.0 & > 0' in. wc				.15		.08		.15		.15		.15		.15		.14		.14		.14		.14		.14		.14		.14
		PDI-810-2	≤ 2.0 & > 0' in. wc				.49		.08		.48		.48		.44		.45		.45		.45		.45		.45		.45		.45		.45
		PDI-810-3	≤ 2.0 & > 0' in. wc				.48		.08		.48		.48		.42		.42		.42		.42		.42		.42		.42		.42		.42
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤ 2.0 & > 0' in. wc				.08		.31		.08		.08		.08		.08		.08		.08		.08		.08		.08		.08		.08
		PDI-811-2	≤ 2.0 & > 0' in. wc				.08		.49		.08		.08		.08		.08		.08		.08		.08		.08		.08		.08		.08
		PDI-811-3	≤ 2.0 & > 0' in. wc				.08		.49		.08		.08		.08		.08		.08		.08		.08		.08		.08		.08		.08
OC Operator Review and Page Count Complete (initials)				1010		MS		0830		AM		0925		AM		0840		AM		0801		AM		0750		AM		0803		AM	

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 Fish Date: 5/16/16 Time: 0830 Reviewed by:

On-duty Supervisor

Date:

Time:

Comments

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

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:						
				5/16/16	5/17/16	5/18/16	5/19/16	5/20/16	5/21/16	5/22/16		
41.1.7	Vault re-circulation filter plenum (HVP-811) A/P	PDI-840-1	<2.0 &gt; 0' in. wc	.16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-2	<2.0 &gt; 0 in' . wc	.59	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	<2.0 &gt; 0' in. wc	.50	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-1	<2.0 &gt; 0' in. wc	STBY	.46	.46	.46	.46	.47	.46		
		PDI-841-2	<2.0 &gt; 0' in. wc	STBY	.56	.56	.56	.56	.58	.58	.57	
		PDI-841-3	<2.0 &gt; 0' in. wc	STBY	.51	.51	.51	.51	.50	.51	.50	
	200 area re-circulation filter plenum (HVP-801) A/P	PDI-831-1	<2.0 &gt; 0' in. wc	.34	.33	.33	.33	.33	.33	.33	.35	.35
		PDI-831-2	<2.0 &gt; 0' in. wc	.46	.46	.46	.46	.45	.46	.45	.45	
		PDI-831-3	<2.0 &gt; 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	
		PDI-832-1	<2.0 &gt; 0' in. wc	.35	.35	.35	.35	.35	.35	.35	.34	
		PDI-832-2	<2.0 &gt; 0' in. wc	.64	.67	.67	.67	.68	.68	.67	.67	
		PDI-832-3	<2.0 &gt; 0' in. wc	.61	.61	.61	.61	.61	.61	.61	.62	
41.3.4	North Bleed off filter plenum (PF-820A) A/P	PDI-807-1	<2.0 &gt; 0' in. wc	.18	OFF	.12	.12	.12	.12	.13	.11	
		PDI-807-2	<2.0 &gt; 0' in. wc	.50	OFF	.49	.49	.50	.50	.50	.49	
		PDI-807-3	<2.0 &gt; 0' in. wc	.49	OFF	.46	.48	.49	.49	.48	.47	
41.3.4	North Bleed off filter plenum (PF-820B) A/P	PDI-809-1	<2.0 &gt; 0' in. wc	OFF	.07	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	<2.0 &gt; 0' in. wc	OFF	.51	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	<2.0 &gt; 0' in. wc	OFF	.42	OFF	OFF	OFF	OFF	OFF	OFF	

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:							
41.3.4	North Basement exhaust filter plenum (FF-828) AP	1/2 PDI-829-1	≤ 2.0 &gt; 0.1 in. wc	5/16/16	5/17/16	5/18/16	5/19/16	5/20/16	5/21/16	5/22/16	
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-829-2	≤ 2.0 &gt; 0.1 in. wc	.36	.36	.36	.36	.38	.38	.38	
			Weekday:								
		PDI-829-3	≤ 2.0 &gt; 0.1 in. wc	.30	.30	.30	.30	.31	.30	.30	
			Weekday:								
		1/2 PDI-833-1	≤ 2.0 &gt; 0.1 in. wc	.07	.07	.07	.07	.07	.07	.07	
			Weekday:								
		PDI-833-2	≤ 2.0 &gt; 0.1 in. wc	.49	.49	.49	.49	.49	.49	.49	
			Weekday:								
PDI-833-3	≤ 2.0 &gt; 0.1 in. wc	.39	.40	.40	.40	.40	.40	.39			
	Weekday:										
41.1.7	100 area re-circulation filter plenum (IIVP-803) AP	1/2 PDI-835-1	≤ 2.0 &gt; 0.1 in. wc	.17	.17	.17	.17	.17	.17	.17	
			Weekday:								
		PDI-835-2	≤ 2.0 &gt; 0.1 in. wc	.42	.42	.42	.42	.42	.42	.42	
			Weekday:								
		PDI-835-3	≤ 2.0 &gt; 0.1 in. wc	.38	.38	.38	.38	.39	.39	.39	
			Weekday:								
		1/2 PDI-815-1	≤ 2.0 &gt; 0.1 in. wc	.21	.21	.21	.21	.21	.21	.21	
			Weekday:								
		PDI-815-2	≤ 2.0 &gt; 0.1 in. wc	.49	.49	.50	.49	.50	.50	.49	
			Weekday:								
PDI-815-4	≤ 2.0 &gt; 0.1 in. wc	.43	.43	.43	.43	.42	.42	.41			
	Weekday:										
1/2 PDI-815-5	≤ 2.0 &gt; 0.1 in. wc	.44	.44	.44	.44	.45	.45	.42			
	Weekday:										
PDI-816-1	≤ 2.0 &gt; 0.1 in. wc	.40	.40	.40	.40	.40	.40	.40			
	Weekday:										
PDI-816-2	≤ 2.0 &gt; 0.1 in. wc	.51	.51	.51	.51	.51	.51	.51			
	Weekday:										
PDI-816-4	≤ 2.0 &gt; 0.1 in. wc	.48	.48	.48	.48	.48	.48	.48			
	Weekday:										
PDI-816-5	≤ 2.0 &gt; 0.1 in. wc	.50	.50	.50	.50	.50	.50	.50			
	Weekday:										
41.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-5	≤ 2.0 &gt; 0.1 in. wc	.50	.50	.50	.50	.50	.50	.50	
			Weekday:								

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

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Initials:	AS	AS	AS	AS	AS	AS	AS	AS	AS
41.3.4	200 area glovebox exhaust filter plenum (FF850) AP	PDI-812-1 PDI-812-2 PDI-812-3 PDI-812-4 PDI-812-5	≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc	5/16/16 5/17/16 5/18/16 5/19/16 5/20/16	.16 .38 .36 .30 .41	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY
41.3.4	200 area glovebox exhaust filter plenum (FF851) AP	PDI-813-1 PDI-813-2 PDI-813-3 PDI-813-4 PDI-813-5	≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc	5/16/16 5/17/16 5/18/16 5/19/16 5/20/16	.31 .22 .22 .32 .46	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY	STBY STBY STBY STBY STBY
41.3.4	IFFT exhaust filter plenum (FF-865) AP	PDI-865-1 PDI-865-2 PDI-865-3	≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc	5/16/16 5/17/16 5/18/16	.01 .30 .32	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY	STBY STBY STBY
41.3.4	IFFT supply filter plenum (IIVP-863) AP	PDI-863-1 PDI-863-2	≤ 2.0 &gt; 0' in. wc ≤ 2.0 &gt; 0' in. wc	5/16/16 5/17/16	.10 .30	STBY STBY	STBY STBY	STBY STBY	STBY STBY	STBY STBY	STBY STBY	STBY STBY	STBY STBY

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS																																		
				Date:	Weekday:	Initials:	Value	Acceptance	Value	Acceptance																												
4134	North Basement supply filter plenum (IIVP-840) AP	PDI-857-2	≤ 2.0 & > 0' in. WC	5-16-16	Mon.	KS	.15	Yes	5-17-16	Tue.	AK	.12	Yes	5-18-16	Wed.	AK	.12	Yes	5-19-16	Thu.	AM	.12	Yes	5-20-16	Fri.	AS	.12	Yes	5-21-16	Sat.	OH	.12	Yes	5-22-16	Sun.	JK	.10	Yes
				4134	North corridor supply filter plenum (IIVP-809) AP	PDI-856-1	≤ 2.0 & > 0' in. WC	5-16-16	Mon.	KS	.06	Yes	5-17-16	Tue.	AK	.06	Yes	5-18-16	Wed.	AK	.06	Yes	5-19-16	Thu.	AM	.06	Yes	5-20-16	Fri.	AS	.06	Yes	5-21-16	Sat.	OH	.06	Yes	5-22-16
4322	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-2	≤ 2.0 & > 0' in. WC	5-16-16	Mon.	KS	.51	No	5-17-16	Tue.	AK	.51	No	5-18-16	Wed.	AK	.51	No	5-19-16	Thu.	AM	.51	No	5-20-16	Fri.	AS	.51	No	5-21-16	Sat.	OH	.51	No	5-22-16	Sun.	JK	.51	No
				4322	Rooms 201, 204, 206, & 207	PDI-856-2	0 lb/ft <sup>3</sup> 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	5-16-16	Mon.	KS	SAT	5-17-16	Tue.	AK	SAT	5-18-16	Wed.	AK	SAT	5-19-16	Thu.	AM	SAT	5-20-16	Fri.	AS	SAT	5-21-16	Sat.	OH	SAT	5-22-16	Sun.	JK	SAT			

OC Operator Review and Page Count Complete (initials)  
 Non TSR requirement  
 Note: SR 4.1.3.4 applies during mode 1 and mode 2.  
 Completed by: [Signature] Date 5/24/16 Time 0820 Reviewed by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Comments: \_\_\_\_\_  
 On-duty Supervisor \_\_\_\_\_

**ATTACHMENT A: Per Shift Surveillance Rounds [UFT]**  
(Page 1 of 3)

SRS	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																					
			Date:		Weekday:		Shift:		Initials:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	<=1.0 in. wc	5-23-16	Mon.	AM	PM	AP	AP	2.02	2.00	2.01	1.99	2.00	1.99	1.98	2.01	2.01	2.01	1.99	2.01	1.99		
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	<=1.0 in. wc	5-24-16	Tue.	AM	PM	AP	AP	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92		
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	<=1.0 in. wc	5-25-16	Wed.	AM	PM	AP	AP	1.98	1.98	1.98	1.97	1.98	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98		
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	<=1.0 in. wc	5-26-16	Thu.	AM	PM	AP	AP	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		
	200 area laboratory header AP	PDI-803-1 or PDI-803-2	<=0.05 in. wc	5-27-16	Fri.	AM	PM	AP	AP	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21		
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	<=0.05 in. wc	5-28-16	Sat.	AM	PM	AP	AP	0.25	0.25	0.25	0.24	0.25	0.24	0.25	0.24	0.25	0.24	0.25	0.24	0.25		
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	<=0.05 in. wc	5-29-16	Sun.	AM	PM	AP	AP	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	<=0.05 in. wc																					
	4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	IFIT Facility AP	PDI-865-4 or PDI-865-5	<=0.05 in. wc																				
		North basement AP	PDI-804-1 or PDI-804-2	<=0.00 in. wc																				
South basement AP		PDI-854-1 or PDI-854-2	<=0.00 in. wc																					
4.1.1.3 4.1.2.3 <sup>2</sup>	IRT Tunnel AP	PDI-901 or PDI-901	<=0.00 in. wc																					

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRS	Description	Readings	Acceptance Criteria	Date:							Initials:													
				Weekday:		Shift:		SURVEILLANCE RESULTS																
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.														
4.1.1.6	200 area re-circulation fan/plenum	IR-801 Icon red and PDI-831 AP > 0.50 or IR-802 Icon red and PDI-832 AP > 0.50	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	100 area re-circulation fan/plenum	IR-803 Icon red and PDI-833 AP > 0.50 or IR-804 Icon red and PDI-835 AP > 0.50	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	300 area re-circulation fan/plenum	IR-805 Icon red and PDI-836 AP > 0.50 or IR-806 Icon red and PDI-837 AP > 0.50	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
400 area re-circulation fan/plenum	IR-807 Icon red and PDI-838 AP > 0.50 or IR-808 Icon red and PDI-839 AP > 0.50	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat		
			Sat	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
Vault re-circulation fan/plenum	IR-811 Icon red and PDI-840 AP > 0.50 or IR-812 Icon red and PDI-841 AP > 0.50	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat		
			Sat	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	



ATTACHMENT A: Per Shift Surveillance Rounds [UET]

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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:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
5-29-16														
5-30-16														
5-31-16														
5-28-16														
5-29-16														

SURVEILLANCE RESULTS

SRS	Description	Area	Gauge	Acceptance Criteria	Sat./Unsat. (circle one)																
					Mon AM	Mon PM	Tue AM	Tue PM	Wed AM	Wed PM	Thu AM	Thu PM	Fri AM	Fri PM	Sat AM	Sat PM	Sun AM	Sun PM			
4.1.1.4 < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	Clovebox exhaust header AP's	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	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	Unsat	Unsat
	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	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	Unsat	Unsat	Unsat
	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	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	Unsat	Unsat	Unsat
	400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	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	Unsat	Unsat	Unsat
Completion Time					0730	0730	0730	0730	0715	0715	0715	0730	0730	0730	0730	0730	0730	0730	0730		

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: 5/30/16 Time: 1430  
Reviewed by: [Signature] Date: [ ] Time: [ ]  
On-duty Supervisor: [ ]

Comments: \_\_\_\_\_

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
			Date:	Weekday:	Initials:	Record Calculated Value	Completion Time:		
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	5/23/16	Mon.	JM	0.0	0830		
			5/24/16	Tue.	JM	0.0	0842		
			5/25/16	Wed.	JM	0.0	0845		
			5/26/16	Thu.	JM	0.0	0830		
			5/27/16	Fri.	JM	0.0	0740		
			5/28/16	Sat.	JM	0.0	0635		
			5/29/16	Sun.	JM	0.0	0715		
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value $\geq -0.1$ ; $\leq +0.1$	5/23/16	Mon.	SAP / Unsat.	0.0	0830		
			5/24/16	Tue.	SAP / Unsat.	0.0	0842		
			5/25/16	Wed.	SAP / Unsat.	0.0	0845		
			5/26/16	Thu.	SAP / Unsat.	0.0	0830		
			5/27/16	Fri.	SAP / Unsat.	0.0	0740		
			5/28/16	Sat.	SAP / Unsat.	0.0	0635		
			5/29/16	Sun.	SAP / Unsat.	0.0	0715		

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Weekday:	Initials:					
				5/23/16	5/24/16	5/25/16	5/26/16	5/27/16	5/28/16	5/29/16	
4134	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤ 2.0 & > 0' in. wc	.04	.04	.05	.04	.04	.04	.04	
		PDI-894-2	≤ 2.0 & > 0' in. wc	.51	.51	.51	.49	.49	.49	.49	
4134	South Corridor supply (HVP-810) AP	PDI-895-1	≤ 2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05	.05	
		PDI-895-2	≤ 2.0 & > 0' in. wc	.55	.58	.58	.60	.60	.60	.60	
4134	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤ 2.0 & > 0' in. wc	.29	.29	.29	.29	.29	.29	.29	
		PDI-817-2	≤ 2.0 & > 0' in. wc	.30	.31	.31	.31	.31	.31	.31	
4134	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-4	≤ 2.0 & > 0' in. wc	.32	.32	.32	.32	.32	.32	.32	
		PDI-817-5	≤ 2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	
4134	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	
		PDI-819-3	≤ 2.0 & > 0' in. wc	.49	.50	.49	.50	.50	.50	.50	
4134	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-818-1	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.42	.42	.42	
		PDI-818-2	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	
4134	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	
		PDI-821-3	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	
4134	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-4	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	

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

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wg)							
				Date:	Weekday:	Initials:					
				5/23/16	5/24/16	5/25/16	5/26/16	5/27/16	5/28/16	5/29/16	
41.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	<2.0 &gt; 0' in. wg	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
			<2.0 &gt; 0' in. wg	.54	.54	.54	.54	.52	.52	.52	
		PDI-822-2	<2.0 &gt; 0' in. wg	.48	.48	.48	.48	.48	.48	.48	.48
			<2.0 &gt; 0' in. wg	.50	.50	.50	.50	.50	.50	.50	
		PDI-823-1	<2.0 &gt; 0' in. wg	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			<2.0 &gt; 0' in. wg	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-2	<2.0 &gt; 0' in. wg	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			<2.0 &gt; 0' in. wg	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-4	<2.0 &gt; 0' in. wg	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			<2.0 &gt; 0' in. wg	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
PDI-823-5	<2.0 &gt; 0' in. wg	STBY	STBY	STBY	STBY	STBY	STBY	STBY			
	<2.0 &gt; 0' in. wg	STBY	STBY	STBY	STBY	STBY	STBY	STBY			
41.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	<2.0 &gt; 0' in. wg	.72	.71	.69	.71	.71	.71	.71	
			<2.0 &gt; 0' in. wg	.23	.23	.23	.25	.23	.25	.25	
		PDI-830-2	<2.0 &gt; 0' in. wg	.27	.26	.27	.27	.27	.27	.27	
			<2.0 &gt; 0' in. wg	.02	.07	.07	.02	.02	.02	.07	
		PDI-830-3	<2.0 &gt; 0' in. wg	.56	.65	.65	.67	.67	.67	.67	
			<2.0 &gt; 0' in. wg	.53	.51	.52	.52	.53	.53	.53	
		PDI-836-1	<2.0 &gt; 0' in. wg	.52	.52	.52	.52	.52	.52	.52	
			<2.0 &gt; 0' in. wg	.37	.36	.37	.37	.37	.37	.37	
		PDI-836-2	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41	
			<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41	
PDI-836-3	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
PDI-837-1	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
PDI-837-2	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
PDI-837-3	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
41.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-837-1	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41	
			<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41	
PDI-837-2	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
PDI-837-3	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			
	<2.0 &gt; 0' in. wg	.41	.41	.41	.41	.41	.41	.41			

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤ 2.0 & > 0' in. wc	5/23/16	.51	.51	.51	.51	.51	.51	.51
				5/24/16	.50	.50	.50	.50	.50	.50	
		PDI-838-2	≤ 2.0 & > 0' in. wc	5/25/16	.53	.53	.53	.53	.53	.53	
				5/26/16	.58	.58	.58	.58	.58	.58	
		PDI-839-1	≤ 2.0 & > 0' in. wc	5/27/16	.44	.44	.44	.44	.44	.44	
				5/28/16	.61	.61	.61	.61	.61	.61	
PDI-839-2	≤ 2.0 & > 0' in. wc	5/29/16	.44	.44	.44	.44	.44	.44			
		5/30/16	.58	.58	.58	.58	.58	.58			
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤ 2.0 & > 0' in. wc	5/23/16	.14	.14	.15	.14	.15	.15	.15
				5/24/16	.42	.46	.49	.45	.48	.46	.45
		PDI-810-2	≤ 2.0 & > 0' in. wc	5/25/16	.42	.44	.46	.43	.45	.44	.43
				5/26/16	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-1	≤ 2.0 & > 0' in. wc	5/27/16	OFF	OFF	OFF	OFF	OFF	OFF	OFF
				5/28/16	OFF	OFF	OFF	OFF	OFF	OFF	OFF
PDI-811-2	≤ 2.0 & > 0' in. wc	5/29/16	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
		5/30/16	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
PDI-811-3	≤ 2.0 & > 0' in. wc	5/23/16	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
		5/24/16	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
OC Operator Review and Page Count Complete (Initials)				0930	0910	0905	0855	0805	0705	0740	

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: 5/29/16 Time: 0805 Reviewed by: \_\_\_\_\_

Comments: \_\_\_\_\_

On-duty Supervisor: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

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

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																					
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.												
4.1.1.7	Vault re-circulation filter plenum (HVP-811) AP	PDI-840-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	5/23/16	Mon.	APM	5/24/16	Tue.	APM	5/25/16	Wed.	APM	5/26/16	Thu.	APM	5/27/16	Fri.	APM	5/28/16	Sat.	APM	5/29/16	Sun.	APM	
		PDI-840-2	≤ 2.0 &gt; 0 in <sup>1</sup> . wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-840-3	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46
		PDI-841-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.56	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57
		PDI-841-3	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
	200 area re-circulation filter plenum (HVP-801) AP	PDI-831-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	
		PDI-831-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	
		PDI-831-3	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	
		PDI-832-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.34	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	
		PDI-832-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	.67	
		PDI-832-3	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61
4.1.3.4	North Bleed off filter plenum (FF-820A) AP	PDI-807-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12		
		PDI-807-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.40	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	
		PDI-807-3	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.48	.49	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	
4.1.3.4	North Bleed off filter plenum (FF-820B) AP	PDI-809-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
		PDI-809-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
41.3.4	North Basement exhaust filter plenum (FF-828) AP	1PDI-829-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	5/23/16	.16	.16	.16	.16	.16	.16	.16
			PDI-829-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.36	.36	.37	.36	.36	.36	.36
		PDI-829-3	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.30	.30	.30	.30	.30	.30	.30	
			1PDI-833-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.07	.07	.07	.07	.07	.07	
		PDI-833-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.49	.49	.49	.49	.49	.49		
			PDI-833-3	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.40	.40	.40	.40	.40		
		1PDI-835-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.17	.17	.17	.17	.17	.17		
			PDI-835-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.45	.43	.43	.43	.43	.44	
		PDI-835-3	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.39	.39	.39	.39	.39	.39		
			1PDI-815-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.21	.20	.20	.20	.20	.20	
41.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.49	.49	.49	.49	.50	.50		
			PDI-815-4	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.44	.44	.44	.44	.44		
		PDI-815-5	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.45	.45	.45	.45	.45	.45		
			1PDI-816-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-816-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY		
			PDI-816-4	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY		
		PDI-816-5	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY		

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

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) AP	PDI-812-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	5/23/16	5/24/16	5/25/16	5/26/16	5/27/16	5/28/16	5/29/16	
				STBY	STBY	STBY	STBY	STBY	STBY	STBY	
				STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
				STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-3	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
				STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-4	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
				STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-5	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) AP	PDI-813-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	5/23/16	5/24/16	5/25/16	5/26/16	5/27/16	5/28/16	5/29/16	
				.12	.12	.12	.12	.12	.12	.12	
				.31	.30	.30	.31	.31	.31	.31	
		PDI-813-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.23	.23	.23	.23	.23	.23	.23	
				.35	.34	.34	.34	.34	.34	.34	
		PDI-813-4	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.47	.47	.46	.47	.47	.47	.47	
				.02	.02	.02	.02	.02	.02	.02	
		PDI-813-5	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.30	.30	.30	.30	.30	.30	.30	
				.32	.33	.33	.33	.33	.32	.33	
		PDI-865-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.10	.10	.10	.10	.10	.10	.10	
4.1.3.4	FFIT supply filter plenum (HVP-863) AP	PDI-863-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc	.29	.29	.29	.30	.29	.29	.29	
				.29	.29	.29	.30	.29	.29	.29	
				.29	.29	.29	.30	.29	.29	.29	
				.29	.29	.29	.30	.29	.29	.29	
				.29	.29	.29	.30	.29	.29	.29	
				.29	.29	.29	.30	.29	.29	.29	
				.29	.29	.29	.30	.29	.29	.29	
				.29	.29	.29	.30	.29	.29	.29	
				.29	.29	.29	.30	.29	.29	.29	
				.29	.29	.29	.30	.29	.29	.29	



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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS																				
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.											
41.3.4	North Basement supply filter plenum (11VP-840) AP	PDI-857-2	≤ 2.0 & > 0' in. wc	5/23/16	Mon.	gwr	5/24/16	Tue.	gwr	5/25/16	Wed.	gwr	5/26/16	Thu.	gwr	5/27/16	Fri.	gwr	5/28/16	Sat.	gwr	5/29/16	Sun.	gwr
				5/23/16	Mon.	.47	5/24/16	Tue.	.46	5/25/16	Wed.	.46	5/26/16	Thu.	.46	5/27/16	Fri.	.44	5/28/16	Sat.	.44	5/29/16	Sun.	.44
41.3.4	North corridor supply filter plenum (11VP-809) AP	PDI-856-1	≤ 2.0 & > 0' in. wc	5/23/16	Mon.	.05	5/24/16	Tue.	.05	5/25/16	Wed.	.05	5/26/16	Thu.	.05	5/27/16	Fri.	.05	5/28/16	Sat.	.05	5/29/16	Sun.	.05
				5/23/16	Mon.	.51	5/24/16	Tue.	.51	5/25/16	Wed.	.51	5/26/16	Thu.	.51	5/27/16	Fri.	.51	5/28/16	Sat.	.51	5/29/16	Sun.	.51
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	5/23/16	Mon.	SAT	5/24/16	Tue.	SAT	5/25/16	Wed.	SAT	5/26/16	Thu.	SAT	5/27/16	Fri.	SAT	5/28/16	Sat.	SAT	5/29/16	Sun.	SAT
				5/23/16	Mon.	0.902	5/24/16	Tue.	0.900	5/25/16	Wed.	0.855	5/26/16	Thu.	0.840	5/27/16	Fri.	0.750	5/28/16	Sat.	0.805	5/29/16	Sun.	0.755

OC Operator Review and Page Count Complete (initials)  
 Non TSR requirement  
 Note: SR 4.1.3.4 applies during mode 1 and mode 2.  
 Completed by: *[Signature]* Date: 5/25/16 Time: 0255 Reviewed by: \_\_\_\_\_  
 Comments: \_\_\_\_\_

On-duty Supervisor \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**ATTACHMENT A: Per Shift Surveillance Rounds [UFT]**  
(Page 1 of 3)

SRS	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																	
			Date: 3/1 Monday		Date: 3/1 Tuesday		Date: 3/1 Wednesday		Date: 3/1 Thursday		Date: 3/1 Friday		Date: 3/1 Saturday		Date: 3/1 Sunday					
			Weekday:	Shift:	Weekday:	Shift:	Weekday:	Shift:	Weekday:	Shift:	Weekday:	Shift:	Weekday:	Shift:	Weekday:	Shift:				
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤1.0 in. wc <sup>1</sup>																	
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤1.0 in. wc <sup>1</sup>																	
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤1.0 in. wc <sup>1</sup>																	
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤1.0 in. wc <sup>1</sup>																	
	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤0.05 in. wc <sup>1</sup>																	
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤0.05 in. wc <sup>1</sup>																	
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤0.05 in. wc <sup>1</sup>																	
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤0.05 in. wc <sup>1</sup>																	
	4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	IFT Facility AP	PDI-865-4 or PDI-865-5	≤0.05 in. wc																
		North basement AP	PDI-804-1 or PDI-804-2	<0.00 in. wc																
South basement AP		PDI-854-1 or PDI-854-2	<0.00 in. wc																	
4.1.1.3 4.1.2.3 <sup>2</sup>	IRT Tunnel AP	PDT-901 or PDI-901	<0.00 in. wc																	

**ATTACHMENT A: Per Shift Surveillance Rounds [UFT]**

(Page 2 of 3)

SRS	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS																
				Sat. / Unsat. (circle one)																
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.										
4.1.1.6	200 area re-circulation fan/plenum	FIR-801 Icon red and PDI-831 AP >.050 or FIR-802 Icon red and PDI-832 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
	100 area re-circulation fan/plenum	FIR-803 Icon red and PDI-833 AP >.050 or FIR-804 Icon red and PDI-834 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	300 area re-circulation fan/plenum	FIR-805 Icon red and PDI-836 AP >.050 or FIR-806 Icon red and PDI-837 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
4.1.1.6	400 area re-circulation fan/plenum	FIR-807 Icon red and PDI-838 AP >.050 or FIR-808 Icon red and PDI-839 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	Vault re-circulation fan/plenum	FIR-811 Icon red and PDI-840 AP >.050 or FIR-812 Icon red and PDI-841 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
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:	3/1/16	3/1/16														
				Weekday:	Mon.	Tue.														
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:																



ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(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:	9/30/2016		9/30/2016														
	Weekday:	Mon		Tue														
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
	Initials:	A		B		C												

SRS	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS																
					Sat. / Unsat. (circle one)																
4.1.1.4 < laboratory AP's header AP's < basement AP's for areas 100, 200, 300 and 400	Glovebox exhaust header AP's	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	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	Unsat	Unsat
					Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	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	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	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	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
	400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	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	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
Completion Time				0722	1930	0715	1931														

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

Completed by:  Date: 9/30/2016 Time: 1931  
 Reviewed by:  On-duty Supervisor Date: 9/30/2016 Time: 1530

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Acceptance Criteria											
		Date:	Weekday:	Initials:	SURVEILLANCE RESULTS (percentage)								
		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.					
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0									
	CP-305-H (LED Reading)	Record Calculated Value	0.0	0.0									
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	$\geq -0.1$ ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
	Completion Time:		0818	0755									

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	PT	AM						
4134	South basement supply filter plenum (HVP-841) AP	PDI-894-1	<2.0 & > 0' in. wc	.05	.04							
		PDI-894-2	<2.0 & > 0' in. wc	.49	.49							
4134	South Corridor supply (HVP-810) AP	PDI-895-1	<2.0 & > 0' in. wc	.06	.06							
		PDI-895-2	<2.0 & > 0' in. wc	.61	.60							
4134	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	<2.0 & > 0' in. wc	.28	.29							
		PDI-817-2	<2.0 & > 0' in. wc	.30	.30							
4134	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-817-4	<2.0 & > 0' in. wc	.31	.31							
		PDI-817-5	<2.0 & > 0' in. wc	.30	.30							
4134	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	<2.0 & > 0' in. wc	.50	.49							
		PDI-819-3	<2.0 & > 0' in. wc	.50	.50							
4134	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-1	<2.0 & > 0' in. wc	.41	.42							
		PDI-818-2	<2.0 & > 0' in. wc	STBY	STBY							
4134	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	<2.0 & > 0' in. wc	STBY	STBY							
		PDI-821-3	<2.0 & > 0' in. wc	STBY	STBY							
4134	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-4	<2.0 & > 0' in. wc	STBY	STBY							

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

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
				Initials:	PT	AM											
4134	400 area glovebox exhaust filter plenum (PF856) AP	PDI-822-1	<2.0 & > 0' in. wc	5-30-16	5/31/16												
				1.01	1.01												
		PDI-822-2	<2.0 & > 0' in. wc	.51	.51												
				PDI-822-4	<2.0 & > 0' in. wc	.49	.48										
		PDI-822-5	<2.0 & > 0' in. wc	.50	.50												
				PDI-823-1	<2.0 & > 0' in. wc	STBY	STBY										
		PDI-823-2	<2.0 & > 0' in. wc	STBY	STBY												
				PDI-823-4	<2.0 & > 0' in. wc	STBY	STBY										
		PDI-823-5	<2.0 & > 0' in. wc	STBY	STBY												
				PDI-830-1	<2.0 & > 0' in. wc	.71	.71										
4134	South Basement exhaust filter plenum (PF-829) AP	PDI-830-2	<2.0 & > 0' in. wc	.22	.22												
				PDI-830-3	<2.0 & > 0' in. wc	.28	.28										
		PDI-836-1	<2.0 & > 0' in. wc	.07	.07												
				PDI-836-2	<2.0 & > 0' in. wc	.69	.68										
		PDI-836-3	<2.0 & > 0' in. wc	.52	.52												
				PDI-837-1	<2.0 & > 0' in. wc	.38	.52										
		PDI-837-2	<2.0 & > 0' in. wc	.52	.37												
				PDI-837-3	<2.0 & > 0' in. wc	.41	.41										
		4117	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-1	<2.0 & > 0' in. wc	.38	.52										
						PDI-837-2	<2.0 & > 0' in. wc	.52	.37								
PDI-837-3	<2.0 & > 0' in. wc			.41	.41												

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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (In. wc)								
				Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:								
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	<sup>1</sup> PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	5.30-16	5/31/16							
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc	.51	.50							
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc	.63	.63							
	400 area re-circulation filter plenum (HVP-808) AP	<sup>1</sup> PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc	.45	.45							
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc	.58	.58							
		PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc	.61	.61							
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	<sup>1</sup> PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc	.14	.14							
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc	.45	.44							
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.42							
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	<sup>1</sup> PDI-811-1	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF							
		PDI-811-2	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF							
		PDI-811-3	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF							
OC Operator Review and Page Count Complete (initials)				Completion Time	0804	0815						

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: 5/31/16 Time: 0815 Reviewed by: *[Signature]*

On-duty Supervisor

Date: 5/31/16 Time: 1530

Comments



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

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:						
				5-30-16	Mon	PT	Tue.	Tue.	Wed.	Thu.	Fri.	Sat.
411.7	Vault re-circulation Filter plenum (HVP-811) ΔP	<sup>1</sup> PDI-840-1	<2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY						
		PDI-840-2	<2.0 & > 0 in <sup>1</sup> wc		STBY	STBY						
		PDI-840-3	<2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY						
		<sup>1</sup> PDI-841-1	<2.0 & > 0 <sup>1</sup> in. wc		.47	.47						
		PDI-841-2	<2.0 & > 0 <sup>1</sup> in. wc		.58	.58						
		PDI-841-3	<2.0 & > 0 <sup>1</sup> in. wc		.51	.51						
	200 area re-circulation Filter plenum (HVP-801) ΔP	<sup>1</sup> PDI-831-1	<2.0 & > 0 <sup>1</sup> in. wc		.34	.33						
		PDI-831-2	<2.0 & > 0 <sup>1</sup> in. wc		.45	.46						
		PDI-831-3	<2.0 & > 0 <sup>1</sup> in. wc		.39	.39						
		<sup>1</sup> PDI-832-1	<2.0 & > 0 <sup>1</sup> in. wc		.35	.35						
		PDI-832-2	<2.0 & > 0 <sup>1</sup> in. wc		.69	.68						
		PDI-832-3	<2.0 & > 0 <sup>1</sup> in. wc		.61	.61						
413.4	North Bleed off Filter plenum (FF-820A) ΔP	<sup>1</sup> PDI-807-1	<2.0 & > 0 <sup>1</sup> in. wc		.12	.12						
		PDI-807-2	<2.0 & > 0 <sup>1</sup> in. wc		.50	.49						
		PDI-807-3	<2.0 & > 0 <sup>1</sup> in. wc		.49	.49						
413.4	North Bleed off Filter plenum (FF-820B) ΔP	<sup>1</sup> PDI-809-1	<2.0 & > 0 <sup>1</sup> in. wc		OFF	OFF						
		PDI-809-2	<2.0 & > 0 <sup>1</sup> in. wc		OFF	OFF						
		PDI-809-3	<2.0 & > 0 <sup>1</sup> in. wc		OFF	OFF						

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				5-30-16	5/31/16	PT		AW					
41.3.4	North Basement exhaust filter plenum (FF-828) AP	1PDI-829-1	<2.0 & > 0' in. wc	.16	.16								
		PDI-829-2	<2.0 & > 0' in. wc	.37	.37								
		PDI-829-3	<2.0 & > 0' in. wc	.30	.30								
		1PDI-833-1	<2.0 & > 0' in. wc	.07	.07								
		PDI-833-2	<2.0 & > 0' in. wc	.49	.49								
		PDI-833-3	<2.0 & > 0' in. wc	.40	.40								
41.1.7	100 area re-circulation filter plenum (HVP-803) AP	1PDI-835-1	<2.0 & > 0' in. wc	.17	.12								
		PDI-835-2	<2.0 & > 0' in. wc	.42	.42								
		PDI-835-3	<2.0 & > 0' in. wc	.39	.39								
		1PDI-815-1	<2.0 & > 0' in. wc	.21	.21								
		PDI-815-2	<2.0 & > 0' in. wc	.48	.49								
		PDI-815-4	<2.0 & > 0' in. wc	.42	.44								
41.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-5	<2.0 & > 0' in. wc	.45	.45								
		1PDI-816-1	<2.0 & > 0' in. wc	STBY	STBY								
		PDI-816-2	<2.0 & > 0' in. wc	STBY	STBY								
		PDI-816-4	<2.0 & > 0' in. wc	STBY	STBY								
		PDI-816-5	<2.0 & > 0' in. wc	STBY	STBY								
		41.3.4	100 area glovebox exhaust filter plenum (FF853) AP										

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
41.3.4	200 area glovebox exhaust filter plenum (FF850) AP	PDI-812-1	<2.0 &gt; 0' in. wc	5-30-16	Mon.	PT							
		PDI-812-2	<2.0 &gt; 0' in. wc	5/31/16	Tue.	PM							
		PDI-812-3	<2.0 &gt; 0' in. wc										
		PDI-812-4	<2.0 &gt; 0' in. wc										
		PDI-812-5	<2.0 &gt; 0' in. wc										
41.3.4	200 area glovebox exhaust filter plenum (FF851) AP	PDI-813-1	<2.0 &gt; 0' in. wc										
		PDI-813-2	<2.0 &gt; 0' in. wc										
		PDI-813-3	<2.0 &gt; 0' in. wc										
		PDI-813-4	<2.0 &gt; 0' in. wc										
		PDI-813-5	<2.0 &gt; 0' in. wc										
41.3.4	FFIT exhaust filter plenum (FF-865) AP	PDI-865-1	<2.0 &gt; 0' in. wc										
		PDI-865-2	<2.0 &gt; 0' in. wc										
		PDI-865-3	<2.0 &gt; 0' in. wc										
41.3.4	FFIT supply filter plenum (HV-P-863) AP	PDI-863-1	<2.0 &gt; 0' in. wc										
		PDI-863-2	<2.0 &gt; 0' in. wc										

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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS								
				Date:	Monday:	Tue:	Wed:	Thu:	Fri:	Sat:	Sun:	
4134	North Basement supply filter plenum (11VP-840) AP	PDI-857-1	≤ 2.0 & > 0' in. wc	5-30-16	5/31/16							
4134	North corridor supply filter plenum (11VP-809) AP	PDI-856-1	≤ 2.0 & > 0' in. wc	.12	.12							
4134	Combustible exclusion area around basement exhaust fans FER28, FER29 and bleed-off fans FER20A, FER20B, FER20C, FER22A, FER22B, FER22C	PDI-856-2	≤ 2.0 & > 0' in. wc	.45	.45							
4322	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	.05	.05							
OC Operator Review and Page Count Complete (initials)				0 lb/ft <sup>3</sup> 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	5/31	5/31						
Non TSR requirement				Completion time	0818	0818						
Note: SR 4.1.3.4 applies during mode 1 and mode 2.				OC Operator Review and Page Count Complete (initials)	AS	AS						
Completed by: <i>[Signature]</i>				Date: 5/31/16	Time: 0806	Reviewed by: <i>[Signature]</i>	Date: 5/31/16	Time: 1530				
Comments:				On-duty Supervisor								

June

**Attachment B, Surveillance Training Checklist**

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TASS-STP-004 R 17
Date of issue:	6/1/16
Working copy issued to:	A. SAURIGUE
Working copy issued by:	R. PRICE
Certified Operations Center Operator (OCO)	

**OC Reviews Complete and TSR Status Board Updated**


1
7/7/16

OCO Signature
Date

**Training Checklist:**

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
J. FRANK	APJ	6/1/16
D. HEINTSCHEL		
R. HOHNER	APJ	6/1/16
T. LANGWORTHY	ARJ	↓
J. MARTINEZ	APJ	
A. SANCHEZ	APJ	
AUGUSTINE SANCHEZ	APJ	
P. TRUJILLO	APJ	
R. BRISCOE	APJ	
B. CHANCE	AN	

Procedure is the current revision listed in Documentum:  Yes  Documentum Unavailable

Performance Type:  Scheduled  Partial  Other *If partial or other list reason in Comments below*

Comments: (Document TSR Status Board tracking date here if different from completion date.)

Track	7/1/16


TA55-STP-002, R12

Control and Execution of TA-55 Safety System LCOs and Surveillances

Page 21 of 29

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

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
A. DUNSEITH	ARJ	6/1/16
J. LOVATO	ARJ	↓
R. LUM	ARJ	
A. ORTIZ	ARJ	
R. PRICE	ARJ	
F. SEYBERT	ARJ	
J. SMELTZ	ARJ	6/1/16
M. IRISH		
K. BAILEY		
A. HERRERA		6/2/16
A. JAURIGUE	ARJ	6/1/16
R. TARR	ARJ	6/1/16
B. FORDHAM	ARJ	6/1/16

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

TA55-Sir-004\_R17

Note	Date:	Weekday:		Tue.		Mon.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ 1.0 in. wc <sup>1</sup>	-2.00	1.99	2.01	1.99	2.00	1.99	-1.99	1.99	2.00	1.99	-1.99	1.99	2.00	1.99
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ 1.0 in. wc <sup>1</sup>	-1.92	1.90	1.93	1.90	1.92	1.90	-1.90	1.94	1.93	1.92	-1.94	1.93	1.91	1.91
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ 1.0 in. wc <sup>1</sup>	-1.99	1.90	1.96	1.90	1.99	1.90	-1.99	1.96	1.99	1.99	-1.99	1.99	1.98	1.98
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ 1.0 in. wc <sup>1</sup>	-1.97	1.90	1.97	1.90	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 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ 0.05 in. wc <sup>1</sup>	-2.1	1.90	1.90	1.90	2.1	1.90	-2.1	1.90	2.1	1.90	-2.1	1.90	2.1	1.90
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ 0.05 in. wc <sup>1</sup>	-2.25	1.90	1.90	1.90	2.25	1.90	-2.25	1.90	2.25	1.90	-2.25	1.90	2.25	1.90
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ 0.05 in. wc <sup>1</sup>	-2.20	1.90	1.90	1.90	2.20	1.90	-2.20	1.90	2.20	1.90	-2.20	1.90	2.20	1.90
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ 0.05 in. wc <sup>1</sup>	-2.20	1.90	1.90	1.90	2.20	1.90	-2.20	1.90	2.20	1.90	-2.20	1.90	2.20	1.90
4.1.1.3 4.1.2.3 <sup>2</sup>	IFT Facility AP	PDI-865-4 or PDI-865-5	≤ 0.05 in. wc	-1.8	1.90	1.90	1.90	1.9	1.90	-1.8	1.90	1.9	1.9	-1.8	1.90	1.9	1.9
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-0.9	1.90	1.90	1.90	1.0	1.90	-0.9	1.90	1.0	1.0	-0.9	1.90	1.0	1.0
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-1.9	1.90	1.90	1.90	1.0	1.90	-1.9	1.90	1.0	1.0	-1.9	1.90	1.0	1.0
	IRT Tunnel AP	PDT-901 or PDI-901	< 0.00 in. wc	-0.89	1.90	1.90	1.90	1.0	1.90	-0.89	1.90	1.0	1.0	-0.89	1.90	1.0	1.0



**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS									
				Sat. / Unsat. (circle one)									
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:	6-1-16	6/2/16	6/3/16	6/4/16	6/5/16				
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	
				Initials:			ell	P	b				
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	At least one fan/plenum is in service	Sat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050	At least one fan/plenum is in service	Sat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	400 area re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	Sat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

TA55-SIG-004, R17

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS																	
					Sat. / Unsat. (circle one)																	
					Mon. AM	Mon. PM	Tue. AM	Tue. PM	Wed. AM	Wed. PM	Thu. AM	Thu. PM	Fri. AM	Fri. PM	Sat. AM	Sat. PM	Sun. AM	Sun. PM				
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			PDI-803-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-804-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
			PDI-802-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-804-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			PDI-853-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-854-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			PDI-852-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
					Completion Time																	

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

Completed by: [Signature] Date: 6/13/16 Time: 1932 Reviewed by: [Signature] Date: 6/13/16 Time: 0715  
 On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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).

SR	Description / Gauge	Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Weekday:							
		Initials:							
	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA			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
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value			0.0	0.0	0.0	0.0	0.0
		≥ -0.1; ≤ +0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
	Completion Time:				0815	0926	0830	0806	0751

Surveillance Rounds

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & >0' in. wc				5/11/16	6-2-16	6/3/16	6-4-16	6-5-16
		PDI-894-2	≤2.0 & >0' in. wc								
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & >0' in. wc				JN	PT	PF	PT	PT
		PDI-895-2	≤2.0 & >0' in. wc								
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤2.0 & >0' in. wc				.04	.04	.04	.04	.05
		PDI-817-2	≤2.0 & >0' in. wc				.49	.49	.50	.50	.50
		PDI-817-4	≤2.0 & >0' in. wc				.66	.06	.06	.06	.06
		PDI-817-5	≤2.0 & >0' in. wc				.60	.61	.61	.61	.61
		PDI-819-4	≤2.0 & >0' in. wc				.29	.28	.29	.28	.28
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-3	≤2.0 & >0' in. wc				.30	.31	.30	.31	.30
		PDI-818-1	≤2.0 & >0' in. wc				.32	.32	.32	.31	.31
		PDI-818-2	≤2.0 & >0' in. wc				.30	.30	.31	.30	.30
		PDI-818-4	≤2.0 & >0' in. wc				.50	.50	.49	.49	.49
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-818-5	≤2.0 & >0' in. wc				.49	.49	.50	.50	.50
		PDI-821-1	≤2.0 & >0' in. wc				.41	.41	.41	.41	.41
		PDI-821-3	≤2.0 & >0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & >0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & >0' in. wc				STBY	STBY	STBY	STBY	STBY

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	400 area glovebox exhaust filter plenum (FFR56) AP	'PDI-822-1	≤2.0 & > 0 <sup>1</sup> in. wc				6/1/16	6-2-16	6/9/16	6-4-16	6-5-16
		PDI-822-2	≤2.0 & > 0 <sup>1</sup> in. wc			.52	.51	.52	.52	.52	.51
		PDI-822-4	≤2.0 & > 0 <sup>1</sup> in. wc			.47	.47	.49	.48	.48	.48
		PDI-822-5	≤2.0 & > 0 <sup>1</sup> in. wc			.50	.50	.50	.50	.50	.50
		'PDI-823-1	≤2.0 & > 0 <sup>1</sup> in. wc			STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FFR57) AP	PDI-823-2	≤2.0 & > 0 <sup>1</sup> in. wc			STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc			STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0 <sup>1</sup> in. wc			STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-830-1	≤2.0 & > 0 <sup>1</sup> in. wc			.71	.72	.73	.74	.73	.73
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0 <sup>1</sup> in. wc			.24	.22	.25	.22	.22	.22
		PDI-830-3	≤2.0 & > 0 <sup>1</sup> in. wc			.28	.28	.28	.28	.28	.28
		'PDI-836-1	≤2.0 & > 0 <sup>1</sup> in. wc			.07	.07	.07	.07	.07	.07
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0 <sup>1</sup> in. wc			.67	.68	.68	.68	.68	.68
		PDI-836-3	≤2.0 & > 0 <sup>1</sup> in. wc			.54	.54	.55	.54	.54	.53
		'PDI-837-1	≤2.0 & > 0 <sup>1</sup> in. wc			.52	.52	.53	.53	.53	.53
		PDI-837-2	≤2.0 & > 0 <sup>1</sup> in. wc			.37	.37	.37	.38	.38	.38
		PDI-837-3	≤2.0 & > 0 <sup>1</sup> in. wc			.41	.41	.41	.41	.41	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	<2.0 & >0' in. wc				6/1/16 JM	6-2-16 PT	6/3/16 AF	6-4-16 PT	6-5-16 Sun.
		PDI-838-2	≤2.0 & >0' in. wc			0.51	0.50	0.51	0.50	0.51	0.50
		PDI-838-3	≤2.0 & >0' in. wc			0.62	0.44	0.64	0.44	0.63	0.45
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	<2.0 & >0' in. wc				0.58	0.61	0.59	0.59	0.61
		PDI-839-2	≤2.0 & >0' in. wc			0.14	0.14	0.14	0.14	0.14	0.14
		PDI-839-3	≤2.0 & >0' in. wc			0.46	0.48	0.45	0.42	0.42	0.41
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	<2.0 & >0' in. wc				OFF	OFF	OFF	OFF	OFF
		PDI-810-2	≤2.0 & >0' in. wc			0.45	0.44	0.42	0.41	0.41	0.41
		PDI-810-3	≤2.0 & >0' in. wc			OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	<2.0 & >0' in. wc				OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & >0' in. wc			0.90d	0.857	0.851	0.748	0.740	
		PDI-811-3	≤2.0 & >0' in. wc			APJ W	APJ W	APJ W	APJ W	APJ W	
OC Operator Review and Page Count Complete (initials)											

'Non 'ISR requirement:

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

Completed by: Paul Trujillo Date: 6-5-16 Time: 0740 Reviewed by: RSB Date: 6/13/16 Time: 0717

On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

TA55-Sr.-004, R17

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:			6/1/16	6-2-16	6/3/16	6-4-16	6-5-16	
			Initials:				gm	PT	BF	PT	PT	
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0 <sup>1</sup> in. wc				STBY	STBY	STBY	STBY	STBY	
		PDI-840-2	≤2.0 & > 0 <sup>1</sup> in. wc				STBY	STBY	STBY	STBY	STBY	
		PDI-840-3	≤2.0 & > 0 <sup>1</sup> in. wc				STBY	STBY	STBY	STBY	STBY	
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0 <sup>1</sup> in. wc				.47	.47	.47	.47	.47	.47
		PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc				.57	.58	.58	.58	.58	.58
		PDI-841-3	≤2.0 & > 0 <sup>1</sup> in. wc				.51	.51	.51	.51	.51	.51
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0 <sup>1</sup> in. wc				.33	.34	.34	.34	.34	.34
		PDI-831-2	≤2.0 & > 0 <sup>1</sup> in. wc				.46	.46	.46	.46	.46	.46
		PDI-831-3	≤2.0 & > 0 <sup>1</sup> in. wc				.40	.40	.40	.40	.40	.40
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0 <sup>1</sup> in. wc				.35	.35	.35	.35	.35	.35	
	PDI-832-2	≤2.0 & > 0 <sup>1</sup> in. wc				.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0 <sup>1</sup> in. wc				.61	.61	.61	.61	.61	.61	
4.1.3.4	North Bleed off filter plenum (PF-820A) ΔP	PDI-807-1	≤2.0 & > 0 <sup>1</sup> in. wc				.12	.12	.12	.12	.12	
		PDI-807-2	≤2.0 & > 0 <sup>1</sup> in. wc				.50	.50	.50	.50	.50	
		PDI-807-3	≤2.0 & > 0 <sup>1</sup> in. wc				.49	.49	.49	.49	.49	
4.1.3.4	North Bleed off filter plenum (PF-820B) ΔP	PDI-809-1	≤2.0 & > 0 <sup>1</sup> in. wc				OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0 <sup>1</sup> in. wc				OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0 <sup>1</sup> in. wc				OFF	OFF	OFF	OFF	OFF	

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

TA55-S...-004, R17

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:								
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & >0' in. wc				.16	.16	.16	.16	.16	.16
		PDI-829-2	≤2.0 & >0' in. wc			.36	.36	.37	.35	.36		
		PDI-829-3	≤2.0 & >0' in. wc			.30	.30	.30	.30	.30	.30	.30
		PDI-833-1	≤2.0 & >0' in. wc			.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤2.0 & >0' in. wc			.49	.49	.50	.50	.50	.50	.50
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & >0' in. wc			.40	.40	.40	.40	.40	.40	.40
		PDI-835-1	≤2.0 & >0' in. wc			.17	.17	.17	.17	.17	.17	.17
		PDI-835-2	≤2.0 & >0' in. wc			.42	.42	.45	.44	.44	.43	.43
		PDI-835-3	≤2.0 & >0' in. wc			.39	.40	.40	.40	.40	.40	.40
		PDI-815-1	≤2.0 & >0' in. wc			.21	.21	.21	.21	.21	.21	.21
4.1.3.4	100 area glovebox exhaust filter plenum (FR852) AP	PDI-815-2	≤2.0 & >0' in. wc			.50	.49	.50	.49	.49	.49	.49
		PDI-815-4	≤2.0 & >0' in. wc			.44	.44	.41	.42	.42	.41	.41
		PDI-815-5	≤2.0 & >0' in. wc			.45	.45	.45	.45	.45	.45	.45
		PDI-816-1	≤2.0 & >0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & >0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FR853) AP	PDI-816-4	≤2.0 & >0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & >0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY



Surveillance Rounds

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS						
					(in. wc)						
Date:		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
Weekday:											
Initials:											
Acceptance Criteria											
4.1.3.4	200 area glovebox exhaust filter plenum (FF-850) AP	PDI-812-1	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-812-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-812-3	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-812-4	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-812-5	≤ 2.0 & > 0 <sup>1</sup> in. wc								
4.1.3.4	200 area glovebox exhaust filter plenum (FF-851) AP	PDI-813-1	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-813-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-813-3	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-813-4	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-813-5	≤ 2.0 & > 0 <sup>1</sup> in. wc								
4.1.3.4	IFT exhaust filter plenum (FF-865) AP	PDI-865-1	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-865-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-865-3	≤ 2.0 & > 0 <sup>1</sup> in. wc								
4.1.3.4	IFT supply filter plenum (IIVP-863) AP	PDI-863-1	≤ 2.0 & > 0 <sup>1</sup> in. wc								
		PDI-863-2	≤ 2.0 & > 0 <sup>1</sup> in. wc								

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filter plenum (HVP-840) AP	PDI-857-1	≤ 2.0 & > 0' in. wc				6/1/16 JMA	6-2-16 PT	6/3/16 AT	6-4-16 SAT	6-5-16 Sun.
4.1.3.4	North corridor supply filter plenum (HVP-809) AP	PDI-857-2	≤ 2.0 & > 0' in. wc								
NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤ 2.0 & > 0' in. wc								
		PDI-856-2	≤ 2.0 & > 0' in. wc								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)								
			0 lb/ft <sup>3</sup> 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								
OC Operator Review and Page Count Complete (initials)											
Non TSR requirement											
Note: SR 4.1.3.4 applies during mode 1 and mode 2.											
Completed by: <u>Paul Trujillo</u> Date: <u>6-5-16</u> Time: <u>07:40</u>											
Reviewed by: <u>RBB</u> Date: <u>6/13/16</u> Time: <u>07:50</u>											
On-duty Supervisor											
Comments:											

Completed by: Paul Trujillo Date: 6-5-16 Time: 07:40  
 Reviewed by: RBB Date: 6/13/16 Time: 07:50  
 On-duty Supervisor

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

Note	Date:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		Weekday:		Weekday:		Weekday:		Weekday:		Weekday:		Weekday:		Weekday:		
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	Initials:	AU		AU		AU		AU		AU		AU		AU		
		AU		AU		AU		AU		AU		AU		AU		
SRs	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)														
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP 100 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-814-1 or PDI-814-2	1.00	2.00	1.98	1.99	2.00	2.01	2.00	1.99	1.97	1.98	1.99	2.00	2.00	2.00
		≤-1.0 in. wc' PDI-820-1 or PDI-820-2	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.93	1.93	1.93	1.93
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area glovebox exhaust header ΔP 400 area laboratory exhaust header ΔP	≤-1.0 in. wc' PDI-870-1 or PDI-870-2	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99
		≤-1.0 in. wc' PDI-864-1 or PDI-864-2	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
4.1.1.3 4.1.2.3 <sup>2</sup>	200 area laboratory header ΔP 100 area laboratory header ΔP	≤-0.05 in. wc' PDI-803-1 or PDI-803-2	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
		≤-0.05 in. wc' PDI-802-1 or PDI-802-2	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
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area laboratory header ΔP 400 area laboratory header ΔP	≤-0.05 in. wc' PDI-853-1 or PDI-853-2	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
		≤-0.05 in. wc' PDI-852-1 or PDI-852-2	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
4.1.1.3 4.1.2.3 <sup>2</sup>	IFIT Facility AP North basement AP	≤-0.05 in. wc PDI-865-4 or PDI-865-5	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
		< 0.00 in. wc PDI-804-1 or PDI-804-2	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
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP IRT Tunnel ΔP	< 0.00 in. wc PDI-854-1 or PDI-854-2	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
		< 0.00 in. wc PDI-901 or PDI-901	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

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS													
				Sat. / Unsat. (circle one)													
4.1.1.6	Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDI's may be used if FCS is unavailable.	FR-801 Icon red and PDI-831 AP >.050 or FR-802 Icon red and PDI-832 AP >.050 FR-803 Icon red and PDI-833 AP >.050 or FR-804 Icon red and PDI-835 AP >.050 FR-805 Icon red and PDI-836 AP >.050 or FR-806 Icon red and PDI-837 AP >.050 FR-807 Icon red and PDI-838 AP >.050 or FR-808 Icon red and PDI-839 AP >.050 FR-811 Icon red and PDI-840 AP >.050 or FR-812 Icon red and PDI-841 AP >.050	At least one fan/plenum is in service	Date: 6-6-16	6/6/16	6/6/16	6-10-16										
				Weekday: Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				Shift: AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:													

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
					Sat. / Unsat. (circle one)							
					Mon	Tue	Wed	Thu	Fri	Sat	Sun	
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	6-6-16	6-7-16	6-8-16	6-9-16	6-10-16	6-11-16	6-12-16	
			PDI-803-2									
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	U	U	U	U	U	U	U	U
			PDI-802-2									
			PDI-804-2									
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
	PDI-853-2											
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
	PDI-852-2											
Completion Time				0130	0130	0730	0725	0730	1926	0730	1925	

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

Completed by: PP100 Date: 6/14/16 Time: 1925 Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 On-duty Supervisor

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	6/8/16	6/7/16	6/8/16	6/9/16	6/10/16	6/11/16	6/12/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	JL	AP	AP	JM	AP	MM	MM
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR	Description / Gauge								
	Flammable Gas Channel Check								
4.4.1.1	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
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:		0833	0830	0830	0820	0834	0755	0802

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	≤2.0 & > 0' in. wc	6/6/16	6/7/16	6/8/16	6/9/16	6/10/16	6/11/16	6/12/16	
		PDI-894-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	South Corridor supply (HVP-810) AP	'PDI-895-1	≤2.0 & > 0' in. wc	6/6/16	6/7/16	6/8/16	6/9/16	6/10/16	6/11/16	6/12/16	
		PDI-895-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1	≤2.0 & > 0' in. wc	6/6/16	6/7/16	6/8/16	6/9/16	6/10/16	6/11/16	6/12/16	
		PDI-817-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-817-4	≤2.0 & > 0' in. wc	6/6/16	6/7/16	6/8/16	6/9/16	6/10/16	6/11/16	6/12/16	
		PDI-817-5	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	'PDI-819-1	≤2.0 & > 0' in. wc	6/6/16	6/7/16	6/8/16	6/9/16	6/10/16	6/11/16	6/12/16	
		PDI-819-3	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-819-4	≤2.0 & > 0' in. wc	6/6/16	6/7/16	6/8/16	6/9/16	6/10/16	6/11/16	6/12/16	
		PDI-818-1	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	'PDI-818-2	≤2.0 & > 0' in. wc	6/6/16	6/7/16	6/8/16	6/9/16	6/10/16	6/11/16	6/12/16	
		PDI-818-4	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-818-5	≤2.0 & > 0' in. wc	6/6/16	6/7/16	6/8/16	6/9/16	6/10/16	6/11/16	6/12/16	
		PDI-821-1	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	'PDI-821-3	≤2.0 & > 0' in. wc	6/6/16	6/7/16	6/8/16	6/9/16	6/10/16	6/11/16	6/12/16	
		PDI-821-4	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Tue. 6/7/16	Wed. 6/8/16	Thu. 6/9/16	Fri. 6/10/16	Sat. 6/11/16	Sun. 6/12/16		
				Weekday:	Mon. 6/6/16	Tue. 6/7/16	Wed. 6/8/16	Thu. 6/9/16	Fri. 6/10/16	Sat. 6/11/16	Sun. 6/12/16	
				Initials:	QM	QM	QM	QM	QM	QM	QM	QM
4.1.3.4	400 area glovebox exhaust filter plenum (FFR56) AP	PDI-822-1	≤2.0 & > 0' in. wc	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
		PDI-822-2	≤2.0 & > 0' in. wc	.52	.52	.52	.52	.52	.52	.52	.52	.52
		PDI-822-4	≤2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.48	.48	.48	.48
		PDI-822-5	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-823-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FFR57) AP	PDI-823-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-830-1	≤2.0 & > 0' in. wc	.73	.73	.73	.73	.73	.73	.73	.73	.73
		PDI-830-2	≤2.0 & > 0' in. wc	.24	.24	.24	.24	.24	.24	.24	.24	.24
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-3	≤2.0 & > 0' in. wc	.27	.27	.27	.27	.27	.27	.27	.27	.27
		PDI-836-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07	
		PDI-836-2	≤2.0 & > 0' in. wc	.67	.67	.67	.67	.67	.67	.67	.67	
		PDI-836-3	≤2.0 & > 0' in. wc	.55	.54	.54	.54	.54	.54	.54	.54	
		PDI-837-1	≤2.0 & > 0' in. wc	.52	.53	.53	.53	.53	.53	.53	.53	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-837-2	≤2.0 & > 0' in. wc	.37	.37	.37	.37	.37	.37	.37	.37	
		PDI-837-3	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41		



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤ 2.0 & > 0' in. wc	5/6/16 Mon.	6/2/16 Tue.	6/8/16 Wed.	6/9/16 Thu.	6/10/16 Fri.	6/11/16 Sat.	6/12/16 Sun.
		PDI-838-2	≤ 2.0 & > 0' in. wc	51	51	51	51	51	51	51
		PDI-838-3	≤ 2.0 & > 0' in. wc	50	50	50	50	50	50	50
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤ 2.0 & > 0' in. wc	63	63	63	63	63	63	63
		PDI-839-2	≤ 2.0 & > 0' in. wc	44	44	44	44	44	44	44
		PDI-839-3	≤ 2.0 & > 0' in. wc	58	58	58	58	58	58	58
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤ 2.0 & > 0' in. wc	61	61	61	61	61	61	61
		PDI-810-2	≤ 2.0 & > 0' in. wc	14	14	14	14	14	14	14
		PDI-810-3	≤ 2.0 & > 0' in. wc	44	43	43	42	42	42	42
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤ 2.0 & > 0' in. wc	43	42	42	42	41	41	41
		PDI-811-2	≤ 2.0 & > 0' in. wc	off	off	off	off	off	off	off
		PDI-811-3	≤ 2.0 & > 0' in. wc	off	off	off	off	off	off	off
OC Operator Review and Page Count Complete (initials)				0915	0850	0910	0935	0900	0846	0850
				APB	APB	APB	APB	APB	APB	APB

'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: APB Date: 6/12/16 Time: 0850 Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

TA55-S...-004, R17

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)											
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
				Weekday:	Initials:										
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	6/6/16	STBY	6/7/16	STBY	6/8/16	STBY	6/9/16	STBY	6/10/16	STBY	6/11/16	STBY
		PDI-840-2	≤2.0 & > 0 in. wc	6/6/16	STBY	6/7/16	STBY	6/8/16	STBY	6/9/16	STBY	6/10/16	STBY	6/11/16	STBY
		PDI-840-3	≤2.0 & > 0' in. wc	6/6/16	STBY	6/7/16	STBY	6/8/16	STBY	6/9/16	STBY	6/10/16	STBY	6/11/16	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	6/6/16	.47	6/7/16	.47	6/8/16	.47	6/9/16	.47	6/10/16	.47	6/11/16	.47
		PDI-841-2	≤2.0 & > 0' in. wc	6/6/16	.58	6/7/16	.58	6/8/16	.58	6/9/16	.58	6/10/16	.58	6/11/16	.58
		PDI-841-3	≤2.0 & > 0' in. wc	6/6/16	.51	6/7/16	.51	6/8/16	.51	6/9/16	.51	6/10/16	.51	6/11/16	.51
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0' in. wc	6/6/16	.34	6/7/16	.34	6/8/16	.34	6/9/16	.34	6/10/16	.34	6/11/16	.34
		PDI-831-2	≤2.0 & > 0' in. wc	6/6/16	.46	6/7/16	.46	6/8/16	.46	6/9/16	.46	6/10/16	.46	6/11/16	.46
		PDI-831-3	≤2.0 & > 0' in. wc	6/6/16	.39	6/7/16	.39	6/8/16	.39	6/9/16	.39	6/10/16	.39	6/11/16	.39
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	6/6/16	.35	6/7/16	.35	6/8/16	.35	6/9/16	.35	6/10/16	.35	6/11/16	.35	
	PDI-832-2	≤2.0 & > 0' in. wc	6/6/16	.68	6/7/16	.68	6/8/16	.68	6/9/16	.68	6/10/16	.68	6/11/16	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	6/6/16	.61	6/7/16	.61	6/8/16	.61	6/9/16	.61	6/10/16	.61	6/11/16	.61	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	6/6/16	.12	6/7/16	.12	6/8/16	.12	6/9/16	.12	6/10/16	.12	6/11/16	.12
		PDI-807-2	≤2.0 & > 0' in. wc	6/6/16	.50	6/7/16	.50	6/8/16	.50	6/9/16	.50	6/10/16	.50	6/11/16	.50
		PDI-807-3	≤2.0 & > 0' in. wc	6/6/16	.48	6/7/16	.48	6/8/16	.48	6/9/16	.48	6/10/16	.48	6/11/16	.48
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	6/6/16	OFF	6/7/16	OFF	6/8/16	OFF	6/9/16	OFF	6/10/16	OFF	6/11/16	OFF
		PDI-809-2	≤2.0 & > 0' in. wc	6/6/16	OFF	6/7/16	OFF	6/8/16	OFF	6/9/16	OFF	6/10/16	OFF	6/11/16	OFF
		PDI-809-3	≤2.0 & > 0' in. wc	6/6/16	OFF	6/7/16	OFF	6/8/16	OFF	6/9/16	OFF	6/10/16	OFF	6/11/16	OFF

Surveillance Rounds

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement exhaust filter plenum (PF-828) AP	PDI-829-1	≤ 2.0 & > 0' in. wc	6/6/16	JR	JR	.16	.16	.16	.16	.16	.16
		PDI-829-2	≤ 2.0 & > 0' in. wc	6/7/16	JR	JR	.36	.36	.36	.36	.36	.36
		PDI-829-3	≤ 2.0 & > 0' in. wc	6/8/16	JR	JR	.30	.30	.30	.30	.30	.30
		PDI-833-1	≤ 2.0 & > 0' in. wc	6/9/16	JR	JR	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤ 2.0 & > 0' in. wc	6/10/16	JR	JR	.49	.49	.49	.49	.49	.49
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤ 2.0 & > 0' in. wc	6/6/16	JR	JR	.40	.40	.40	.40	.40	.40
		PDI-835-1	≤ 2.0 & > 0' in. wc	6/7/16	JR	JR	.16	.17	.17	.17	.17	.17
		PDI-835-2	≤ 2.0 & > 0' in. wc	6/8/16	JR	JR	.43	.43	.43	.43	.43	.43
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	≤ 2.0 & > 0' in. wc	6/9/16	JR	JR	.39	.39	.39	.39	.39	.39
		PDI-815-1	≤ 2.0 & > 0' in. wc	6/10/16	JR	JR	.20	.20	.20	.20	.20	.20
		PDI-815-2	≤ 2.0 & > 0' in. wc	6/6/16	JR	JR	.49	.49	.49	.49	.49	.49
		PDI-815-4	≤ 2.0 & > 0' in. wc	6/7/16	JR	JR	.44	.43	.43	.43	.43	.43
		PDI-815-5	≤ 2.0 & > 0' in. wc	6/8/16	JR	JR	.45	.45	.45	.44	.44	.44
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤ 2.0 & > 0' in. wc	6/9/16	JR	JR	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	≤ 2.0 & > 0' in. wc	6/10/16	JR	JR	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	≤ 2.0 & > 0' in. wc	6/6/16	JR	JR	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤ 2.0 & > 0' in. wc	6/7/16	JR	JR	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤ 2.0 & > 0' in. wc	6/8/16	JR	JR	STBY	STBY	STBY	STBY	STBY	STBY

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & >0' in. wc	6/6/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & >0' in. wc	6/6/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & >0' in. wc	6/6/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & >0' in. wc	6/6/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & >0' in. wc	6/6/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & >0' in. wc	6/7/16	.12	.12	.12	.12	.12	.12	.12	.12
		PDI-813-2	≤2.0 & >0' in. wc	6/7/16	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-813-3	≤2.0 & >0' in. wc	6/7/16	.22	.22	.22	.22	.22	.22	.22	.22
		PDI-813-4	≤2.0 & >0' in. wc	6/7/16	.32	.32	.34	.34	.34	.34	.32	.33
		PDI-813-5	≤2.0 & >0' in. wc	6/7/16	.47	.45	.46	.46	.46	.46	.45	.45
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & >0' in. wc	6/8/16	.02	.02	.02	.02	.02	.02	.02	.02
		PDI-865-2	≤2.0 & >0' in. wc	6/8/16	.30	.29	.29	.29	.29	.29	.29	.28
		PDI-865-3	≤2.0 & >0' in. wc	6/8/16	.33	.33	.34	.34	.34	.34	.32	.32
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & >0' in. wc	6/8/16	.10	.10	.10	.10	.10	.10	.10	.10
		PDI-863-2	≤2.0 & >0' in. wc	6/8/16	.29	.29	.30	.30	.30	.30	.29	.29

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS																					
				Date:	Weekday:	Initials:																			
4.1.3.4	North Basement supply filter plenum (IIVP-840) AP	'PDI-857-1	≤ 2.0 & > 0' in. wc	6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
4.1.3.4	North corridor supply filter plenum (IIVP-809) AP	'PDI-856-1	≤ 2.0 & > 0' in. wc	6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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	6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
				6/6/16	Mon.	JM	6/7/16	Tue.	JM	6/8/16	Wed.	JM	6/9/16	Thu.	JM	6/10/16	Fri.	JM	6/11/16	Sat.	JM	6/12/16	Sun.	JM	
Completion time				0900	0845	0900	0915	0840	0828	0839	0840	0828	0839	0840	0828	0839	0840	0828	0839	0840	0828	0839	0840	0828	0839
OC Operator Review and Page Count Complete (initials)				ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	ATD P	

1 Non TSR requirement

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

Completed by Michael M. Jones Date 6/10/16 Time 16:39 Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

On-duty Supervisor

Comments:

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**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria (in. wc)	SURVEILLANCE RESULTS															
			Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	≤ -1.0 in. wc <sup>1</sup>	1.98	1.98	1.99	1.99	1.99	1.98	1.98	1.99	1.99	1.98	1.98	1.98	1.98	1.99	1.99	
	100 area glovebox exhaust header AP	≤ -1.0 in. wc <sup>1</sup>	1.93	1.93	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	
	300 area glovebox exhaust header AP	≤ -1.0 in. wc <sup>1</sup>	1.97	1.97	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 AP	≤ -1.0 in. wc <sup>1</sup>	1.95	1.95	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	≤ -0.05 in. wc <sup>1</sup>	1.18	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	
	100 area laboratory header AP	≤ -0.05 in. wc <sup>1</sup>	1.24	1.23	1.22	1.22	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	
	300 area laboratory header AP	≤ -0.05 in. wc <sup>1</sup>	1.19	1.19	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
	400 area laboratory header AP	≤ -0.05 in. wc <sup>1</sup>	1.19	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
4.1.1.3 4.1.2.3 <sup>2</sup>	IRT Facility AP	≤ -0.05 in. wc	1.19	1.18	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
	North basement AP	< 0.00 in. wc	1.09	1.10	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
	South basement AP	< 0.00 in. wc	1.09	1.10	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
	IRT Tunnel AP	< 0.00 in. wc	1.09	1.09	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

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 PDTI-831 AP >.050 or FR-802 Icon red and PDTI-832 AP >.050	At least one fan/plenum is in service	13 Jan / Jan	14 Jan / Jan	15 Jan / Jan	16 Jan / Jan	17 Jan / Jan	18 Jan / Jan	19 Jan / Jan	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				AM	PM	AM	PM	AM	PM	AM	PM
				8	8	U	U	K	U	U	U
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
4.1.1.6	100 area re-circulation fan/plenum	FR-803 Icon red and PDTI-833 AP >.050 or FR-804 Icon red and PDTI-835 AP >.050	At least one fan/plenum is in service	13 Jan / Jan	14 Jan / Jan	15 Jan / Jan	16 Jan / Jan	17 Jan / Jan	18 Jan / Jan	19 Jan / Jan	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				AM	PM	AM	PM	AM	PM	AM	PM
				8	8	U	U	K	U	U	U
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
4.1.1.6	300 area re-circulation fan/plenum	FR-805 Icon red and PDTI-836 AP >.050 or FR-806 Icon red and PDTI-837 AP >.050	At least one fan/plenum is in service	13 Jan / Jan	14 Jan / Jan	15 Jan / Jan	16 Jan / Jan	17 Jan / Jan	18 Jan / Jan	19 Jan / Jan	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				AM	PM	AM	PM	AM	PM	AM	PM
				8	8	U	U	K	U	U	U
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
4.1.1.6	400 area re-circulation fan/plenum	FR-807 Icon red and PDTI-838 AP >.050 or FR-808 Icon red and PDTI-839 AP >.050	At least one fan/plenum is in service	13 Jan / Jan	14 Jan / Jan	15 Jan / Jan	16 Jan / Jan	17 Jan / Jan	18 Jan / Jan	19 Jan / Jan	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				AM	PM	AM	PM	AM	PM	AM	PM
				8	8	U	U	K	U	U	U
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
4.1.1.6	Vault re-circulation fan/plenum	FR-811 Icon red and PDTI-840 AP >.050 or FR-812 Icon red and PDTI-841 AP >.050	At least one fan/plenum is in service	13 Jan / Jan	14 Jan / Jan	15 Jan / Jan	16 Jan / Jan	17 Jan / Jan	18 Jan / Jan	19 Jan / Jan	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				AM	PM	AM	PM	AM	PM	AM	PM
				8	8	U	U	K	U	U	U
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat./ Unsat. (circle one)													
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		Sun.						
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	13	14	6-15-16	06-16-16	17	18	19	18	19	18	19	18	19	
			PDI-803-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-804-2		PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	K	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	
			PDI-802-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
		PDI-853-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		PDI-854-2		PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	
		PDI-852-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
	400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	
		PDI-852-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		PDI-854-2		PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Completion Time		1926	1926	1922	1920	1920	1920	1920	1925	1916	1916	1916	1918			
				RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS			

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

Completed by: [Signature] Date: 6/20/16 Time: 0835  
 Reviewed by: [Signature] Date: 6/20/16 Time: 0835  
 On-duty Supervisor

Comments:



**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	6/13/16	6/14/16	6/15/16	6/16/16	6/17/16	6/18/16	6/19/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	JM	JM	JM	JM	BS	BF	[Signature]
		Acceptance Criterion	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge 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 $\geq -0.1$ ; $\leq +0.1$	0.0 Sat / Unsat.	0.0 Sat / Unsat.	0.0 Sat / Unsat.	0.0 Sat / Unsat.	0.0 Sat / Unsat.	0.0 Sat / Unsat.	0.0 Sat / Unsat.
Completion Time:			0815	0740	0825	0840	0749	0755	0750

Surveillance Rounds

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

(Page 2 of 4)

TA55-SIT-004, R17

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	6/13/16	6/14/16	6/15/16	6/16/16	6/17/16	6/18/16	6/19/16	
		PDI-894-2	≤2.0 & > 0' in. wc								
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & > 0' in. wc								
		PDI-895-2	≤2.0 & > 0' in. wc								
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤2.0 & > 0' in. wc								
		PDI-817-2	≤2.0 & > 0' in. wc								
		PDI-817-4	≤2.0 & > 0' in. wc								
		PDI-817-5	≤2.0 & > 0' in. wc								
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤2.0 & > 0' in. wc								
		PDI-819-3	≤2.0 & > 0' in. wc								
		PDI-819-4	≤2.0 & > 0' in. wc								
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-818-1	≤2.0 & > 0' in. wc								
		PDI-818-2	≤2.0 & > 0' in. wc								
		PDI-818-4	≤2.0 & > 0' in. wc								
		PDI-818-5	≤2.0 & > 0' in. wc								
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & > 0' in. wc								
		PDI-821-3	≤2.0 & > 0' in. wc								
		PDI-821-4	≤2.0 & > 0' in. wc								

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.02
		PDI-822-2	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.52	.53	.53	.53	.53	.52	.52	.52	.52
		PDI-822-4	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.48	.48	.48	.48	.48	.49	.49	.49	.49
		PDI-822-5	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.50	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-823-1	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-830-1	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.22	.21	.21	.21	.21	.21	.21	.21	.21
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.25	.24	.24	.24	.24	.22	.22	.22	
		PDI-830-3	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.28	.27	.28	.28	.28	.28	.28	.28	
		PDI-836-1	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.02	.07	.07	.07	.07	.07	.06	.06	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.69	.69	.69	.69	.69	.69	.69	.69	
		PDI-836-3	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.56	.56	.56	.56	.56	.56	.56	.56	
		PDI-837-1	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.55	.54	.55	.55	.55	.55	.55	.55	
		PDI-837-2	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.38	.38	.38	.38	.38	.39	.39	.39	
		PDI-837-3	≤2.0 & > 0 <sup>1</sup> in. wc	6/13/16	.41	.41	.41	.41	.41	.41	.41	.41	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday: Initials:	6/13/16 Mon.	6/14/16 Tue.	6/15/16 Wed.	6/16/16 Thu.	6/17/16 Fri.	6/18/16 Sat.	6/19/16 Sun.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	pm	.51	.51	.51	.51	.52	.51	.52
		PDI-838-2	≤2.0 & > 0' in. wc	pm	.51	.51	.51	.51	.51	.51	.51
		PDI-838-3	≤2.0 & > 0' in. wc	pm	.65	.65	.65	.65	.65	.64	.65
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	pm	.44	.44	.44	.44	.44	.44	.45
		PDI-839-2	≤2.0 & > 0' in. wc	pm	.56	.56	.56	.56	.55	.55	.55
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-839-3	≤2.0 & > 0' in. wc	pm	.61	.61	.61	.61	.61	.61	.61
		'PDI-810-1	≤2.0 & > 0' in. wc	pm	.14	.15	.15	.15	.15	.15	.15
		PDI-810-2	≤2.0 & > 0' in. wc	pm	.44	.50	.49	.49	.49	.49	.47
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-810-3	≤2.0 & > 0' in. wc	pm	.43	.49	.47	.48	.48	.48	.45
		'PDI-811-1	≤2.0 & > 0' in. wc	pm	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & > 0' in. wc	pm	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-3	≤2.0 & > 0' in. wc	pm	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		Completion Time			0858	0810	0855	0925	0808	0805	0805
OC Operator Review and Page Count Complete (initials)				pm	pm	pm	pm	pm	pm	pm	pm

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

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

Completed by: [Signature] Date: 6/17/16 Time: 0805 Reviewed by: [Signature] Date: 6/20/16 Time: 0838  
On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

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TA55-S11-004, R17

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday:	6/13/16 Mon.	6/14/16 Tue.	6/15/16 Wed.	6/16/16 Thu.	6/17/16 Fri.	6/18/16 Sat.	6/19/16 Sun.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0 <sup>1</sup> in. wc	gn	gn	gn	gn	gn	gn	gn	gn
		PDI-840-2	≤2.0 & > 0 in <sup>1</sup> . wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0 <sup>1</sup> in. wc	gn	gn	gn	gn	gn	gn	gn	gn
		PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc	.47	.47	.47	.47	.47	.47	.47	.47
		PDI-841-3	≤2.0 & > 0 <sup>1</sup> in. wc	.58	.58	.58	.58	.58	.58	.58	.58
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0 <sup>1</sup> in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-831-2	≤2.0 & > 0 <sup>1</sup> in. wc	.34	.34	.33	.34	.34	.34	.34	.34
		PDI-831-3	≤2.0 & > 0 <sup>1</sup> in. wc	.46	.46	.48	.48	.48	.49	.48	.48
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0 <sup>1</sup> in. wc	.39	.39	.40	.40	.40	.40	.40	.40	
	PDI-832-2	≤2.0 & > 0 <sup>1</sup> in. wc	.25	.35	.25	.35	.35	.36	.35	.35	
	PDI-832-3	≤2.0 & > 0 <sup>1</sup> in. wc	.68	.68	.68	.68	.68	.68	.68	.68	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0 <sup>1</sup> in. wc	.61	.61	.61	.61	.61	.61	.61	.61
		PDI-807-2	≤2.0 & > 0 <sup>1</sup> in. wc	.12	.12	.12	.11	.11	.11	.12	.12
		PDI-807-3	≤2.0 & > 0 <sup>1</sup> in. wc	.50	.50	.49	.49	.49	.50	.50	.49
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0 <sup>1</sup> in. wc	.48	.48	.48	.48	.48	.48	.48	.48
		PDI-809-2	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement exhaust filter plenum (PF-828) AP	PDI-829-1	≤ 2.0 & > 0' in. wc	6/13/16 Mon.	6/14/16 Tue.	6/15/16 Wed.	6/16/16 Thu.	6/17/16 Fri.	6/18/16 Sat.	6/19/16 Sun.
		PDI-829-2	≤ 2.0 & > 0' in. wc	gn	gn	gn	gn	gn	gn	gn
		PDI-829-3	≤ 2.0 & > 0' in. wc	.16	.16	.16	.16	.16	.16	.16
4.1.1.7	100 area re-circulation filter plenum (IIVP-803) AP	PDI-833-1	≤ 2.0 & > 0' in. wc	.36	.36	.36	.36	.36	.36	.36
		PDI-833-2	≤ 2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30
		PDI-833-3	≤ 2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07
		PDI-835-1	≤ 2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-835-2	≤ 2.0 & > 0' in. wc	.40	.40	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FFR52) AP	PDI-835-3	≤ 2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17
		PDI-815-1	≤ 2.0 & > 0' in. wc	.44	.44	.44	.44	.44	.44	.44
		PDI-815-2	≤ 2.0 & > 0' in. wc	.39	.39	.40	.40	.40	.40	.40
		PDI-815-3	≤ 2.0 & > 0' in. wc	.20	.20	.20	.20	.20	.20	.20
		PDI-815-4	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	100 area glovebox exhaust filter plenum (FFR53) AP	PDI-815-5	≤ 2.0 & > 0' in. wc	.43	.43	.43	.43	.43	.43	.43
		PDI-816-1	≤ 2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45
		PDI-816-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-3	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FFR53) AP	PDI-816-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SIRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:							
4.1.3.4	200 area glovebox exhaust filter plenum (FF-850) ΔP	PDI-812-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	JK	6/13/16	6/14/16	6/15/16	6/16/16	6/17/16	6/18/16	6/19/16	
		PDI-812-2	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-812-3	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-812-4	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-812-5	≤ 2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-813-2	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-813-3	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-813-4	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-813-5	≤ 2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-865-2	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-865-3	≤ 2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-863-2	≤ 2.0 & > 0 <sup>1</sup> in. wc									

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

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SIRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS						
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	North basement supply filter plenum (IIVP-840) AP	PDI-857-1	≤ 2.0 & > 0' in. wc	Jm	6/13/16	6/14/16	6/15/16	6/16/16	6/17/16	6/18/16	6/19/16
		PDI-857-2	≤ 2.0 & > 0' in. wc								
4.1.3.4	North corridor supply filter plenum (IIVP-809) AP	PDI-856-1	≤ 2.0 & > 0' in. wc	Jm							
		PDI-856-2	≤ 2.0 & > 0' in. wc								
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>2</sup> combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>2</sup> 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								
					0835	0822	0840	0925	0808	0830	0805
					OC Operator Review and Page Count Complete (initials)						

Non TSR requirement

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

Completed by: *[Signature]* Date: 6/19/16 Time: 0805 Reviewed by: *[Signature]* Date: 6/22/16 Time: 0839

On-duty Supervisor

Comments:



**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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SRs	Description	Gauge Acceptance Criteria (in. wc)	Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
																		Initials:
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	≤ -1.0 in. wc'	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
	100 area glovebox exhaust header AP	≤ -1.0 in. wc'	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
	300 area glovebox exhaust header AP	≤ -1.0 in. wc'	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
	400 area glovebox exhaust header AP	≤ -1.0 in. wc'	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
	200 area laboratory header AP	≤ -0.05 in. wc'	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
	100 area laboratory header AP	≤ -0.05 in. wc'	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area laboratory header AP	≤ -0.05 in. wc'	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
	400 area laboratory header AP	≤ -0.05 in. wc'	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
	IFT Facility AP	≤ -0.05 in. wc	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
4.1.1.3 4.1.2.3 <sup>2</sup>	North basement AP	< 0.00 in. wc	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
	South basement AP	< 0.00 in. wc	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16
	IRT Tunnel AP	< 0.00 in. wc	10/22/16	10/23/16	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16	11/04/16	11/05/16	11/06/16

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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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 AP > .050 or FR-802 Icon red and PDT-832 AP > .050	At least one fan/plenum is in service	Date:	6/20/16	6/21/16	6/22/16	6/23/16	6/24/16	6/25/16	6/26/16	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
				Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
				Shift:																		
				Initials:	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	
				Readings	FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .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
				Readings	FR-803 Icon red and PDT-833 AP > .050 or FR-804 Icon red and PDT-835 AP > .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
				Readings	FR-805 Icon red and PDT-836 AP > .050 or FR-806 Icon red and PDT-837 AP > .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
				Readings	FR-807 Icon red and PDT-838 AP > .050 or FR-808 Icon red and PDT-839 AP > .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
				Readings	FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .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

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS														
					Sat. / Unsat. (circle one)														
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
			PDI-803-2	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2	PDI-853-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2	PDI-854-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2	Completion Time															

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wc  
 Note: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with I.CO 3 I.2.

Completed by: af Date 6-26-16 Time 1930 Reviewed by: [Signature] Date: 6/26/16 Time: 0740  
 On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

		Date:	6/20/16	6/21/16	6/22/16	6/23/16	6/24/16	6/25/16	6-26-16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	AM	AM	AM	PT	PT	PT
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR	Description / Gauge								
	Flammable Gas Channel Check								
4.4.1.1	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
		$\geq -0.1$ ; $\leq +0.1$	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.
	Completion Time:	0750	0840	0820	0816	0740	0823	0810	

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

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SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)														
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				Weekday:	Initials:													
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	6/20/16	AM	6/21/16	AM	6/22/16	AM	6/23/16	AM	6/24/16	PT	6/25/16	PT	6/26/16	Sun.	
		PDI-894-2	≤2.0 & > 0' in. wc		.05	.50	.50	.05	.50	.50	.05	.50	.50	.05	.50	.50		
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & > 0' in. wc		.07	.07	.07	.07	.07	.07	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-895-2	≤2.0 & > 0' in. wc		.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤2.0 & > 0' in. wc		.26	STBY	STBY	STBY	STBY	.27	.28	.28	.28	.28	.28	.28	.28	.28
		PDI-817-2	≤2.0 & > 0' in. wc		.30	STBY	STBY	STBY	STBY	.30	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-817-4	≤2.0 & > 0' in. wc		.31	STBY	STBY	STBY	STBY	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0' in. wc		.29	STBY	STBY	STBY	STBY	.30	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-819-1	≤2.0 & > 0' in. wc		.49	STBY	STBY	STBY	STBY	.49	.49	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-3	≤2.0 & > 0' in. wc		.49	STBY	STBY	STBY	STBY	.49	.49	.49	.49	.49	.49	.49	.49	.49
		PDI-819-4	≤2.0 & > 0' in. wc		.61	STBY	STBY	STBY	STBY	.41	.41	.41	.41	.41	.41	.41	.41	
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-1	≤2.0 & > 0' in. wc		STBY	.35	.25	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-818-2	≤2.0 & > 0' in. wc		STBY	.30	.30	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-818-4	≤2.0 & > 0' in. wc		STBY	.33	.33	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-818-5	≤2.0 & > 0' in. wc		STBY	.35	.35	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-821-1	≤2.0 & > 0' in. wc		STBY	.48	.48	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	≤2.0 & > 0' in. wc		STBY	.51	.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-821-4	≤2.0 & > 0' in. wc		STBY	.44	.44	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday: Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	400 area glovebox exhaust filter plenum (FFR56) AP	PDI-822-1	≤2.0 & > 0 <sup>1</sup> in. wc	6/22/16 Mon. JM	6/23/16 Tue. JM	6/24/16 Wed. JM	6/23/16 Thu. JM	6-24-16 Fri. PT	6-25-16 Sat. PT	6-26-16 Sun. PT
		PDI-822-2	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	1.01	1.01	1.01	1.01
		PDI-822-4	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	.51	.51	.51	.51
		PDI-822-5	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	.46	.48	.48	.48
		PDI-823-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	.50	.50	.50	.50
4.1.3.4	400 area glovebox exhaust filter plenum (FFR57) AP	PDI-823-1	≤2.0 & > 0 <sup>1</sup> in. wc	.10	.13	.13	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0 <sup>1</sup> in. wc	.44	.49	.49	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc	.48	.50	.49	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0 <sup>1</sup> in. wc	.48	.51	.51	STBY	STBY	STBY	STBY
		PDI-830-1	≤2.0 & > 0 <sup>1</sup> in. wc	.72	.72	.72	.73	.72	.72	.72
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0 <sup>1</sup> in. wc	.25	.25	.24	.24	.23	.23	.23
		PDI-830-3	≤2.0 & > 0 <sup>1</sup> in. wc	.28	.28	.28	.28	.28	.28	.28
		PDI-836-1	≤2.0 & > 0 <sup>1</sup> in. wc	.07	.07	.07	.07	.07	.07	.07
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0 <sup>1</sup> in. wc	.68	.68	.68	.68	.69	.69	.69
		PDI-836-3	≤2.0 & > 0 <sup>1</sup> in. wc	.56	.56	.56	.56	.56	.56	.56
		PDI-837-1	≤2.0 & > 0 <sup>1</sup> in. wc	.55	.55	.54	.54	.55	.54	.55
		PDI-837-2	≤2.0 & > 0 <sup>1</sup> in. wc	.38	.38	.38	.38	.38	.38	.39
		PDI-837-3	≤2.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)										
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	6/20/16	gm	6/21/16	gm	6/22/16	gm	6/23/16	gm	6/24-16	6/25-16	6-26-16
		PDI-838-2	≤2.0 & > 0' in. wc											
		PDI-838-3	≤2.0 & > 0' in. wc											
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc											
		PDI-839-2	≤2.0 & > 0' in. wc											
		PDI-839-3	≤2.0 & > 0' in. wc											
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc											
		PDI-810-2	≤2.0 & > 0' in. wc											
		PDI-810-3	≤2.0 & > 0' in. wc											
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc											
		PDI-811-2	≤2.0 & > 0' in. wc											
		PDI-811-3	≤2.0 & > 0' in. wc											
OC Operator Review and Page Count Complete (initials)				Completion Time										

'Non-TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.1.3.

Completed by: P. J. [Signature] Date: 6/23/16 Time: 07:56 Reviewed by: [Signature] Date: 6/23/16 Time: 07:50  
 On-duty Supervisor

Comments

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

(Page 1 of 4)

TA55-S1--004, R17

SRS	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:							
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	gm	6/20/16	6/21/16	6/22/16	6/23/16	6/24/16	6/25/16	6/26/16	
		PDI-840-2	≤2.0 & > 0 in. wc									
		PDI-840-3	≤2.0 & > 0' in. wc									
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc									
		PDI-841-2	≤2.0 & > 0' in. wc									
		PDI-841-3	≤2.0 & > 0' in. wc									
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc									
		PDI-831-2	≤2.0 & > 0' in. wc									
		PDI-831-3	≤2.0 & > 0' in. wc									
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc										
	PDI-832-2	≤2.0 & > 0' in. wc										
	PDI-832-3	≤2.0 & > 0' in. wc										
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc									
		PDI-807-2	≤2.0 & > 0' in. wc									
		PDI-807-3	≤2.0 & > 0' in. wc									
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc									
		PDI-809-2	≤2.0 & > 0' in. wc									
		PDI-809-3	≤2.0 & > 0' in. wc									



**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0 <sup>1</sup> in. wc	6/20/16	gm	gm	gm	gm	gm	PT	PT	PT
		PDI-829-2	≤2.0 & > 0 <sup>1</sup> in. wc		.17	.16	.16	.16	.16	.16	.16	.16
		PDI-829-3	≤2.0 & > 0 <sup>1</sup> in. wc		.37	.35	.36	.37	.35	.37	.35	.35
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤2.0 & > 0 <sup>1</sup> in. wc	6/21/16	gm	gm	gm	gm	gm	PT	PT	PT
		PDI-833-2	≤2.0 & > 0 <sup>1</sup> in. wc		.30	.29	.30	.30	.30	.30	.30	.30
		PDI-833-3	≤2.0 & > 0 <sup>1</sup> in. wc		.07	.07	.07	.07	.07	.07	.07	.07
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1	≤2.0 & > 0 <sup>1</sup> in. wc	6/22/16	gm	gm	gm	gm	gm	PT	PT	PT
		PDI-835-2	≤2.0 & > 0 <sup>1</sup> in. wc		.50	.50	.50	.50	.50	.50	.50	.50
		PDI-835-3	≤2.0 & > 0 <sup>1</sup> in. wc		.41	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	≤2.0 & > 0 <sup>1</sup> in. wc	6/23/16	gm	gm	gm	gm	gm	PT	PT	PT
		PDI-815-2	≤2.0 & > 0 <sup>1</sup> in. wc		.20	.20	.20	.20	.20	.20	.20	.20
		PDI-815-4	≤2.0 & > 0 <sup>1</sup> in. wc		.49	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-5	≤2.0 & > 0 <sup>1</sup> in. wc	6/24/16	gm	gm	gm	gm	gm	PT	PT	PT
		PDI-816-1	≤2.0 & > 0 <sup>1</sup> in. wc		.44	.44	.44	.44	.44	.44	.44	.44
		PDI-816-2	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0 <sup>1</sup> in. wc	6/25/16	gm	gm	gm	gm	gm	PT	PT	PT
		PDI-816-5	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	.45	.45	.45	.45	.45	.45	.45
		PDI-816-5	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	.49	.49	.49	.49	.49	.49	.49

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	'PDI-812-1	≤2.0 & > 0' in. wc	JW	6/20/16	5/21/16	6/22/16	6/23/16	6-24-16	6-25-16	6-26-16	
		PDI-812-2	≤2.0 & > 0' in. wc									
		PDI-812-3	≤2.0 & > 0' in. wc									
		PDI-812-4	≤2.0 & > 0' in. wc									
		PDI-812-5	≤2.0 & > 0' in. wc									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-1	≤2.0 & > 0' in. wc	JW	6/20/16	5/21/16	6/22/16	6/23/16	6-24-16	6-25-16	6-26-16	
		PDI-813-2	≤2.0 & > 0' in. wc									
		PDI-813-3	≤2.0 & > 0' in. wc									
		PDI-813-4	≤2.0 & > 0' in. wc									
		PDI-813-5	≤2.0 & > 0' in. wc									
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	'PDI-865-1	≤2.0 & > 0' in. wc									
		PDI-865-2	≤2.0 & > 0' in. wc									
		PDI-865-3	≤2.0 & > 0' in. wc									
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	'PDI-863-1	≤2.0 & > 0' in. wc									
		PDI-863-2	≤2.0 & > 0' in. wc									

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement supply filter plenum (HVP-840) AP	PDI-857-1	≤ 2.0 & > 0' in. wc	6/20/16	6/21/16	6/22/16	6/23/16	6/24/16	6/25/16	6/26/16
		PDI-857-2	≤ 2.0 & > 0' in. wc							
4.1.3.4	North corridor supply filter plenum (HVP-809) AP	PDI-856-1	≤ 2.0 & > 0' in. wc							
		PDI-856-2	≤ 2.0 & > 0' in. wc							
'NA	Combustible exclusion area around basement exhaust fans FER28, FER29 and bleed-off fans FER20A, FER20B, FER20C, FER22A, FER22B, FER22C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)							
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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							
Completion time										
OC Operator Review and Page Count Complete (initials)										

! Non TSR requirement

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

Completed by: Paul Tejeda Date: 6-26-16 Time: 0810 Reviewed by: [Signature] Date: 6/28/16 Time: 0740

On-duty Supervisor

Comments:

### ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

Note	Date:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	Weekday:															
	Shift:															
Initials:		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		
<b>SRs</b>	<b>Description</b>	<b>SURVEILLANCE RESULTS (in. wc)</b>														
4.1.1.1	200 area glovebox exhaust header AP	≤-1.0 in. wc'	-1.99	-1.99	-2.01	-1.99	-1.89	-2.00	-1.99	-1.99	-1.99	-1.99				
	100 area glovebox exhaust header AP	≤-1.0 in. wc'	-1.92	-1.97	-1.94	-1.98	-1.93	-1.94	-1.93	-1.93						
4.1.2.1 <sup>2</sup>	300 area glovebox exhaust header AP	≤-1.0 in. wc'	-1.58	-1.97	-1.97	-1.96	-1.97	-1.97	-1.97	-1.97	-1.98					
	400 area glovebox exhaust header AP	≤-1.0 in. wc'	-1.98	-1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.97	-1.98					
4.1.1.2	200 area laboratory header AP	≤-0.05 in. wc'	-1.19	-0.19	-1.20	-0.18	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19				
	100 area laboratory header AP	≤-0.05 in. wc'	-1.23	-0.14	-1.24	-0.17	-1.25	-1.18	-1.24	-1.24	-1.24	-1.24				
4.1.1.5	300 area laboratory header AP	≤-0.05 in. wc'	-1.19	-0.19	-1.19	-0.19	-1.21	-1.21	-1.20	-1.20	-1.20	-1.20				
	400 area laboratory header AP	≤-0.05 in. wc'	-1.20	-0.19	-1.19	-0.19	-1.21	-1.17	-1.20	-1.20	-1.20	-1.20				
4.1.2.2 <sup>2</sup>	IFTT Facility AP	<-0.05 in. wc	-1.17	-0.11	-1.22	-0.21	-1.21	-1.19	-1.21	-1.21	-1.21	-1.21				
	North basement AP	< 0.00 in. wc	-1.10	-0.10	-1.09	-0.08	-1.10	-1.08	-1.10	-1.10	-1.10	-1.10				
4.1.1.3	South basement AP	< 0.00 in. wc	-1.09	-0.10	-1.09	-0.09	-1.10	-1.08	-1.10	-1.10	-1.10	-1.10				
	IRT Tunnel AP	< 0.00 in. wc	-1.22	-0.11	-1.14	-0.09	-1.18	-1.07	-1.23	-1.23	-1.23	-1.23				

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS									
				Sat. / Unsat. (circle one)									
4.1.1.6	Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDI's may be used if FCS is unavailable.	At least one fan/plenum is in service	At least one fan/plenum is in service	Date:	06-27-16	06-28-16	06-29-16	06-30-16					
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Shift:	AM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	[Handwritten initials]								
				FR-801 Icon red and PDI-831 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				FR-802 Icon red and PDI-832 AP > .050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				FR-803 Icon red and PDI-833 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				FR-804 Icon red and PDI-835 AP > .050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				FR-805 Icon red and PDI-836 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				FR-806 Icon red and PDI-837 AP > .050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
FR-807 Icon red and PDI-838 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat				
FR-808 Icon red and PDI-839 AP > .050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat				
FR-811 Icon red and PDI-840 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat				
FR-812 Icon red and PDI-841 AP > .050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat				

**ATTACHMENT A: Per Shift Surveillance Rounds [UET]**

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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:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
Weekday:		AM		PM		AM		PM		AM		PM		AM		PM	
Shift:		AM		PM		AM		PM		AM		PM		AM		PM	
Initials:		WJ		BL		BL		BL		BL		BL		BL		BL	
Acceptance Criteria		SURVEILLANCE RESULTS															
Acceptance Criteria		Sat. / Unsat. (circle one)															
4.1.1.4	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
	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
	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
	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
Completion Time		0717		1932-0723		1931		0719		1930		0721		1930			

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

Completed by: CA Date 6-30-16 Time 1930 Reviewed by: [Signature] Date: 7/14/16 Time: 1930  
 On-duty Supervisor

Comments:

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(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  $(\geq -0.1; \leq 0.1)$ .

SR	Description / Gauge	Date:	6-27-16	6/28/16	6/29/16	6-30-16			
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	JM	JM	JM	PT			
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)							
4.4.1.1	Flammable Gas Channel Check	NA							
	DET-305-3 (LCD Reading)	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			
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0			
		Record Calculated Value	Sat./Unsat.	Sat./Unsat.	Sat./Unsat.	Sat./Unsat.	Sat./Unsat.	Sat./Unsat.	
		$\geq -0.1;$ $\leq +0.1$	0856	0850	0807	0950			
	Completion Time:								

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side)[UET]**

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SIs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)											
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	6-27-16	Mon.	6/28/16	Tue.	6/29/16	Wed.	6-30-16	Thu.				
		PDI-894-2	≤2.0 & > 0' in. wc												
		PDI-895-1	≤2.0 & > 0' in. wc												
		PDI-895-2	≤2.0 & > 0' in. wc												
		PDI-817-1	≤2.0 & > 0' in. wc												
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	≤2.0 & > 0' in. wc												
		PDI-817-4	≤2.0 & > 0' in. wc												
		PDI-817-5	≤2.0 & > 0' in. wc												
		PDI-819-1	≤2.0 & > 0' in. wc												
		PDI-819-3	≤2.0 & > 0' in. wc												
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-4	≤2.0 & > 0' in. wc												
		PDI-818-1	≤2.0 & > 0' in. wc												
		PDI-818-2	≤2.0 & > 0' in. wc												
		PDI-818-4	≤2.0 & > 0' in. wc												
		PDI-818-5	≤2.0 & > 0' in. wc												
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & > 0' in. wc												
		PDI-821-3	≤2.0 & > 0' in. wc												
		PDI-821-4	≤2.0 & > 0' in. wc												





**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0' in. wc	6-27-16	6/28/16	6/29/16	6/30-16				
		PDI-822-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.				
		PDI-822-4	≤2.0 & > 0' in. wc	AP	gm	gm	PT				
		PDI-822-5	≤2.0 & > 0' in. wc	1.01	1.02	1.02	1.02				
		'PDI-823-1	≤2.0 & > 0' in. wc	.52	.53	.53	.51				
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	.47	.47	.47	.48				
		PDI-823-4	≤2.0 & > 0' in. wc	.50	.50	.50	.50				
		PDI-823-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY				
		'PDI-830-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY				
		PDI-830-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY				
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-830-3	≤2.0 & > 0' in. wc	.72	.72	.72	.72				
		'PDI-836-1	≤2.0 & > 0' in. wc	.25	.25	.25	.25				
		PDI-836-2	≤2.0 & > 0' in. wc	.28	.28	.28	.28				
		PDI-836-3	≤2.0 & > 0' in. wc	.07	.07	.07	.07				
		'PDI-837-1	≤2.0 & > 0' in. wc	.68	.68	.68	.68				
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0' in. wc	.56	.56	.56	.56				
		PDI-837-3	≤2.0 & > 0' in. wc	.41	.41	.41	.41				
		PDI-837-2	≤2.0 & > 0' in. wc	.38	.38	.38	.38				
PDI-837-3	≤2.0 & > 0' in. wc	.55	.55	.55	.55						

**ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]**

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SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	6-27-16	6/28/16	6/29/16	6-30-16					
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc			pm						
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc									
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-811-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-811-3	≤2.0 & > 0 <sup>1</sup> in. wc									
OC Operator Review and Page Count Complete (initials)				10/15	0930	0830	0943					

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

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

Completed by: Paul Trujillo 6/30/16 Time 0943 Reviewed by: [Signature] On Duty Supervisor

Date: 7/1/16 Time: 1000

**#** Comments 6/28/16 4.1.3.4 FS 810 is noisy sounds like bearing or belt noise.

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side)[UET]**

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SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	6-27-16	6/28/16	6/29/16	6-30-16				
		PDI-840-2	≤2.0 & > 0 in' wc		.17	.16	.16				
		PDI-840-3	≤2.0 & > 0' in. wc		.58	.58	.59				
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc		.50	.50	.50				
		PDI-841-2	≤2.0 & > 0' in. wc		STBY	STBY	STBY				
		PDI-841-3	≤2.0 & > 0' in. wc		STBY	STBY	STBY				
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc		.34	.34	.34				
		PDI-831-2	≤2.0 & > 0' in. wc		.48	.48	.48				
		PDI-831-3	≤2.0 & > 0' in. wc		.40	.40	.40				
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc		.35	.35	.35					
	PDI-832-2	≤2.0 & > 0' in. wc		.68	.68	.68					
	PDI-832-3	≤2.0 & > 0' in. wc		.61	.61	.61					
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc		.12	.12	.12				
		PDI-807-2	≤2.0 & > 0' in. wc		.50	.50	.50				
		PDI-807-3	≤2.0 & > 0' in. wc		.49	.49	.49				
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc		OFF	OFF	OFF				
		PDI-809-2	≤2.0 & > 0' in. wc		OFF	OFF	OFF				
		PDI-809-3	≤2.0 & > 0' in. wc		OFF	OFF	OFF				

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)														
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				Weekday:														
				Initials:	AM	AM	AM	AM	PT									
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	6-22-16	.16	.14	.16	.16	.16									
		PDI-829-2	≤2.0 & > 0' in. wc		.36	.31	.37	.35										
		PDI-829-3	≤2.0 & > 0' in. wc		.30	.29	.30	.30										
		PDI-833-1	≤2.0 & > 0' in. wc		.07	.02	.07	.07										
		PDI-833-2	≤2.0 & > 0' in. wc		.49	.49	.49	.49										
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc		.40	.40	.40	.40										
		PDI-835-1	≤2.0 & > 0' in. wc		.17	.17	.17	.17										
		PDI-835-2	≤2.0 & > 0' in. wc		.44	.43	.43	.42										
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	≤2.0 & > 0' in. wc		.39	.40	.40	.40										
		PDI-815-1	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY										
		PDI-815-2	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY										
		PDI-815-4	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY										
		PDI-815-5	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY										
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤2.0 & > 0' in. wc		.40	.40	.40	.40										
		PDI-816-2	≤2.0 & > 0' in. wc		.51	.50	.50	.51										
		PDI-816-4	≤2.0 & > 0' in. wc		.45	.45	.45	.43										
		PDI-816-5	≤2.0 & > 0' in. wc		.49	.49	.49	.49										

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)													
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.					
4.1.3.4	200 area glovebox exhaust filter plenum (FF-850) ΔP	PDI-812-1	≤2.0 & > 0 <sup>1</sup> in. wc	AM	6-27-16	Mon.	.16	6-28-16	Tue.	.16	6-29-16	Wed.	.16	6-30-16	Thu.	.16		
		PDI-812-2	≤2.0 & > 0 <sup>1</sup> in. wc			.38		.38		.38		.38		.38				
		PDI-812-3	≤2.0 & > 0 <sup>1</sup> in. wc			.38		.38		.38		.38		.38				
		PDI-812-4	≤2.0 & > 0 <sup>1</sup> in. wc			.30		.30		.30		.30		.30				
		PDI-812-5	≤2.0 & > 0 <sup>1</sup> in. wc			.41		.41		.41		.41		.41				
4.1.3.4	200 area glovebox exhaust filter plenum (FF-851) ΔP	PDI-813-1	≤2.0 & > 0 <sup>1</sup> in. wc			STBY		STBY		STBY		STBY		STBY				
		PDI-813-2	≤2.0 & > 0 <sup>1</sup> in. wc			STBY		STBY		STBY		STBY		STBY				
		PDI-813-3	≤2.0 & > 0 <sup>1</sup> in. wc			STBY		STBY		STBY		STBY		STBY				
		PDI-813-4	≤2.0 & > 0 <sup>1</sup> in. wc			STBY		STBY		STBY		STBY		STBY				
		PDI-813-5	≤2.0 & > 0 <sup>1</sup> in. wc			STBY		STBY		STBY		STBY		STBY				
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 <sup>1</sup> in. wc			.02		.02		.02		.02		.02				
		PDI-865-2	≤2.0 & > 0 <sup>1</sup> in. wc			.29		.29		.29		.29		.29				
		PDI-865-3	≤2.0 & > 0 <sup>1</sup> in. wc			.33		.33		.33		.33		.33				
4.1.3.4	IFTT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0 <sup>1</sup> in. wc			.13		.13		.13		.13		.13				
		PDI-863-2	≤2.0 & > 0 <sup>1</sup> in. wc			.30		.30		.30		.30		.30				

**ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]**

(Page 4 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS								
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement supply filter plenum (IIVP-840) AP	PDI-857-1	≤ 2.0 & > 0' in. wc	6-27-16	6/28/16	6/29/16	6-30-16					
		PDI-857-2	≤ 2.0 & > 0' in. wc									
4.1.3.4	North corridor supply filter plenum (IIVP-809) AP	PDI-856-1	≤ 2.0 & > 0' in. wc									
		PDI-856-2	≤ 2.0 & > 0' in. wc									
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> 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	1000	0950	0820	0940					
			OC Operator Review and Page Count Complete (initials)									

1 Non TSR requirement

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

Completed by: Fred Treviño Date: 6/30/16 Time: 0940 Reviewed by: \_\_\_\_\_ Date: 7/1/16 Time: 1000

*[Signature]*  
On-duty Supervisor

Comments:

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**ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]**  
(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	Sat/Unsat.	1408	6/1/16	AS
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.	1408	6/1/16	AS
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.	1316	6/1/16	AS
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	Sat/Unsat.	1333	6/1/16	AS
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).  AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds.	Sat/Unsat.	1331	6/1/16	AS
			4.21 Seconds	Sat/Unsat.	1331	6/1/16	AS


\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OE Order-420, IB Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANI, Building TA55-4 (P1-4); Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANI-DOE-ORDER-420, IB-EO-2013-001

**ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]**  
(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).  AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is $\leq$ 30 seconds.  5.02 Seconds	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1339	6/1/16	AS
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.	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1324	6/1/16	AS
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).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1351	6/1/16	AS
OC Operator Review and Page Count Complete							W

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by:  Date: 6/1/2016 Time: 1424

Reviewed by:  Date: 6/1/16 Time: 1423

On-duty Supervisor Comments:



**ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]**

(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	Sat / Unsat.	1440	6/29/16	gm
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.	1440	6/29/16	gm
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.	1430	6/29/16	gm
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	Sat / Unsat.	1400	6/29/16	gm
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).  AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is $\leq$ 30 seconds.	Sat / Unsat.	1400	6/29/16	gm
			4 _____ Seconds				

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OE Order 420.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANL Building TA55-4 (PF-4). Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANL-DOE-ORDER-420.1B-EQ-2013-001

**ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UJET]**

(Page 2 of 2)

SIRs	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). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is $\leq$ 30 seconds. 6 Seconds	Sat/Unsat.	1407	6/29/16	Jm
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.	1408	6/29/16	Jm
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.	1350	6/29/16	Jm
					1328	6-29-16	PT
OC Operator Review and Page Count Complete							

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: *[Signature]* Date: 6/29/16 Time: 1445 Reviewed by: *[Signature]* Date: 6/29/16 Time: 0730

On-duty Supervisor Comments: *[Signature]* Date: 6-29-16 1445

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**ATTACHMENT D-2: Monthly Surveillance Rounds (CAS) (Operations Center) [UET]**  
(Page 1 of 1)

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

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

Completed by: John O. Smith Date 6/1/2016 Time 0037  
 Reviewed by: [Signature] Date 6/2/16 Time 1530  
 On-duty Supervisor

Comments:

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