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Environmental Management

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Date: **FEB 08 2017**

Symbol: ADESH: 17-015

LAUR: 17-20687

Locates Action No.: N/A

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

**Subject: Semi-Annual Monitoring Report for July 1–December 31, 2016
 Title V Operating Permit P100-R2 AI No. 856 – Los Alamos National Laboratory**

Dear Mr. Gruebel:

Enclosed is Los Alamos National Laboratory's Semi-Annual Monitoring Report for 2016H2 covering July 1–December 31, 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 December 31, 2016, the end of the six month reporting period. The Los Alamos National Laboratory 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 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

ADESH: 17-015
Mr. Ralph Gruebel

Page 2

- Cover Letter
- Title V Report Certification Form
- 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 A1407.A.

No permit deviation occurred during this certification period. No excess emissions were released.

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: am

Enclosure: (1) LANL Title V Semi-Annual Monitoring Report for P100-R2, July 1–December 31, 2016

Copy: Adrienne L. Nash, LASO-NS-LP, (E-File)
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**New Mexico Environment Department
Air Quality Bureau
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525 Camino de los Marquez, Suite 1
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Version 05.02.13

NMED USE ONLY	
TEMPO	

REPORTING SUBMITTAL FORM

NMED USE ONLY	
Staff	
Admin	

PLEASE NOTE: ® - Indicates required field

SECTION I - GENERAL COMPANY AND FACILITY INFORMATION					
A. ® Company Name: Los Alamos National Security, LLC			D. ® Facility Name: Los Alamos National Laboratory		
B.1 ® Company Address: P.O Box 1663 MS J978			E.1 ® Facility Address: Same as Company		
B.2 ® City: Los Alamos	B.3 ® State: NM	B.4 ® Zip: 87545	E.2 ® City:	E.3 ® State:	E.4 ® Zip:
C.1 ® Company Environmental Contact: Anthony R. Grieggs		C.2 ® Title: EPC-CP Group Leader		F.2 ® Title: Air Quality Compliance Team Leader	
C.3 ® Phone Number: (505) 665-0451		C.4 ® Fax Number: (505) 665-8858		F.4 ® Fax Number: (505) 665-8858	
C.5 ® Email Address: grieggst@lanl.gov			F.5 ® Email Address: story@lanl.gov		
G. Responsible Official: (Title V only): Michael T. Brandt		H. Title: Associate Director for ESH		J. Fax Number: (505) 665-3811	
K. ® AI Number: 856	L. Title V Permit Number: P100-R2	M. Title V Permit Issue Date: 02/27/2015	N. NSR Permit Number: 2195	O. NSR Permit Issue Date: Various	
P. Reporting Period: From: July 1, 2016 To: December 31, 2016					

SECTION II - TYPE OF SUBMITTAL (check one that applies)					
A. <input type="checkbox"/>	Title V Annual Compliance Certification	Permit Condition(s):	Description:		
B. <input checked="" type="checkbox"/>	Title V Semi-annual Monitoring Report	Permit Condition(s): A109.A	Description: LANL Semi-Annual Monitoring Report for July 1–December 31, 2016		
C. <input type="checkbox"/>	NSPS Requirement (40CFR60)	Regulation:	Section(s):	Description:	
D. <input type="checkbox"/>	MACT Requirement (40CFR63)	Regulation:	Section(s):	Description:	
E. <input type="checkbox"/>	NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)	Regulation:	Section(s):	Description:	
F. <input type="checkbox"/>	Permit or Notice of Intent (NOI) Requirement	Permit No. <input type="checkbox"/>: or NOI No. <input type="checkbox"/>	Condition(s):	Description:	
G. <input type="checkbox"/>	Requirement of an Enforcement Action	NOV No. <input type="checkbox"/>: or SFO No. <input type="checkbox"/>: or CD No. <input type="checkbox"/>: or Other <input type="checkbox"/>	Section(s):	Description:	

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>			
® Signature of Reporting Official: 	® Title: Associate Director for ESH	® Date:	® Responsible Official for Title V? <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, July 1–December 31, 2016**

ADESH: 17-015

LA-UR-17-20687

Date: **FEB 0 8 2017**

Title V Report Certification Form

I. Report Type

Annual Compliance Certification

Semi-Annual Monitoring Report

Other Specify:

II. Identifying Information

Facility Name: Los Alamos National Laboratory

Facility Address: P.O. Box 1663, MS J978, Los Alamos

State: NM

Zip: 87545

Responsible Official (RO): Michael T. Brandt

Phone: 505-667-4218

Fax: 505-665-3811

RO Title: Associate Director, Environmental, Safety, & Health

RO e-mail: mtbrandt@lanl.gov

Permit No.: P100-R2

Date Permit Issued: February 27, 2015

Report Due Date (as required by the permit): 02/14/2017

Permit AI number: 856

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

To: December 31, 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:

02/07/17

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 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>A109 Facility: Reporting</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"/> Yes Date report submitted: September 21, 2016 Tracking Number: SBR20160009</p>
<p><input type="checkbox"/> No Provide comments and identify any supporting documentation as an attachment.</p>
<p>Comments: The Semi-Annual Report of actual emissions for 2016H1 (January 1- June 30, 2016), was submitted on September 21, 2016 within 90 days from the end of the reporting period as required by condition A109. The Semi-Annual Report of actual emissions for 2016H2 (July 1- December 31, 2016) is not due until 90 days following December 31, 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 New Mexico Environment Department (NMED) Air Quality Bureau (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 final emissions report and approval letter were submitted with the 2016H1 Semi-Annual Monitoring Report. See ATTACHMENT A113 for details.

EQUIPMENT SPECIFIC REQUIREMENTS:

<p>A605 Fuel Requirements – Asphalt Production</p> <p>A. Asphalt Plant Combustion Sources</p> <p>Requirement: 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>Monitoring: N/A</p> <p>Recordkeeping: The permittee shall meet the recordkeeping requirements of GCP-3 and maintain records in accordance with Section B109.</p> <p>Reporting: 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"/> Yes Date report submitted: _____ Tracking Number: _____</p>
<p><input checked="" type="checkbox"/> No Provide comments and identify any supporting documentation as an attachment.</p>
<p>Comments: 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:</p> <p>A109.A: This Semi-Annual Monitoring Report is submitted within 45 days allowed after the reporting period.</p> <p>A109.B: The 2016H1 (January 1-June 30, 2016) Semi-Annual Emissions Report was submitted on September 21, 2016 within the ninety days allowed following June 30, 2016. The 2016H2 (July 1 - December 31, 2016) Semi-Annual Emissions Report for operating permit P100-R2 is due ninety days following December 31, 2016, which is after the submission of this report.</p> <p>A109.C: The 2016 Annual Compliance Certification Report for operating permit P100-R2 (January–December 31, 2016) was submitted to NMED AQB and the U.S. Environmental Protection Agency (EPA), on January 27, 2017, 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 problem with the remote data-transmission phone communication.
3. The asphalt 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. 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.

A607 Asphalt Production – Other	
B. Asphalt Plant Baghouse - Stack Height (Unit TA-60-BDM)	
Requirement: The rotary dryer/baghouse exhaust stack shall be no less than 10 meters in height.	
Monitoring: N/A	
Recordkeeping: The permittee shall maintain records in accordance with Section B109.	
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.	
<input type="checkbox"/> Yes	Date report submitted: _____ Tracking Number: _____
<input checked="" type="checkbox"/> No	Provide comments and identify any supporting documentation as an attachment.
<p>Comments: 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.

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 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

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 and calibrations were conducted during this reporting period. These reports are available in ATTACHMENT 607.F.

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.

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

Source	Monitoring Requirements
Sigma Facility TA-3-66	A log shall be maintained during operations, which shows the number of metallographic specimens used in the 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

Source	Recordkeeping Requirements
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	<p>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.</p> <p>(NSR Permit 1081-M1-R3, Condition 9, partial, revised)</p> <p>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.</p> <p>(NSR Permit 1081-M1-R1, Condition 3, partial, revised)</p> <p>A log of the filter replacement shall be kept and shall be made available to the Department personnel upon request.</p> <p>(NSR Permit 1081-M1-R1, Condition 3, partial, revised)</p> <p>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.</p> <p>(NSR Permit 1081-M1-R3, Condition 9, partial, revised)</p> <p>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.</p> <p>(NSR Permit 1081-M1-R6, Condition 9, partial, revised)</p> <p>A record of the furnace's internal volume shall be maintained at the facility.</p> <p>(NSR Permit 1081-M1-R6, Condition 9, partial, revised)</p>

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	<p>Anticipated date of initial startup of each new or modified source not less than thirty (30) days prior to the date.</p> <p>Actual date of initial startup of each new or modified source within fifteen (15) days after the startup date.</p> <p>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.</p> <p>Notify the Department within 60 days after each calendar quarter of the facility's compliance status with the permitted emission rate from the</p>

	<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"/> Yes Date report submitted: July 21, 2016; Nov 18, 2016 Tracking Number: SBR20160007; SBR20160010</p>	
<p><input type="checkbox"/> No Provide comments and identify any supporting documentation as an attachment.</p>	
<p>Comments: 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 and 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>	

A707.B - Emissions Monitoring Requirements - Beryllium Activities:

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 HEPA filter challenge reports for this reporting period are included in ATTACHMENT A707.C.b.

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 were submitted on July 21, 2016 (SBR20160007) and Nov 8, 2016 (SBR20160010).

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.

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 measured 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. See ATTACHMENT A806.A. for details.

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

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. See ATTACHMENT A806.C. for details.

Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification submitted 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 emissions 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 permit condition A804.B. No fuel oil was used during this certification period and no records were generated
- 4) Records are maintained and submitted in accordance with permit conditions A109 and B110.

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 SO₂ 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 used during this reporting period. See ATTACHMENT 807.C.& D. for details.

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, monitoring, recordkeeping and reporting will be conducted in accordance with the requirements listed in permit P100-R2. See ATTACHMENT A807.E. for details.

A907 Other – Chemical Usage

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

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

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

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

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

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

Yes **Date report submitted:** September 21, 2016
SBR20160009

Tracking Number:

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

Comments:

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 2016H1 (January 1–June 30, 2016) was submitted to NMED on September 21, 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.

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 elsewhere 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 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.

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 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.

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 generators TA-33-G-2 and TA-33-G3 at TA-33. 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 fuel oil 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. See ATTACHMENT A1107.A. for operating records.

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 fuel oil 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. ATTACHMENT A1107.B. includes operating records.

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 submitted on an annual basis in accordance with permit conditions A109 and B110. For more information, see comments in Section A605 of this report.

A1207 Other – Data Disintegrator	
B. Cyclone/Cloth Tube Filters (Data Disintegrator)	
Requirement: The permittee shall perform regular maintenance and repair on the cyclone and cloth tube filter(s) per manufacturer’s recommendations. (NSR Permit 2195H, Specific Condition 1.d.)	
Monitoring: N/A	
Recordkeeping: The permittee shall maintain adequate records on site to demonstrate compliance with manufacturer’s recommended repair and maintenance schedules for the cyclone and the cloth tube filter(s). (NSR Permit 2195H, Specific Condition 4.a.) Records shall be maintained in accordance with Section B109.	
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	
Has this reporting requirement been met during this reporting period with a separate report submittal? Answer Yes or No below.	
<input type="checkbox"/> Yes	Date report submitted: _____ Tracking Number: _____
<input checked="" type="checkbox"/> No	Provide comments and identify any supporting documentation as an attachment.
<p>Comments: Requirement: Preventive 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 tests were conducted and no records were generated during this reporting period.

Reporting: Emissions and monitoring reports are submitted on a six-month basis and compliance certification submitted 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 Table 1302.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 A.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 A. 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. See ATTACHMENT A1407.A.

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 type="checkbox"/> Yes <input checked="" 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				
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 A806.A.	External Combustion – 20.2.61 NMAC Opacity
ATTACHMENT A806.C.	External Combustion – 20.2.61 NMAC Opacity – Units RLUOB-BHWs Fuel Oil-Fired
ATTACHMENT A807.A.	External Combustion – Natural Gas Usage and Rolling 12-Month Total
ATTACHMENT A807.B.	External Combustion – RLUOB Natural Gas and Fuel Oil Usage
ATTACHMENT A807.C. & D.	External Combustion – Fuel Oil Sulfur Content
ATTACHMENT A807.E.	External Combustion – Initial Compliance Testing (Unit RLUOB-BHW-4)
ATTACHMENT A807.F.	External Combustion – Operational Boiler Inspection
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 – Completed Work Practice Checklists
ATTACHMENT A1104.A.	Internal Combustion – TA-33-G-1P Daily Operating Logs
ATTACHMENT A1104.B.	Internal Combustion – Permitted Generator Hours of Operation
ATTACHMENT A1106.A.	Internal Combustion – Method 9 Opacity Reports
ATTACHMENT A1107.A.	Internal Combustion – Operating Records for RLUOB Generators

ATTACHMENT A1107.B.	Internal Combustion – Operating Records for Permitted Emergency Generators
ATTACHMENT A1207.A.	Data Disintegrator – Operating Logs
ATTACHMENT A1207.B.	Data Disintegrator – Maintenance Performed
ATTACHMENT A1306.A.	TA-03 Power Plant – Opacity for Sources Combusting Natural Gas
ATTACHMENT A1306.B.	TA-03 Power Plant – Opacity for Boilers Combusting No. 2 Fuel Oil
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 A1407.A.	Open Burning

ATTACHMENT A113

MDA-L Soil Vapor Extraction Monitoring Data

ATTACHMENT A113 MDA-L Soil Vapor Extraction Monitoring Data

LANL submitted the final MDA-L soil vapor extraction (SVE) monitoring report on March 09, 2016. Cember Hardison, PSD Permit Program Manager, NMED AQB responded with an e-mail and confirmed on March 9, 2016, that the SVE system is a Title V insignificant activity and the SVE system was not subject to a new source review permit. No further action is needed for this permit condition.

ATTACHMENT A607.A.

Asphalt Plant Differential Pressure Records

LANL Operating Permit P100-R2 | Monitoring Period July–December 2016

Attachment A607.A. Asphalt Plant – Differential Pressure

The transmitting system that transmits differential pressure data was out of service and did not communicate during the following days: Nov 22-Dec 13, 2016.

The backup chart recorder continually measured the differential pressure data during times when data transmission did not occur.

DATE TIME 600233DIFFPRES
INCHES

5-JUL-2016	0:00:00	0.00
5-JUL-2016	0:02:00	0.00
5-JUL-2016	0:04:00	0.00
5-JUL-2016	0:06:00	0.00
5-JUL-2016	0:08:00	0.00
5-JUL-2016	0:10:00	0.00
5-JUL-2016	0:12:00	0.00
5-JUL-2016	0:14:00	0.00
5-JUL-2016	0:16:00	0.00
5-JUL-2016	0:18:00	0.00
5-JUL-2016	0:20:00	0.00
5-JUL-2016	0:22:00	0.00
5-JUL-2016	0:24:00	0.00
5-JUL-2016	0:26:00	0.00
5-JUL-2016	0:28:00	0.00
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LAEVSB\$

LAEVSB\$ PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Date [5-OCT-2016]: 1-AUG-16

Start Time [0:00:00] :

Stop Date [1-AUG-2016]: 31-AUG-16

Stop Time [23:59:59] :

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

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LAEVSB\$

LAEVSB\$ PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Date [5-OCT-2016]: 1-sep-16

Start Time [0:00:00] :

Stop Date [1-SEP-2016]: 30-sep-16

Stop Time [23:59:59] :

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

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PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Date [31-OCT-2016]: 1-OCT

Start Time [0:00:00] :

Stop Date [1-OCT-2016]: 31-OCT

Stop Time [23:59:59] :

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

DATE	TIME	Diff Pres (in)
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4-OCT-2016	0:04:00	0.00
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6-OCT-2016 23:56:00	0.00
6-OCT-2016 23:58:00	0.00

LAEVSA\$

LAEVSB\$ PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Date [20-DEC-2016]: 1-NOV

Start Time [0:00:00] :

Stop Date [1-NOV-2016]: 30-NOV

Stop Time [23:59:59] :

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

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7-NOV-2016 0:06:00 0.00

7-NOV-2016 0:08:00 0.00

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30-NOV-2016 21:14:00	0.00
30-NOV-2016 21:16:00	0.00
30-NOV-2016 21:18:00	0.00
30-NOV-2016 21:20:00	0.00
30-NOV-2016 21:22:00	0.00
30-NOV-2016 21:24:00	0.00
30-NOV-2016 21:26:00	0.00
30-NOV-2016 21:28:00	0.00
30-NOV-2016 21:30:00	0.00
30-NOV-2016 21:32:00	0.00
30-NOV-2016 21:34:00	0.00
30-NOV-2016 21:36:00	0.00
30-NOV-2016 21:38:00	0.00
30-NOV-2016 21:40:00	0.00
30-NOV-2016 21:42:00	0.00
30-NOV-2016 21:44:00	0.00
30-NOV-2016 21:46:00	0.00
30-NOV-2016 21:48:00	0.00
30-NOV-2016 21:50:00	0.00
30-NOV-2016 21:52:00	0.00
30-NOV-2016 21:54:00	0.00
30-NOV-2016 21:56:00	0.00
30-NOV-2016 21:58:00	0.00
30-NOV-2016 22:00:00	0.00
30-NOV-2016 22:02:00	0.00
30-NOV-2016 22:04:00	0.00
30-NOV-2016 22:06:00	0.00
30-NOV-2016 22:08:00	0.00
30-NOV-2016 22:10:00	0.00
30-NOV-2016 22:12:00	0.00
30-NOV-2016 22:14:00	0.00
30-NOV-2016 22:16:00	0.00
30-NOV-2016 22:18:00	0.00
30-NOV-2016 22:20:00	0.00
30-NOV-2016 22:22:00	0.00
30-NOV-2016 22:24:00	0.00
30-NOV-2016 22:26:00	0.00
30-NOV-2016 22:28:00	0.00
30-NOV-2016 22:30:00	0.00
30-NOV-2016 22:32:00	0.00
30-NOV-2016 22:34:00	0.00
30-NOV-2016 22:36:00	0.00
30-NOV-2016 22:38:00	0.00
30-NOV-2016 22:40:00	0.00
30-NOV-2016 22:42:00	0.00
30-NOV-2016 22:44:00	0.00
30-NOV-2016 22:46:00	0.00
30-NOV-2016 22:48:00	0.00
30-NOV-2016 22:50:00	0.00
30-NOV-2016 22:52:00	0.00
30-NOV-2016 22:54:00	0.00
30-NOV-2016 22:56:00	0.00
30-NOV-2016 22:58:00	0.00
30-NOV-2016 23:00:00	0.00

30-NOV-2016 23:02:00	0.00
30-NOV-2016 23:04:00	0.00
30-NOV-2016 23:06:00	0.00
30-NOV-2016 23:08:00	0.00
30-NOV-2016 23:10:00	0.00
30-NOV-2016 23:12:00	0.00
30-NOV-2016 23:14:00	0.00
30-NOV-2016 23:16:00	0.00
30-NOV-2016 23:18:00	0.00
30-NOV-2016 23:20:00	0.00
30-NOV-2016 23:22:00	0.00
30-NOV-2016 23:24:00	0.00
30-NOV-2016 23:26:00	0.00
30-NOV-2016 23:28:00	0.00
30-NOV-2016 23:30:00	0.00
30-NOV-2016 23:32:00	0.00
30-NOV-2016 23:34:00	0.00
30-NOV-2016 23:36:00	0.00
30-NOV-2016 23:38:00	0.00
30-NOV-2016 23:40:00	0.00
30-NOV-2016 23:42:00	0.00
30-NOV-2016 23:44:00	0.00
30-NOV-2016 23:46:00	0.00
30-NOV-2016 23:48:00	0.00
30-NOV-2016 23:50:00	0.00
30-NOV-2016 23:52:00	0.00
30-NOV-2016 23:54:00	0.00
30-NOV-2016 23:56:00	0.00
30-NOV-2016 23:58:00	0.00

LAEVSB\$

LAEVSB\$ PRP 600233DIFFPRES

PRP - Profile Report Program

1 Point found

Acronym :

Reporting on 1 point

Start Date [22-JAN-2017]: 01-DEC-2016

Start Time [0:00:00] :

Stop Date [1-DEC-2016]: 31-DEC-2016

Stop Time [23:59:59] :

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

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1-DEC-2016	0:02:00	0.00
1-DEC-2016	0:04:00	0.00
1-DEC-2016	0:06:00	0.00
1-DEC-2016	0:08:00	0.00
1-DEC-2016	0:10:00	0.00
1-DEC-2016	0:12:00	0.00
1-DEC-2016	0:14:00	0.00
1-DEC-2016	0:16:00	0.00
1-DEC-2016	0:18:00	0.00
1-DEC-2016	0:20:00	0.00
1-DEC-2016	0:22:00	0.00
1-DEC-2016	0:24:00	0.00
1-DEC-2016	0:26:00	0.00
1-DEC-2016	0:28:00	0.00
1-DEC-2016	0:30:00	0.00
1-DEC-2016	0:32:00	0.00
1-DEC-2016	0:34:00	0.00
1-DEC-2016	0:36:00	0.00
1-DEC-2016	0:38:00	0.00
1-DEC-2016	0:40:00	0.00
1-DEC-2016	0:42:00	0.00
1-DEC-2016	0:44:00	0.00
1-DEC-2016	0:46:00	0.00
1-DEC-2016	0:48:00	0.00
1-DEC-2016	0:50:00	0.00
1-DEC-2016	0:52:00	0.00
1-DEC-2016	0:54:00	0.00
1-DEC-2016	0:56:00	0.00
1-DEC-2016	0:58:00	0.00
1-DEC-2016	1:00:00	0.00
1-DEC-2016	1:02:00	0.00
1-DEC-2016	1:04:00	0.00
1-DEC-2016	1:06:00	0.00
1-DEC-2016	1:08:00	0.00
1-DEC-2016	1:10:00	0.00
1-DEC-2016	1:12:00	0.00
1-DEC-2016	1:14:00	0.00
1-DEC-2016	1:16:00	0.00
1-DEC-2016	1:18:00	0.00
1-DEC-2016	1:20:00	0.00
1-DEC-2016	1:22:00	0.00
1-DEC-2016	1:24:00	0.00

1-DEC-2016	1:26:00	0.00
1-DEC-2016	1:28:00	0.00
1-DEC-2016	1:30:00	0.00
1-DEC-2016	1:32:00	0.00
1-DEC-2016	1:34:00	0.00
1-DEC-2016	1:36:00	0.00
1-DEC-2016	1:38:00	0.00
1-DEC-2016	1:40:00	0.00
1-DEC-2016	1:42:00	0.00
1-DEC-2016	1:44:00	0.00
1-DEC-2016	1:46:00	0.00
1-DEC-2016	1:48:00	0.00
1-DEC-2016	1:50:00	0.00
1-DEC-2016	1:52:00	0.00
1-DEC-2016	1:54:00	0.00
1-DEC-2016	1:56:00	0.00
1-DEC-2016	1:58:00	0.00
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1-DEC-2016	2:04:00	0.00
1-DEC-2016	2:06:00	0.00
1-DEC-2016	2:08:00	0.00
1-DEC-2016	2:10:00	0.00
1-DEC-2016	2:12:00	0.00
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1-DEC-2016	2:20:00	0.00
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1-DEC-2016	2:24:00	0.00
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1-DEC-2016	2:34:00	0.00
1-DEC-2016	2:36:00	0.00
1-DEC-2016	2:38:00	0.00
1-DEC-2016	2:40:00	0.00
1-DEC-2016	2:42:00	0.00
1-DEC-2016	2:44:00	0.00
1-DEC-2016	2:46:00	0.00
1-DEC-2016	2:48:00	0.00
1-DEC-2016	2:50:00	0.00
1-DEC-2016	2:52:00	0.00
1-DEC-2016	2:54:00	0.00
1-DEC-2016	2:56:00	0.00
1-DEC-2016	2:58:00	0.00
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1-DEC-2016	3:04:00	0.00
1-DEC-2016	3:06:00	0.00
1-DEC-2016	3:08:00	0.00
1-DEC-2016	3:10:00	0.00
1-DEC-2016	3:12:00	0.00

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1-DEC-2016	3:20:00	0.00
1-DEC-2016	3:22:00	0.00
1-DEC-2016	3:24:00	0.00
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1-DEC-2016	3:28:00	0.00
1-DEC-2016	3:30:00	0.00
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1-DEC-2016	3:36:00	0.00
1-DEC-2016	3:38:00	0.00
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1-DEC-2016	3:42:00	0.00
1-DEC-2016	3:44:00	0.00
1-DEC-2016	3:46:00	0.00
1-DEC-2016	3:48:00	0.00
1-DEC-2016	3:50:00	0.00
1-DEC-2016	3:52:00	0.00
1-DEC-2016	3:54:00	0.00
1-DEC-2016	3:56:00	0.00
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1-DEC-2016	4:04:00	0.00
1-DEC-2016	4:06:00	0.00
1-DEC-2016	4:08:00	0.00
1-DEC-2016	4:10:00	0.00
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1-DEC-2016	4:34:00	0.00
1-DEC-2016	4:36:00	0.00
1-DEC-2016	4:38:00	0.00
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1-DEC-2016	4:50:00	0.00
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1-DEC-2016	4:54:00	0.00
1-DEC-2016	4:56:00	0.00
1-DEC-2016	4:58:00	0.00
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1-DEC-2016	5:36:00	0.00
1-DEC-2016	5:38:00	0.00
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1-DEC-2016	5:42:00	0.00
1-DEC-2016	5:44:00	0.00
1-DEC-2016	5:46:00	0.00
1-DEC-2016	5:48:00	0.00
1-DEC-2016	5:50:00	0.00
1-DEC-2016	5:52:00	0.00
1-DEC-2016	5:54:00	0.00
1-DEC-2016	5:56:00	0.00
1-DEC-2016	5:58:00	0.00
1-DEC-2016	6:00:00	0.00
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1-DEC-2016	6:04:00	0.00
1-DEC-2016	6:06:00	0.00
1-DEC-2016	6:08:00	0.00
1-DEC-2016	6:10:00	0.00
1-DEC-2016	6:12:00	0.00
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1-DEC-2016	6:16:00	0.00
1-DEC-2016	6:18:00	0.00
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1-DEC-2016	6:22:00	0.00
1-DEC-2016	6:24:00	0.00
1-DEC-2016	6:26:00	0.00
1-DEC-2016	6:28:00	0.00
1-DEC-2016	6:30:00	0.00
1-DEC-2016	6:32:00	0.00
1-DEC-2016	6:34:00	0.00
1-DEC-2016	6:36:00	0.00
1-DEC-2016	6:38:00	0.00
1-DEC-2016	6:40:00	0.00
1-DEC-2016	6:42:00	0.00
1-DEC-2016	6:44:00	0.00
1-DEC-2016	6:46:00	0.00
1-DEC-2016	6:48:00	0.00

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1-DEC-2016	6:52:00	0.00
1-DEC-2016	6:54:00	0.00
1-DEC-2016	6:56:00	0.00
1-DEC-2016	6:58:00	0.00
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1-DEC-2016	7:06:00	0.00
1-DEC-2016	7:08:00	0.00
1-DEC-2016	7:10:00	0.00
1-DEC-2016	7:12:00	0.00
1-DEC-2016	7:14:00	0.00
1-DEC-2016	7:16:00	0.00
1-DEC-2016	7:18:00	0.00
1-DEC-2016	7:20:00	0.00
1-DEC-2016	7:22:00	0.00
1-DEC-2016	7:24:00	0.00
1-DEC-2016	7:26:00	0.00
1-DEC-2016	7:28:00	0.00
1-DEC-2016	7:30:00	0.00
1-DEC-2016	7:32:00	0.00
1-DEC-2016	7:34:00	0.00
1-DEC-2016	7:36:00	0.00
1-DEC-2016	7:38:00	0.00
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1-DEC-2016	7:48:00	0.00
1-DEC-2016	7:50:00	0.00
1-DEC-2016	7:52:00	0.00
1-DEC-2016	7:54:00	0.00
1-DEC-2016	7:56:00	0.00
1-DEC-2016	7:58:00	0.00
1-DEC-2016	8:00:00	0.00
1-DEC-2016	8:02:00	0.00
1-DEC-2016	8:04:00	0.00
1-DEC-2016	8:06:00	0.00
1-DEC-2016	8:08:00	0.00
1-DEC-2016	8:10:00	0.00
1-DEC-2016	8:12:00	0.00
1-DEC-2016	8:14:00	0.00
1-DEC-2016	8:16:00	0.00
1-DEC-2016	8:18:00	0.00
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1-DEC-2016	8:36:00	0.00

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1-DEC-2016	8:40:00	0.00
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1-DEC-2016	8:58:00	0.00
1-DEC-2016	9:00:00	0.00
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1-DEC-2016	9:04:00	0.00
1-DEC-2016	9:06:00	0.00
1-DEC-2016	9:08:00	0.00
1-DEC-2016	9:10:00	0.00
1-DEC-2016	9:12:00	0.00
1-DEC-2016	9:14:00	0.00
1-DEC-2016	9:16:00	0.00
1-DEC-2016	9:18:00	0.00
1-DEC-2016	9:20:00	0.00
1-DEC-2016	9:22:00	0.00
1-DEC-2016	9:24:00	0.00
1-DEC-2016	9:26:00	0.10
1-DEC-2016	9:28:00	0.25
1-DEC-2016	9:30:00	0.42
1-DEC-2016	9:32:00	0.72
1-DEC-2016	9:34:00	0.99
1-DEC-2016	9:36:00	1.18
1-DEC-2016	9:38:00	1.24
1-DEC-2016	9:40:00	1.24
1-DEC-2016	9:42:00	1.03
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1-DEC-2016	9:46:00	0.99
1-DEC-2016	9:48:00	0.75
1-DEC-2016	9:50:00	0.74
1-DEC-2016	9:52:00	0.74
1-DEC-2016	9:54:00	0.74
1-DEC-2016	9:56:00	0.74
1-DEC-2016	9:58:00	0.56
1-DEC-2016	10:00:00	0.28
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1-DEC-2016	10:06:00	0.25
1-DEC-2016	10:08:00	0.25
1-DEC-2016	10:10:00	0.25
1-DEC-2016	10:12:00	0.25
1-DEC-2016	10:14:00	0.25
1-DEC-2016	10:16:00	0.25
1-DEC-2016	10:18:00	0.05
1-DEC-2016	10:20:00	0.05
1-DEC-2016	10:22:00	0.25
1-DEC-2016	10:24:00	0.25

1-DEC-2016 10:26:00	0.25	
1-DEC-2016 10:28:00	0.20	
1-DEC-2016 10:30:00	0.00	
1-DEC-2016 10:32:00	0.00	
1-DEC-2016 10:34:00	0.00	
1-DEC-2016 10:36:00	0.00	
1-DEC-2016 10:38:00	0.00	
1-DEC-2016 10:40:00	0.00	
1-DEC-2016 10:42:00	0.00	
1-DEC-2016 10:44:00	0.00	
1-DEC-2016 10:46:00	0.00	U
1-DEC-2016 10:48:00	0.00	U
1-DEC-2016 10:50:00	0.00	U
1-DEC-2016 10:52:00	0.00	U
1-DEC-2016 10:54:00	0.00	U
1-DEC-2016 10:56:00	0.00	U
1-DEC-2016 10:58:00	0.00	U
1-DEC-2016 11:00:00	0.00	U
1-DEC-2016 11:02:00	0.00	U
1-DEC-2016 11:04:00	0.00	U
1-DEC-2016 11:06:00	0.00	U
1-DEC-2016 11:08:00	0.00	U
1-DEC-2016 11:10:00	0.00	U
1-DEC-2016 11:12:00	0.00	U
1-DEC-2016 11:14:00	0.00	U
1-DEC-2016 11:16:00	0.00	U
1-DEC-2016 11:18:00	0.00	U
1-DEC-2016 11:20:00	0.00	U
1-DEC-2016 11:22:00	0.00	U
1-DEC-2016 11:24:00	0.00	U
1-DEC-2016 11:26:00	0.00	U
1-DEC-2016 11:28:00	0.00	U
1-DEC-2016 11:30:00	0.00	U
1-DEC-2016 11:32:00	0.00	U
1-DEC-2016 11:34:00	0.00	U
1-DEC-2016 11:36:00	0.00	U
1-DEC-2016 11:38:00	0.00	U
1-DEC-2016 11:40:00	0.00	U
1-DEC-2016 11:42:00	0.00	U
1-DEC-2016 11:44:00	0.00	U
1-DEC-2016 11:46:00	0.00	U
1-DEC-2016 11:48:00	0.00	U
1-DEC-2016 11:50:00	0.00	U
1-DEC-2016 11:52:00	0.00	U
1-DEC-2016 11:54:00	0.00	U
1-DEC-2016 11:56:00	0.00	U
1-DEC-2016 11:58:00	0.00	U
1-DEC-2016 12:00:00	0.00	U
1-DEC-2016 12:02:00	0.00	U
1-DEC-2016 12:04:00	0.00	U
1-DEC-2016 12:06:00	0.00	U
1-DEC-2016 12:08:00	0.00	U
1-DEC-2016 12:10:00	0.00	U
1-DEC-2016 12:12:00	0.00	U

1-DEC-2016 12:14:00	0.00	U
1-DEC-2016 12:16:00	0.00	U
1-DEC-2016 12:18:00	0.00	U
1-DEC-2016 12:20:00	0.00	U
1-DEC-2016 12:22:00	0.00	U
1-DEC-2016 12:24:00	0.00	U
1-DEC-2016 12:26:00	0.00	U
1-DEC-2016 12:28:00	0.00	U
1-DEC-2016 12:30:00	0.00	U
1-DEC-2016 12:32:00	0.00	U
1-DEC-2016 12:34:00	0.00	U
1-DEC-2016 12:36:00	0.00	U
1-DEC-2016 12:38:00	0.00	U
1-DEC-2016 12:40:00	0.00	U
1-DEC-2016 12:42:00	0.00	U
1-DEC-2016 12:44:00	0.00	U
1-DEC-2016 12:46:00	0.00	U
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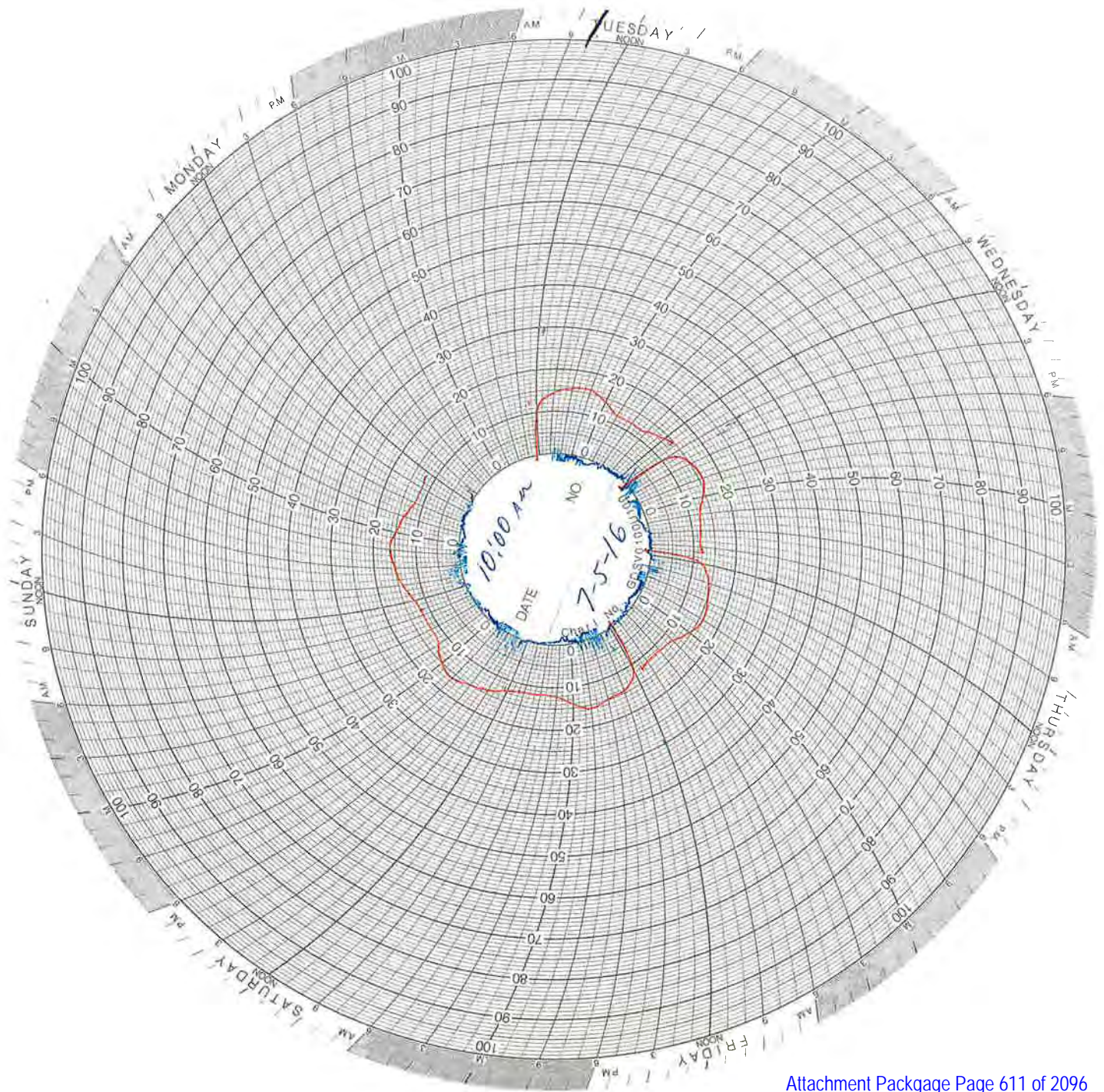
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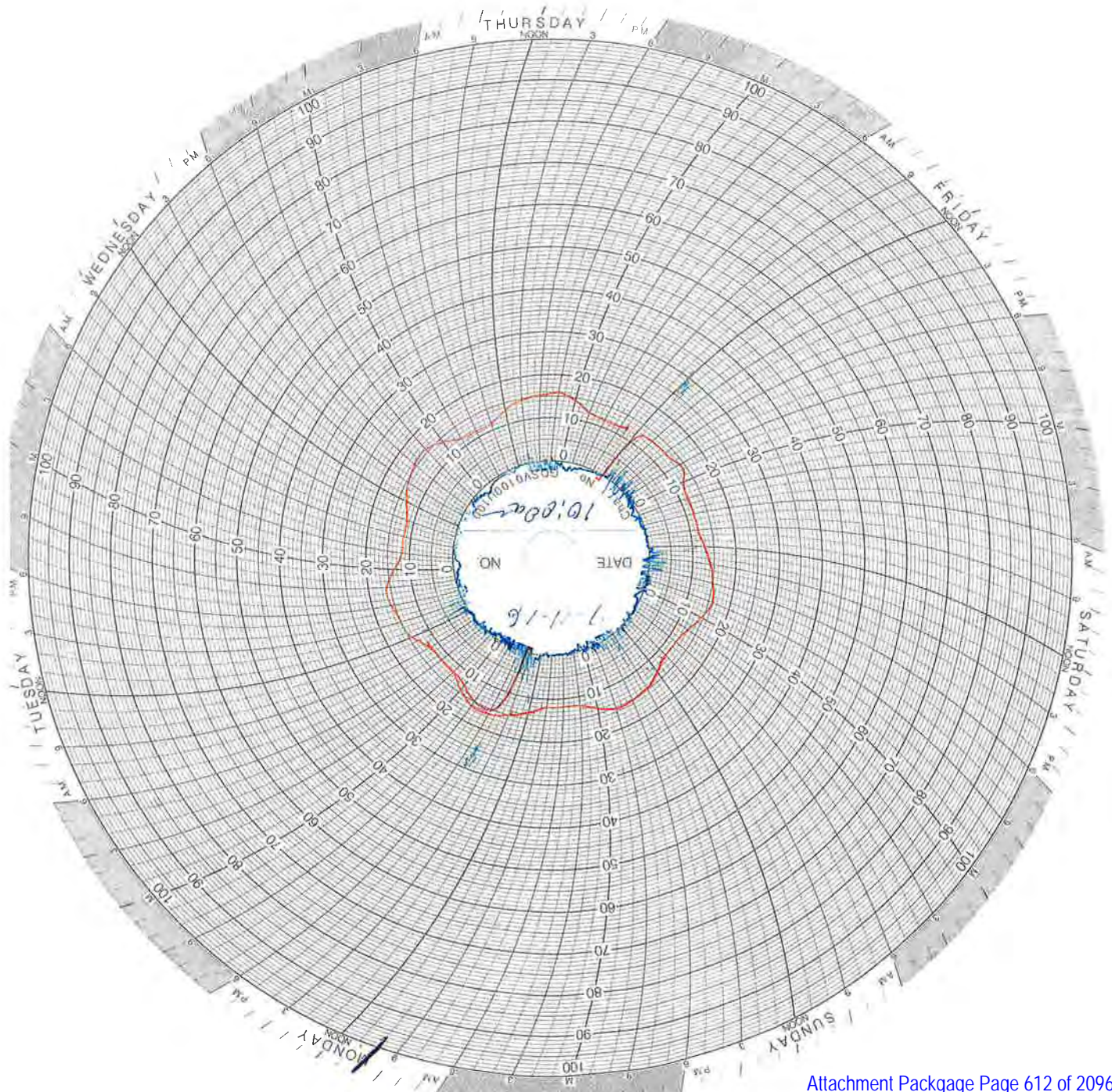
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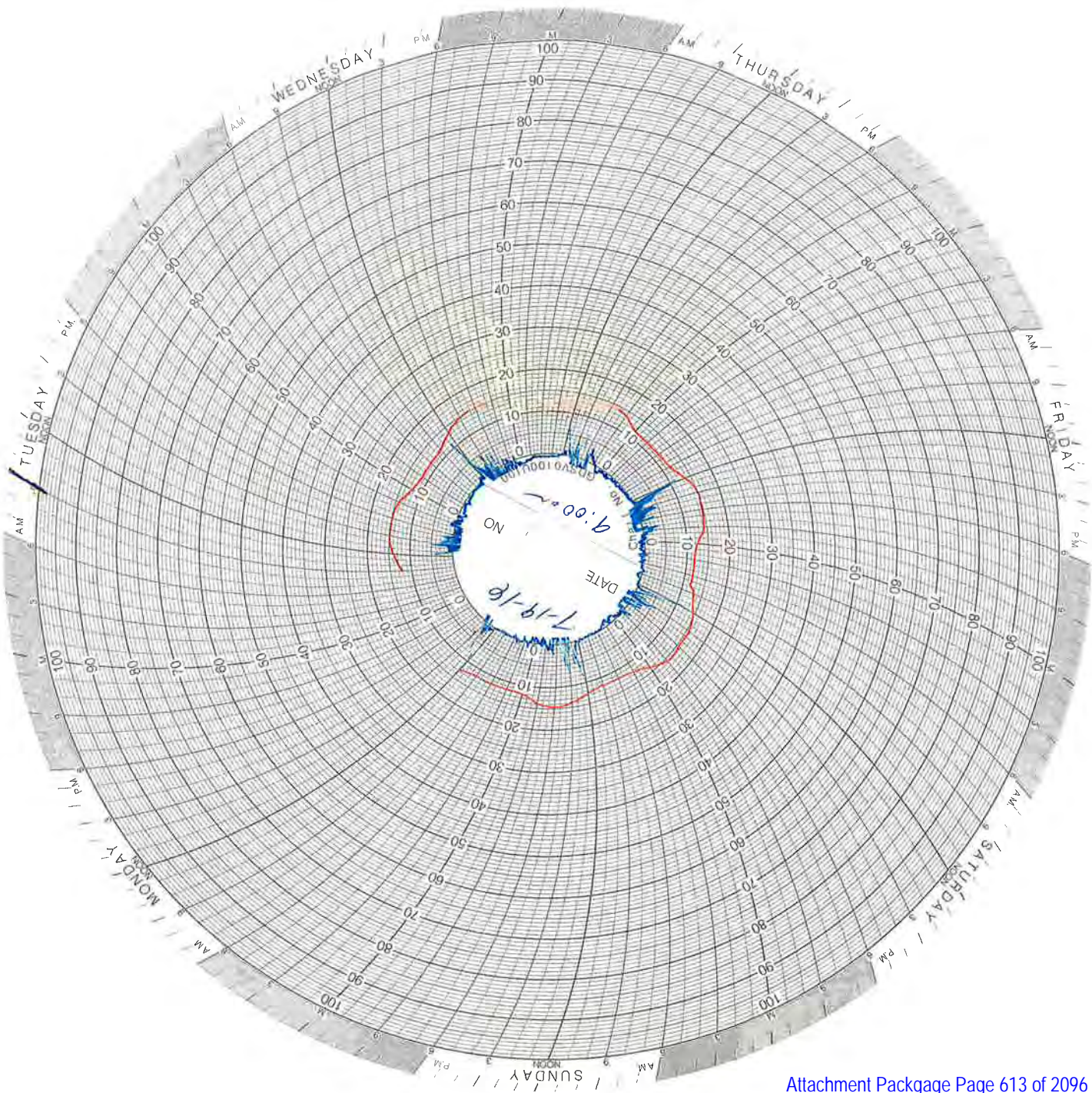
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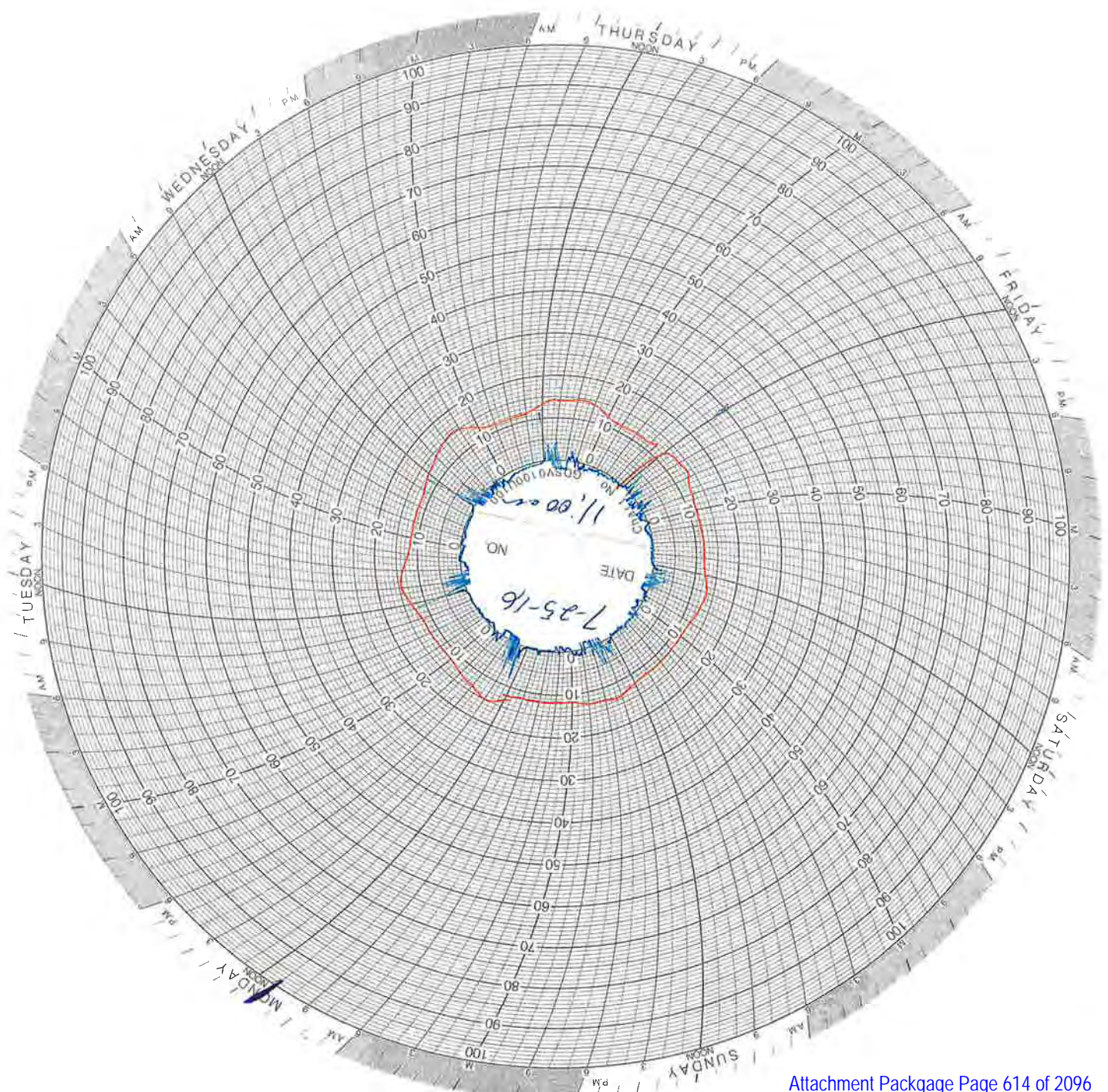
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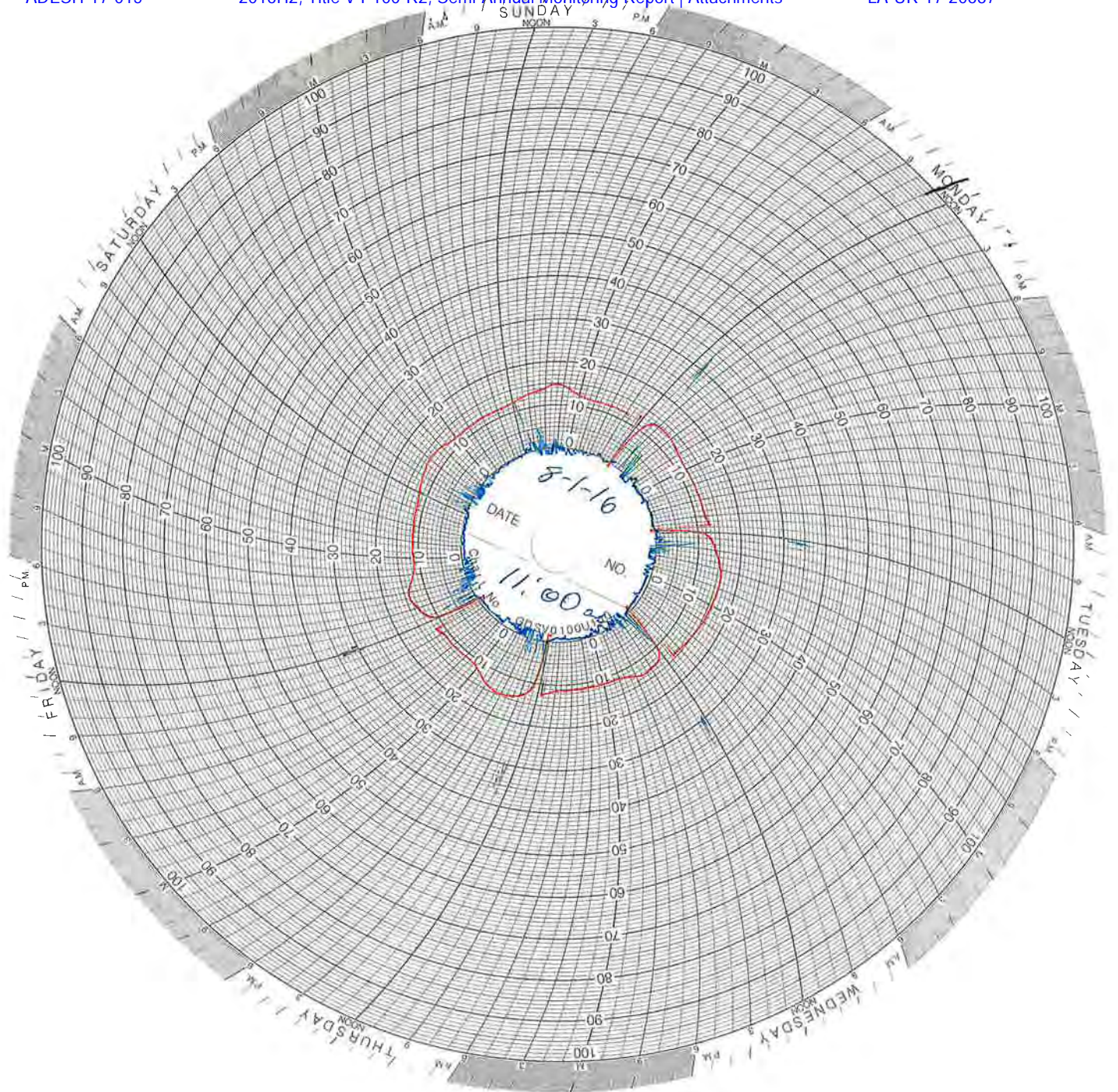
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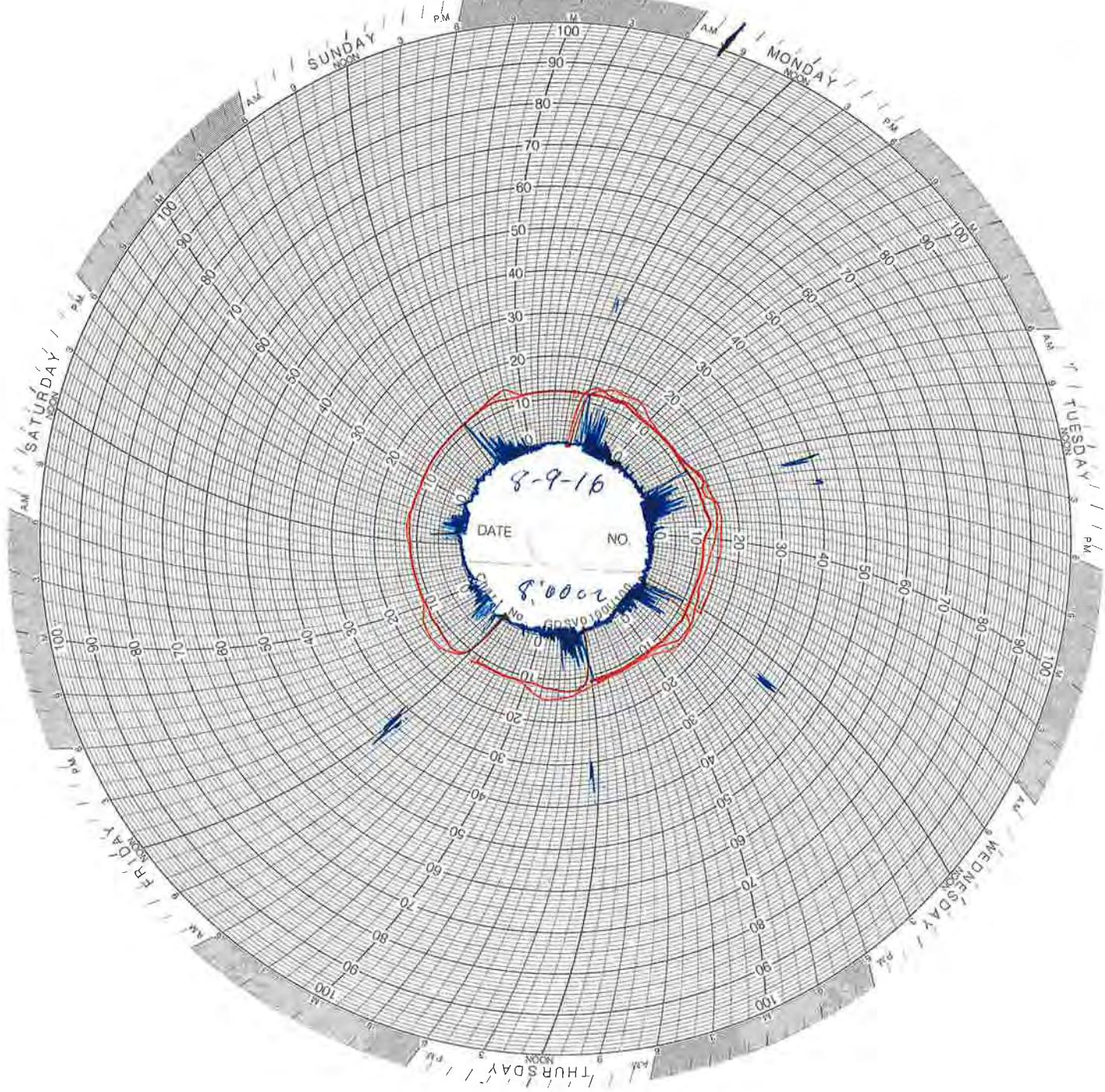


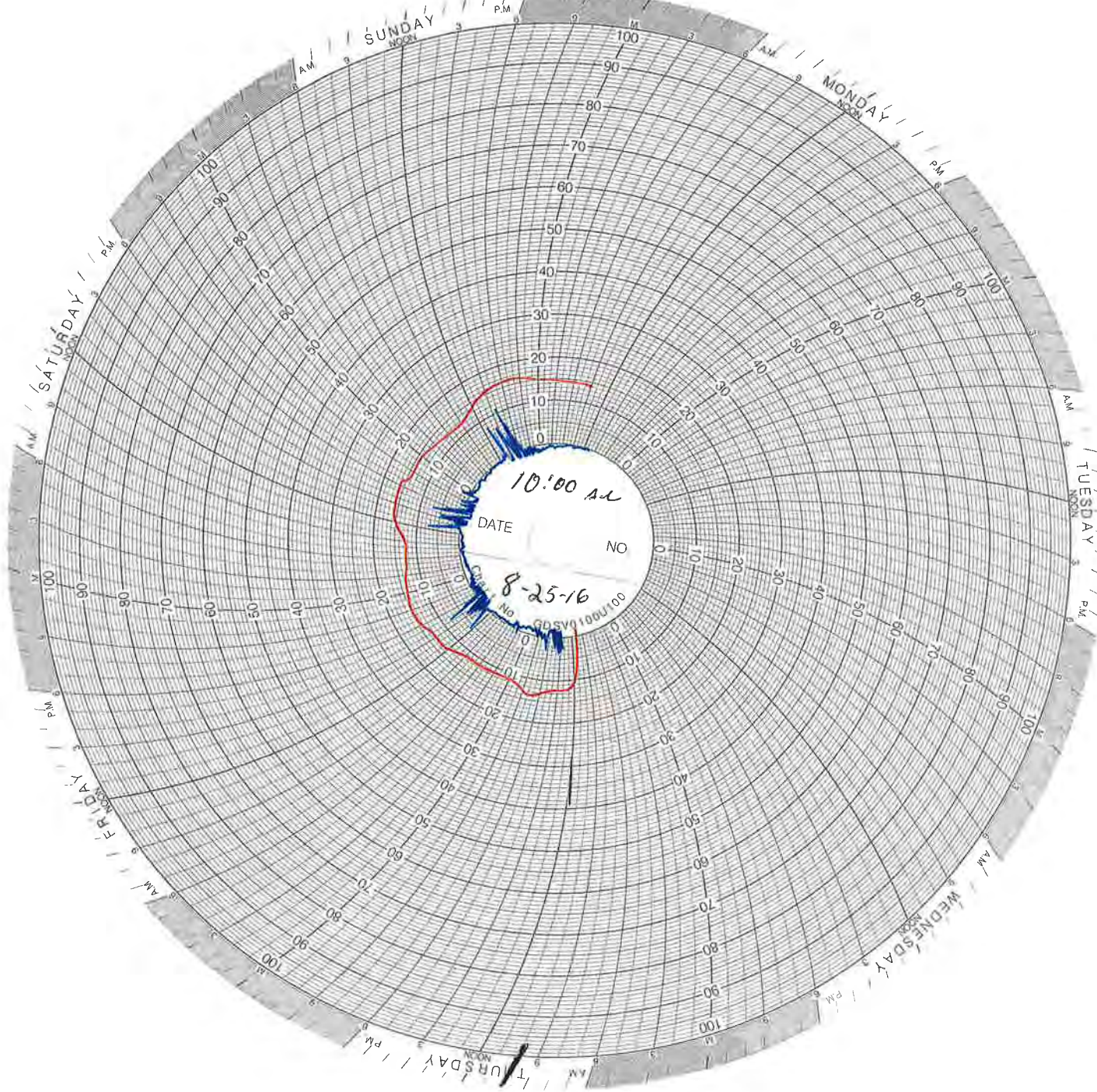


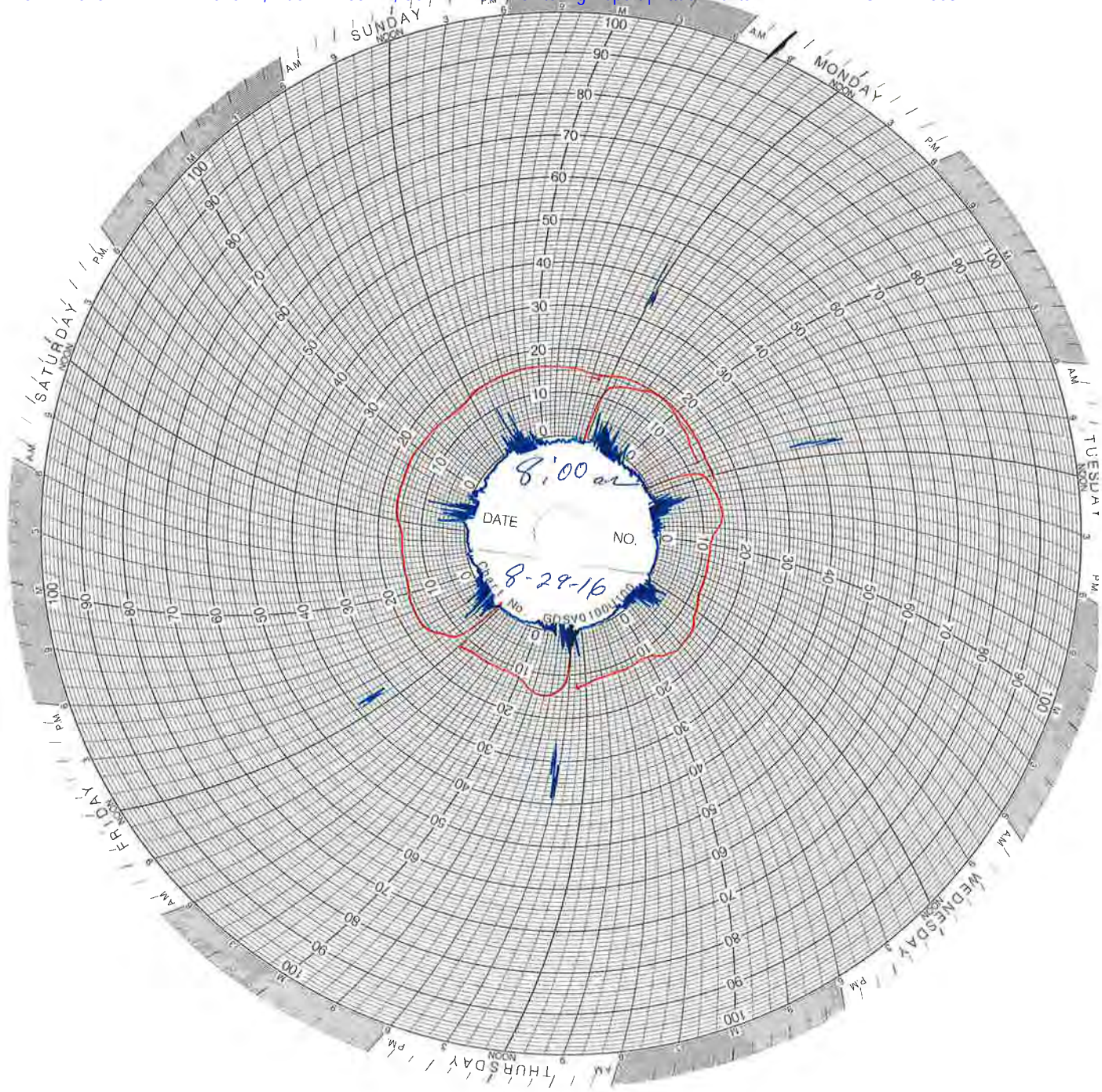


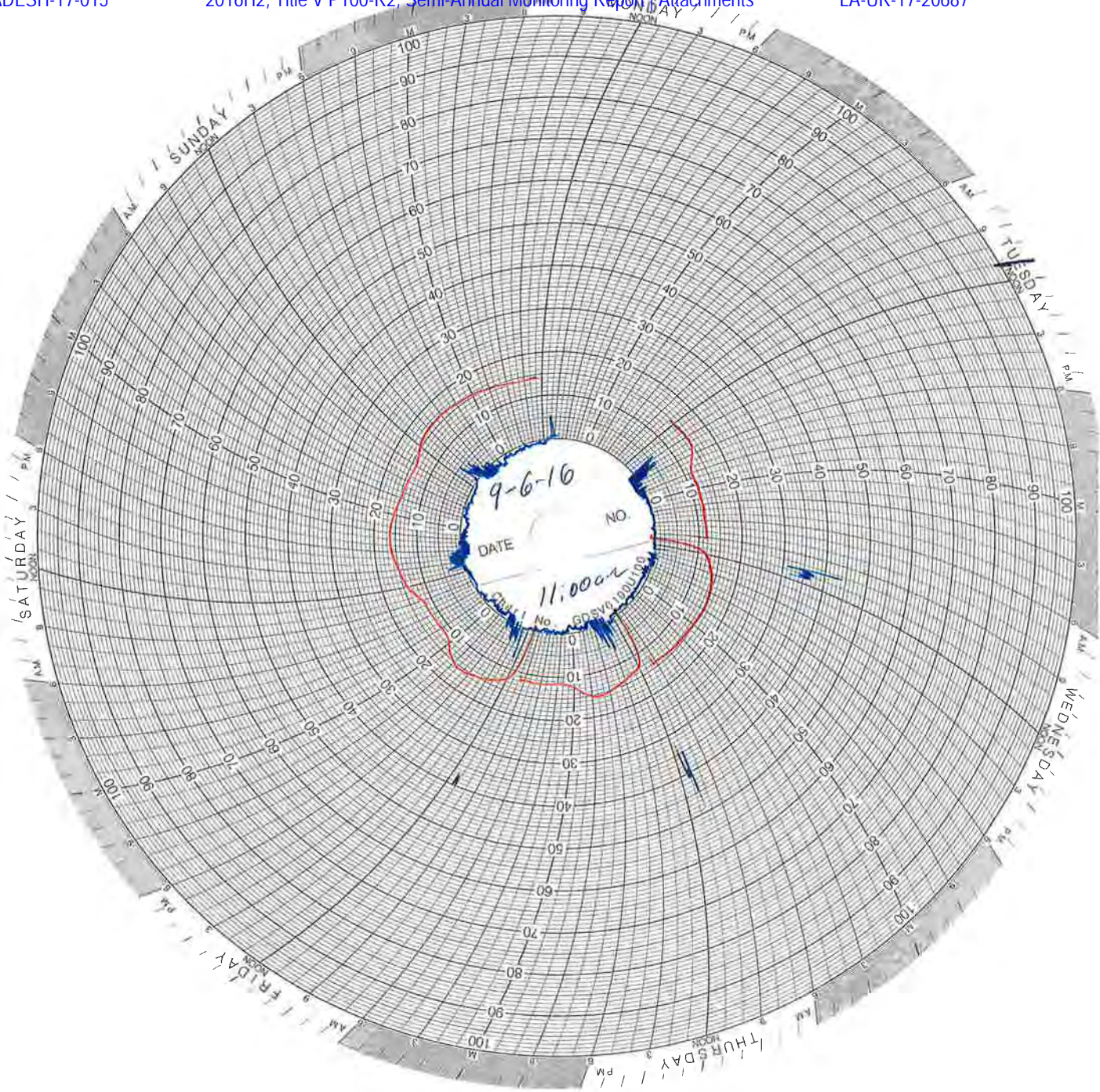


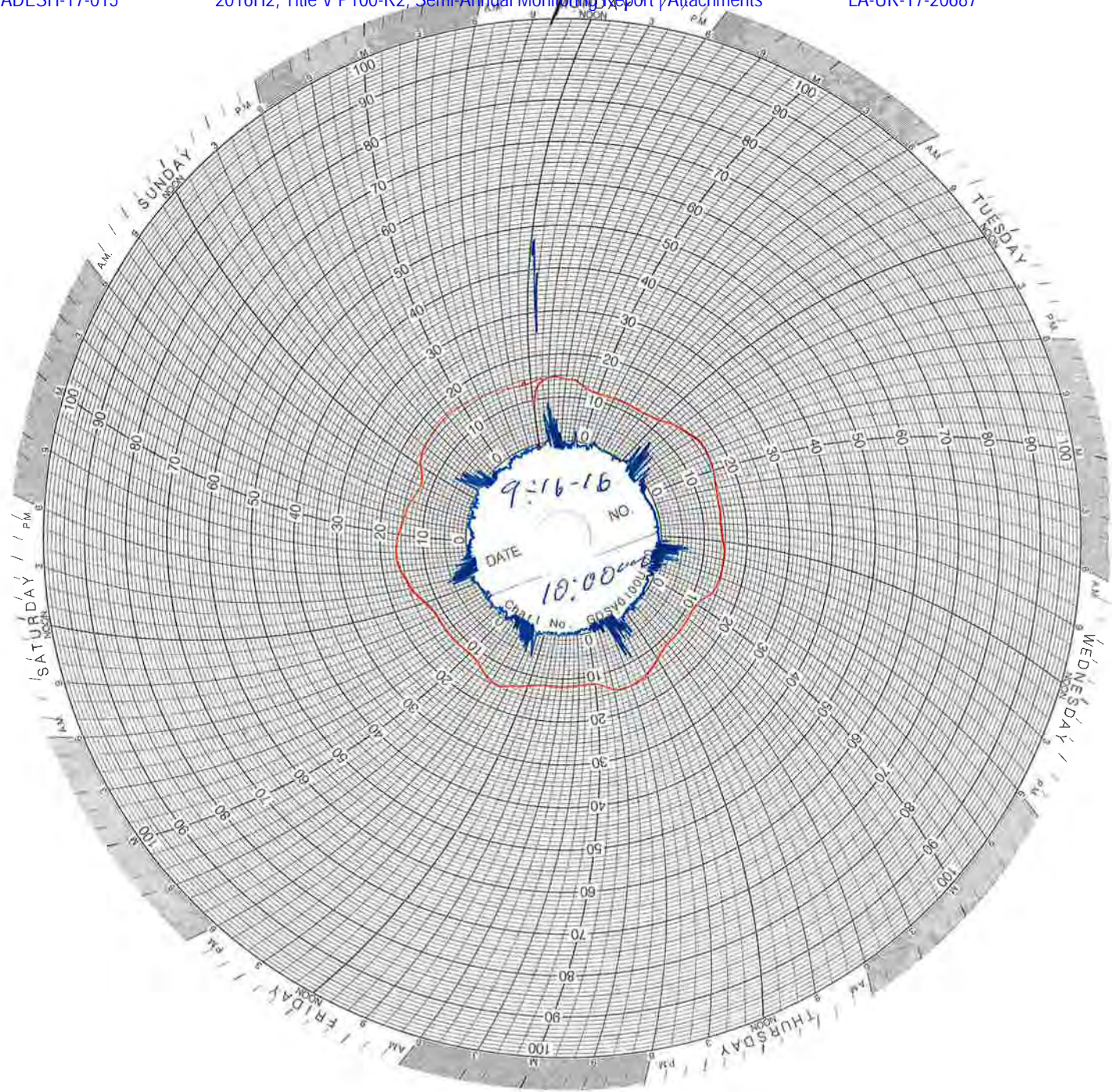


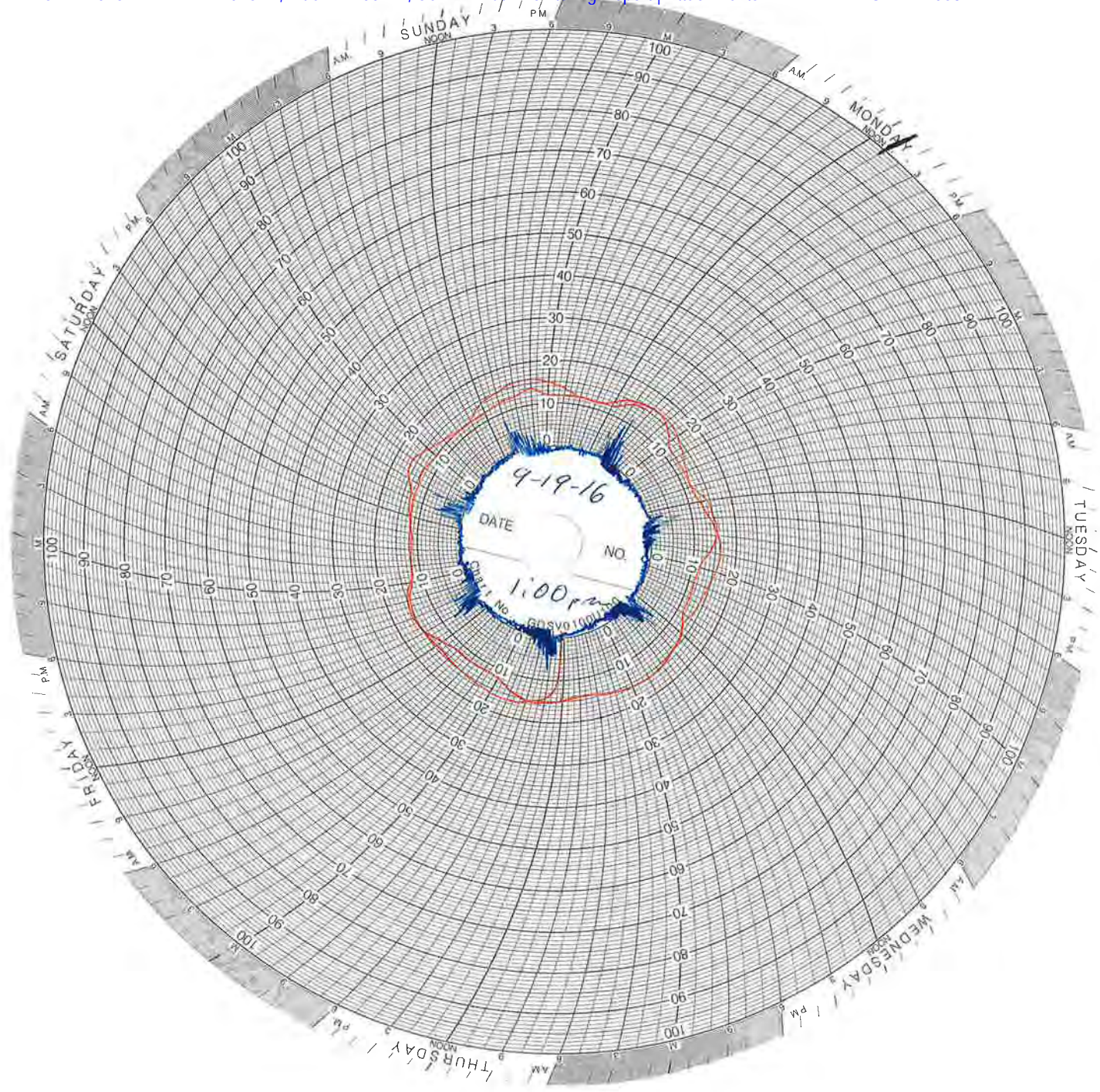


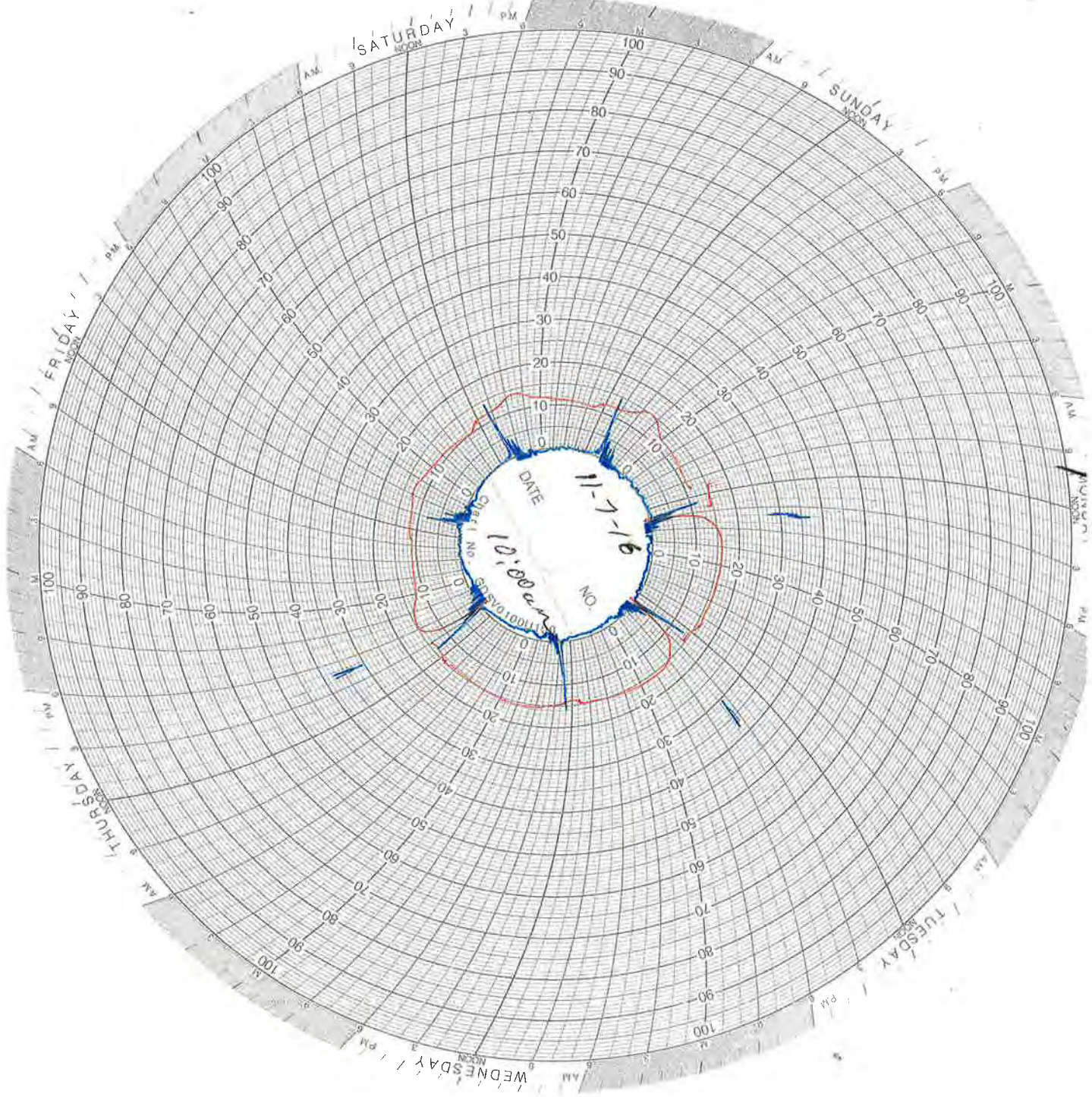


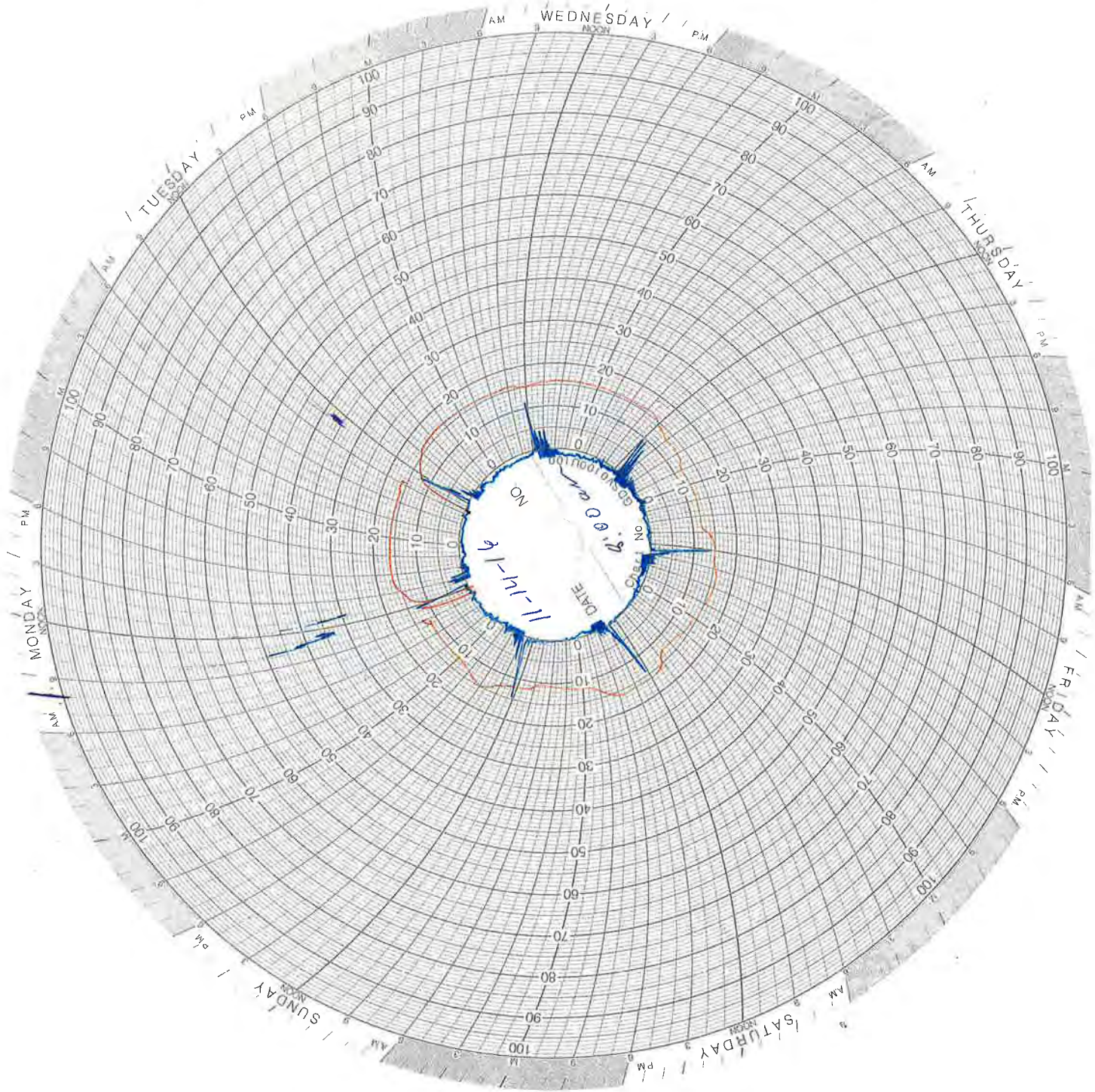


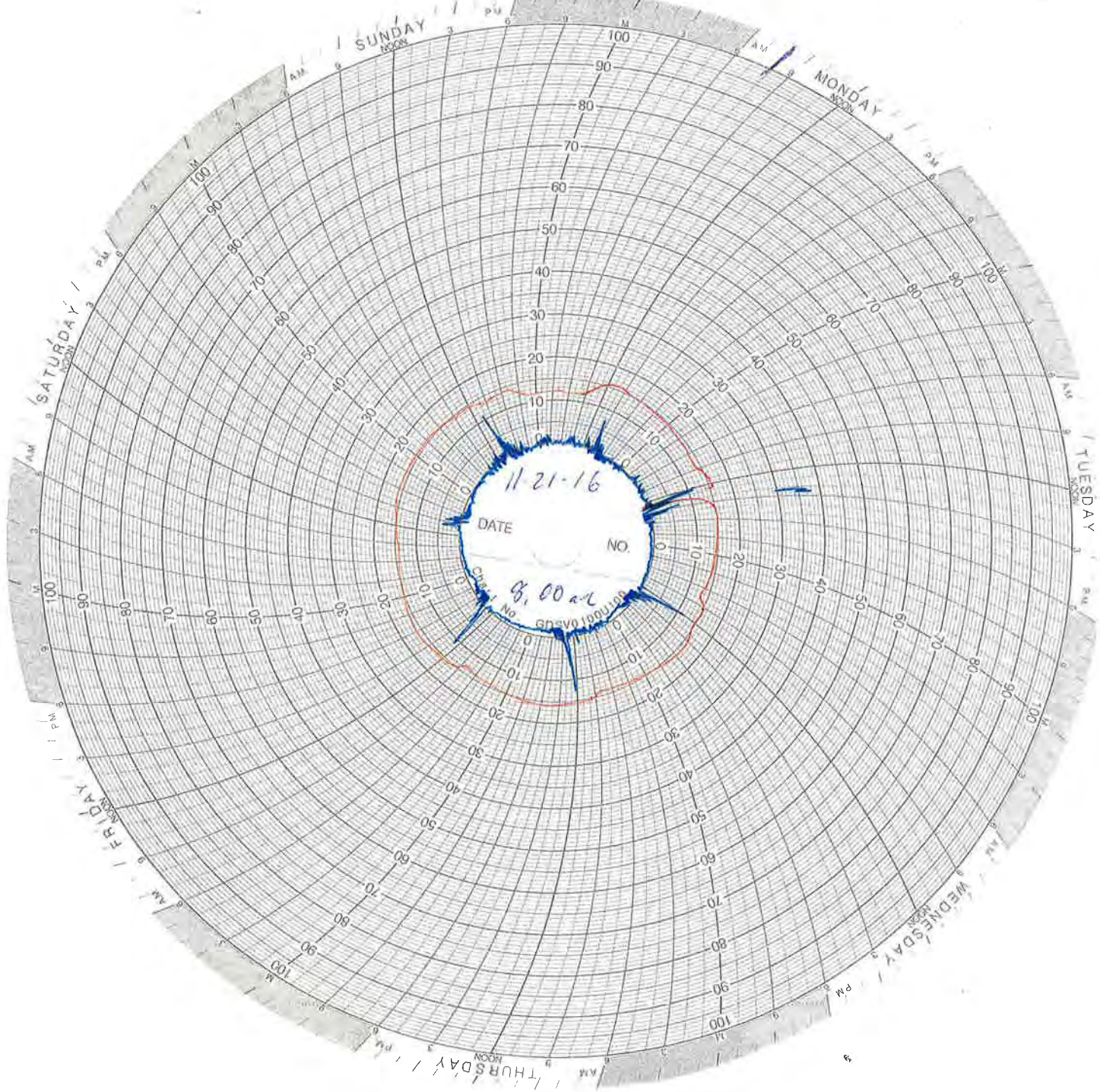


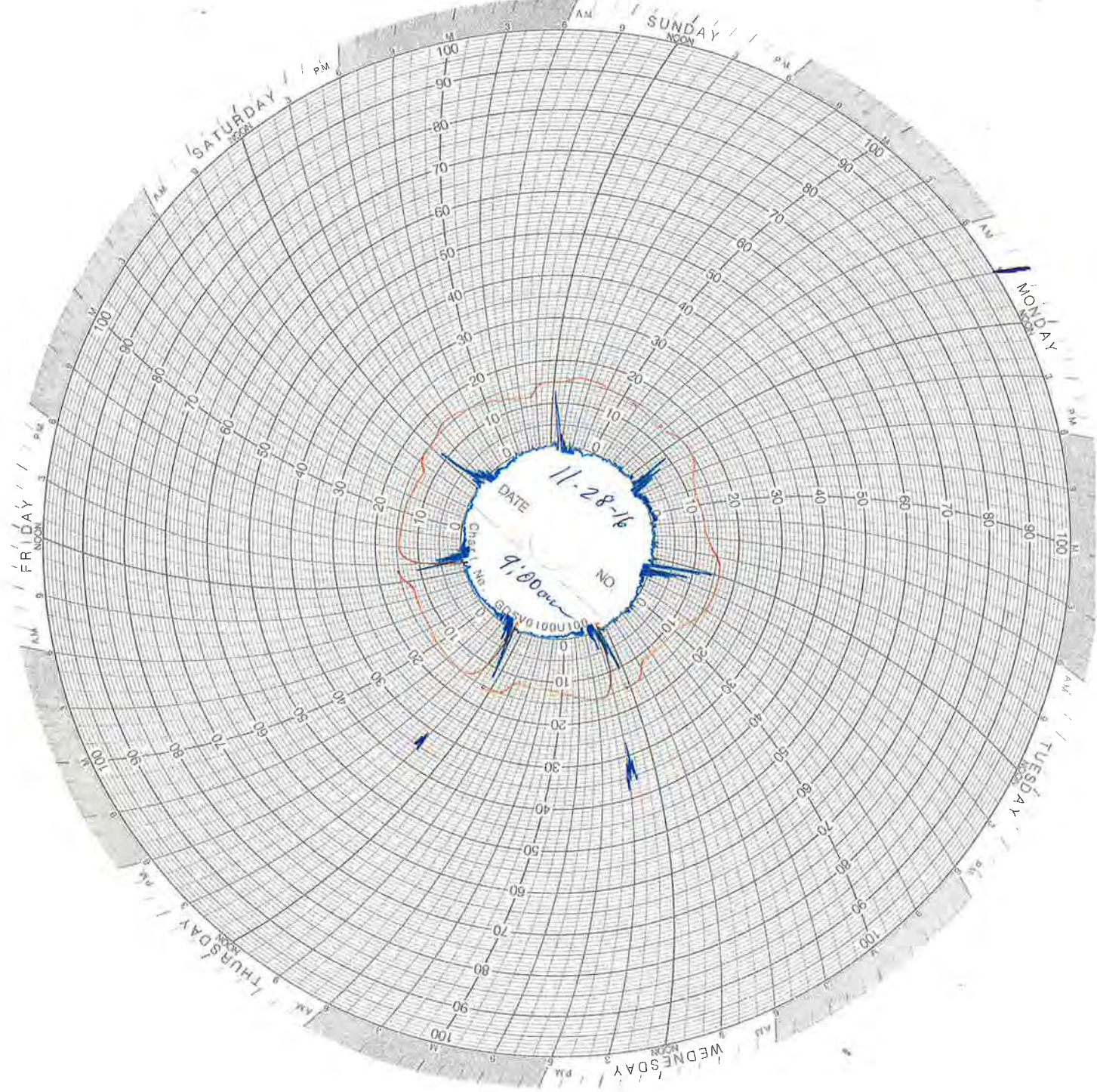


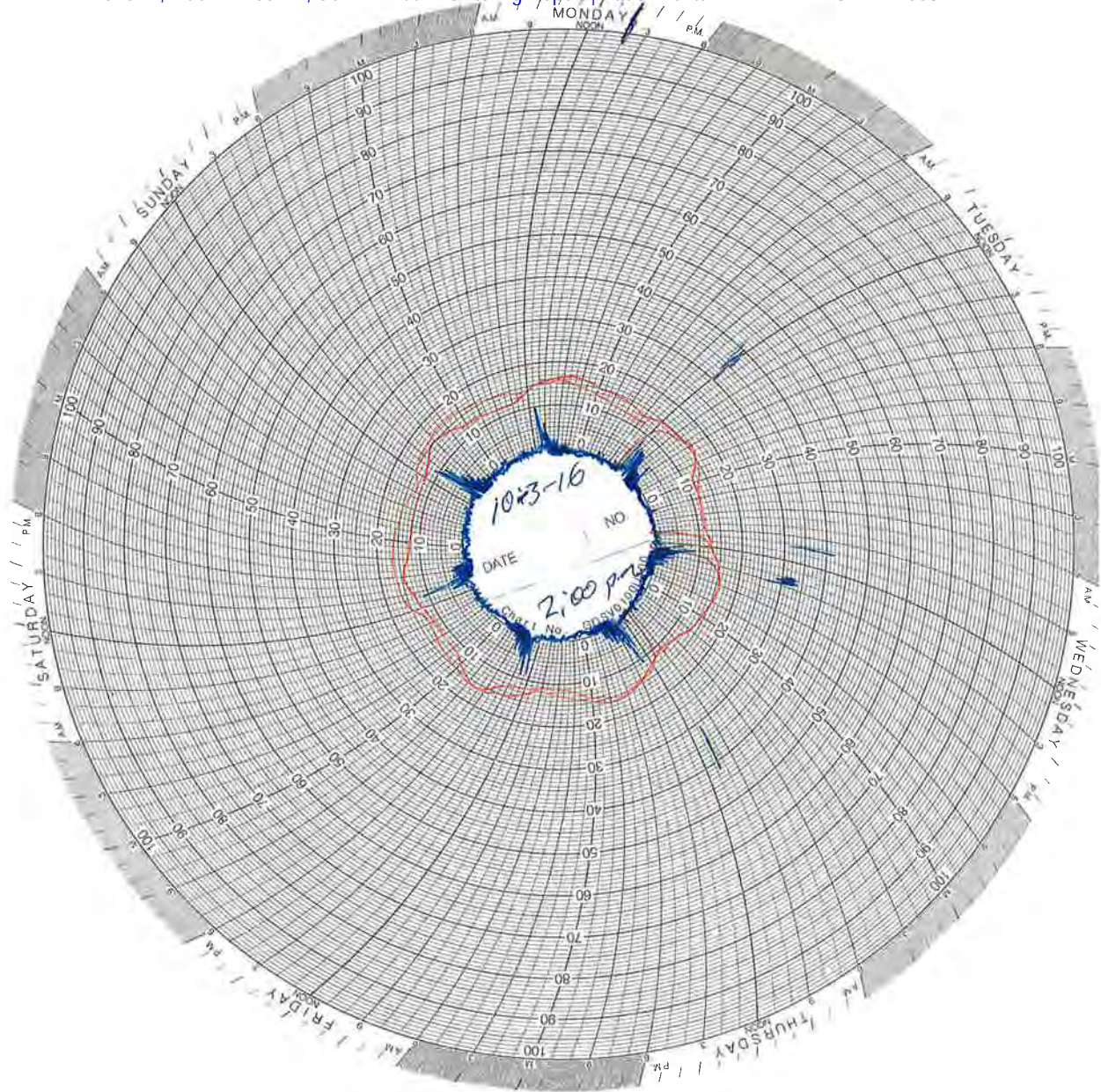


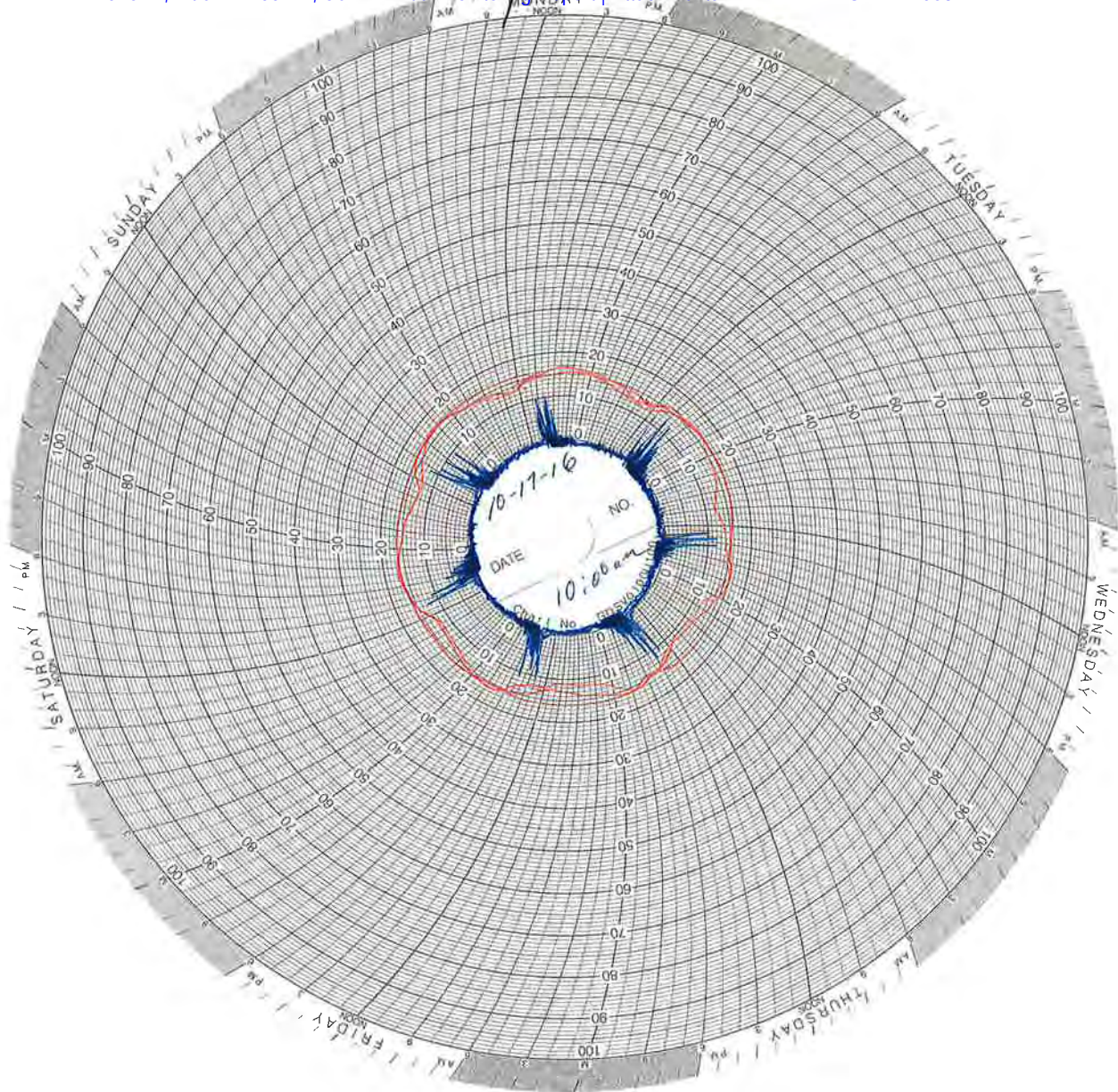


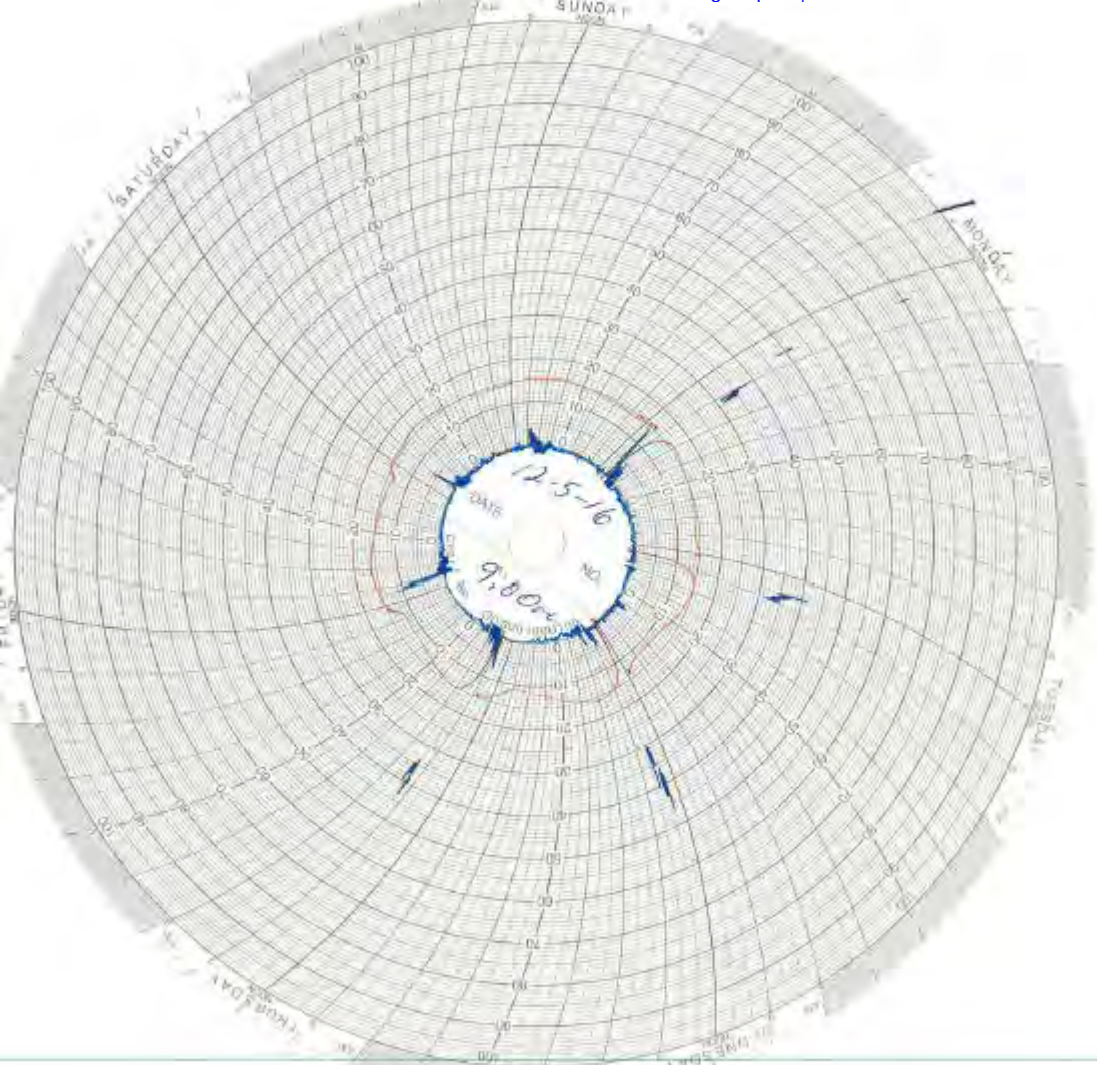


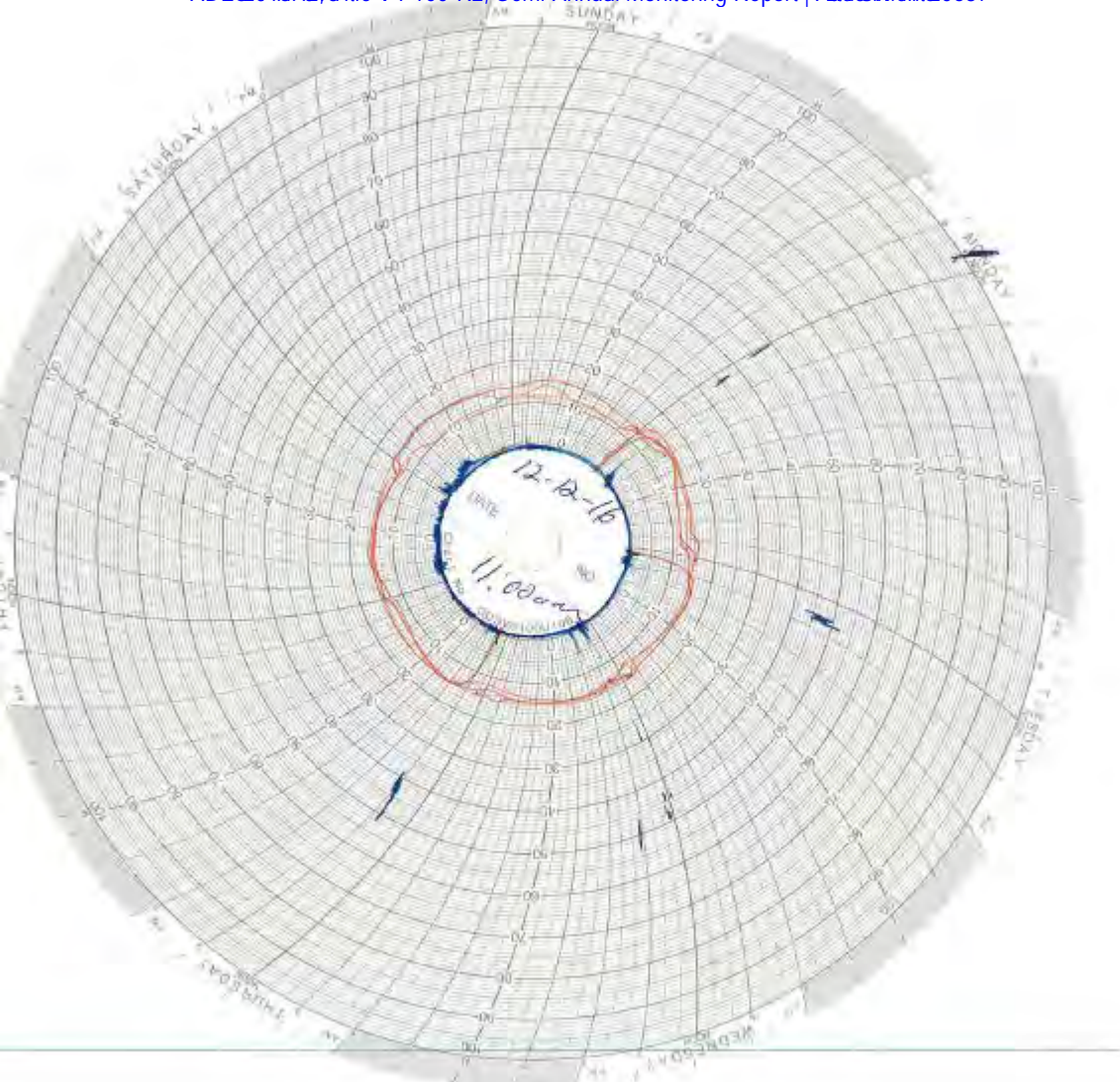












ATTACHMENT A607.C.

Asphalt Plant Method 9 Opacity Reports

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

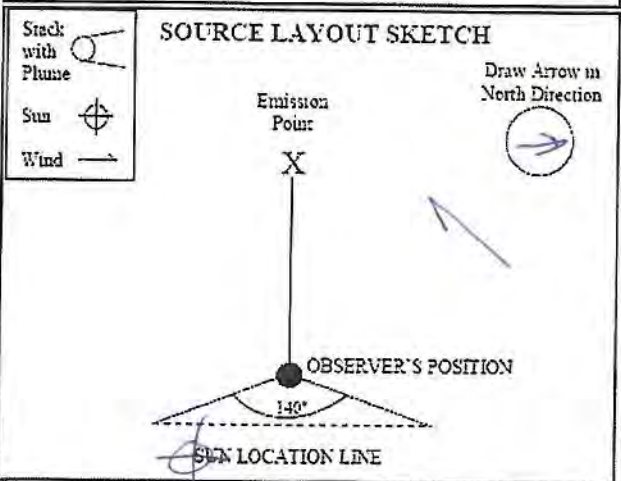
Ecology and Air Quality
Los Alamos National Laboratory



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

Source Name: 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 Coiling
 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 Sky
 Background Color: Blue | Sky Conditions: Clear
 Wind Speed: 5-10 mph | Wind Direction (provide from/to, i.e. from North to South): From NE
 Ambient Temperature: 74 °F | Relative Humidity: 34 %
 Additional Comments/Information:

Observation Date		Start Time				End Time
7/7/16		9:21				9:27
Min	Sec	0	15	30	45	Comments
1		0	0	0	0	
2		0	0	0	0	
3		0	0	0	0	
4		0	0	0	0	
5		0	0	0	0	
6		0	0	0	0	
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Average 6-Minute Opacity: 0 | Range of Opacity Readings: Min. 0 Max. 0

OBSERVER (please print):
 Name: C. Heintschel | Title: DEP
 Signature: | Date: 7/7/2016
 Observer Organization: DSESH-UIS
 Certified by: ETA | Certification Date: 2-25-16

THIS FORM IS FROM EAQ-307, R4

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Date: Thursday, July 7, 2016 | Time: 09:38 MDT (15:38 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 Metric			
Tower (tower)	TA6	TA49	TA53	TA54
Date (mm/dd)	07/07	07/07	07/07	07/07
Time (hhmm)	0600	0830	0830	0830
Wind Speed (mph)	7.8	9.2	4.9	5.4
Wind Direction (deg)	164	297	87	78
Max Gust (mph)	32.2	34.0	33.6	28.0
Max Gust Direction (deg)	170	304	297	288
Time of Max Gust (hhmm)	130	200	215	130
Temperature (deg-F)	73.9	76.6	76.5	78.1
Max Temp Since Midnight (deg-F)	77.2	76.6	76.5	78.1
Time of Max Temp (hhmm)		830	830	830
Min Temp Since Midnight (deg-F)	72.7	65.5	68.2	66.4
Time of Min Temp (hhmm)	515	500	430	530
Pressure (mb)	778.6	-	-	804.3
Relative Humidity (%)	34	25	24	22
Dew Point Temperature (deg-F)	44.2	39.2	37.2	37.0
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)	11	200	214	219
windchill (deg-C)	23.3	24.8	24.7	25.6

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

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Attachment 2, page 1 of 1

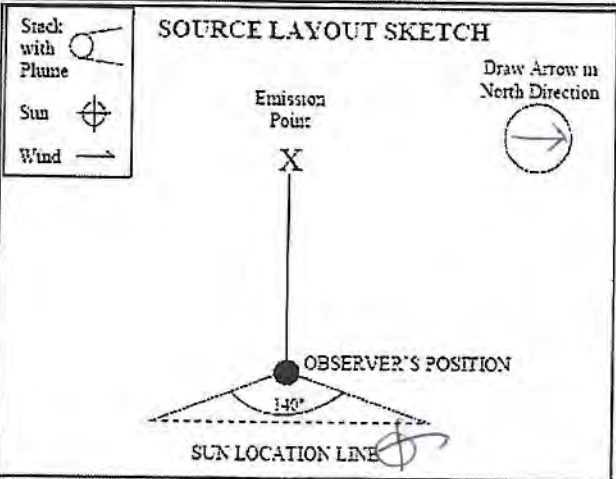
Ecology and Air Quality
Los Alamos National Laboratory



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 Flaming Coming
 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.): Blue Sky
Background Color: Blue | Sky Conditions: Clear
Wind Speed: 10-15 mph | Wind Direction: From SW
Ambient Temperature: 65 °F | Relative Humidity: 63 %
Additional Comments/Information:

Observation Date		Start Time				End Time
8/3/2016		11:01				11:07
Min	Sec	0	15	30	45	Comments
1		0	0	0	0	
2		0	0	0	0	
3		0	0	0	0	
4		0	0	0	0	
5		0	0	0	0	
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Average 6-Minute Opacity: 0 | Range of Opacity Readings: Min. 0 Max. 0
OBSERVER (please print): G. Heintschel | Title: DEP
Signature: | Date: 8/3/2016
Observer Organization: DESHS-015
Certified by: ETA | Certification Date: 2/25/2016

THIS FORM IS FROM EAQ-307, R4

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Date: Wednesday, August 3, 2016 | Time: 11:20 MDT (17:20 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 Metric			
Tower (tower)	TA6	TA49	TA53	TA54
Date (mm/dd)	08/03	08/03	08/03	08/03
Time (hhmm)	1000	1000	1000	1000
Wind Speed (mph)	9.4	12.5	11.0	11.4
Wind Direction (deg)	179	188	187	198
Max Gust (mph)	17.9	19.0	19.7	18.8
Max Gust Direction (deg)	179	188	166	198
Time of Max Gust (hhmm)	1000	1000	100	1000
Temperature (deg-F)	69.8	69.8	70.5	70.7
Max Temp Since Midnight (deg-F)	69.8	69.8	70.5	70.7
Time of Max Temp (hhmm)	1000	1000	1000	1000
Min Temp Since Midnight (deg-F)	56.7	57.9	58.5	59.4
Time of Min Temp (hhmm)	545	430	430	500
Pressure (mb)	781.2	-	-	806.8
Relative Humidity (%)	62	63	63	66
Dew Point Temperature (deg-F)	56.5	57.0	57.7	59.0
Precip Last 15 Minutes (in)	0.00	0.00	0.00	0.00
Precip Since Midnight (in)	0.20	0.51	0.18	0.67
Downwelling Shortwave (BTU/hr*ft^2)	274	260	273	281
windchill (deg-C)	21.0	21.0	21.4	21.5

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

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Attachment 2, page 1 of 1

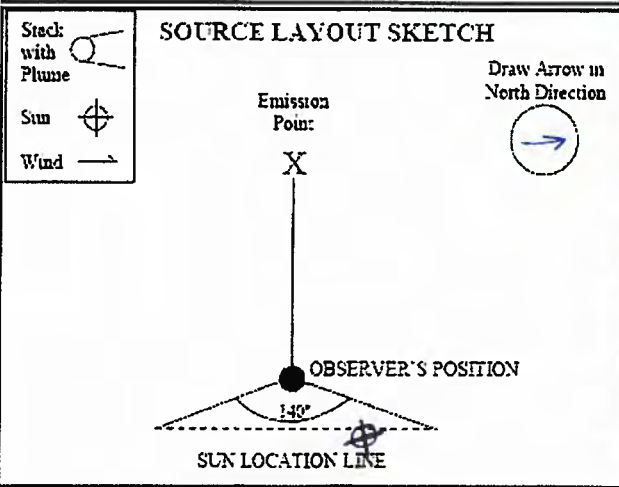
Ecology and Air Quality
Los Alamos National Laboratory



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

Source Name: TA-60 Asphalt Batch Plant
 Source Location: TA-60-233
 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: 28 Feet
 Distance From Observer: 75 Feet | Direction of Source From Observer: West
 Description of Plume (stack exit only):
 Lofting Trapping Looping Fanning Coning
 No Plume Present
 Emission Color: N/A | Plume Type: No Plume Present
 Continuous Fugitive Intermittent
 Water Droplets Present? NO YES IF YES, droplet plume is Attached Detached
 At what point in the plume was opacity determined? 2ft above stack top
 Describe Background (i.e. blue sky, trees, etc.): Gray Cloudy Sky
 Background Color: Gray | Sky Conditions: Cloudy
 Wind Speed: 0-5 mph | Wind Direction: From NE to SW
 Ambient Temperature: 59 °F | Relative Humidity: 94 %
 Additional Comments/Information:

Observation Date		Start Time		End Time		Comments
9/7/16		8:55 a.m.		9:01 a.m.		
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		
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Average 6-Minute Opacity: 0 | Range of Opacity Readings: Min. 0 Max. 0
 OBSERVER (please print): Julian Bursin | Title: DEP
 Signature: [Signature] | Date: 9/7/16
 Observer Organization: DESHS - CPCS
 Certified by: ETA | Certification Date: 8/24/16

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LOS ALAMOS NATIONAL LABORATORY

month	day	year	hour	minute	spd1	sdspd1	dir1	sddir1	w1	sdw1	temp0	rh	dewp	precip
mm	dd	yyyy	hh	mm	m/s	m/s	deg	deg	m/s	m/s	deg-C	%	deg-C	in
9	7	2016	8	45	0.8	0.55	10	39	0.07	0.15	15	90	13.4	0
9	7	2016	9	0	0.6	0.5	313	31	-0.05	0.14	15	88	13	0
9	7	2016	9	15	0.7	0.28	311	29	0.01	0.14	15.3	87	13.2	0



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: TA-60-233

Type of Source: Asphalt Plant Type of Control Equipment: Baghouse

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

Height Above Ground Level: 33 Feet Height Relative to Observer: 28 Feet

Distance From Observer: 75 Feet Direction of Source From Observer: W

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

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

Water Droplets Present? NO YES IF YES, droplet plume is Attached Detached

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

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

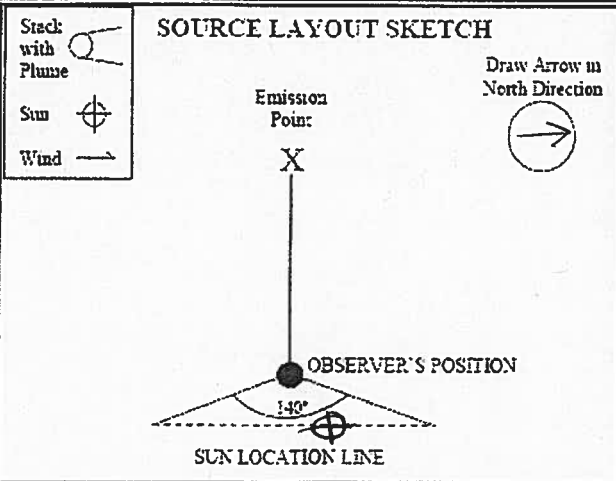
Background Color: Blue Sky Conditions: Clear

Wind Speed: 3 mph Wind Direction: W to E

Ambient Temperature: 54 °F Relative Humidity: 19 %

Additional Comments/Information:

Observation Date		Start Time			End Time	Comments
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	
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Average 6-Minute Opacity: 0 Range of Opacity Readings: Min. 0 Max. 0

OBSERVER (please print): Julian Burgin Title: DEP

Signature: Date: 10/4/16

Observer Organization: DESHS - CPES / uis

Certified by: ETA Certification Date: 8/24/16

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Request made on Tue Oct 04 11:23:44 2016 MST.

All data times are MST.

month	day	year	hour	minute	doy	spd1	dir1	temp0	rh	precip
mm	dd	yyyy	hh	mm	ddd	m/s	deg	deg-C	%	in
10	4	2016	10	40	278	3.3	84	12.4	19	0
						E		54.32		

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: **TA-60-233**

Type of Source: **Asphalt Plant** Type of Control Equipment: **Burnhouse**

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

Height Above Ground Level: **33** Feet Height Relative to Observer: **28** Feet

Distance From Observer: **75** Feet Direction of Source From Observer: **W**

Description of Plume (stack exit only)
 Lofting Trapping Looping Fanning Coiling
 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?
2ft above stack top

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

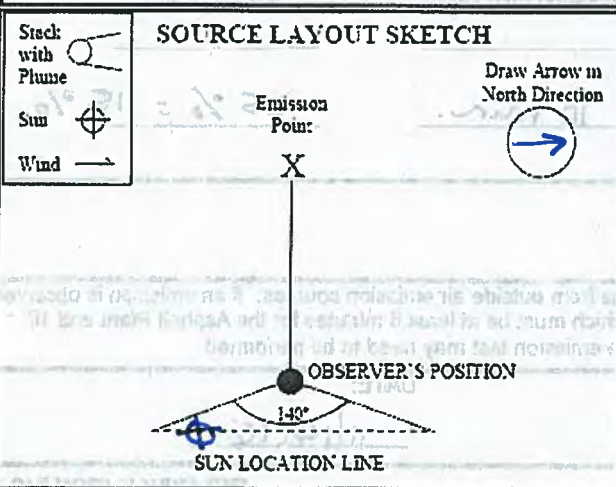
Background Color: **Blue** Sky Conditions: **Clear**

Wind Speed: **2.5** mph Wind Direction: **ENE to WSW**
 (provide from to, i.e. from North to South)

Ambient Temperature: **47** °F Relative Humidity: **40** %

Additional Comments/Information:

Observation Date		Start Time		End Time	Comments
11/14/2016		9:35		9:45	
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	
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Average 6-Minute Opacity: **0** Range of Opacity Readings: Min. **0** Max. **0**

OBSERVER (please print):
 Name: **William Burgin** Title: **DEP**

Signature: **W Burgin** Date: **11/14/16**

Observer Organization: **DESHS - ULS**

Certified by: **ETA** Certification Date: **8/24/16**

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Date: Monday, November 14, 2016 | Time: 09:57 MST (16:57 U

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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 Metric			
Tower (tower)	TA6	TA49	TA53	TA54
Date (mm/dd)	11/14	11/14	11/14	11/14
Time (hhmm)	0945	0945	0945	0945
Wind Speed (mph)	5.6	8.3	2.5	1.3
Wind Direction (deg)	49	42	76	48
Max Gust (mph)	11.9	15.0	11.2	9.6
Max Gust Direction (deg)	56	42	5	29
Time of Max Gust (hhmm)	930	945	415	815
Temperature (deg-F)	49.8	50.5	46.9	44.4
Max Temp Since Midnight (deg-F)	49.8	50.5	46.9	44.4
Time of Max Temp (hhmm)	915	945	945	945
Min Temp Since Midnight (deg-F)	37.2	40.5	39.0	27.9
Time of Min Temp (hhmm)	130	415	715	645
Pressure (mb)	781.7	-	-	808.4
Relative Humidity (%)	30	33	40	47
Dew Point Temperature (deg-F)	19.8	22.6	23.9	25.7
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)	165	156	169	225
Wind Chill (deg-F)	47.7	47.3	46.8	44.4

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

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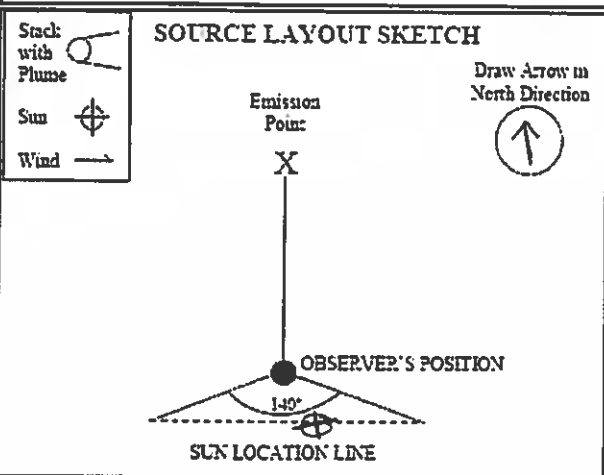
Ecology and Air Quality
Los Alamos National Laboratory



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

Source Name: **TA-60 Asphalt Batch Plant**
 Source Location: **TA-60-233**
 Type of Source: **Asphalt Plant** Type of Control Equipment: **Baghouse**
 Describe Emission Point (Top of stack, etc.): **Baghouse Stack**
 Height Above Ground Level: **33** Feet Height Relative to Observer: **28** Feet
 Distance From Observer: **60** Feet Direction of Source From Observer: **NW**
 Description of Plume (stack exit only):
 Lofting Trapping Looping Fanning Coaling
 No Plume Present
 Emission Color: **N/A** Plume Type: Continuous Fugitive Intermittent
 No Plume Present
 Water Droplets Present? NO YES If YES, droplet plume is Attached Detached
 At what point in the plume was opacity determined? **2ft above stack height**
 Describe Background (i.e. blue sky, trees, etc.): **Grey Sky**
 Background Color: **Grey** Sky Conditions: **Cloudy**
 Wind Speed: **10** mph Wind Direction (provide from to, i.e. from North to South): **S to N**
 Ambient Temperature: **31.8** °F Relative Humidity: **44** %
 Additional Comments/Information:

Observation Date		Start Time		End Time	Comments
Min	Sec	0	15	30	
12/6/16		11:30		11:36	
1		0	0	0	
2		0	0	0	
3		0	0	0	
4		0	0	0	
5		0	0	0	
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Average 6-Minute Opacity: **0** Range of Opacity Readings: Min. **0** Max. **0**

OBSERVER (please print)
 Name: **Julian Burgin, DEP** Title:
 Signature: **Julian Burgin** Date: **12/6/16**
 Observer Organization: **DESIS - UIS (LANL)**
 Certified by: **ETA** Certification Date: **8/24/16**

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Date: Tuesday, December 6, 2016 | Time: 11:57 MST (18:57 U)

The Weather Machine

LOS ALAMOS NATIONAL LABORATORY

LANL Observations

Regional/U.S. Observations

Forecast Products

LANL Climatology

Data Requests

LANL Welcome... [Today's Weather Almanac](#) »

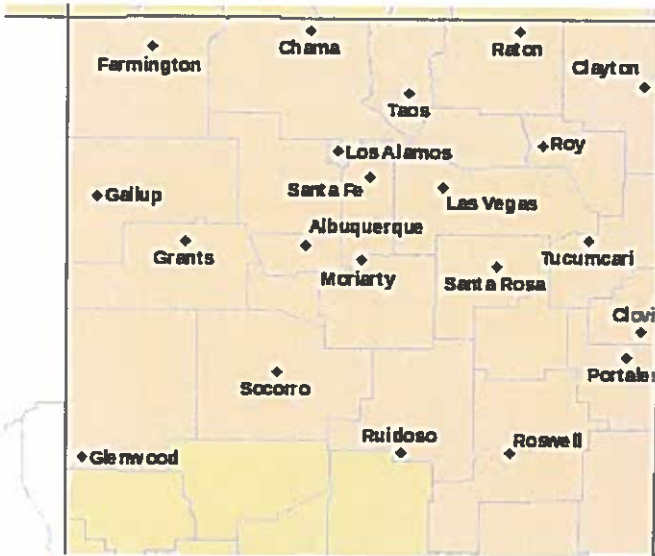


Welcome to the Weather Machine! The Weather Machine provides access to the latest meteorological observations, climatological information, and weather forecast products for the Los Alamos area. Questions/Comments? [Contact us](#) »

NATIONAL WEATHER SERVICE - LOS ALAMOS FORECAST

For the most current and accurate weather informat including forecasts, watches, warnings and advisori for the Los Alamos area, please go to the [National Weather Service Site](#)

Regional Weather Forecast Map...



[SHOW/HIDE LEGEND](#)

Click city to view National Weather Service Data

Hover over image for caption...

LANL Current Conditions... [More Data](#) »

Tower (tower):	TA6	TA49	TA53	TA54
Date (mm/dd):	12/6	12/6	12/6	12/6
Time (hh:mm):	11:45	11:45	11:45	11:45
Temp (°F):	30.4	31.3	31.8	34.0
Wind Chill (°F):	22.6	22.5	23.5	25.5
Dew Point (°F):	13.3	13.3	12.7	12.6
RH (%):	48	46	44	40
Speed (mph):	8.5	10.7	9.8	11.4
Dir (from):	S	S	S	S
Precip Today (in):	0.00	0.00	0.00	0.00

NOTE: All times are reported in MST.

Weather Related Links...

- [Los Alamos 7-Day Forecast](#)
- [Zone Forecast for Jemez Mountains](#)
- [Zone Forecast for Lower Chama Valley](#)
- [Zone Forecast for Santa Fe Metro Area](#)
- [Hazardous Weather Outlook](#)
- [NOAA Albuquerque Forecast Office](#)

Albuquerque Radar (Composite Reflectivity)...

ATTACHMENT A607.E.

Asphalt Plant

Daily Operation Log and 12-Month Rolling Production

2016 TA-60 BDM Asphalt Plant

Data Reviewed By / Date: S. Salzman, Jul 12, 2016; M. Stockton Jan 2017

Month	Data Entry		Month	Data Entry	
	Asphalt Produced (Tons)	12-Month Rolling Total		Asphalt Produced (Tons)	12-Month Rolling Total
January	5	445	July	80	3,356
February	30	461	August	87	3,481
March	142	546	September	37	3,639
April	75	560	October	36	3,719
May	0	528	November	47	3,805
June	89	617	December	71	4,132
6 mo. Total	341		6 mo. Total:	358	

Annual Hours			
Month	Hours	Month	Hours
Jan	1.3	Jul	4.8
Feb	6.2	Aug	8.0
Mar	10.3	Sep	3.8
Apr	5.6	Oct	2.8
May	0.0	Nov	4.9
Jun	6.9	Dec	5.4
Total:	30.2	Total:	29.6

2016 Asphalt Produced (Tons): 699

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

Annual Total (to date): **59.83** Hours

Hours are Limited to 4,380 per Year

ATTACHMENT A607.F.

Asphalt Plant Maintenance and Delivery Records



Logistics Division
Maintenance Operating Instruction
Asphalt Batch Plant Operations

41-20-001.3: ASPHALT BATCH PLANT PM INSPECTION & LUBRICATION CHECKLIST

	PM DATE: <u>9/21/16</u>	NEXT SCHEDULED PM DATE: <u>3/17</u>
TA- <u>60</u> BLDG- <u>233</u>	EQUIP. ID: <u>HOT PLANT</u>	PM #: <u>993752</u>

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

ASPHALT BATCH PLANT PREVENTATIVE MAINTENANCE INSPECTION AND LUBRICATION

STEP	ACTION / DESCRIPTION	S	U	Comments
1.0	PRE-MAINTENANCE INSTRUCTIONS			
1.1	Before beginning maintenance, follow applicable LO/TO procedures at the main control panel	✓		
2.0	ASPHALT PLANT MAINTENANCE			
2.1	Perform preventative maintenance of the asphalt plant equipment semi-annually.	✓		
3.0	LUBE/INSPECTION POINTS			
	FEEDER			
3.1	8 Pillow Blocks	✓		
3.2	1 Gear Box (Check Oil) <i>Add if Necessary</i>	✓		
3.3	2 Wheel bearings	✓		
3.4	Clear away stones and dust build up from any moving parts	✓		
	CONVEYOR BELT			
3.5	4 Pillow Blocks	✓		
3.6	1 Gear Box (Check Oil) <i>Add if Necessary</i>	✓		
3.7	Clear away stones and dust build up from any moving parts	✓		
	DRIER			
3.8	12 Pillow Blocks	✓		
3.9	1 Gear Box (Check Oil) <i>Add if Necessary</i>	✓		
3.10	Clear away stones and dust build up from any moving parts	✓		
3.11	Inspect the drum roller drive chain for mechanical integrity. Replace or repair any broken parts	✓		
3.12	Lube chain and idle gear	✓		
	HOT ELEVATOR			
3.13	2 Pillow Blocks	✓		
3.14	2 Flat Bearings	✓		
3.15	1 Gear Box (Check Oil) <i>Add if Necessary</i>	✓		
3.16	Clear away stones and dust build up from any moving parts	✓		
3.17	Inspect the elevator chain under the buckets for proper tension and mechanical integrity. Ensure no broken parts or damage exists. Adjust/replace if necessary	✓		
3.18	Inspect elevator buckets for aggregate buildup and metal wear. Repair and/or clean parts if necessary.	✓		
3.19	Inspect elevator bottom for excessive aggregate buildup. Remove and/or clean if evident.	✓		
	SHAKER AND SCREENING PLANT			
3.20	2 Bearing on Electric Motor	✓		
3.21	1 Gear Box (Check Oil) <i>Add if Necessary</i>	✓		
3.22	Screen Cloth Tension	✓		
3.23	Inspect even material feed and distribution into screen.	✓		
3.24	Tighten Loose Bolts	✓		
3.25	Drive Belt Tension	✓		
3.26	Support Springs	✓		
3.27	Clear away stones and dust build up from any moving parts	✓		



Maintenance & Site Services
 Maintenance Operating Instruction
Asphalt Batch Plant Operations

41-20-001.3: ASPHALT BATCH PLANT PM INSPECTION & LUBRICATION CHECKLIST

3.28	Inside the screen, inspect the feed and discharge wear plates for excessive buildup and wear. Repair and/or clean as needed	<input checked="" type="checkbox"/>		
ASPHALT BATCH PLANT PREVENTATIVE MAINTENANCE INSPECTION AND LUBRICATION				
STEP	ACTION / DESCRIPTION	S	U	Comments
	PUG MILL			
3.29	4 Pillow Blocks	<input checked="" type="checkbox"/>		
3.30	1 Gear Box (Check Oil) <i>Add if Necessary</i>	<input checked="" type="checkbox"/>		
3.31	Clear away stones and dust build up from any moving parts	<input checked="" type="checkbox"/>		
3.32	Inside the mill, inspect the 2 paddle assemblies and wear plates under the paddles for excessive buildup and wear. Repair and/or clean as needed	<input checked="" type="checkbox"/>		
	BAG HOUSE			
3.33	3 Flat Bearings	<input checked="" type="checkbox"/>		
3.34	4 Gear Box Points (Check Oil) <i>Add if Necessary</i>	<input checked="" type="checkbox"/>		
	EXHAUST FAN			
3.35	2 Pillow Blocks	<input checked="" type="checkbox"/>		
3.36	2 Fittings on Electric Motor	<input checked="" type="checkbox"/>		
	DAMPER CONTROL			
3.37	4 Flat Bearings	<input checked="" type="checkbox"/>		
	AIR COMPRESSOR			
3.38	Clean Air Filter	<input checked="" type="checkbox"/>		
3.39	Check Oil Level <i>Add if Necessary</i>	<input checked="" type="checkbox"/>		
	DUST RETURN SCREW			
3.40	1 Gear Box (Check Oil) <i>Add if Necessary</i>	<input checked="" type="checkbox"/>		
	HOT ASPHALT PUMP			
3.41	2 Fittings on Electric Motor	<input checked="" type="checkbox"/>		
	HOT OIL PUMP AND ELECTRIC MOTOR			
3.42	2 Fittings on Electric Motor	<input checked="" type="checkbox"/>		
	PROPANE PUMP			
3.43	2 Fittings	<input checked="" type="checkbox"/>		
4.0	POST-MAINTENANCE INSTRUCTIONS			
4.1	After completing maintenance, follow applicable LO/TO procedures at the main control panel	<input checked="" type="checkbox"/>		

REMARKS / ACTION REQUIRED:

VERIFICATION

CRAFT NAME: <i>David Shipman</i>	Z-NUMBER	DATE
CRAFT SIGNATURE: <i>David Shipman</i>	<i>256592</i>	<i>9/21/16</i>
SUPERINTENDENT NAME: <i>Joe Serna</i>	Z-NUMBER	DATE
SUPERINTENDENT SIGNATURE: <i>Joe Serna</i>	<i>109468</i>	<i>9-21-16</i>



Calibration Certificate

Limited Calibration

Standards & Calibration Laboratory

Mail Stop: D478



Contact: Jillian Burgin
 DESHS-CPCS Mail Stop: K481



Instrument Information:

Description:	Chart Recorder	File Number:	102405
Manufacturer:	Eurotherm Chessell	Property No:	N/A
Model:	392	Other ID:	TA 60 Asphalt Batch Plant
Serial Number:	USA 6245-004		

Calibration Information:

Calibration of the above item was achieved in a controlled environment through the use of equipment traceable to national standards. It is expected that for the duration of the calibration interval and under normal operational conditions, this item will remain within the tolerance limits specified. Unless otherwise stated, expressed measurement uncertainty represents a confidence level of approximately 95%, typically with a coverage factor of k=2.

Received Date:	October 12, 2016	Location of Test:	Area 102 - Pressure
Certified:	December 09, 2016	Normal Temperature:	23 °C
Expires:	December 09, 2017	Ambient Temperature:	23.0 °C
Cal Procedure/	DF-1267A	Ambient Humidity:	50 %RH
Method:		Item Received:	Limited
		Item Returned:	Limited

Results:

Evaluation of the device under test had all test points within the previously assigned tolerance of ± 2.70% of full scale (0.27 in H2O).

Calibration utilized customer provided Air Velocity Meter, File # 041309, Cal. Exp. Date: 5/11/2017.

This tolerance is limited because the calibration was done on site without the benefit of a controlled atmosphere or a precision pressure controller. This item was calibrated for pressure only.

Calibrated Equipment Used

File No.	Manufacturer	Model No.	Description	Cal. Date	Due Date
041309	TSI	9565-P	Multi-Function Ventilation Meter with 964 and 982 Prc	05/11/2016	05/11/2017

Calibration Instructions: Standard Calibration

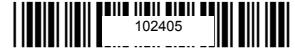
Special Instructions:

On Site Calibration.

File Number: 102405

File Number

Calibration Date: December 09, 2016



Certificate No. 58922

Before beginning work on this calibration, a review was performed to ensure that the requirements, including the methods to be used, were adequately defined, documented, and understood, and that the S&CL (or an approved subcontractor, if used) had the capabilities and resources to meet the requirements. Any differences between the request and Laboratory requirements or S&CL procedures or capabilities were resolved to the best of our ability before work commenced, with the goal of making the work performed acceptable both to the customer and to the LANL S&CL. Based on our review, an appropriate test or calibration method capable of meeting the requirements was selected; this method is indicated on this certificate on the line entitled "Calibration Procedure." Any deviations from S&CL standard calibration methods, procedures, or special requirements requested by the customer for calibration of this instrument were approved by S&CL and the customer prior to the commencement of work and are noted below.

Calibration Performed By:

Baer, Robert E QA Specialist

Reviewed By:

Archer, Waive 12/14/2016 7:47:17AM

Name Title Name Date

Measurements and associated uncertainties supplied by the Standards and Calibration Laboratory (S&CL) are traceable to the International System of Units through an unbroken chain of calibrations linking individual measurements to international, national, or intrinsic standards of measurement. Each calibration in this chain is performed by a qualified calibration source meeting DOE/NNSA requirements, which generally specify adherence to ISO 17025 General Requirements for the Competence of Testing and Calibration Laboratories. Where traceability to international, national, or intrinsic standards is not available, traceability is achieved in accordance with the requirements of ISO 17025.

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End of Document



Calibration Certificate



Standards & Calibration Laboratory
Mail Stop: D478

Contact: Jillian Burgin
DESHS-CPCS Mail Stop: K481



Instrument Information:

Description:	Magnehelic Gage	File Number:	102404
Manufacturer:	Dwyer	Property No:	N/A
Model:	2015	Other ID:	TA 60 Asphalt Batch Plant
Serial Number:	RG20724CH16		

Calibration Information:

Calibration of the above item was achieved in a controlled environment through the use of equipment traceable to national standards. It is expected that for the duration of the calibration interval and under normal operational conditions, this item will remain within the tolerance limits specified. Unless otherwise stated, expressed measurement uncertainty represents a confidence level of approximately 95%, typically with a coverage factor of k=2.

Received Date:	October 12, 2016	Location of Test:	Area 102 - Pressure
Certified:	January 03, 2017	Normal Temperature:	23 °C
Expires:	January 03, 2018	Ambient Temperature:	22.0 °C
Cal Procedure/	SCL-WI-032	Ambient Humidity:	19 %RH
Method:		Item Received:	In Tolerance
		Item Returned:	In Tolerance

Results:

This item was initially tested in the field and found out of tolerance. To confirm the out of tolerance condition, the gauge was removed and re-tested in the Standards and Calibration laboratory. All test points were found within the previously assigned tolerance of 2.7% of full scale. This tolerance is greater than the manufacturer's tolerance and, for that reason, this item is given a limited calibration.

For tolerance testing, a Test Uncertainty Ratio (TUR) of at least 4:1 was obtained or the results were guard banded to ensure conformance to the tolerance limits specified.

Calibrated Equipment Used

File No.	Manufacturer	Model No.	Description	Cal. Date	Due Date
000948	Ruska	7250lp	Pressure Controller	07/19/2016	07/19/2017
033779	Fluke/Hart Scientific	2626-H	Probe, Thermo-Hygrometer	03/24/2016	03/24/2017

Calibration Instructions: Standard Calibration

Special Instructions:
On Site Calibration.

File Number: 102404

File Number

Calibration Date: January 03, 2017



Certificate No. 58923

Before beginning work on this calibration, a review was performed to ensure that the requirements, including the methods to be used, were adequately defined, documented, and understood, and that the S&CL (or an approved subcontractor, if used) had the capabilities and resources to meet the requirements. Any differences between the request and Laboratory requirements or S&CL procedures or capabilities were resolved to the best of our ability before work commenced, with the goal of making the work performed acceptable both to the customer and to the LANL S&CL. Based on our review, an appropriate test or calibration method capable of meeting the requirements was selected; this method is indicated on this certificate on the line entitled "Calibration Procedure." Any deviations from S&CL standard calibration methods, procedures, or special requirements requested by the customer for calibration of this instrument were approved by S&CL and the customer prior to the commencement of work and are noted below.

Placed on hold 12/13/2016. Need to bring gauge into S&CL to verify field data. Awaiting confirmation from J. Burgin

Calibration Performed By:

Reviewed By:

Archer, Waive Test/Measurement Tec

Baer, Robert E 1/4/2017 2:05:52PM

Name

Title

Name

Date

Measurements and associated uncertainties supplied by the Standards and Calibration Laboratory (S&CL) are traceable to the International System of Units through an unbroken chain of calibrations linking individual measurements to international, national, or intrinsic standards of measurement. Each calibration in this chain is performed by a qualified calibration source meeting DOE/NNSA requirements, which generally specify adherence to ISO 17025 General Requirements for the Competence of Testing and Calibration Laboratories. Where traceability to international, national, or intrinsic standards is not available, traceability is achieved in accordance with the requirements of ISO 17025.

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End of Document



Calibration Certificate

Limited Calibration



Standards & Calibration Laboratory
Mail Stop: D478

Contact: Jillian Burgin
DESHS-CPCS Mail Stop: K481



Instrument Information:

Description:	Pressure Transmitter	File Number:	102403
Manufacturer:	Omega	Property No:	N/A
Model:	PX292-01 010WDI	Other ID:	TA 60 Asphalt Batch Plant
Serial Number:	06096608		

Calibration Information:

Calibration of the above item was achieved in a controlled environment through the use of equipment traceable to national standards. It is expected that for the duration of the calibration interval and under normal operational conditions, this item will remain within the tolerance limits specified. Unless otherwise stated, expressed measurement uncertainty represents a confidence level of approximately 95%, typically with a coverage factor of k=2.

Received Date:	October 12, 2016	Location of Test:	Area 102 - Pressure
Certified:	December 09, 2016	Normal Temperature:	23 °C
Expires:	December 09, 2017	Ambient Temperature:	23.0 °C
Cal Procedure/	SCL-DF-1267A	Ambient Humidity:	50 %RH
Method:		Item Received:	Limited
		Item Returned:	Limited

Results:

Evaluation of the device under test had all test points within the previously assigned tolerance of ± 2.70% of full scale (0.27 in H2O).

Calibration utilized customer provided Air Velocity Meter, File # 041309, Cal. Exp. Date: 5/11/2017.

This tolerance is limited because the calibration was done on site without the benefit of a controlled atmosphere or a precision pressure controller. This item was calibrated for pressure only.

Calibrated Equipment Used

File No.	Manufacturer	Model No.	Description	Cal. Date	Due Date
041309	TSI	9565-P	Multi-Function Ventilation Meter with 964 and 982 Prc	05/11/2016	05/11/2017

Calibration Instructions: Standard Calibration

Special Instructions:
On Site Calibration.

File Number: 102403

File Number

Calibration Date: December 09, 2016



Certificate No. 58924

Before beginning work on this calibration, a review was performed to ensure that the requirements, including the methods to be used, were adequately defined, documented, and understood, and that the S&CL (or an approved subcontractor, if used) had the capabilities and resources to meet the requirements. Any differences between the request and Laboratory requirements or S&CL procedures or capabilities were resolved to the best of our ability before work commenced, with the goal of making the work performed acceptable both to the customer and to the LANL S&CL. Based on our review, an appropriate test or calibration method capable of meeting the requirements was selected; this method is indicated on this certificate on the line entitled "Calibration Procedure." Any deviations from S&CL standard calibration methods, procedures, or special requirements requested by the customer for calibration of this instrument were approved by S&CL and the customer prior to the commencement of work and are noted below.

Calibration Performed By:

Reviewed By:

Baer, Robert E QA Specialist

Archer, Waive 12/14/2016 7:43:52AM

Name Title Name Date

Measurements and associated uncertainties supplied by the Standards and Calibration Laboratory (S&CL) are traceable to the International System of Units through an unbroken chain of calibrations linking individual measurements to international, national, or intrinsic standards of measurement. Each calibration in this chain is performed by a qualified calibration source meeting DOE/NNSA requirements, which generally specify adherence to ISO 17025 General Requirements for the Competence of Testing and Calibration Laboratories. Where traceability to international, national, or intrinsic standards is not available, traceability is achieved in accordance with the requirements of ISO 17025.

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Calibration Certificate

Limited Calibration

Standards & Calibration Laboratory

Mail Stop: D478



60241

Contact: Jillian Burgin
 DESHS-CPCS Mail Stop: K481



File Number

106788

Instrument Information:

Description:	Magnahelic Gauge	File Number:	106788
Manufacturer:	Dwyer	Property No:	N/A
Model:	0-15 PSIG	Other ID:	N/A
Serial Number:	N/A		

Calibration Information:

Calibration of the above item was achieved in a controlled environment through the use of equipment traceable to national standards. It is expected that for the duration of the calibration interval and under normal operational conditions, this item will remain within the tolerance limits specified. Unless otherwise stated, expressed measurement uncertainty represents a confidence level of approximately 95%, typically with a coverage factor of k=2.

Received Date:	January 03, 2017	Location of Test:	Area 102 - Pressure
Certified:	January 03, 2017	Normal Temperature:	23 °C
Expires:	January 03, 2018	Ambient Temperature:	22.8 °C
Cal Procedure/	SCL-WI-032	Ambient Humidity:	16 %RH
Method:		Item Received:	Limited
		Item Returned:	Limited

Results:

Evaluation of the device under test had all test points within alternate gauge's (102404) assigned limited tolerance of ± 2.70% of full scale (0.4 inWa).

For tolerance testing, a Test Uncertainty Ratio (TUR) of at least 4:1 was obtained or the results were guard banded to ensure conformance to the tolerance limits specified.

Calibrated Equipment Used

File No.	Manufacturer	Model No.	Description	Cal. Date	Due Date
000948	Ruska	7250p	Pressure Controller	07/19/2016	07/19/2017
033779	Fluke/Hart Scientific	2626-H	Probe, Thermo-Hygrometer	03/24/2016	03/24/2017

Calibration Instructions: Standard Calibration

Los Alamos

National Laboratory

Standards and Calibration Laboratory

File number of Device Under Test (DUT): 106788
 Category (Area & Subdivision): 102-03
 Item Name: Pressure Gauge
 Manufacturer: Dwyer
 Model Number: 15 inWa
 Calibration date: 1/3/2017
 Calibrated by: Waine Archer
 Air temperature: 22.79° RH 15.7%

File number(s) of the calibrated equipment used to calibrate the DUT:
000948 & 033779

DUT Range: 15 inWa
 Enter # of Decimal Places: 2
 DUT tolerance ± 2.70 % of full scale
 Calibration tolerance = ± 0.405 inWa

DUT Nominal Value	Standard Reading	Calibration Tolerance		
0.00	0.00	-0.41	to	0.41
3.00	3.00	2.60	to	3.41
6.00	6.10	5.60	to	6.41
9.00	9.10	8.60	to	9.41
12.00	12.10	11.60	to	12.41
15.00	15.00	14.60	to	15.41
0.00	0.00	-0.41	to	0.41

- In Tolerance
- Out of Tolerance

Los Alamos

National Laboratory

Standards and Calibration Laboratory

File number of Device Under Test (DUT): 102403
 Category (Area & Subdivision): 102-03
 Item Name: Pressure Transmitter
 Manufacturer: Omega
 Model Number: PX292-01 010WDI
 Calibration date: 12/9/2016
 Calibrated by: R. Baer/W. Archer
 Air temperature: Ambient

File number(s) of the calibrated equipment used to calibrate the DUT:

DUT Range: 10 inWa
 Enter # of Decimal Places: 2
 DUT tolerance ± 2.70 % of full scale
 Calibration tolerance = ± 0.27 inWa

DUT Nominal Value	Standard Reading	Deviation	Calibration Tolerance	
0.00	0.00	0.00	-0.27	to 0.27
1.93	2.01	0.08	1.66	to 2.20
4.05	4.02	-0.03	3.78	to 4.32
6.12	6.03	-0.09	5.85	to 6.39
8.07	8.03	-0.04	7.80	to 8.34
10.08	10.10	0.02	9.81	to 10.35
0.00	-0.02	-0.02	-0.27	to 0.27

- In Tolerance
- Out of Tolerance

Los Alamos

National Laboratory

Standards and Calibration Laboratory

File number of Device Under Test (DUT): 102404
 Category (Area & Subdivision): 102-03
 Item Name: Pressure Gauge
 Manufacturer: Dwyer Instruments
 Model Number: 2015
 Calibration date: 1/3/2107
 Calibrated by: Waine Archer
 Air temperature: 21.96°C RH 18.6%

File number(s) of the calibrated equipment used to calibrate the DUT:
000948 & 033779

DUT Range: 10 inWa
 Enter # of Decimal Places: 2
 DUT tolerance ± 2.70 % of full scale
 Calibration tolerance = ± 0.27 inWa

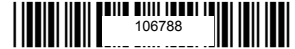
DUT Nominal Value	Standard Reading	Calibration Tolerance
0.00	0.00	-0.27 to 0.27
2.00	2.02	1.73 to 2.27
4.00	4.10	3.73 to 4.27
6.00	6.10	5.73 to 6.27
8.00	8.10	7.73 to 8.27
10.00	10.18	9.73 to 10.27
0.00	0.00	-0.27 to 0.27

- In Tolerance
- Out of Tolerance

File Number: 106788

File Number

Calibration Date: January 03, 2017



Certificate No. 60241

Before beginning work on this calibration, a review was performed to ensure that the requirements, including the methods to be used, were adequately defined, documented, and understood, and that the S&CL (or an approved subcontractor, if used) had the capabilities and resources to meet the requirements. Any differences between the request and Laboratory requirements or S&CL procedures or capabilities were resolved to the best of our ability before work commenced, with the goal of making the work performed acceptable both to the customer and to the LANL S&CL. Based on our review, an appropriate test or calibration method capable of meeting the requirements was selected; this method is indicated on this certificate on the line entitled "Calibration Procedure." Any deviations from S&CL standard calibration methods, procedures, or special requirements requested by the customer for calibration of this instrument were approved by S&CL and the customer prior to the commencement of work and are noted below.

Calibration Performed By:

Reviewed By:

Archer, Waive Test/Measurement Tec

Baer, Robert E 1/4/2017 2:10:28PM

<small>Name</small>	<small>Title</small>	<small>Name</small>	<small>Date</small>
---------------------	----------------------	---------------------	---------------------

Measurements and associated uncertainties supplied by the Standards and Calibration Laboratory (S&CL) are traceable to the International System of Units through an unbroken chain of calibrations linking individual measurements to international, national, or intrinsic standards of measurement. Each calibration in this chain is performed by a qualified calibration source meeting DOE/NNSA requirements, which generally specify adherence to ISO 17025 *General Requirements for the Competence of Testing and Calibration Laboratories*. Where traceability to international, national, or intrinsic standards is not available, traceability is achieved in accordance with the requirements of ISO 17025.

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End of Document

ATTACHMENT A607.G.

Asphalt Plant Method 22 Opacity Reports

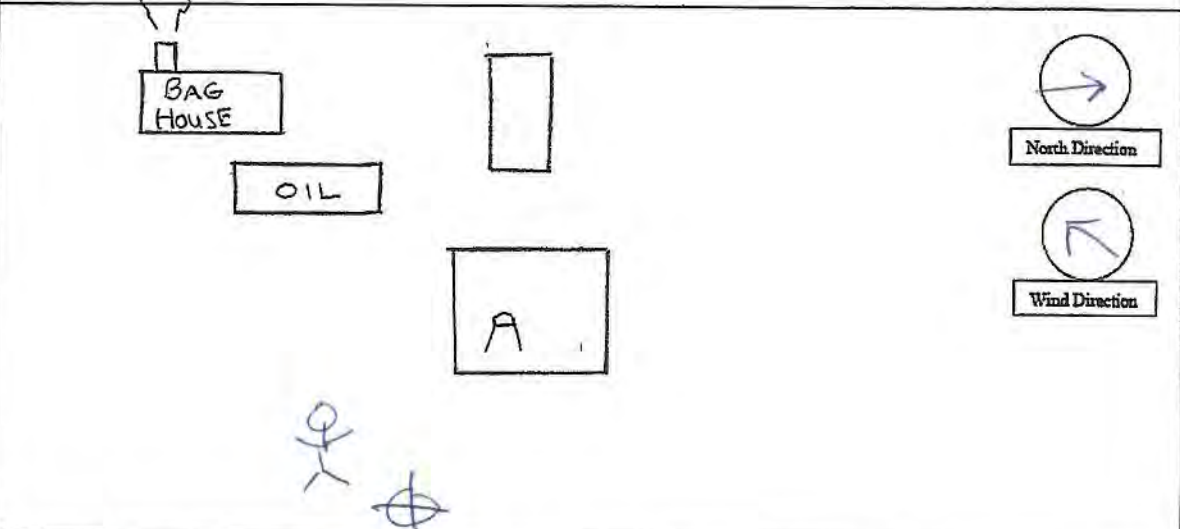
ENV-EAQ-307, R5
Attachment 3, page 1 of 1

Ecology and Air Quality
Los Alamos National Laboratory

**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: 7/7/2016
Sky Conditions: Clear	Wind Direction: From NE
Precipitation: ∅	Wind Speed: 0-5 mph
Industry: National Lab	Process Unit: Fugitive Emissions

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



Observations:	Clock Time	Observation period duration (min:sec)	Accumulated Emission Time(min:sec)
Begin	9:10	_____	_____
End Observation	9:20	10:00	1:30 → 1520

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: C. Heintschel DATE: 7/7/2016

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Date: Thursday, July 7, 2016 | Time: 09:38 MDT (15:38 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 Metric			
	TA6	TA49	TA53	TA54
Tower (tower)				
Date (mm/dd)	07/07	07/07	07/07	07/07
Time (hhmm)	0600	0830	0830	0830
Wind Speed (mph)	7.8	9.2	4.9	5.4
Wind Direction (deg)	164	297	87	78
Max Gust (mph)	32.2	34.0	33.6	28.0
Max Gust Direction (deg)	170	304	297	288
Time of Max Gust (hhmm)	130	200	215	130
Temperature (deg-F)	73.9	76.6	76.5	78.1
Max Temp Since Midnight (deg-F)	77.2	76.6	76.5	78.1
Time of Max Temp (hhmm)		830	830	830
Min Temp Since Midnight (deg-F)	72.7	65.5	68.2	66.4
Time of Min Temp (hhmm)	515	500	430	530
Pressure (mb)	778.6	-	-	804.3
Relative Humidity (%)	34	25	24	22
Dew Point Temperature (deg-F)	44.2	39.2	37.2	37.0
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)	11	200	214	219
windchill (deg-C)	23.3	24.8	24.7	25.6

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

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Attachment 3, page 1 of 1

Ecology and Air Quality
Los Alamos National Laboratory

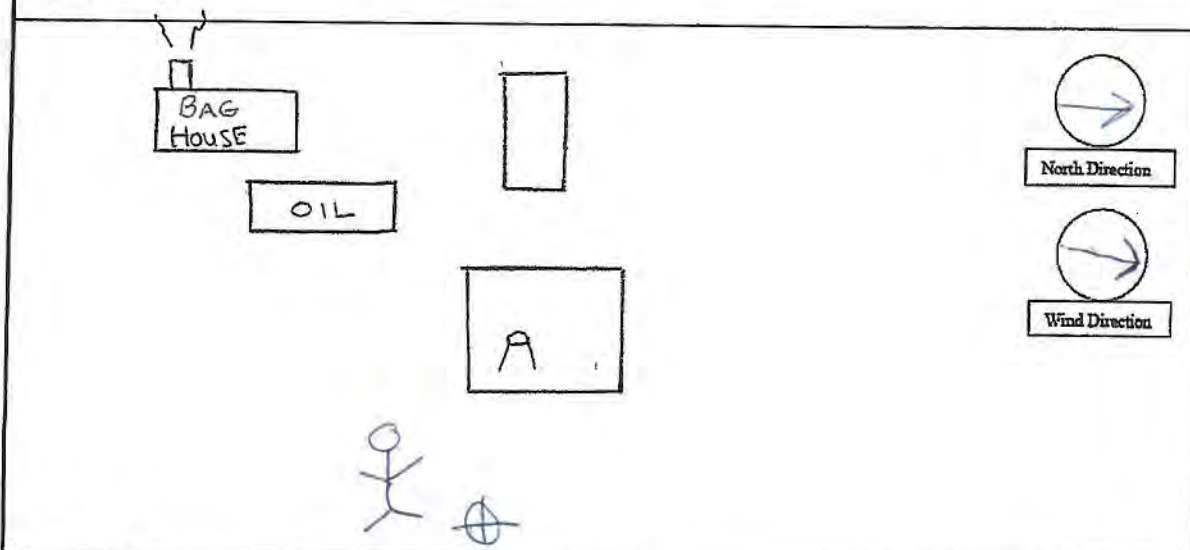
Los Alamos National Laboratory METHOD 22 Visual Determination of Fugitive Emissions Form

Location: TA60 Asphalt Batch Plant	Observer Affiliation: DESHS-VIS
Representative: C. Heintschel	Date of Inspection: 8/3/2016
Sky Conditions: Clear	Wind Direction: From SW
Precipitation: ∅	Wind Speed: 10-15 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	10:50	_____	_____
End Observation	11:00	10:00	105 = 15%

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: 8/3/2016
--------------------------------------	-------------------

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Date: Wednesday, August 3, 2016 | Time: 11:20 MDT (17:20 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:

Current Observations:	English Metric			
Tower (tower)	TA6	TA49	TA53	TA54
Date (mm/dd)	08/03	08/03	08/03	08/03
Time (hhmm)	1000	1000	1000	1000
Wind Speed (mph)	9.4	12.5	11.0	11.4
Wind Direction (deg)	179	188	187	198
Max Gust (mph)	17.9	19.0	19.7	18.8
Max Gust Direction (deg)	179	188	166	198
Time of Max Gust (hhmm)	1000	1000	100	1000
Temperature (deg-F)	69.8	69.8	70.5	70.7
Max Temp Since Midnight (deg-F)	69.8	69.8	70.5	70.7
Time of Max Temp (hhmm)	1000	1000	1000	1000
Min Temp Since Midnight (deg-F)	56.7	57.9	58.5	59.4
Time of Min Temp (hhmm)	545	430	430	500
Pressure (mb)	781.2	-	-	806.8
Relative Humidity (%)	62	63	63	66
Dew Point Temperature (deg-F)	56.5	57.0	57.7	59.0
Precip Last 15 Minutes (in)	0.00	0.00	0.00	0.00
Precip Since Midnight (in)	0.20	0.51	0.18	0.67
Downwelling Shortwave (BTU/hr*ft ²)	274	260	273	281
windchill (deg-C)	21.0	21.0	21.4	21.5

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

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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: <u>T-160 Asphalt Batch Plant</u>	Observer Affiliation: <u>RESHS-CPCS</u>		
Representative: <u>Jillian Burgin</u>	Date of Inspection: <u>9/7/16</u>		
Sky Conditions: <u>Cloudy</u>	Wind Direction: <u>NE to SW</u>		
Precipitation: <u>0</u>	Wind Speed: <u>0-5 mph</u>		
Industry: <u>National Lab (DOE)</u>	Process Unit: <u>Fugitive Emissions</u>		
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	<u>9:01 a.m.</u>	_____	_____
End Observation	<u>9:11 a.m.</u>	<u>10:00 min.</u>	<u>1.5 = 15%</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>Jillian Burgin</u>		<u>9/7/16</u>	

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month	day	year	hour	minute	spd1	sdspd1	dir1	sddir1	w1	sdw1	temp0	rh	dewp	precip
mm	dd	yyyy	hh	mm	m/s	m/s	deg	deg	m/s	m/s	deg-C	%	deg-C	in
9	7	2016	8	45	0.8	0.55	10	39	0.07	0.15	15	90	13.4	0
9	7	2016	9	0	0.6	0.5	313	31	-0.05	0.14	15	88	13	0
9	7	2016	9	15	0.7	0.28	311	29	0.01	0.14	15.3	87	13.2	0



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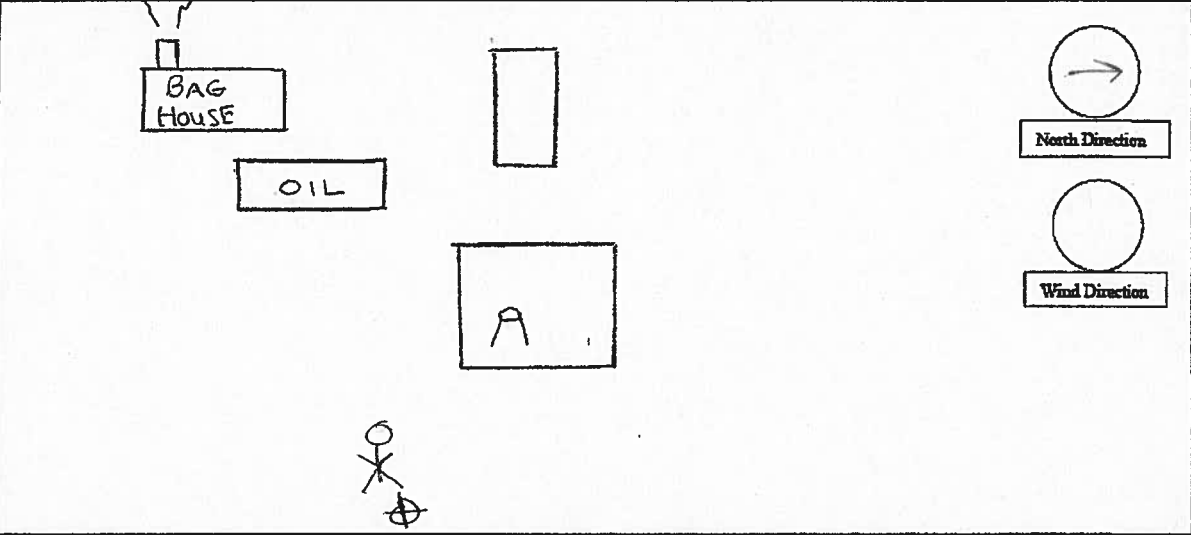
Los Alamos National Laboratory
METHOD 22 Visual Determination of Fugitive Emissions Form

Location: TA-60 Asphalt Batch Plant	Observer Affiliation: DESHS-CPCS/us
Representative: Julian Burgin	Date of Inspection: 10/4/16
Sky Conditions: Clear Blue	Wind Direction: W to E
Precipitation: ☔	Wind Speed: 3 mph
Industry: National Lab (DOE)	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	10:40 am.	_____	_____
	_____	10 min.	1.5% = 15%
End Observation	10:50 am.	_____	_____

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: 10/4/16
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Request made on Tue Oct 04 11:23:44 2016 MST.

All data times are MST.

month	day	year	hour	minute	doy	spd1	dir1	temp0	rh	precip
mm	dd	yyyy	hh	mm	ddd	m/s	deg	deg-C	%	in
10	4	2016	10	40	278	3.3	84	12.4	19	0
							E	54.32		

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

Ecology and Air Quality
Los Alamos National Laboratory

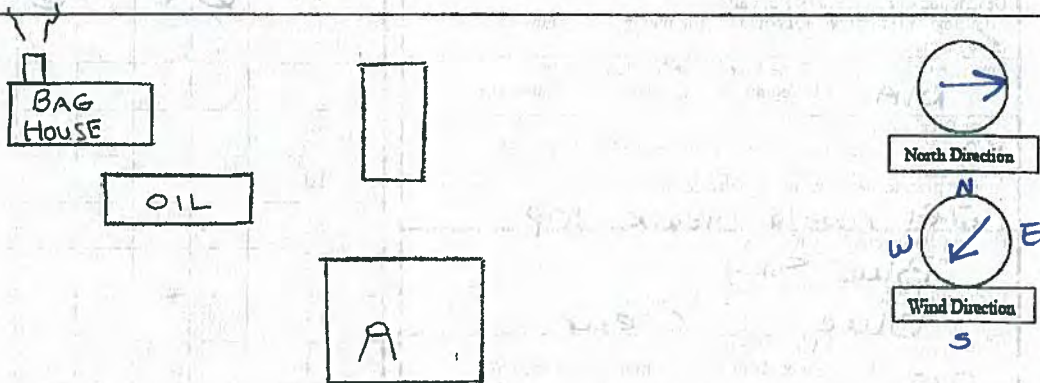
Los Alamos National Laboratory METHOD 22 Visual Determination of Fugitive Emissions Form

Location: <u>TA-60 Asphalt Batch Plant</u>	Observer Affiliation: <u>DESHS-UIS</u>
Representative: <u>Jillian Burgin</u>	Date of Inspection: <u>11/14/2016</u>
Sky Conditions: <u>Clear Blue</u>	Wind Direction: <u>ENE to WSW</u>
Precipitation: <u>0 %</u>	Wind Speed: <u>2.5 mph</u>
Industry: <u>National Lab (DOE)</u>	Process Unit: <u>Fugitive Emissions</u>

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	<u>9:35</u>	<u>10 min.</u>	<u>6.5 % = 15 %</u>
End Observation	<u>9:45</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: <u>Jillian Burgin</u>	DATE: <u>11/14/16</u>
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Date: Monday, November 14, 2016 | Time: 09:57 MST (16:57 U

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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 <u>Metric</u>			
Tower (tower)	<u>TA6</u>	<u>TA49</u>	<u>TA53</u>	<u>TA54</u>
Date (mm/dd)	11/14	11/14	11/14	11/14
Time (hhmm)	0945	0945	0945	0945
Wind Speed (mph)	5.6	8.3	2.5	1.3
Wind Direction (deg)	49	42	76	48
Max Gust (mph)	11.9	15.0	11.2	9.6
Max Gust Direction (deg)	56	42	5	29
Time of Max Gust (hhmm)	930	945	415	815
Temperature (deg-F)	49.8	50.5	46.9	44.4
Max Temp Since Midnight (deg-F)	49.8	50.5	46.9	44.4
Time of Max Temp (hhmm)	915	945	945	945
Min Temp Since Midnight (deg-F)	37.2	40.5	39.0	27.9
Time of Min Temp (hhmm)	130	415	715	645
Pressure (mb)	781.7	-	-	808.4
Relative Humidity (%)	30	33	40	47
Dew Point Temperature (deg-F)	19.8	22.6	23.9	25.7
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)	165	156	169	225
Wind Chill (deg-F)	47.7	47.3	46.8	44.4

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

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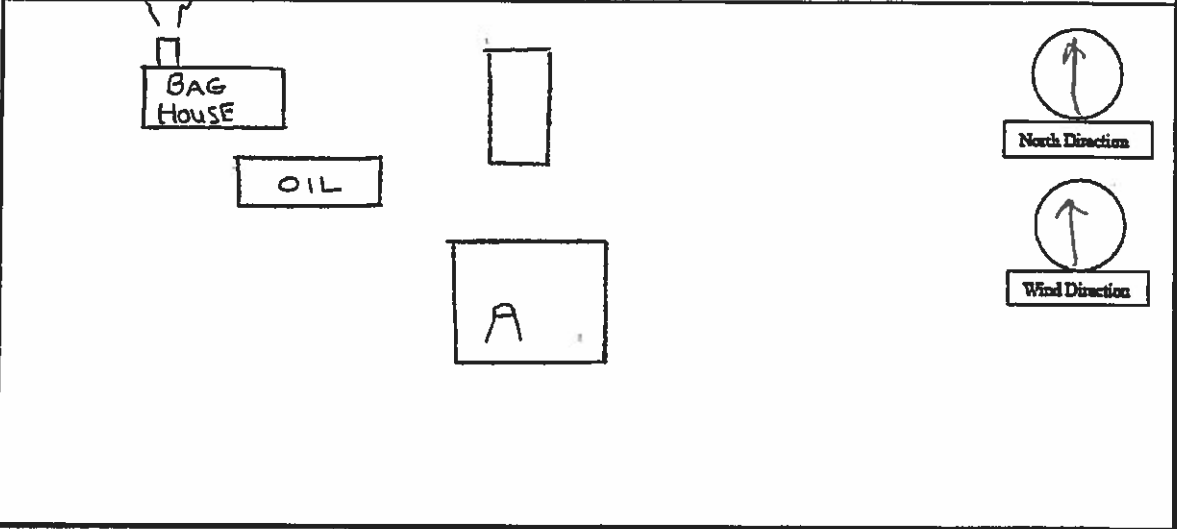
Los Alamos National Laboratory
METHOD 22 Visual Determination of Fugitive Emissions Form

Location: T460 Asphalt Batch Plant	Observer Affiliation: DESHS-UIS
Representative: Jillian Burgin	Date of Inspection: 12/6/16
Sky Conditions: Grey, Cloudy	Wind Direction: S to N
Precipitation: 0	Wind Speed: 10 mph
Industry: National Lab (DOE)	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	11:30 a.m.	_____	_____
End Observation	11:40 a.m.	10 mins.	1.5% = 15%

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: 12/6/16
---	-------------------------

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Date: Tuesday, December 6, 2016 | Time: 11:57 MST (18:57 U)

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	Tower (tower):	TA6	TA49	TA53	TA54
	Date (mm/dd):	12/6	12/6	12/6	12/6
	Time (hh:mm):	11:45	11:45	11:45	11:45
	Temp (°F):	30.4	31.3	31.8	34.0
	Wind Chill (°F):	22.6	22.5	23.5	25.5
	Dew Point (°F):	13.3	13.3	12.7	12.6
	RH (%):	48	46	44	40
	Speed (mph):	8.5	10.7	9.8	11.4
	Dir (from):	S	S	S	S
	Precip Today (in):	0.00	0.00	0.00	0.00

NOTE: All times are reported in MST.

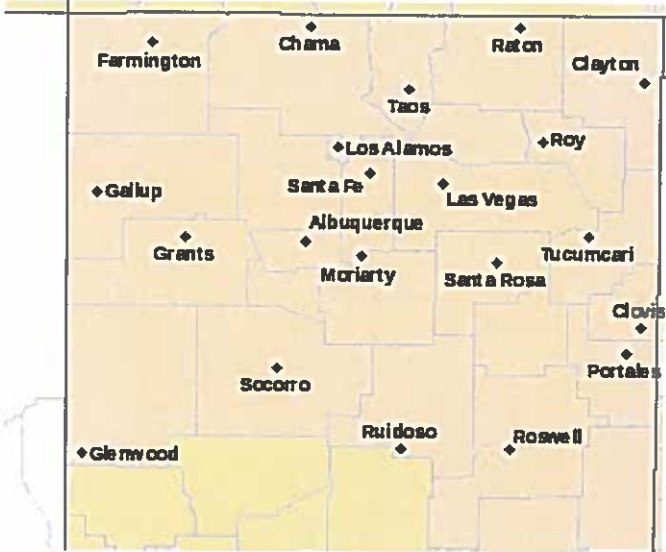
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- [Zone Forecast for Jemez Mountains](#)
- [Zone Forecast for Lower Chama Valley](#)
- [Zone Forecast for Santa Fe Metro Area](#)
- [Hazardous Weather Outlook](#)
- [NOAA Albuquerque Forecast Office](#)

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Albuquerque Radar (Composite Reflectivity)...

ATTACHMENT A707.B.a.

Beryllium

TA-03-0066 Beryllium Logs

July 1, 2016 - December 31, 2016

Metallography	Date	Number of Metallographic Specimens Used in the Polishing Operation
	Jul-Dec 2016	0

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

July 1, 2016 - December 31, 2016

Electroplating/Chemical Milling	Date	Weight or Volume of Beryllium Samples Processed	UOM
	Jul -Dec 2016	0	

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

July 1, 2016 - December 31, 2016: **SM-66**

Machining	Date	Weight or Volume of Beryllium Samples Processed	UOM
	Jul-Dec 2016	0	

Arc Melting/Casting	Date	Weight or Volume of Beryllium Samples Processed	UOM
	Jul-Dec 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

July		August		September		October		November		December	
Date	Hours	Date	Hours	Date	Hours	Date	Hours	Date	Hours	Date	Hours
6-Jul-2016	2	9-Aug-2016	2	6-Sep-2016	6	3-Oct-2016	5	3-Nov-2016	3	5-Dec-2016	6
7-Jul-2016	2	10-Aug-2016	6	7-Sep-2016	6	4-Oct-2016	6	4-Nov-2016	5	6-Dec-2016	7
12-Jul-2016	4	11-Aug-2016	6	8-Sep-2016	6	5-Oct-2016	5	7-Nov-2016	5	7-Dec-2016	7
13-Jul-2016	6	15-Aug-2016	3	9-Sep-2016	6	6-Oct-2016	3	8-Nov-2016	6	8-Dec-2016	6
14-Jul-2016	4	16-Aug-2016	6	19-Sep-2016	5	18-Oct-2016	5	9-Nov-2016	6	12-Dec-2016	7
19-Jul-2016	3	17-Aug-2016	5	20-Sep-2016	4	19-Oct-2016	4	14-Nov-2016	3	13-Dec-2016	7
20-Jul-2016	4	18-Aug-2016	7	21-Sep-2016	5	20-Oct-2016	6	15-Nov-2016	4	14-Dec-2016	3
26-Jul-2016	6	22-Aug-2016	6	22-Sep-2016	4	21-Oct-2016	6	16-Nov-2016	6	15-Dec-2016	4
27-Jul-2016	2	23-Aug-2016	4	23-Sep-2016	6	24-Oct-2016	5	17-Nov-2016	7	16-Dec-2016	6
		24-Aug-2016	5	26-Sep-2016	5	25-Oct-2016	4			19-Dec-2016	7
		25-Aug-2016	5	27-Sep-2016	5	26-Oct-2016	5			20-Dec-2016	8
		30-Aug-2016	2	28-Sep-2016	4	27-Oct-2016	6			21-Dec-2016	8
				29-Sep-2016	4	31-Oct-2016	6				
Total Hours	33		57		66		66		45		76
Total hours for July 1 - December 31, 2016:		343									

ATTACHMENT A707.C.a.

Beryllium

TA-03-0141 Beryllium HEPA Filter Differential Pressure Readings

NM STATE REPORTING

HEPA 1				HEPA 2				HEPA 1				HEPA 2				HEPA 1				HEPA 2								
DAY	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00	
1	0.68	0.73	0.68	0.53	0.56	0.53	0.91	0.99	0.85	0.77	0.71	0.71	0.58	0.55	0.54	0.77	0.71	0.71	0.77	0.58	0.55	0.54	0.77	0.71	0.71	0.58	0.55	0.54
2	0.70	0.68	0.72	0.54	0.53	0.55	0.61	0.90	0.97	0.76	0.72	0.69	0.56	0.56	0.53	0.69	0.71	0.69	0.76	0.56	0.56	0.53	0.69	0.71	0.69	0.56	0.56	0.53
3	0.67	0.71	0.70	0.52	0.54	0.55	0.86	1.00	1.05	0.69	0.71	0.70	0.54	0.54	0.53	0.69	0.71	0.70	0.69	0.54	0.54	0.53	0.69	0.71	0.70	0.54	0.54	0.53
4	0.69	0.71	0.72	0.53	0.54	0.54	0.87	1.03	1.00	0.72	0.71	0.71	0.54	0.54	0.53	0.72	0.71	0.71	0.72	0.54	0.54	0.53	0.72	0.71	0.71	0.54	0.54	0.53
5	0.71	0.74	0.71	0.54	0.57	0.54	0.94	1.03	1.20	0.69	0.72	0.71	0.54	0.55	0.54	0.69	0.72	0.71	0.69	0.54	0.55	0.54	0.69	0.72	0.71	0.69	0.54	0.55
6	0.76	0.72	0.71	0.56	0.55	0.55	1.10	1.09	1.11	0.69	0.72	0.70	0.53	0.54	0.53	0.69	0.72	0.70	0.69	0.53	0.54	0.53	0.69	0.72	0.70	0.69	0.53	0.54
7	0.75	0.71	0.71	0.57	0.55	0.54	0.99	1.09	1.15	0.69	0.70	0.70	0.54	0.54	0.53	0.69	0.70	0.70	0.69	0.54	0.54	0.53	0.69	0.70	0.70	0.69	0.54	0.54
8	0.66	0.70	0.69	0.53	0.53	0.53	0.92	1.05	1.12	0.69	0.70	0.69	0.53	0.53	0.53	0.69	0.70	0.69	0.69	0.53	0.53	0.53	0.69	0.70	0.69	0.69	0.53	0.53
9	0.68	0.69	0.70	0.52	0.52	0.54	0.89	1.09	1.14	0.69	0.70	0.69	0.53	0.53	0.54	0.69	0.70	0.69	0.69	0.53	0.53	0.54	0.69	0.70	0.69	0.69	0.53	0.53
10	0.68	0.71	0.72	0.53	0.55	0.54	1.00	1.11	1.13	0.69	0.70	0.71	0.53	0.55	0.54	0.69	0.70	0.71	0.69	0.53	0.55	0.54	0.69	0.70	0.71	0.69	0.53	0.55
11	0.68	0.73	0.68	0.53	0.56	0.53	0.91	0.99	0.85	0.77	0.71	0.71	0.58	0.55	0.54	0.77	0.71	0.71	0.77	0.58	0.55	0.54	0.77	0.71	0.71	0.58	0.55	0.54
12	0.70	0.68	0.72	0.54	0.53	0.55	0.61	0.90	0.97	0.76	0.72	0.69	0.56	0.56	0.53	0.69	0.71	0.69	0.76	0.56	0.56	0.53	0.69	0.71	0.69	0.56	0.56	0.53
13	0.67	0.71	0.70	0.52	0.54	0.55	0.86	1.00	1.05	0.69	0.71	0.70	0.54	0.54	0.53	0.69	0.71	0.70	0.69	0.54	0.54	0.53	0.69	0.71	0.70	0.54	0.54	0.53
14	0.69	0.71	0.72	0.53	0.54	0.54	0.87	1.03	1.00	0.72	0.71	0.71	0.54	0.54	0.53	0.72	0.71	0.71	0.72	0.54	0.54	0.53	0.72	0.71	0.71	0.54	0.54	0.53
15	0.71	0.74	0.71	0.54	0.57	0.54	0.94	1.03	1.20	0.69	0.72	0.71	0.54	0.55	0.54	0.69	0.72	0.71	0.69	0.54	0.55	0.54	0.69	0.72	0.71	0.69	0.54	0.55
16	0.76	0.72	0.71	0.56	0.55	0.55	1.10	1.09	1.11	0.69	0.72	0.70	0.53	0.54	0.53	0.69	0.72	0.70	0.69	0.53	0.54	0.53	0.69	0.72	0.70	0.69	0.53	0.54
17	0.75	0.71	0.71	0.57	0.55	0.54	0.99	1.09	1.15	0.69	0.70	0.70	0.54	0.54	0.53	0.69	0.70	0.70	0.69	0.54	0.54	0.53	0.69	0.70	0.70	0.69	0.54	0.54
18	0.66	0.70	0.69	0.53	0.53	0.53	0.92	1.05	1.12	0.69	0.70	0.69	0.53	0.53	0.53	0.69	0.70	0.69	0.69	0.53	0.53	0.53	0.69	0.70	0.69	0.69	0.53	0.53
19	0.68	0.69	0.70	0.52	0.52	0.54	0.89	1.09	1.14	0.69	0.70	0.69	0.53	0.53	0.54	0.69	0.70	0.69	0.69	0.53	0.53	0.54	0.69	0.70	0.69	0.69	0.53	0.53
20	0.68	0.71	0.72	0.53	0.55	0.54	1.00	1.11	1.13	0.69	0.70	0.71	0.53	0.55	0.54	0.69	0.70	0.71	0.69	0.53	0.55	0.54	0.69	0.70	0.71	0.69	0.53	0.55
21	0.76	0.71	0.70	0.53	0.55	0.53	0.97	1.08	1.08	0.76	0.71	0.70	0.53	0.55	0.53	0.76	0.71	0.70	0.76	0.53	0.55	0.53	0.76	0.71	0.70	0.76	0.53	0.55
22	0.68	0.69	0.72	0.53	0.54	0.55	0.95	1.06	1.04	0.68	0.69	0.72	0.53	0.54	0.55	0.68	0.69	0.72	0.68	0.53	0.54	0.55	0.68	0.69	0.72	0.68	0.53	0.54
23	0.69	0.71	0.70	0.53	0.54	0.54	0.93	1.06	1.13	0.69	0.71	0.70	0.54	0.54	0.53	0.69	0.71	0.70	0.69	0.54	0.54	0.53	0.69	0.71	0.70	0.69	0.54	0.54
24	0.67	0.70	0.68	0.52	0.53	0.54	1.00	1.06	1.15	0.67	0.70	0.68	0.52	0.53	0.54	0.67	0.70	0.68	0.67	0.52	0.53	0.54	0.67	0.70	0.68	0.67	0.52	0.53
25	0.67	0.71	0.70	0.53	0.55	0.54	0.94	1.02	1.08	0.67	0.71	0.70	0.53	0.55	0.54	0.67	0.71	0.70	0.67	0.53	0.55	0.54	0.67	0.71	0.70	0.67	0.53	0.55
26	0.67	0.70	0.67	0.53	0.53	0.54	0.92	1.02	1.12	0.67	0.70	0.67	0.53	0.53	0.54	0.67	0.70	0.67	0.67	0.53	0.53	0.54	0.67	0.70	0.67	0.67	0.53	0.53
27	0.69	0.71	0.70	0.54	0.54	0.53	0.96	1.03	1.06	0.69	0.70	0.70	0.54	0.54	0.53	0.69	0.70	0.70	0.69	0.54	0.54	0.53	0.69	0.70	0.70	0.69	0.54	0.54
28	0.69	0.71	0.69	0.53	0.53	0.54	0.96	1.09	1.09	0.69	0.70	0.69	0.53	0.53	0.54	0.69	0.70	0.69	0.69	0.53	0.53	0.54	0.69	0.70	0.69	0.69	0.53	0.53
29	0.68	0.69	0.70	0.52	0.52	0.54	0.89	1.06	1.14	0.69	0.70	0.69	0.53	0.53	0.54	0.69	0.70	0.69	0.68	0.52	0.52	0.54	0.69	0.70	0.69	0.68	0.52	0.52
30	0.68	0.71	0.72	0.53	0.55	0.54	1.00	1.08	1.09	0.68	0.70	0.71	0.53	0.55	0.54	0.68	0.70	0.71	0.68	0.53	0.55	0.54	0.68	0.70	0.71	0.68	0.53	0.55
31	0.68	0.70	0.68	0.53	0.54	0.54	0.91	0.92	0.85	0.76	0.71	0.70	0.53	0.55	0.53	0.76	0.71	0.70	0.68	0.53	0.55	0.53	0.76	0.71	0.70	0.68	0.53	0.55

JUL

MONTH DISPLAYED IS
JULY

PRINT SCREEN MAIN

8:22:42 AM Friday, September 02, 2016

NM STATE REPORTING

HEPA 1				HEPA 2				DUST				YEAR																			
04:00	0.72	0.56	0.81	04:00	0.68	0.53	0.84	04:00	0.70	0.54	0.82	04:00	0.67	0.53	0.82	04:00	0.69	0.53	0.92	04:00	0.71	0.54	0.83	04:00	0.64	0.50	0.79				
12:00	0.72	0.55	0.91	12:00	0.70	0.55	0.92	12:00	0.71	0.55	0.94	12:00	0.70	0.55	0.94	12:00	0.72	0.55	0.99	12:00	0.68	0.53	0.84	12:00	0.68	0.53	0.84	12:00	0.68	0.53	0.84
20:00	0.73	0.57	1.00	20:00	0.73	0.57	1.00	20:00	0.70	0.54	1.02	20:00	0.68	0.53	1.03	20:00	0.70	0.53	1.03	20:00	0.69	0.53	0.90	20:00	0.67	0.52	0.87	20:00	0.67	0.52	0.87
DAY 1																															
04:00	0.68	0.53	0.84	04:00	0.67	0.53	0.85	04:00	0.68	0.53	0.83	04:00	0.68	0.53	0.83	04:00	0.69	0.53	0.89	04:00	0.69	0.53	0.80	04:00	0.69	0.53	0.80	04:00	0.69	0.53	0.80
12:00	0.70	0.55	0.92	12:00	0.73	0.56	1.00	12:00	0.70	0.53	0.90	12:00	0.68	0.53	0.80	12:00	0.72	0.55	0.99	12:00	0.70	0.53	0.90	12:00	0.69	0.53	0.85	12:00	0.69	0.53	0.85
20:00	0.69	0.53	0.89	20:00	0.73	0.57	0.95	20:00	0.70	0.53	1.03	20:00	0.68	0.53	0.80	20:00	0.70	0.53	1.03	20:00	0.69	0.53	0.82	20:00	0.68	0.53	0.82	20:00	0.68	0.53	0.82
DAY 2																															
04:00	0.67	0.53	0.85	04:00	0.67	0.53	0.85	04:00	0.68	0.53	0.83	04:00	0.68	0.53	0.83	04:00	0.68	0.53	0.83	04:00	0.68	0.53	0.83	04:00	0.68	0.53	0.83	04:00	0.68	0.53	0.83
12:00	0.73	0.56	1.00	12:00	0.73	0.56	1.00	12:00	0.70	0.53	0.90	12:00	0.68	0.53	0.80	12:00	0.70	0.53	0.90	12:00	0.70	0.53	0.90	12:00	0.70	0.53	0.90	12:00	0.70	0.53	0.90
20:00	0.73	0.57	0.95	20:00	0.73	0.57	0.95	20:00	0.70	0.53	0.80	20:00	0.68	0.53	0.80	20:00	0.70	0.53	0.80	20:00	0.70	0.53	0.80	20:00	0.70	0.53	0.80	20:00	0.70	0.53	0.80
DAY 3																															
04:00	0.70	0.55	0.92	04:00	0.68	0.54	0.87	04:00	0.67	0.52	0.82	04:00	0.67	0.52	0.82	04:00	0.68	0.52	0.79	04:00	0.68	0.52	0.79	04:00	0.68	0.52	0.79				
12:00	0.70	0.54	1.00	12:00	0.70	0.54	1.01	12:00	0.70	0.54	0.87	12:00	0.68	0.53	0.81	12:00	0.68	0.53	0.81	12:00	0.68	0.53	0.81	12:00	0.68	0.53	0.81				
20:00	0.69	0.53	0.89	20:00	0.69	0.53	0.89	20:00	0.69	0.54	0.89	20:00	0.69	0.54	0.89	20:00	0.69	0.54	0.89	20:00	0.69	0.54	0.89	20:00	0.69	0.54	0.89				
DAY 4																															
04:00	0.68	0.54	0.87	04:00	0.68	0.54	0.87	04:00	0.68	0.54	0.86	04:00	0.68	0.53	0.86	04:00	0.68	0.53	0.86	04:00	0.68	0.53	0.86	04:00	0.68	0.53	0.86				
12:00	0.70	0.54	1.01	12:00	0.70	0.54	1.01	12:00	0.70	0.54	0.87	12:00	0.68	0.53	0.86	12:00	0.68	0.53	0.86	12:00	0.68	0.53	0.86	12:00	0.68	0.53	0.86				
20:00	0.69	0.54	0.88	20:00	0.69	0.54	0.88	20:00	0.69	0.54	0.86	20:00	0.68	0.53	0.86	20:00	0.68	0.53	0.86	20:00	0.68	0.53	0.86	20:00	0.68	0.53	0.86				
DAY 5																															
04:00	0.69	0.53	0.83	04:00	0.69	0.53	0.83	04:00	0.68	0.53	0.86	04:00	0.68	0.53	0.86	04:00	0.68	0.53	0.86	04:00	0.68	0.53	0.86	04:00	0.68	0.53	0.86				
12:00	0.72	0.55	0.95	12:00	0.72	0.55	0.95	12:00	0.70	0.54	0.96	12:00	0.68	0.53	0.86	12:00	0.68	0.53	0.86	12:00	0.68	0.53	0.86	12:00	0.68	0.53	0.86				
20:00	0.70	0.54	0.93	20:00	0.70	0.54	0.93	20:00	0.69	0.53	0.87	20:00	0.68	0.53	0.86	20:00	0.68	0.53	0.86	20:00	0.68	0.53	0.86	20:00	0.68	0.53	0.86				
DAY 6																															
04:00	0.68	0.53	0.89	04:00	0.68	0.53	0.89	04:00	0.67	0.52	0.79	04:00	0.67	0.52	0.79	04:00	0.67	0.52	0.79	04:00	0.67	0.52	0.79	04:00	0.67	0.52	0.79				
12:00	0.71	0.55	0.95	12:00	0.71	0.55	0.95	12:00	0.71	0.54	0.94	12:00	0.68	0.54	0.84	12:00	0.68	0.54	0.84	12:00	0.68	0.54	0.84	12:00	0.68	0.54	0.84				
20:00	0.68	0.52	0.93	20:00	0.68	0.52	0.93	20:00	0.68	0.54	0.84	20:00	0.68	0.54	0.84	20:00	0.68	0.54	0.84	20:00	0.68	0.54	0.84	20:00	0.68	0.54	0.84				
DAY 7																															
04:00	0.68	0.53	-0.1	04:00	0.68	0.53	-0.1	04:00	0.70	0.54	0.78	04:00	0.68	0.53	0.82	04:00	0.68	0.53	0.82	04:00	0.68	0.53	0.82	04:00	0.68	0.53	0.82				
12:00	0.71	0.54	0.91	12:00	0.71	0.54	0.91	12:00	0.67	0.51	0.90	12:00	0.68	0.53	0.86	12:00	0.68	0.53	0.86	12:00	0.68	0.53	0.86	12:00	0.68	0.53	0.86				
20:00	0.70	0.54	0.89	20:00	0.70	0.54	0.89	20:00	0.65	0.51	0.82	20:00	0.65	0.51	0.82	20:00	0.65	0.51	0.82	20:00	0.65	0.51	0.82	20:00	0.65	0.51	0.82				
DAY 8																															
04:00	0.69	0.53	0.90	04:00	0.69	0.53	0.90	04:00	0.70	0.54	0.82	04:00	0.70	0.54	0.82	04:00	0.70	0.54	0.82	04:00	0.70	0.54	0.82	04:00	0.70	0.54	0.82				
12:00	0.74	0.56	1.01	12:00	0.74	0.56	1.01	12:00	0.69	0.54	0.89	12:00	0.68	0.53	0.89	12:00	0.68	0.53	0.89	12:00	0.68	0.53	0.89	12:00	0.68	0.53	0.89				
20:00	0.73	0.55	0.95	20:00	0.73	0.55	0.95	20:00	0.75	0.58	0.83	20:00	0.75	0.58	0.83	20:00	0.75	0.58	0.83	20:00	0.75	0.58	0.83	20:00	0.75	0.58	0.83				
DAY 9																															
04:00	0.69	0.53	0.88	04:00	0.69	0.53	0.88	04:00	0.69	0.54	0.81	04:00	0.69	0.54	0.81	04:00	0.69	0.54	0.81	04:00	0.69	0.54	0.81	04:00	0.69	0.54	0.81				
12:00	0.71	0.55	0.88	12:00	0.71	0.55	0.88	12:00	0.69	0.54	0.84	12:00	0.68	0.53	0.84	12:00	0.68	0.53	0.84	12:00	0.68	0.53	0.84	12:00	0.68	0.53	0.84				
20:00	0.69	0.54	1.01	20:00	0.69	0.54	1.01	20:00	0.67	0.52	0.88	20:00	0.67	0.52	0.88	20:00	0.67	0.52	0.88	20:00	0.67	0.52	0.88	20:00	0.67	0.52	0.88				
DAY 10																															

JAN FEB MAR
 APR MAY JUN
 JUL **AUG** SEP
 OCT NOV DEC

MONTH DISPLAYED IS
AUGUST

PRINT SCREEN MAIN

8:15:28 AM Friday, September 02, 2016

NM STATE REPORTING

HEPA 1 HEPA.2 DUST YEAR				HEPA 1 HEPA 2 DUST YEAR				HEPA 1 HEPA 2 DUST YEAR							
DAY 1	04:00	0.65	0.50	0.79	2016	04:00	0.71	0.55	0.82	2016	04:00	0.67	0.53	0.87	2016
	12:00	0.68	0.52	0.82	2016		0.68	0.53	0.86	2016		0.63	0.53	0.84	2016
	20:00	0.68	0.52	0.91	2016		0.68	0.51	0.82	2016		0.65	0.52	0.91	2016
DAY 2	04:00	0.65	0.51	0.80	2016	04:00	0.69	0.53	0.80	2016	04:00	0.65	0.51	0.79	2016
	12:00	0.69	0.53	0.91	2016		0.69	0.54	0.88	2016		0.68	0.53	0.87	2016
	20:00	0.67	0.53	0.86	2016		0.67	0.52	0.81	2016		0.67	0.53	0.92	2016
DAY 3	04:00	0.64	0.50	0.82	2016	04:00	0.70	0.54	0.76	2016	04:00	0.67	0.53	0.82	2016
	12:00	0.64	0.51	0.90	2016		0.69	0.53	0.83	2016		0.70	0.54	0.84	2016
	20:00	0.67	0.51	0.93	2016		0.67	0.52	0.84	2016		0.69	0.54	0.71	2016
DAY 4	04:00	0.65	0.51	0.82	2016	04:00	0.71	0.55	0.81	2016	04:00	0.71	0.56	0.82	2016
	12:00	0.66	0.51	0.88	2016		0.68	0.52	0.83	2016		0.74	0.57	0.77	2016
	20:00	0.67	0.52	0.95	2016		0.68	0.53	0.87	2016		0.71	0.54	0.78	2016
DAY 5	04:00	0.65	0.51	0.83	2016	04:00	0.69	0.54	0.74	2016	04:00	0.72	0.55	0.86	2016
	12:00	0.70	0.52	0.96	2016		0.68	0.51	0.86	2016		0.72	0.55	0.77	2016
	20:00	0.68	0.52	0.96	2016		0.67	0.52	0.89	2016		0.71	0.55	0.78	2016
DAY 6	04:00	0.65	0.50	0.85	2016	04:00	0.69	0.54	0.76	2016	04:00	0.70	0.54	0.75	2016
	12:00	0.68	0.53	0.95	2016		0.69	0.53	0.84	2016		0.74	0.57	0.81	2016
	20:00	0.64	0.50	0.79	2016		0.67	0.53	0.78	2016		0.73	0.56	0.80	2016
DAY 7	04:00	0.71	0.55	0.82	2016	04:00	0.70	0.54	0.75	2016	04:00	0.70	0.54	0.72	2016
	12:00	0.68	0.52	0.81	2016		0.67	0.52	0.82	2016		0.70	0.54	0.60	2016
	20:00	0.65	0.51	0.80	2016		0.67	0.52	0.86	2016		0.72	0.56	0.79	2016
DAY 8	04:00	0.69	0.54	0.83	2016	04:00	0.72	0.55	0.79	2016	04:00	0.71	0.55	0.80	2016
	12:00	0.70	0.54	0.80	2016		0.65	0.50	0.80	2016		0.71	0.55	0.80	2016
	20:00	0.71	0.54	0.97	2016		0.67	0.52	0.91	2016		0.69	0.54	0.83	2016
DAY 9	04:00	0.68	0.53	0.85	2016	04:00	0.65	0.51	0.82	2016	04:00	0.67	0.52	0.85	2016
	12:00	0.71	0.55	0.92	2016		0.68	0.51	0.90	2016		0.67	0.51	0.83	2016
	20:00	0.72	0.55	0.96	2016		0.67	0.52	0.96	2016		0.67	0.52	0.85	2016
DAY 10	04:00	0.70	0.54	0.80	2016	04:00	0.66	0.51	0.67	2016	04:00	0.70	0.53	0.75	2016
	12:00	0.70	0.55	0.85	2016		0.65	0.54	0.95	2016		0.68	0.53	0.81	2016
	20:00	0.69	0.53	0.81	2016		0.70	0.54	0.95	2016		0.70	0.54	0.81	2016
DAY 11	04:00	0.71	0.55	0.82	2016	04:00	0.71	0.55	0.82	2016	04:00	0.67	0.53	0.87	2016
	12:00	0.68	0.53	0.86	2016		0.68	0.54	0.88	2016		0.68	0.53	0.87	2016
	20:00	0.68	0.51	0.82	2016		0.67	0.52	0.81	2016		0.67	0.53	0.92	2016
DAY 12	04:00	0.69	0.53	0.80	2016	04:00	0.69	0.53	0.80	2016	04:00	0.65	0.51	0.79	2016
	12:00	0.69	0.54	0.88	2016		0.69	0.54	0.88	2016		0.68	0.53	0.87	2016
	20:00	0.67	0.52	0.81	2016		0.67	0.52	0.81	2016		0.67	0.53	0.92	2016
DAY 13	04:00	0.70	0.54	0.76	2016	04:00	0.70	0.54	0.76	2016	04:00	0.67	0.53	0.82	2016
	12:00	0.69	0.53	0.83	2016		0.69	0.53	0.83	2016		0.70	0.54	0.84	2016
	20:00	0.67	0.52	0.84	2016		0.67	0.52	0.84	2016		0.69	0.54	0.71	2016
DAY 14	04:00	0.71	0.55	0.81	2016	04:00	0.71	0.55	0.81	2016	04:00	0.67	0.53	0.82	2016
	12:00	0.68	0.52	0.83	2016		0.68	0.52	0.83	2016		0.74	0.57	0.77	2016
	20:00	0.68	0.53	0.87	2016		0.68	0.53	0.87	2016		0.71	0.54	0.78	2016
DAY 15	04:00	0.69	0.54	0.74	2016	04:00	0.69	0.54	0.74	2016	04:00	0.72	0.55	0.86	2016
	12:00	0.68	0.51	0.86	2016		0.68	0.51	0.86	2016		0.72	0.55	0.77	2016
	20:00	0.67	0.52	0.89	2016		0.67	0.52	0.89	2016		0.71	0.55	0.78	2016
DAY 16	04:00	0.69	0.54	0.76	2016	04:00	0.69	0.54	0.76	2016	04:00	0.70	0.54	0.75	2016
	12:00	0.69	0.53	0.84	2016		0.69	0.53	0.84	2016		0.74	0.57	0.81	2016
	20:00	0.67	0.53	0.78	2016		0.67	0.53	0.78	2016		0.73	0.56	0.80	2016
DAY 17	04:00	0.70	0.54	0.75	2016	04:00	0.70	0.54	0.75	2016	04:00	0.70	0.54	0.72	2016
	12:00	0.67	0.52	0.82	2016		0.67	0.52	0.82	2016		0.70	0.54	0.60	2016
	20:00	0.67	0.52	0.86	2016		0.67	0.52	0.86	2016		0.72	0.56	0.79	2016
DAY 18	04:00	0.72	0.55	0.79	2016	04:00	0.72	0.55	0.79	2016	04:00	0.71	0.55	0.80	2016
	12:00	0.65	0.50	0.80	2016		0.65	0.50	0.80	2016		0.71	0.55	0.80	2016
	20:00	0.67	0.52	0.91	2016		0.67	0.52	0.91	2016		0.69	0.54	0.83	2016
DAY 19	04:00	0.65	0.51	0.82	2016	04:00	0.65	0.51	0.82	2016	04:00	0.67	0.52	0.85	2016
	12:00	0.68	0.51	0.90	2016		0.68	0.51	0.90	2016		0.67	0.51	0.83	2016
	20:00	0.67	0.52	0.96	2016		0.67	0.52	0.96	2016		0.67	0.52	0.85	2016
DAY 20	04:00	0.66	0.51	0.67	2016	04:00	0.66	0.51	0.67	2016	04:00	0.70	0.53	0.75	2016
	12:00	0.65	0.54	0.95	2016		0.65	0.54	0.95	2016		0.68	0.53	0.81	2016
	20:00	0.70	0.54	0.95	2016		0.70	0.54	0.95	2016		0.70	0.54	0.81	2016

JAN FEB MAR
 APR MAY JUN
 JUL AUG SEP
 OCT NOV DEC

MONTH DISPLAYED IS
SEPTEMBER

PRINT SCREEN MAIN

12:38:47 PM Thursday, October 06, 2016

NM STATE REPORTING

HEPA 1 HEPA 2 DUST YEAR

04:00	0.71	0.55	0.63	2016
12:00	0.72	0.56	0.65	2016
20:00	0.73	0.56	0.61	2016
DAY 31				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.69	0.54	0.71	2016
12:00	0.71	0.55	0.70	2016
20:00	0.68	0.53	0.72	2016
DAY 21				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.69	0.53	0.78	2016
12:00	0.68	0.53	0.96	2016
20:00	0.69	0.53	0.82	2016
DAY 11				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.70	0.54	0.81	2016
12:00	0.68	0.53	0.82	2016
20:00	0.71	0.55	0.79	2016
DAY 1				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.71	0.55	0.74	2016
12:00	0.73	0.56	0.79	2016
20:00	0.67	0.52	0.77	2016
DAY 22				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.72	0.56	0.79	2016
12:00	0.68	0.53	0.83	2016
20:00	0.70	0.54	0.82	2016
DAY 12				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.69	0.53	0.82	2016
12:00	0.70	0.54	0.82	2016
20:00	0.68	0.53	0.85	2016
DAY 2				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.71	0.55	0.81	2016
12:00	0.71	0.54	0.79	2016
20:00	0.71	0.54	0.78	2016
DAY 23				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.68	0.53	0.74	2016
12:00	0.49	0.39	0.77	2016
20:00	0.69	0.53	0.75	2016
DAY 13				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.70	0.54	0.70	2016
12:00	0.74	0.57	0.78	2016
20:00	0.69	0.53	0.80	2016
DAY 3				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.72	0.56	0.80	2016
12:00	0.70	0.54	1.00	2016
20:00	0.69	0.54	0.80	2016
DAY 24				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.69	0.54	0.77	2016
12:00	0.70	0.54	1.01	2016
20:00	0.69	0.53	0.83	2016
DAY 14				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.70	0.54	0.70	2016
12:00	0.74	0.57	0.78	2016
20:00	0.71	0.55	0.71	2016
DAY 4				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.70	0.54	0.81	2016
12:00	0.72	0.56	0.82	2016
20:00	0.72	0.56	0.87	2016
DAY 25				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.71	0.55	0.80	2016
12:00	0.70	0.53	0.83	2016
20:00	0.69	0.53	0.82	2016
DAY 15				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.70	0.54	0.65	2016
12:00	0.73	0.55	0.72	2016
20:00	0.72	0.55	0.79	2016
DAY 5				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.73	0.56	0.70	2016
12:00	0.74	0.57	0.80	2016
20:00	0.67	0.52	0.77	2016
DAY 26				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.68	0.52	0.75	2016
12:00	0.72	0.56	0.82	2016
20:00	0.69	0.54	0.82	2016
DAY 16				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.71	0.55	0.71	2016
12:00	0.69	0.54	0.75	2016
20:00	0.72	0.55	0.77	2016
DAY 6				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.71	0.55	0.81	2016
12:00	0.68	0.53	0.87	2016
20:00	0.67	0.52	0.88	2016
DAY 27				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.69	0.53	0.79	2016
12:00	0.74	0.56	0.82	2016
20:00	0.70	0.54	0.86	2016
DAY 17				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.69	0.54	0.68	2016
12:00	0.72	0.56	0.95	2016
20:00	0.70	0.54	0.71	2016
DAY 7				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.71	0.55	0.83	2016
12:00	0.74	0.57	0.81	2016
20:00	0.67	0.52	0.87	2016
DAY 28				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.69	0.54	0.76	2016
12:00	0.73	0.56	0.87	2016
20:00	0.72	0.56	0.82	2016
DAY 18				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.70	0.55	0.68	2016
12:00	0.72	0.56	0.75	2016
20:00	0.70	0.54	0.74	2016
DAY 8				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.73	0.56	0.79	2016
12:00	0.72	0.55	0.81	2016
20:00	0.66	0.52	0.75	2016
DAY 29				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.72	0.56	0.79	2016
12:00	0.75	0.57	0.97	2016
20:00	0.73	0.56	0.77	2016
DAY 19				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.69	0.54	0.75	2016
12:00	0.74	0.56	0.82	2016
20:00	0.70	0.54	0.77	2016
DAY 10				

HEPA 1 HEPA 2 DUST YEAR

04:00	0.70	0.55	0.80	2016
12:00	0.74	0.57	0.82	2016
20:00	0.69	0.54	0.80	2016
DAY 30				

1:24:47 PM Thursday, November 03, 2016

JAN FEB MAR
 APR MAY JUN
 JUL AUG SEP
OCT NOV DEC

MONTH DISPLAYED IS
OCTOBER

PRINT SCREEN MAIN

NM STATE REPORTING

HEPA 1				HEPA 2				DUST				YEAR																																															
DAY 1	04:00	0.73	0.55	0.74	0.16	DAY 2	04:00	0.73	0.57	0.72	0.16	DAY 3	04:00	0.69	0.54	0.75	0.16	DAY 4	04:00	0.69	0.54	0.72	0.16	DAY 5	04:00	0.70	0.55	0.77	0.16	DAY 6	04:00	0.70	0.54	0.78	0.16	DAY 7	04:00	0.69	0.54	0.75	0.16	DAY 8	04:00	0.70	0.56	0.76	0.16	DAY 9	04:00	0.69	0.53	0.71	0.16	DAY 10	04:00	0.72	0.56	0.75	0.16
	12:00	0.74	0.57	0.79	0.16		12:00	0.71	0.55	0.74	0.16		12:00	0.72	0.55	0.74	0.16		12:00	0.70	0.55	0.77	0.16		12:00	0.70	0.54	0.78	0.16		12:00	0.73	0.57	0.72	0.16		12:00	0.72	0.56	0.76	0.16		12:00	0.70	0.54	0.75	0.16												
	20:00	0.72	0.55	0.78	0.16		20:00	0.70	0.54	0.80	0.16		20:00	0.71	0.55	0.75	0.16		20:00	0.72	0.56	0.71	0.16		20:00	0.70	0.54	0.79	0.16		20:00	0.74	0.56	0.78	0.16		20:00	0.71	0.55	0.75	0.16		20:00	0.70	0.54	0.75	0.16												
DAY 11	04:00	0.73	0.56	0.82	0.16	DAY 12	04:00	0.64	0.50	0.83	0.16	DAY 13	04:00	0.65	0.50	0.85	0.16	DAY 14	04:00	0.65	0.50	0.86	0.16	DAY 15	04:00	0.65	0.51	0.85	0.16	DAY 16	04:00	0.65	0.50	0.87	0.16	DAY 17	04:00	0.65	0.51	0.83	0.16	DAY 18	04:00	0.66	0.51	0.80	0.16	DAY 19	04:00	0.65	0.51	0.79	0.16	DAY 20	04:00	0.65	0.51	0.82	0.16
	12:00	0.66	0.52	0.84	0.16		12:00	0.66	0.51	0.89	0.16		12:00	0.67	0.52	0.87	0.16		12:00	0.67	0.52	0.87	0.16		12:00	0.66	0.51	0.92	0.16		12:00	0.67	0.52	0.86	0.16		12:00	0.67	0.52	0.81	0.16		12:00	0.67	0.52	0.81	0.16												
	20:00	0.65	0.51	0.86	0.16		20:00	0.65	0.51	0.88	0.16		20:00	0.66	0.52	0.90	0.16		20:00	0.65	0.51	0.92	0.16		20:00	0.66	0.51	0.91	0.16		20:00	0.66	0.51	0.91	0.16		20:00	0.66	0.51	0.84	0.16		20:00	0.66	0.50	0.86	0.16												
DAY 21	04:00	0.65	0.51	0.88	0.16	DAY 22	04:00	0.67	0.52	0.83	0.16	DAY 23	04:00	0.65	0.51	0.79	0.16	DAY 24	04:00	0.67	0.52	0.83	0.16	DAY 25	04:00	0.67	0.52	0.79	0.16	DAY 26	04:00	0.65	0.51	0.82	0.16	DAY 27	04:00	0.66	0.51	0.83	0.16	DAY 28	04:00	0.74	0.57	0.73	0.16	DAY 29	04:00	0.66	0.51	0.76	0.16	DAY 30	04:00	0.67	0.52	0.75	0.16
	12:00	0.66	0.53	0.87	0.16		12:00	0.67	0.52	1.01	0.16		12:00	0.68	0.53	0.87	0.16		12:00	0.70	0.55	0.87	0.16		12:00	0.70	0.55	0.82	0.16		12:00	0.71	0.54	0.59	0.16		12:00	0.68	0.53	0.95	0.16																		
	20:00	0.67	0.52	0.84	0.16		20:00	0.69	0.53	0.84	0.16		20:00	0.65	0.51	0.83	0.16		20:00	0.66	0.51	0.88	0.16		20:00	0.67	0.52	0.83	0.16		20:00	0.70	0.55	0.77	0.16		20:00	0.69	0.54	0.79	0.16		20:00	0.67	0.52	0.60	0.16												

JAN FEB MAR
 APR MAY JUN
 JUL AUG SEP
 OCT NOV DEC

MONTH DISPLAYED IS
NOVEMBER

PRINT SCREEN MAN

3:31:23 PM Monday, December 05, 2016

NM STATE REPORTING

HEPA 1				HEPA 2				DUST				YEAR				
04:00	0.65	0.52	0.79	0.60	0.50	0.80	2016	04:00	0.64	0.50	0.80	04:00	0.64	0.50	0.80	2016
12:00	0.69	0.53	0.80	0.50	0.51	0.82	2016	12:00	0.67	0.52	0.81	12:00	0.67	0.52	0.81	2016
20:00	0.66	0.51	0.80	0.52	0.51	0.82	2016	20:00	0.64	0.50	0.83	20:00	0.64	0.50	0.83	2016
04:00	0.65	0.53	0.80	0.54	0.50	0.82	2016	04:00	0.65	0.51	0.84	04:00	0.65	0.51	0.84	2016
12:00	0.69	0.54	0.80	0.52	0.51	0.83	2016	12:00	0.64	0.51	0.83	12:00	0.64	0.51	0.83	2016
20:00	0.66	0.52	0.82	0.51	0.51	0.83	2016	20:00	0.65	0.51	0.83	20:00	0.65	0.51	0.83	2016
04:00	0.65	0.51	0.84	0.51	0.51	0.83	2016	04:00	0.66	0.52	0.80	04:00	0.66	0.52	0.80	2016
12:00	0.66	0.52	0.77	0.51	0.51	0.85	2016	12:00	0.66	0.51	0.85	12:00	0.66	0.51	0.85	2016
20:00	0.66	0.53	0.84	0.51	0.56	0.84	2016	20:00	0.71	0.56	0.84	20:00	0.71	0.56	0.84	2016
04:00	0.66	0.52	0.81	0.51	0.51	0.84	2016	04:00	0.70	0.55	0.84	04:00	0.70	0.55	0.84	2016
12:00	0.66	0.51	0.84	0.51	0.51	0.85	2016	12:00	0.66	0.52	0.84	12:00	0.66	0.52	0.84	2016
20:00	0.66	0.51	0.82	0.51	0.50	0.90	2016	20:00	0.65	0.50	0.90	20:00	0.65	0.50	0.90	2016
04:00	0.64	0.50	0.85	0.51	0.51	0.80	2016	04:00	0.65	0.51	0.80	04:00	0.65	0.51	0.80	2016
12:00	0.69	0.53	0.87	0.51	0.51	0.85	2016	12:00	0.69	0.53	0.85	12:00	0.69	0.53	0.85	2016
20:00	0.65	0.51	0.82	0.51	0.51	0.79	2016	20:00	0.66	0.51	0.79	20:00	0.66	0.51	0.79	2016
04:00	0.66	0.51	0.79	0.51	0.51	0.73	2016	04:00	0.65	0.51	0.73	04:00	0.65	0.51	0.73	2016
12:00	0.70	0.55	0.72	0.51	0.52	0.76	2016	12:00	0.67	0.52	0.76	12:00	0.67	0.52	0.76	2016
20:00	0.74	0.58	0.68	0.51	0.51	0.64	2016	20:00	0.65	0.51	0.64	20:00	0.65	0.51	0.64	2016
04:00	0.66	0.52	0.80	0.51	0.51	0.78	2016	04:00	0.63	0.50	0.78	04:00	0.63	0.50	0.78	2016
12:00	0.67	0.52	0.84	0.51	0.51	0.82	2016	12:00	0.64	0.50	0.82	12:00	0.64	0.50	0.82	2016
20:00	0.66	0.51	0.82	0.51	0.51	0.85	2016	20:00	0.66	0.51	0.85	20:00	0.66	0.51	0.85	2016
04:00	0.65	0.51	0.80	0.51	0.51	0.72	2016	04:00	0.64	0.50	0.82	04:00	0.64	0.50	0.82	2016
12:00	0.67	0.52	0.80	0.51	0.51	0.79	2016	12:00	0.72	0.56	0.79	12:00	0.72	0.56	0.79	2016
20:00	0.64	0.50	0.82	0.51	0.51	0.81	2016	20:00	0.70	0.55	0.81	20:00	0.70	0.55	0.81	2016
04:00	0.63	0.50	0.77	0.51	0.51	0.82	2016	04:00	0.72	0.56	0.82	04:00	0.72	0.56	0.82	2016
12:00	0.67	0.52	0.81	0.51	0.51	0.75	2016	12:00	0.71	0.55	0.75	12:00	0.71	0.55	0.75	2016
20:00	0.65	0.51	0.87	0.51	0.51	0.80	2016	20:00	0.65	0.50	0.80	20:00	0.65	0.50	0.80	2016
04:00	0.65	0.51	0.85	0.51	0.51	0.79	2016	04:00	0.64	0.50	0.79	04:00	0.64	0.50	0.79	2016
12:00	0.65	0.51	0.84	0.51	0.51	0.82	2016	12:00	0.66	0.52	0.82	12:00	0.66	0.52	0.82	2016
20:00	0.65	0.50	0.83	0.51	0.51	0.81	2016	20:00	0.65	0.51	0.81	20:00	0.65	0.51	0.81	2016

PRINT SCREEN MAIN

4:26:11 PM Tuesday, January 10, 2017

JAN FEB MAR
 APR MAY JUN
 JUL AUG SEP
 OCT NOV DEC

MONTH DISPLAYED IS
DECEMBER

ATTACHMENT A707.C.b.

Beryllium

TA-55-PF4 Annual HEPA Filter Challenge Test Reports

Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	100 Area Glovebox Exhaust In-Place HEPA Filter Testing
Procedure no.:	TA55-STP-114A, R3.2
Date of issue:	10/25/16
Working copy issued to:	K BAILEY
Working copy issued by:	PRICK
Certified Operations Center Operator (OCO)	

OC Reviews Complete and TSR Status Board Updated

 / 10-26-16
 OCO Signature Date

Training Checklist:

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
K BAILEY	CB	10/25/16
M PRICK	MP	↓
D HEINISHEL	DH	↓

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.)

10-25-16

Attachment A, 100 Area Glovebox Exhaust FF-852 Data Sheet

(Page 1 of 3)

Step 3.1[3]	Obtain Permission to conduct STP	Initials DM	Step 3.1[2]	Obtain current copy of STP	Initials DM
Step 5.1[2]	Plenum (Circle One) SAT UNSAT	Initial DM			

Valve	Required Position	Initials Step 5.1[3]
V-852-H	Closed and Locked	DM
V-852-G	Closed	DM
V-852-F	Closed	DM
V-852-D	Closed	DM
V-852-C	Closed	DM
V-852-B	Closed	DM
V-852-A	Closed	DM
V-852-AA	Closed	DM
TP-852-1	Closed and Capped	DM
TP-852-2	Closed and Capped	DM
TP-852-3	Closed and Capped	DM

Step 5.1[4]	Visually inspect the bag-out doors between the air plenum and the bag-out boxes (both sides). Ensure that the seals are intact and the doors are securely dogged shut .	Initials DM
--------------------	--	----------------

Date: 10/25/16
5.1[6][a]

Photometer Cal. Expiration Date: 7/13/17
5.1[6][b]

Photometer Serial # 25428
102 DM 10/25/16
5.1[6][c]

100 Area Glovebox Exhaust in-Place HEPA
Filter Testing

TA55-STP-104A, R3.2

Page 23 of 27

Attachment A, 100 Area Glovebox Exhaust FF-852 Data Sheet
(Page 2 of 3)

Step	Item	FF-852	
5.2[1][b]	First-stage HEPA Filter ΔP	0.48	Inches wc
5.2[1][c]	Second-Stage HEPA Filter ΔP	0.41	Inches wc
5.2[2][d]	Third-Stage HEPA Filter ΔP	0.45	Inches wc

§ PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]	
Follow the HEPA test procedure	
Cu = <u>37</u> ug/l(%) Final Stable Upstream Meter reading	Acceptance: ≥ 30 meter reading
Stable Downstream (Cd%) Meter reading = <u>0.001</u> (%)	
Removal Efficiency (%) = 100% - Cd% = 100% - <u>0.001</u> Cd% = <u>99.999</u> %	
Acceptance: ≥ 99.95%	Acceptable? (circle one) YES NO

FIRST STAGE TEST [defense-in-depth]	
Follow the HEPA test procedure	
Cu = <u>37</u> ug/l(%) Final Stable Upstream Meter reading	Acceptance: ≥ 30 meter reading
Stable Downstream (Cd%) Meter reading = <u>0.007</u> (%)	
Removal Efficiency (%) = 100% - Cd% = 100% - <u>0.007</u> Cd% = <u>99.993</u> %	
Acceptance: ≥ 99.95%	Acceptable? (circle one) YES NO

100 Area GLOVEBOX EXHAUST IN-PLACE HEPA
Filter Testing

TA55-STP-104A, R3.2

Page 24 of 27

Attachment A, 100 Area Glovebox Exhaust FF-852 Data Sheet

(Page 3 of 3)

Valve	Required Position	Initials Step 5.2[4][c]	Independent Verification Step 5.2[4][d]
V-852-A	Closed	DH	KGB
V-852-AA	Closed	DH	KGB
TP-852-1	Closed and Capped	DH	KGB
TP-852-2	Closed and Capped	DH	KGB
TP-852-3	Closed and Capped	DH	KGB
6.1.1 ISI 4			
Step 5.2[4][e]	Visually inspect that the fire screens downstream of the first stage filters are structurally sound and bolted down (e.g. the zone 1 exhaust fire screens are to be visually inspected for signs of wear or degradation).	SAT UNSAT	N/A

\$

Surveillance Test Procedure Acceptance			
Date of Test:	10-25-16	(unless already listed elsewhere on the attachment)	
Test Results:	SATISFACTORY / UNSATISFACTORY (circle one)		
Surveillance Personnel:	[Signature] 18354 / 10-25-16 [Signature] 23795 / 10-25-16 [Signature] 18354 / 10-25-16 Signature/Z#/date		
OC Operator:	[Signature] 095878 Signature / Z# / Date	OC On-Duty Supervisor:	[Signature] 163521 / 10-25-16 Signature / Z# / Date
Surveillance Test Results Review			
System Engineer:	[Signature] 171532 / 10-31-16 Signature / Z# / Date		
Comments	None		

100 AREA GLOVEBOX EXHAUST INTERFACE HEPA
Filter Testing

TA55-STP-104A, R3.2

Attachment B, 100 Area Glovebox Exhaust FF-853 Data Sheet

(Page 1 of 3)

Step 3.1[3]	Obtain Permission to conduct STP	Initials DH	Step 3.1[2]	Obtain current copy of STP	Initials DH
Step 5.1[2]	Plenum <input checked="" type="radio"/> (Circle One) SAT <input type="radio"/> UNSAT	Initial DH			

Valve	Required Position	Initials Step 5.1[3]
V-853-H	Closed and Locked	DH
V-853-G	Closed	DH
V-853-F	Closed	DH
V-853-D	Closed	DH
V-853-C	Closed	DH
V-853-B	Closed	DH
V-853-A	Closed	DH
V-852-AA	Closed	DH
TP-853-1	Closed and Capped	DH
TP-853-2	Closed and Capped	DH
TP-853-3	Closed and Capped	DH

Step 5.1[4]	Visually inspect the bag-out doors between the air plenum and the bag-out boxes (both sides). Ensure that the seals are intact and the doors are securely dogged shut .	Initials DH
--------------------	--	----------------

Date: 10/25/16
5.1[6][a]

Photometer Cal. Expiration Date: 4/13/17
5.1[6][b]

Photometer Serial # 25428
5.1[6][c]

FOR INFORMATION ONLY
 100 AREA GLOVEBOX EXHAUST IN-FACE HEPA
 Filter Testing

TA55-STP-104A, R3.2

Page 26 of 27

Attachment B, 100 Area Glovebox Exhaust FF-853 Data Sheet
 (Page 2 of 3)

Step	Item	FF-853	
5.3[1][b]	First-stage HEPA Filter ΔP	0.51	Inches wc
5.3[1][c]	Second-Stage HEPA Filter ΔP	0.49	Inches wc
5.3[1][d]	Third-Stage HEPA Filter ΔP	0.49	Inches wc

§ PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]			
Follow the HEPA test procedure			
Cu = <u>32</u> ug/l(%) Final Stable Upstream Meter reading		Acceptance: ≥ 30 meter reading	
Stable Downstream (Cd%) Meter reading = <u>0.001</u> (%)			
Removal Efficiency (%) = 100% - Cd% = 100% - <u>0.001</u> Cd% = <u>99.999</u> %			
Acceptance: ≥ 99.95%	Acceptable? (circle one)		<input checked="" type="radio"/> YES <input type="radio"/> NO

FIRST STAGE TEST [defense-in-depth]			
Follow the HEPA test procedure			
Cu = <u>32</u> ug/l(%) Final Stable Upstream Meter reading		Acceptance: ≥ 30 meter reading	
Stable Downstream (Cd%) Meter reading = <u>0.002</u> (%)			
Removal Efficiency (%) = 100% - Cd% = 100% - <u>0.002</u> Cd% = <u>99.998</u> %			
Acceptance: ≥ 99.95%	Acceptable? (circle one)		<input checked="" type="radio"/> YES <input type="radio"/> NO

100 AREA GLOVEBOX EXHAUST INTERFACE HEPA


TA55-STP-104A, R3.2

Filter Testing

Page 27 of 27

Attachment B, 100 Area Glovebox Exhaust FF-853 Data Sheet

(Page 3 of 3)

Valve	Required Position	Initials Step 5.3[4][c]	Independent Verification Step 5.3[4][d]
V-853-A	Closed	DH	mmw
V-852-AA	Closed	DH	mmw
TP-853-1	Closed and Capped	DH	mmw
TP-853-2	Closed and Capped	DH	mmw
TP-853-3	Closed and Capped	DH	mmw
6.1.1 ISI 4			
Step 5.3[4][e]	Visually inspect that the fire screens downstream of the first stage filters are structurally sound and bolted down (e.g. the zone 1 exhaust fire screens are to be visually inspected for signs of wear or degradation).	 DH	N/A

\$


Surveillance Test Procedure Acceptance			
Date of Test:	10/25/16	(unless already listed elsewhere on the attachment)	
Test Results:	<input checked="" type="radio"/> SATISFACTORY <input type="radio"/> UNSATISFACTORY (circle one)		
Surveillance Personnel:	[Signature] 182680 10/25/16 [Signature] 18354 10.25.16 Signature/Z#/date		
OC Operator:	[Signature] 095878 Signature / Z# / Date	OC On-Duty Supervisor:	[Signature] 16258 10-25-16 Signature / Z# / Date
Surveillance Test Results Review			
System Engineer:	[Signature] 171532 10-31-16 Signature / Z# / Date		
Comments	none		

Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	300 AREA GB FXHAUS, AREA TRS
Procedure no.:	TA55-STP-104C, R3.2
Date of issue:	10-12-16
Working copy issued to:	K. BAILEY
Working copy issued by:	CHANCE
Certified Operations Center Operator (OCO)	

OC Reviews Complete and TSR Status Board Updated


1
10/13/16

OCO Signature Date

Training Checklist:

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
KENN BAILEY	BC	10-12-16
MICHAEL IRISH	BC	10-12-16
ANTHONY SANCHEZ	BC	10-12-16

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 as <u>10/12/16</u>

Attachment A, Valve Alignment

Verify that the following valves on the aerosol injection ductwork are in the designated position:

Valve	Required Position	Initials Step 3.4[6]	Valve	Required Position	Initials Step 3.4[6]
V-854-J	Closed and Locked	<i>[Handwritten Initials]</i>	V-855-J	Closed and Locked	<i>[Handwritten Initials]</i>
V-854-H	Closed	<i>[Handwritten Initials]</i>	V-855-D	Closed	<i>[Handwritten Initials]</i>
V-854-G	Closed	<i>[Handwritten Initials]</i>	V-855-C	Closed	<i>[Handwritten Initials]</i>
V-854-D	Closed	<i>[Handwritten Initials]</i>	V-855-B	Closed	<i>[Handwritten Initials]</i>
V-854-C	Closed	<i>[Handwritten Initials]</i>	V-855-A	Closed	<i>[Handwritten Initials]</i>
V-854-B	Closed	<i>[Handwritten Initials]</i>	V-855-8	Closed and Locked	<i>[Handwritten Initials]</i>
V-854-A	Closed	<i>[Handwritten Initials]</i>	V-859-7	Closed	<i>[Handwritten Initials]</i>
V-854-8	Closed and Locked	<i>[Handwritten Initials]</i>	V-859-5	Closed	<i>[Handwritten Initials]</i>
V-858-7	Closed	<i>[Handwritten Initials]</i>	V-859-3	Closed	<i>[Handwritten Initials]</i>
V-858-5	Closed	<i>[Handwritten Initials]</i>	V-859-2	Closed	<i>[Handwritten Initials]</i>
V-858-3	Closed	<i>[Handwritten Initials]</i>	V-859-1	Closed	<i>[Handwritten Initials]</i>
V-858-2	Closed	<i>[Handwritten Initials]</i>			
V-858-1	Closed	<i>[Handwritten Initials]</i>			
V-854-AA	Closed	<i>[Handwritten Initials]</i>			

Ensure that the maintenance valves/doors are in the correct operating position:

Step 3.4[7]	Visually inspect the bag-out doors between the air plenum and the bag-out boxes (both sides). Ensure that the seals are intact and the doors are securely dogged shut .	Initials <i>[Handwritten Initials]</i>
--------------------	--	--

Attachment B, 300 Area Glovebox Exhaust FF-854 Data Sheet

(Page 1 of 2)

Step 3.1[3]	Obtain Permission to conduct STP	Initials <i>WMS</i>	Step 3.1[2]	Obtain current copy of STP	Initials <i>WMS</i>
Step 5.1[2]	Plenum (Circle One) SAT UNSAT	Initial <i>WMS</i>			

Date: 4/13/17 5.1[4][a] Photometer Cal. Expiration Date: 04.13.17 5.1[4][b] Photometer Serial # 25428 5.1[4][c]

Step	Item	FF-854
5.2[1]	First-stage HEPA Filter ΔP	<u>.14</u> Inches wc
5.2[2]	Second-Stage HEPA Filter ΔP	<u>.11</u> Inches wc
5.2[3]	Third-Stage HEPA Filter ΔP	<u>.13</u> Inches wc

PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]

Follow the HEPA test procedure

Cu = 33 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

Stable Downstream (Cd%) Meter reading = 0.001 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - 0.001 Cd% = 99.999 %

Acceptance: ≥ 99.95% Acceptable? (circle one) YES NO

FIRST STAGE TEST [defense-in-depth]

Follow the HEPA test procedure

Cu = 33 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

Stable Downstream (Cd%) Meter reading = 0.001 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - 0.001 Cd% = 99.999 %

Acceptance: ≥ 99.95% Acceptable? (circle one) YES NO

300 Area Glovebox Exhaust In-Place
HEPA Filter Testing

TA55-STP-104C, R3.2

Attachment B, 300 Area Glovebox Exhaust FF-854 Data Sheet

(Page 2 of 2)

Valve	Required Position	Initials Step 5.4[8]	Independent Verification Step 5.4[8][b]
V-854-A	Closed	<i>[Handwritten Initials]</i>	AS
V-854-AA	Closed	<i>[Handwritten Initials]</i>	AS
V-870A	Open	<i>[Handwritten Initials]</i>	AS
V-890	Open	<i>[Handwritten Initials]</i>	AS
TP-854-1	Closed and Capped	<i>[Handwritten Initials]</i>	AS
TP-854-2	Closed and Capped	<i>[Handwritten Initials]</i>	AS
TP-854-3	Closed and Capped	<i>[Handwritten Initials]</i>	AS
6.1.1 ISI 4			
Step 5.4[7]	Visually inspect that the fire screens downstream of the first stage filters are structurally sound and bolted down (e.g. the zone 1 exhaust fire screens are to be visually inspected for signs of wear or degradation).	<input checked="" type="radio"/> SAT <input type="radio"/> UNSAT	<i>[Handwritten Initials]</i> N/A

\$

Surveillance Test Procedure Acceptance			
Date of Test:	10.12.16	(unless already listed elsewhere on the attachment)	
Test Results:	<input checked="" type="radio"/> SATISFACTORY <input type="radio"/> UNSATISFACTORY (circle one)		
Surveillance Personnel:	<i>[Signature]</i> 183541 10.12.16 <i>[Signature]</i> 175061 10/12/16 Signature/Z#/date		
OC Operator:	<i>[Signature]</i> 27897 10/12/16 Signature / Z# / Date	OC On-Duty Supervisor:	<i>[Signature]</i> 2187060 10/13/16 Signature / Z# / Date
Surveillance Test Results Review			
System Engineer:	<i>[Signature]</i> 171532 10-31-16 Signature / Z# / Date		
Comments			

Attachment C, SRL Exhaust FF-858 Data Sheet

(Page 1 of 2)

Step 3.1[3]	Obtain Permission to conduct STP	Initials <i>[Signature]</i>	Step 3.1[2]	Obtain current copy of STP	Initials <i>[Signature]</i>
Step 5.1[2]	Plenum <input checked="" type="radio"/> SAT (Circle One) <input type="radio"/> UNSAT	Initial <i>[Signature]</i>			

Date: 10/2/16 5.1[4][a] Photometer Cal. Expiration Date: 04/3/17 5.1[4][b] Photometer Serial # 25428 5.1[4][c]

Step	Item	FF-858
5.3[3]	First-stage HEPA Filter ΔP	<u>12</u> Inches wc
5.3[4]	Second-Stage HEPA Filter ΔP	<u>09</u> Inches wc
5.3[5]	Third-Stage HEPA Filter ΔP	<u>06</u> Inches wc

PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]

Follow the HEPA test procedure

Cu = 34 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

Stable Downstream (Cd%) Meter reading = 0.002 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - 0.002 Cd% = 99.998 %

Acceptance: ≥ 99.95% Acceptable? (circle one) YES NO

FIRST STAGE TEST [defense-in-depth]

Follow the HEPA test procedure

Cu = 34 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

Stable Downstream (Cd%) Meter reading = 0.007 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - 0.007 Cd% = 99.993 %

Acceptance: ≥ 99.95% Acceptable? (circle one) YES NO

TA55-STP-104C, R3.2

300 Area Glovebox Exhaust In-Place
HEPA Filter Testing

Page 37 of 41

Attachment C, SRL Exhaust FF-858 Data Sheet

(Page 2 of)

Valve	Required Position	Initials Step 5.4[8]	Independent Verification Step 5.4[8][b]
V-858-1	Closed	<i>[Signature]</i>	AS
V-854-AA	Closed	<i>[Signature]</i>	AS
V-870A	Open	<i>[Signature]</i>	AS
V-890	Open	<i>[Signature]</i>	AS
TP-858-1	Closed and Capped	<i>[Signature]</i>	AS
TP-858-2	Closed and Capped	<i>[Signature]</i>	AS
TP-854-3	Closed and Capped	<i>[Signature]</i>	AS
6.1.1 ISI 4			
Step 5.4[7]	Visually inspect that the fire screens downstream of the first stage filters are structurally sound and bolted down (e.g. the zone 1 exhaust fire screens are to be visually inspected for signs of wear or degradation).	<input checked="" type="radio"/> SAT <input type="radio"/> UNSAT	N/A

\$

Surveillance Test Procedure Acceptance			
Date of Test:	10.12.16	(unless already listed elsewhere on the attachment)	
Test Results:	<u>SATISFACTORY</u> / UNSATISFACTORY (circle one)		
Surveillance Personnel:	<i>[Signature]</i> 17534 10.12.16 <i>[Signature]</i> 17536 10/12/16 Signature/Z#/date		
OC Operator:	<i>[Signature]</i> 270917 10/12/16 Signature / Z# / Date	OC On-Duty Supervisor:	<i>[Signature]</i> 218706 10/13/16 Signature / Z# / Date
Surveillance Test Results Review			
System Engineer:	<i>[Signature]</i> 171532 10-31-16 Signature / Z# / Date		
Comments	x/longe 		

Attachment D, 300 Area Glovebox Exhaust FF-855 Data Sheet

(Page 1 of 2)

Step 3.1[3]	Obtain Permission to conduct STP	Initials <i>[Signature]</i>	Step 3.1[2]	Obtain current copy of STP	Initials <i>[Signature]</i>
Step 5.1[2]	Plenum (Circle One) SAT UNSAT	Initial <i>[Signature]</i>			

Date:

10/2/16
5.5[4][a]

Photometer Cal.
Expiration Date:

04/13/17
5.5[4][b]

Photometer
Serial #

25428
5.5[4][c]

Step	Item	FF-855
5.6[1]	First-stage HEPA Filter ΔP	.11 Inches wc
5.6[2]	Second-Stage HEPA Filter ΔP	.13 Inches wc
5.6[3]	Third-Stage HEPA Filter ΔP	.11 Inches wc

\$ PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]

Follow the HEPA test procedure

Cu = 38 ug/l(%) Final Stable Upstream Meter reading
Acceptance: ≥30 meter reading

Stable Downstream (Cd%) Meter reading = 0.019 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - 0.019 Cd% = 99.981 %

Acceptance: ≥ 99.95% Acceptable? (circle one) **YES** NO

FIRST STAGE TEST [defense-in-depth]

Follow the HEPA test procedure

Cu = 38 ug/l(%) Final Stable Upstream Meter reading
Acceptance: ≥30 meter reading

Stable Downstream (Cd%) Meter reading = 0.020 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - 0.020 Cd% = 99.980 %

Acceptance: ≥ 99.95% Acceptable? (circle one) **YES** NO

300 Area Glovebox Exhaust In-Place
HEPA Filter Testing

Attachment D, 300 Area Glovebox Exhaust FF-855 Data Sheet

(Page 2 of 2)

Valve	Required Position	Initials Step 5.8[8]	Independent Verification Step 5.8[8][b]
V-855-A	Closed	<i>[Handwritten Initials]</i>	AS
V-854-AA	Closed	<i>[Handwritten Initials]</i>	AS
V-870B	Open	<i>[Handwritten Initials]</i>	AS
V-891	Open	<i>[Handwritten Initials]</i>	AS
TP-855-1	Closed and Capped	<i>[Handwritten Initials]</i>	AS
TP-855-2	Closed and Capped	<i>[Handwritten Initials]</i>	AS
TP-855-3	Closed and Capped	<i>[Handwritten Initials]</i>	AS
6.1.1 ISI 4			
Step 5.8[7]	Visually inspect that the fire screens downstream of the first stage filters are structurally sound and bolted down (e.g. the zone 1 exhaust fire screens are to be visually inspected for signs of wear or degradation).	SAT UNSAT	N/A

\$

Surveillance Test Procedure Acceptance	
Date of Test:	10.12.16 (unless already listed elsewhere on the attachment)
Test Results:	<u>SATISFACTORY</u> / UNSATISFACTORY (circle one)
Surveillance Personnel:	<i>[Signature]</i> 183541 10.12.16 <i>[Signature]</i> 175661 10-12-16 Signature/Z#/date
OC Operator:	<i>[Signature]</i> 27097 10/12/16 Signature / Z# / Date
OC On-Duty Supervisor:	<i>[Signature]</i> 10/13/16 Signature / Z# / Date
Surveillance Test Results Review	
System Engineer:	<i>[Signature]</i> 171532 10-31-16 Signature / Z# / Date
Comments	<i>[Handwritten: none]</i>

Attachment E, SRL Exhaust FF-859 Data Sheet

(Page 1 of 2)

Step 3.1[3]	Obtain Permission to conduct STP	Initials <i>[Signature]</i>	Step 3.1[2]	Obtain current copy of STP	Initials <i>[Signature]</i>
Step 5.1[2]	Plenum (Circle One) SAT UNSAT	Initial <i>[Signature]</i>			

Date: W/16 5.5[4][a] Photometer Cal. Expiration Date: 04/13/17 5.5[4][b] Photometer Serial # 25428 5.5[4][c]

Step	Item	FF-859
5.7[3]	First-stage HEPA Filter ΔP	.11 Inches wc
5.7[4]	Second-Stage HEPA Filter ΔP	.10 Inches wc
5.7[5]	Third-Stage HEPA Filter ΔP	.07 Inches wc

§ PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]

Follow the HEPA test procedure

Cu = 44 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

Stable Downstream (Cd%) Meter reading = 0.028 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - 0.028 Cd% = 99.972 %

Acceptance: ≥ 99.95% Acceptable? (circle one) **YES** NO

FIRST STAGE TEST [defense-in-depth]

Follow the HEPA test procedure

Cu = 44 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

Stable Downstream (Cd%) Meter reading = 0.033 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - 0.033 Cd% = 99.967 %

Acceptance: ≥ 99.95% Acceptable? (circle one) **YES** NO

TA55-STP-104C, R3.2

300 Area Glovebox Exhaust In-Place
HEPA Filter Testing

Page 41 of 41

Attachment E, SRL Exhaust FF-859 Data Sheet
(Page 2 of 2)

Valve	Required Position	Initials Step 5.8[8]	Independent Verification Step 5.8[8][b]
V-859-1	Closed	<i>mm</i>	AS
V-854-AA	Closed	<i>mm</i>	AS
V-870B	Open	<i>mm</i>	AS
V-891	Open	<i>mm</i>	AS
TP-859-1	Closed and Capped	<i>mm</i>	AS
TP-859-2	Closed and Capped	<i>mm</i>	AS
TP-855-3	Closed and Capped	<i>mm</i>	AS
6.1.1 ISI 4			
Step 5.8[7]	Visually inspect that the fire screens downstream of the first stage filters are structurally sound and bolted down (e.g. the zone 1 exhaust fire screens are to be visually inspected for signs of wear or degradation).	<u>SAT</u> UNSAT	<i>mm</i> N/A

\$

Surveillance Test Procedure Acceptance			
Date of Test:	<u>10.12.16</u>	(unless already listed elsewhere on the attachment)	
Test Results:	<u>SATISFACTORY</u> / UNSATISFACTORY (circle one)		
Surveillance Personnel:	<i>[Signature]</i> <u>193541</u> <u>10.12.16</u> <i>[Signature]</i> <u>175041</u> <u>10/12/16</u> Signature/Z#/date		
OC Operator:	<i>[Signature]</i> <u>210417</u> <u>10/12/16</u> Signature / Z# / Date	OC On-Duty Supervisor:	<i>[Signature]</i> <u>218206</u> <u>10/13/16</u> Signature / Z# / Date
Surveillance Test Results Review			
System Engineer:	<i>[Signature]</i> <u>171532</u> <u>10-31-16</u> Signature / Z# / Date		
Comments			

ATTACHMENT A707.C.c.

Beryllium

TA-55-PF4 HEPA Filtration Differential Pressure Readings

July

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 ROOMS
Procedure no.:	TA55-STP-004 R12
Date of issue:	7-1-16
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

 / 8/3/16
 OCO Signature Date

Training Checklist:

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
J. FRANK	A	7-1-16
D. HEINTSCHEL	A	
R. HOHNER	A	
T. LANGWORTHY	A	
J. MARTINEZ	A	
A. SANCHEZ	A	
AUGUSTINE SANCHEZ	A	
P. TRUJILLO	A	
R. BRISCOE	A	
B. CHANCE	A	7-1-16

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 as 8/1/16

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: AL Date 7-1-16 Time 0600

Reviewed by: [Signature] Date 7/1/16 Time 0635
On-duty Supervisor



Comments:

Attachment A, Surveillance Due Date Change Request

SI/STP/ISI #	Scheduled Due Date	Proposed Due Date	Maximum Allowable Extension of Due Date
STP-004	7-27-16	7-28-16	8-6-16

Justification:

Guards unavailable due to another activity taking precedence and guards shift turnover.

Prepared by:	Paul Trujillo	7-27-16
	Preparer/System Engineer	Date
Reviewed by:		7/27/16
	Operations Center On-Duty Supervisor	Date
Approved by:		7/27/16
	Operations Manager	Date

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.	1535	7/28/16	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.	1535	7/28/16	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.	1421	7/28/16	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.	1432	7/28/16	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 ≤ 30 seconds. 4 _____ Seconds	Sat / Unsat.	1432	7/28/16	DH
				Sat / Unsat.	1432	7/28/16	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 TA55-J (PF-1); 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)

SR#	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. 6 Seconds	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1443	7/28/16	AH	
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.	1335	7/28/16	AH	
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.	1518	7/28/16	AH	
OC Operator Review and Page Count Complete								

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by:  Date: 7/28/16 Time: 1541 Reviewed by:  Date: 7/28/16 Time: 1615

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	
	Note Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.																	
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP	≤-1.0 in. wc' PDI-814-1 or PDI-814-2																
	100 area glovebox exhaust header AP	≤-1.0 in. wc' PDI-820-1 or PDI-820-2																
	300 area glovebox exhaust header AP	≤-1.0 in. wc' PDI-870-1 or PDI-870-2																
	400 area glovebox exhaust header AP	≤-1.0 in. wc' PDI-864-1 or PDI-864-2																
	200 area laboratory header AP	≤-0.05 in. wc' PDI-803-1 or PDI-803-2																
	100 area laboratory header AP	≤-0.05 in. wc' PDI-802-1 or PDI-802-2																
4.1.1.2 4.1.1.5 4.1.2.2 ²	300 area laboratory header AP	≤-0.05 in. wc' PDI-853-1 or PDI-853-2																
	400 area laboratory header AP	≤-0.05 in. wc' PDI-852-1 or PDI-852-2																
	HFT Facility AP	≤-0.05 in. wc PDI-865-4 or PDI-865-5																
	North basement AP	< 0.00 in. wc PDI-804-1 or PDI-804-2																
4.1.1.3 4.1.2.3 ²	South basement AP	< 0.00 in. wc PDI-854-1 or PDI-854-2																
	IRT Tunnel AP	< 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)													
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	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	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		FIR-802 Icon red and PDI-832 AP >.050	At least one fan/plenum is in service	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	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		FIR-804 Icon red and PDI-835 AP >.050	At least one fan/plenum is in service	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	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
4.1.1.6	400 area re-circulation fan/plenum	FIR-806 Icon red and PDI-837 AP >.050	At least one fan/plenum is in service	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		FIR-807 Icon red and PDI-838 AP >.050 or	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
	Vault re-circulation fan/plenum	FIR-808 Icon red and PDI-839 AP >.050	At least one fan/plenum is in service	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		FIR-811 Icon red and PDI-840 AP >.050 or	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			FIR-812 Icon red and PDI-841 AP >.050	At least one fan/plenum is in service	Unsat	Unsat	Unsat	Unsat	Unsat	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.		
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	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-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	PDI-803-2 < PDI-804-2	Unsat	Unsat	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	Sat	Sat
			PDI-802-2	PDI-802-2 < PDI-804-2	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	PDI-853-2 < PDI-854-2		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	PDI-852-2 < PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
Completion Time																			

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: 07/15/16 Time: 1925
 Reviewed by: *[Signature]* Date: 7/15/16 Time: 0705
 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).

		Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Weekday:					7-1-16	8/1/16	7/3/16
		Initials:					dk	md	sm
SURVEILLANCE RESULTS (percentage)									
SR	Description / Gauge	Acceptance Criteria							
	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA					0.0	0.0	0.0
4.4.1.1	CP-305-H (LED Reading)						0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value ≥ -0.1 ; $\leq +0.1$					0.0	0.0	0.0
		Completion Time:		0737				0737	0800

dk 7-1-16

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						7-1-16	07-02-16	67/02/16
		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								
		PDI-81 9-1	≤2.0 & > 0' in. wc								
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-81 9-3	≤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) AP	PDI-818-2	≤2.0 & > 0' in. wc								
		PDI-818-4	≤2.0 & > 0' in. wc								
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	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)

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 ¹ in. wc							7.1.16	07-02-16	07/02/16	
		PDI-822-2	≤2.0 & > 0 ¹ in. wc							1.01	.52	1.01	
		PDI-822-4	≤2.0 & > 0 ¹ in. wc							OK	.51	.48	.53
		PDI-822-5	≤2.0 & > 0 ¹ in. wc								.48	.48	.48
		PDI-823-1	≤2.0 & > 0 ¹ in. wc								.50	.50	.50
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0 ¹ in. wc							STBY	STBY	STBY	
		PDI-823-4	≤2.0 & > 0 ¹ in. wc							STBY	STBY	STBY	
		PDI-823-5	≤2.0 & > 0 ¹ in. wc							STBY	STBY	STBY	
		PDI-830-1	≤2.0 & > 0 ¹ in. wc							.72	.72	.72	
		PDI-830-2	≤2.0 & > 0 ¹ in. wc							.35	.35	.34	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-830-3	≤2.0 & > 0 ¹ in. wc							.29	.28	.28	
		PDI-836-1	≤2.0 & > 0 ¹ in. wc							.07	.07	.07	
		PDI-836-2	≤2.0 & > 0 ¹ in. wc							.69	.68	.68	
		PDI-836-3	≤2.0 & > 0 ¹ in. wc							.56	.55	.55	
		PDI-837-1	≤2.0 & > 0 ¹ in. wc							.54	.54	.54	
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0 ¹ in. wc							.39	.38	.38	
		PDI-837-3	≤2.0 & > 0 ¹ in. wc							.42	.42	.42	

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

(Page 4 of 4)

SIRs	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							7-1-16	07-02-16	07-03-16
		PDI-838-2	≤2.0 & > 0' in. wc							.51	.51	.51
		PDI-838-3	≤2.0 & > 0' in. wc							.60	.59	.59
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc							.65	.64	.64
		PDI-839-2	≤2.0 & > 0' in. wc							.45	.45	.46
		PDI-839-3	≤2.0 & > 0' in. wc							.56	.56	.56
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc							.60	.60	.60
		PDI-810-2	≤2.0 & > 0' in. wc							.15	.13	.15
		PDI-810-3	≤2.0 & > 0' in. wc							.48	.47	.47
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & > 0' in. wc							.45	.43	.43
		PDI-811-2	≤2.0 & > 0' in. wc							OFF	OFF	OFF
		PDI-811-3	≤2.0 & > 0' in. wc							OFF	OFF	OFF
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: Michael Fish Date: 6/29/16 Time: 08:00 Reviewed by: BBJ Date: 7/1/16 Time: 07:06
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:							
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc						7-1-16	07-02-16	7/3/16
		PDI-840-2	≤2.0 & > 0' in. wc						.17	.17	
		PDI-840-3	≤2.0 & > 0' in. wc						.59	.59	.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						.34	.34	.34
		PDI-831-2	≤2.0 & > 0' in. wc						.47	.46	.46
		PDI-831-3	≤2.0 & > 0' in. wc						.40	.39	.39
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc						.36	.36	.36	
	PDI-832-2	≤2.0 & > 0' in. wc						.68	.68	.67	
	PDI-832-3	≤2.0 & > 0' in. wc						.62	.61	.42	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc						.12	.11	.11
		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)

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 ¹ in. wc							7/1/16	07/02/16	7/3/16
		PDI-829-2	≤2.0 & > 0 ¹ in. wc									
		PDI-829-3	≤2.0 & > 0 ¹ in. wc									
		'PDI-833-1	≤2.0 & > 0 ¹ in. wc									
		PDI-833-2	≤2.0 & > 0 ¹ in. wc									
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0 ¹ in. wc									
		'PDI-835-1	≤2.0 & > 0 ¹ in. wc									
		PDI-835-2	≤2.0 & > 0 ¹ in. wc									
		PDI-835-3	≤2.0 & > 0 ¹ in. wc									
		'PDI-815-1	≤2.0 & > 0 ¹ in. wc									
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0 ¹ in. wc									
		PDI-815-4	≤2.0 & > 0 ¹ in. wc									
		PDI-815-5	≤2.0 & > 0 ¹ in. wc									
		'PDI-816-1	≤2.0 & > 0 ¹ in. wc									
		PDI-816-2	≤2.0 & > 0 ¹ in. wc									
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0 ¹ in. wc									
		PDI-816-5	≤2.0 & > 0 ¹ 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:	Initials:						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 > 0 ¹ in. wc						7.1.16	07.02.16	7/3/16
		PDI-812-2	≤2.0 > 0 ¹ in. wc						.16	.16	.16
		PDI-812-3	≤2.0 > 0 ¹ in. wc						.35	.35	.30
		PDI-812-4	≤2.0 > 0 ¹ in. wc						.32	.33	.31
		PDI-812-5	≤2.0 > 0 ¹ in. wc						.30	.30	.31
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 > 0 ¹ in. wc						.41	.41	.40
		PDI-813-2	≤2.0 > 0 ¹ in. wc						STBY	STBY	STBY
		PDI-813-3	≤2.0 > 0 ¹ in. wc						STBY	STBY	STBY
		PDI-813-4	≤2.0 > 0 ¹ in. wc						STBY	STBY	STBY
		PDI-813-5	≤2.0 > 0 ¹ in. wc						STBY	STBY	STBY
4.1.3.4	HJT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 > 0 ¹ in. wc						.01	.01	.01
		PDI-865-2	≤2.0 > 0 ¹ in. wc						.30	.30	.29
		PDI-865-3	≤2.0 > 0 ¹ in. wc						.32	.32	.31
4.1.3.4	HJT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 > 0 ¹ in. wc						.12	.12	.11
		PDI-863-2	≤2.0 > 0 ¹ in. wc						.30	.30	.29

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

(Page 4 of 4)

SIRs	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) AP	PDI-857-1	≤ 2.0 & > 0 ¹ in. wc						7/1/16	07-02-16	7/3/14
		PDI-857-2	≤ 2.0 & > 0 ¹ in. wc								
4.1.3.4	North corridor supply filter plenum (HVP-809) AP	PDI-856-1	≤ 2.0 & > 0 ¹ in. wc								
		PDI-856-2	≤ 2.0 & > 0 ¹ in. wc								
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² 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: *[Signature]* Date: 7/3/16 Time: 0830 Reviewed by: *[Signature]* Date: 8/20/16 Time: 1406

Comments:

On-duty Supervisor

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

Note	Date:	7/4/16		7-5-16		07-06-16		07-07-16		7-8-16		7/9/16		7-10-16			
		Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Initials:		UP		UP		UP		UP		UP		UP		UP			
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)													
		4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP 100 area glovebox exhaust header AP 300 area glovebox exhaust header AP 400 area glovebox exhaust header AP	≤-1.0 in. wc' ≤-1.0 in. wc' ≤-1.0 in. wc' ≤-1.0 in. wc'	2.00 -1.93 -1.99 -1.98	2.00 -1.93 -1.97 -1.99	-1.99 -1.92 -1.97 -1.99	2.00 -1.93 -1.97 -1.99	-1.99 -1.92 -1.97 -1.99	-1.99 -1.92 -1.97 -1.99	-1.99 -1.92 -1.97 -1.99	-1.99 -1.92 -1.97 -1.99	-1.99 -1.92 -1.97 -1.99	-1.99 -1.92 -1.97 -1.99	-1.99 -1.92 -1.97 -1.99	-1.99 -1.92 -1.97 -1.99	-1.99 -1.92 -1.97 -1.99
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header AP 100 area laboratory header AP 300 area laboratory header AP 400 area laboratory header AP	≤-0.05 in. wc' ≤-0.05 in. wc' ≤-0.05 in. wc' ≤-0.05 in. wc'	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17	-1.18 -1.22 -1.16 -1.17		
4.1.1.3 4.1.2.3 ²	North basement AP South basement AP IRT Tunnel AP	< 0.00 in. wc < 0.00 in. wc < 0.00 in. wc	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07	-0.07 -0.08 -0.07		

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 PDI's may be used if FCS is unavailable.	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	7/4/16	7-5-16	07-06-16	07-07-16	7-8-16	7/9/16	7-10-16	
		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. AM PM	Tue. AM PM	Wed. AM PM	Thu. AM PM	Fri. AM PM	Sat. AM PM	Sun. 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	u	u	u	u	u	u	u	u
		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	u	u	u	u	u	u	u	u
		Vault re-circulation fan/plenum	At least one fan/plenum is in service	u	u	u	u	u	u	u	u

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	7/4/16	7-5-16	07-06-16	07-07-16	7-8-16	7/8/16	7-10-16	
			PDI-803-2		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
			PDI-802-2		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
PDI-853-2	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		
	PDI-852-2		AM	PM	AM	PM	AM	PM	AM	PM		
				Completion Time	0730	0730	0725	0720	0715	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 I.CO 3.1.2.

Completed by: [Signature] Date: 7/10/16 Time: 1421 Reviewed by: [Signature] Date: 7/14/16 Time: 1400
 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:	7/4/16	7/5/16	7/6/16	7/7/16	7/8/16	7/9/16	7/10/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	AM	AM	AM	BF	AM	AM
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	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)	≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:		0735	0755	0820	0740	0758	0740	0710

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:	7/4/16	7/5/16	7/6/16	7/7/16	7/8/16	7/9/16	7/10/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	pm	pm	pm	pm	sf	pm	pm
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 .50	.05 .50	.05 .50	.05 .50	.05 .50	.05 .50	.05 .50	.05 .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	.09 .62	.09 .62	.09 .65	.09 .65	.09 .65	.09 .67	.09 .62	.09 .64
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	.28 .30 .49 .32	.28 30 32 32	.29 .30 32 .30	.29 .30 32 .30	.29 .30 32 .30	.29 .30 32 .30	.29 .30 32 .30	.29 .30 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	.30 .49 .42	.49 .49 .42	.49 .50 .42	.49 .50 .42	.49 .50 .42	.49 .50 .41	.49 .49 .42	.49 .49 .42
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' in. wc	7/4/16	1.01	1.02	1.02	1.02	1.01	1.02	1.02	1.02
		PDI-822-2	≤2.0 & > 0' in. wc		.53	.52	.52	.52	.53	.53	.53	.53
		PDI-822-4	≤2.0 & > 0' in. wc		.48	.48	.48	.48	.48	.48	.48	.48
		PDI-822-5	≤2.0 & > 0' in. wc		.51	.50	.50	.50	.50	.50	.50	.50
		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		.72	.72	.72	.73	.70	.73	.73	.73
		PDI-830-2	≤2.0 & > 0' in. wc		.25	.24	.25	.25	.25	.25	.25	.25
		PDI-830-3	≤2.0 & > 0' in. wc		.28	.28	.28	.28	.28	.28	.28	.28
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	.07	.07	.07
		PDI-836-2	≤2.0 & > 0' in. wc		.68	.68	.68	.68	.68	.68	.68	.68
		PDI-836-3	≤2.0 & > 0' in. wc		.55	.55	.55	.56	.57	.56	.56	.56
		PDI-837-1	≤2.0 & > 0' in. wc		.54	.54	.54	.55	.55	.55	.55	.55
		PDI-837-2	≤2.0 & > 0' in. wc		.38	.38	.38	.38	.38	.38	.38	.38
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.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	7/4/16 Mon. gm	7/5/16 Tue. gm	7/6/16 Wed. gm	7/7/16 Thu. gm	7/8/16 Fri. BF	7/9/16 Sat. gm	7/10/16 Sun. gm
		PDI-838-2	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.52	.51	.51
		PDI-838-3	≤2.0 & > 0' in. wc	.59	.59	.59	.59	.58	.57	.57
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	.66	.66	.65	.65	.65	.65	.65
		PDI-839-2	≤2.0 & > 0' in. wc	.44	.44	.44	.44	.44	.44	.44
		PDI-839-3	≤2.0 & > 0' in. wc	.56	.56	.56	.56	.58	.61	.61
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	.15	.15	.16	.15	.15	.15	.15
		PDI-810-3	≤2.0 & > 0' in. wc	.48	.48	.47	.48	.48	.48	.48
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc	.45	.45	.45	.46	.46	.46	.46
		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)				0810	0851	0910	0830	0825	0245	0247
				WJ	APD	WAP	JAP	JL	WJ	WJ

'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: 7/10/16 Time: 0242 Reviewed by: [Signature] Date: 7/10/16 Time: 1400
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	.17	.17	.17	.17	.17	.16	.17	.17	
		PDI-840-2	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.57	.58	.58	
		PDI-840-3	≤2.0 & > 0' in. wc	.50	.51	.50	.50	.50	.50	.51	.51	
	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	.34	.34	.34	.34	.34	.34	.34	.34	.34
		PDI-831-2	≤2.0 & > 0' in. wc	.47	.47	.47	.47	.47	.47	.48	.47	.47
		PDI-831-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.39	.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	.36	.35	.35	
	PDI-832-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	.62	.62	.62	.62	.62	.62	.62	.62	.62	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	.12	.11	.12	.12	.11	.12	.12	.12	
		PDI-807-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50	
		PDI-807-3	≤2.0 & > 0' in. wc	.49	.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	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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	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									
		PDI-829-2	≤ 2.0 & > 0' in. wc	.17	.16	.16	.16	.16	.16	.16	.16	.16
		PDI-829-3	≤ 2.0 & > 0' in. wc	.37	.36	.36	.36	.35	.35	.36	.36	.35
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤ 2.0 & > 0' in. wc	.30	.30	.29	.29	.29	.29	.29	.29	.29
		PDI-833-2	≤ 2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-833-3	≤ 2.0 & > 0' in. wc	.49	.50	.50	.50	.50	.50	.49	.49	.50
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1	≤ 2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-835-2	≤ 2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17	.17	.17
		PDI-835-3	≤ 2.0 & > 0' in. wc	.44	.44	.44	.44	.44	.44	.44	.44	.44
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	≤ 2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40
		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	.40	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-816-2	≤ 2.0 & > 0' in. wc	.50	.51	.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	.45	.45	.45	.45	.45	.45	.45	.45	.45
		PDI-816-5	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	.49	.49

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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) AP	PDI-812-1	≤ 2.0 & > 0' in. wc	gn	7/4/16	7/5/16	7/6/16	7/7/16	7/8/16	7/9/16	7/10/16	
		PDI-812-2	≤ 2.0 & > 0' in. wc	gn		.16	.38	.16	.38	.16	.38	.16
		PDI-812-3	≤ 2.0 & > 0' in. wc	gn		.38	.38	.38	.38	.38	.38	.38
		PDI-812-4	≤ 2.0 & > 0' in. wc	gn		.31	.31	.31	.31	.30	.30	.30
		PDI-812-5	≤ 2.0 & > 0' in. wc	gn		.41	.41	.41	.41	.41	.40	.40
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) AP	PDI-813-1	≤ 2.0 & > 0' in. wc	gn		STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-2	≤ 2.0 & > 0' in. wc	gn		STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-3	≤ 2.0 & > 0' in. wc	gn		STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-4	≤ 2.0 & > 0' in. wc	gn		STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-5	≤ 2.0 & > 0' in. wc	gn		STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	IFIT exhaust filter plenum (FI-865) AP	PDI-865-1	≤ 2.0 & > 0' in. wc	gn		.02	.02	.02	.02	.02	.02	
		PDI-865-2	≤ 2.0 & > 0' in. wc	gn		.29	.29	.29	.29	.29	.29	
		PDI-865-3	≤ 2.0 & > 0' in. wc	gn		.32	.32	.33	.33	.33	.33	
4.1.3.4	IFIT supply filter plenum (IIVP-863) AP	PDI-863-1	≤ 2.0 & > 0' in. wc	gn		.12	.12	.11	.11	.11	.11	
		PDI-863-2	≤ 2.0 & > 0' in. wc	gn		.30	.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:	7/4/16	7/5/16	7/6/16	7/7/16	7/8/16	7/9/16	7/10/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	gm	gm	gm	gm	gm	BF	gm	gm
4.1.3.4	North Basement supply filter plenum (HVP-840) AP	'PDI-857-1	≤ 2.0 & > 0 ¹ in. wc	.12	.12	.12	.12	.13	.13	.12	.12
		PDI-857-2	≤ 2.0 & > 0 ¹ in. wc	.46	.46	.47	.47	.47	.49	.47	.47
4.1.3.4	North corridor supply filter plenum (HVP-809) AP	'PDI-856-1	≤ 2.0 & > 0 ¹ in. wc	.06	.06	.06	.06	.06	.06	.06	.06
		PDI-856-2	≤ 2.0 & > 0 ¹ in. wc	.56	.56	.56	.56	.56	.56	.56	.56
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/r ² 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/r ² 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)				0815	0850	0910	0900	0815	0830	0750	0750
Completion time				~ 8	APB W	W AB	CU AB	CU AB	W AB	W AB	W AB

1 Non TSR requirement

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

Completed by: [Signature] Date 7/14/16 Time 0250 Reviewed by: [Signature] Date: 7/14/16 Time: 1400

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:	7/11/16		7/12/16		7/13/16		7/14/16		7/15/16		7/16/16		7/17/16	
		Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
SRS	Description	SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP	1.99	2.00	1.99	1.99	1.99	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99
	100 area glovebox exhaust header AP	1.92	1.93	1.97	1.94	1.92	1.92	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.92
	300 area glovebox exhaust header AP	1.97	1.98	1.97	1.98	1.97	1.96	1.98	1.98	1.98	1.97	1.97	1.97	1.98	1.97
	400 area glovebox exhaust header AP	1.97	1.97	1.97	2.00	1.97	1.96	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 ²	200 area laboratory header AP	1.19	0.22	0.19	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19
	100 area laboratory header AP	0.20	0.22	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
	300 area laboratory header AP	0.20	0.19	0.19	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	0.21	0.21	0.19	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 ²	North basement AP	0.11	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	0.10	0.12	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	0.125	0.119	0.12	0.113	0.113	0.114	0.111	0.111	0.111	0.112	0.112	0.112	0.112	0.117

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

Note	Date:	7/11/16		7/12/16		7/13/16		7/14/16		7/15/16		7/16/16		7/17/16			
		Mon.	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	Sat.	AM	PM	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:																
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Initials:																
	Acceptance Criteria	SURVEILLANCE RESULTS															
	Readings	Sat. / Unsat. (circle one)															
200 area re-circulation fan/plenum	FR-801 Icon red and PDI-831 AP >.050 or	Sat	Sat	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
100 area re-circulation fan/plenum	FR-803 Icon red and PDI-833 AP >.050 or	Sat	Sat	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
300 area re-circulation fan/plenum	FR-805 Icon red and PDI-836 AP >.050 or	Sat	Sat	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
400 area re-circulation fan/plenum	FR-807 Icon red and PDI-838 AP >.050 or	Sat	Sat	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
Vault re-circulation fan/plenum	FR-811 Icon red and PDI-840 AP >.050 or	Sat	Sat	Sat	Sat	Sat	Sat	Sat	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

Date: 07-11-16		Mon		Tue		Wed		Thu		Fri		Sat		Sun						
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
Weekday:																				
Shift:																				
Initials:		BC		BC		BC		BC		BC		BC		BC						
Acceptance Criteria																				
SRS	Description	Area	Gauge	SURVEILLANCE RESULTS																
				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-820-2	PDI-802-2	PDI-804-2	PDI-870-2	PDI-853-2	PDI-854-2	PDI-864-2	PDI-852-2	PDI-854-2		
							Sat / Unsat. (circle one)													
							Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
							Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
Unsat	Unsat	Unsat	Unsat				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat				
Completion Time		0722-1926		0720-1932		0734-1939		0727-1928		0722-1928		0728-1925		0713-1934						

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: 7/11/16 Time: 1934 Reviewed by: [Signature] Date: 7/11/16 Time: 1400
 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).

		Date:	7/11/16	7/12/16	7/13/16	7/14/16	7-15-16	7-16-16	7/17/16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	JA	JA	JA	JA	AS	PT	BC	
		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 ≥ -0.1 ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Completion Time:	0900	0825	0830	0830	0844	0814	0817	

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. 7/11/16	Tue. 7/12/16	Wed. 7/13/16	Thu. 7/14/16	Fri. 7-15-16	Sat. 7/16/16	Sun. 7-17-16
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	DM	.06 .50	.06 .50	.06 .50	.06 .50	.06 .50	.05 .50	.05 .50
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	DM	.10 .65	.10 .62	.09 .63	.09 .64	.09 .63	.10 .63	.10 .63
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	DM	.28 .30 .32 .30	.28 .30 .32 .30	.29 .30 .32 .30	.29 .30 .32 .30	.29 .30 .32 .30	.28 .30 .31 .30	.29 .30 .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	DM	.41 .50 .50	.41 .50 .50	.41 .50 .50	.41 .50 .50	.42 .50 .50	.41 .50 .50	.42 .50 .50
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	DM	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	DM	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:	OH	PM	PM	PM	AS	PM	BC
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤ 2.0 & > 0' in. wc	1.1	1.02	1.04	1.04	1.04	1.04	1.04	1.05
		PDI-822-2	≤ 2.0 & > 0' in. wc	.51	.52	.52	.52	.52	.52	.52	.52
		PDI-822-4	≤ 2.0 & > 0' in. wc	.49	.49	.48	.48	.48	.48	.48	.48
		PDI-822-5	≤ 2.0 & > 0' in. wc	.50	.49	.50	.50	.50	.50	.50	.50
		'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	.71	.71	.71	.71	.71	.71	.71	.72
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤ 2.0 & > 0' in. wc	.22	.22	.23	.23	.24	.24	.24	.24
		PDI-830-3	≤ 2.0 & > 0' in. wc	.29	.28	.28	.28	.28	.28	.29	.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 (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	.55	.56	.56	.56	.57	.57	.59	.58
		'PDI-837-1	≤ 2.0 & > 0' in. wc	.54	.55	.55	.55	.55	.55	.55	.55
		PDI-837-2	≤ 2.0 & > 0' in. wc	.38	.38	.38	.38	.38	.38	.38	.38
		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 (IIVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	7/11/16	Mon.	OH			7/13/16	Wed.	GM		7/14/16	Thu.		7/15/16	Fri.	DS	7/16/16	Sat.	RH	7/17/16	Sun.	BC		
		PDI-838-2	≤2.0 & > 0' in. wc				.52	.51	.51	.59	.57	.51	.51	.59	.59	.65	.45	.45	.61	.60	.15	.15	.49	.49	.45	.45
		PDI-838-3	≤2.0 & > 0' in. wc				.64	.65	.45	.45	.61	.60	.15	.15	.49	.48	.48	.45	.45	.61	.60	.15	.15	.49	.48	.45
	400 area re-circulation filter plenum (IIVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc				.46	.45	.45	.45	.61	.60	.15	.15	.49	.48	.48	.45	.45	.61	.60	.15	.15	.49	.48	.45
		PDI-839-2	≤2.0 & > 0' in. wc				.61	.61	.61	.61	.61	.60	.15	.15	.49	.48	.48	.45	.45	.61	.60	.15	.15	.49	.48	.45
		PDI-839-3	≤2.0 & > 0' in. wc				.60	.60	.60	.60	.60	.60	.15	.15	.49	.48	.48	.45	.45	.61	.60	.15	.15	.49	.48	.45
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	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	
		PDI-810-2	≤2.0 & > 0' in. wc				.49	.50	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	
		PDI-810-3	≤2.0 & > 0' in. wc				.45	.49	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	
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	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	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	OFF	OFF	OFF	OFF	OFF	OFF		
OC Operator Review and Page Count Complete (initials)							0935	0930	0925	0910	0846	0846	0846	0846	0846	0846	0846	0846	0846	0846	0846	0846	0846	0846		

'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: 7/17/16 Time: 0746 Reviewed by: [Signature] Date: 7/17/16 Time: 1400
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	7/11/16	gn	7/12/16	gn	7/13/16	gn	7/14/16	gn	7/15/16	gn	7-16-16	gn	7-17-16	gn
		PDI-840-2	≤2.0 & >0 in'. wc			.17	.58	.58	.17	.58	.58	.17	.58	.58	.17	.58	.58
		PDI-840-3	≤2.0 & >0' in. wc			.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
	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	STBY	STBY
		PDI-841-2	≤2.0 & >0' in. wc			STBY	STBY	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	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & >0' in. wc			.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34
		PDI-831-2	≤2.0 & >0' in. wc			.46	.46	.47	.47	.47	.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	.40
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & >0' in. wc			.35	.35	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	
	PDI-832-2	≤2.0 & >0' in. wc			.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & >0' in. wc			.61	.61	.61	.61	.61	.62	.62	.62	.62	.62	.62	.62	
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	.12	.12	.12	.12	.12	
		PDI-807-2	≤2.0 & >0' in. wc			.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	
		PDI-807-3	≤2.0 & >0' in. wc			.49	.49	.49	.49	.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	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & >0' in. wc			OFF	OFF	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	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:	7/11/16	7/12/16	7/13/16	7/14/16	7/15/16	7-16-16	7-17-16	
				Weekday:	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	.15	.15	.15	.15	.16	.15	.16		
		PDI-829-2	≤2.0 & > 0' in. wc	.35	.31	.33	.36	.36	.33	.35		
		PDI-829-3	≤2.0 & > 0' in. wc	.29	.26	.29	.30	.30	.29	.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	.07	.07
		PDI-833-2	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.50	.50	.50	.50
		PDI-833-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40
		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	.44	.44	.43	.43	.43	.44	.43	.43	.43
		PDI-835-3	≤2.0 & > 0' in. wc	.40	.40	.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	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
		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	.40	.40	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-2	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.50	.51	.51	.51
		PDI-816-4	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.43	.43	.43
		PDI-816-5	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.50	.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 (FF850) ΔP	PDI-812-1	≤2.0 & >0' in. wc	AP	7/11/16		7/12/16	7/13/16	7/14/16	7/15/16	7-16-16	7-17-16	
		PDI-812-2	≤2.0 & >0' in. wc			.16	.37	.37	.37	.16	.16	.35	.37
		PDI-812-3	≤2.0 & >0' in. wc			.37	.37	.37	.37	.38	.38	.35	.35
		PDI-812-4	≤2.0 & >0' in. wc			.30	.30	.30	.30	.30	.30	.30	.30
		PDI-812-5	≤2.0 & >0' in. wc			.40	.40	.40	.41	.41	.40	.40	.40
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & >0' in. wc	AP									
		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	IFTT 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	IFTT 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)

SIRs	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 (IIVP-840) AP	PDI-857-1	≤ 2.0 & > 0' in. wc	7/11/16	7/12/16	7/13/16	7/14/16	7/15/16	7-16-16	7-17-16	
		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								
'NA'	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/R ² combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/R ² 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				0910	0915	0910	0900	0850	0815	0909	
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 Triville Date 7-17-16 Time 0809 Reviewed by: [Signature]

Date: 7/22/16 Time: 1400

On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria	Date:		Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	-1.99	-1.99	-1.99	-1.99	-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
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	-1.92	-1.91	-1.94	-1.91	-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
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	-1.98	-1.98	-1.98	-1.97	-1.99	-1.99	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	-1.97	-1.97	-1.98	-1.97	-1.98	-1.97	-1.97	-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 ²	200 area laboratory header AP	PDI-803-1 or PDI-803-2	-1.19	-1.19	-1.20	-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	PDI-802-1 or PDI-802-2	-2.04	-2.05	-2.26	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	-1.19	-1.20	-1.23	-1.20	-1.20	-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
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	-2.20	-2.20	-2.21	-2.20	-2.21	-2.19	-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 ²	IFT Facility AP	PDI-865-4 or PDI-865-5	-1.19	-1.21	-2.23	-2.20	-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
	North basement AP	PDI-804-1 or PDI-804-2	-2.09	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-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	PDI-854-1 or PDI-854-2	-2.09	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-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	PDI-901 or PDI-901	-1.10	-1.21	-1.21	-1.15	-1.23	-2.00	-1.43	-1.43	-1.43	-1.43	-1.43	-1.43	-1.43	-1.43	-1.43	-1.43	-1.43	-1.43

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

Note	Date:	7-18-16		7-19-16		7-20-16		7-21-16		7-22-16		7-23-16		7-24-16		
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS												
				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	FIR-801 Icon red and PDT-831 AP >.050 or FIR-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	
				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
				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
4.1.1.6	100 area re-circulation fan/plenum	FIR-803 Icon red and PDT-833 AP >.050 or FIR-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	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
4.1.1.6	300 area re-circulation fan/plenum	FIR-805 Icon red and PDT-836 AP >.050 or FIR-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	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
				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 PDT-838 AP >.050 or FIR-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	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
4.1.1.6	Vault re-circulation fan/plenum	FIR-811 Icon red and PDT-840 AP >.050 or FIR-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	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

Note		Date:		7-18-16		7-19-16		7-20-16		7-21-16		7-22-16		7-23-16		
Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.		Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		
SRs		Shift:		AM		PM		AM		PM		AM		PM		
Initials:		AM		PM		AM		PM		AM		PM		AM		
Description		Area		Gauge		Acceptance Criteria		Sat. / Unsat. (circle one)		Sat. / Unsat. (circle one)		Sat. / Unsat. (circle one)		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	
		100 Area	PDI-820-2 PDI-804-2	PDI-820-2 < PDI-804-2	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
		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
Completion Time		0140		1429		0140		0718		1429		0721		1431		

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: PRC Date: 7/23/16 Time: 1930 Reviewed by: [Signature] Date: 7/23/16 Time: 1600
 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).

		Date:	7/18/16	7/19/16	7/20/16	7/21/16	7/22/16	07/23/16	07/24/16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	gjn	gjn	gjn	gjn	gjn	gjn	gjn	
		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 ≥ -0.1 ; $\leq +0.1$	0.0 / Unsat.	0.0 / Unsat.	0.0 / Unsat.	0.0 / Unsat.	0.0 / Unsat.	0.0 / Unsat.	0.0 / Unsat.	
	Completion Time:		0940	0817	0740	0810	0826	0845	0920	

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	7/18/16	gm	gm	gm	gm	gm	7/22/16	7/23/16	7/24/16
		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	7/18/16	gm	gm	gm	gm	gm	7/22/16	7/23/16	7/24/16
		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	7/18/16	gm	gm	gm	gm	gm	7/22/16	7/23/16	7/24/16
		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	7/18/16	gm	gm	gm	gm	gm	7/22/16	7/23/16	7/24/16
		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	7/18/16	gm	gm	gm	gm	gm	7/22/16	7/23/16	7/24/16
		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	7/18/16	gm	gm	gm	gm	gm	7/22/16	7/23/16	7/24/16
		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	7/18/16	1.04	1.04	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤ 2.0 & > 0' in. wc		.53	.53	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤ 2.0 & > 0' in. wc		.48	.48	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤ 2.0 & > 0' in. wc		.50	.50	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-1	≤ 2.0 & > 0' in. wc		STBY	STBY	.13	.13	.13	.13	.13	.13
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & > 0' in. wc		STBY	STBY	.49	.49	.49	.49	.49	.48
		PDI-823-4	≤ 2.0 & > 0' in. wc		STBY	STBY	.50	.50	.50	.50	.50	.51
		PDI-823-5	≤ 2.0 & > 0' in. wc		STBY	STBY	.51	.51	.51	.51	.51	.51
		PDI-830-1	≤ 2.0 & > 0' in. wc		.72	.72	.72	.72	.72	.72	.72	.73
		PDI-830-2	≤ 2.0 & > 0' in. wc		.25	.24	.25	.25	.25	.25	.25	.25
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-830-3	≤ 2.0 & > 0' in. wc		.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		.68	.68	.68	.68	.68	.68	.68	.68
		PDI-836-3	≤ 2.0 & > 0' in. wc		.57	.57	.57	.57	.57	.57	.57	.57
		PDI-837-1	≤ 2.0 & > 0' in. wc		.55	.55	.55	.55	.55	.55	.55	.55
4.1.1.7	300 area re-circulation filter plenum (HVP-806) 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	.42

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	7/18/16	gm	7/19/16	gm	7/20/16	gm	7/21/16	gm	7/22/16	gm	7/23/16	gm	7/24/16	gm
		PDI-838-2	≤2.0 & > 0' in. wc	.51	.51	.59	.59	.51	.51	.52	.57	.58	.57	.57	.57	.57	.58
		PDI-838-3	≤2.0 & > 0' in. wc	.66	.66	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	.41	.41	.44	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	
		PDI-839-2	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	
		PDI-839-3	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.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	.15	.15	.15	OFF	.15	.15	.15	.15	.15	.15	.15	.15		
		PDI-810-2	≤2.0 & > 0' in. wc	.48	.48	.48	OFF	.48	.48	.48	.48	.48	.48	.48	.48		
		PDI-810-3	≤2.0 & > 0' in. wc	.46	.46	.46	OFF	.46	.46	.46	.46	.46	.46	.46	.46		
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	.11	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
		PDI-811-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	.49	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
		PDI-811-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	.49	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
OC Operator Review and Page Count Complete (initials)				0770	0815	0810	0835	0835	0745	0930	0908						

'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: 7/24/16 Time: 0908 Reviewed by: [Signature] Date: 7/27/16 Time: 1600
 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:	7/18/16	7/19/16	7/20/16	7/21/16	7/22/16	7/23/16			
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.			
				Initials:	gm	gm	gm	gm	gm	gm	gm	gm	
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	.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	.51	.51	.51	.51	.51	.51	.51	.51	.51	
	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	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34
		PDI-831-2	≤2.0 & > 0' in. wc	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47
		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	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	
	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	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	.12	.12	OFF	.12	.12	.12	.12	.12	.12	
		PDI-807-2	≤2.0 & > 0' in. wc	.50	.50	OFF	.50	.50	.50	.50	.50	.50	
		PDI-807-3	≤2.0 & > 0' in. wc	.48	.48	OFF	.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	.28	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	OFF	.58	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	OFF	.49	OFF	OFF	OFF	OFF	OFF	OFF	

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: Weekday: Initials:	Mon. 7/18/16	Tue. 7/19/16	Wed. 7/20/16	Thu. 7/21/16	Fri. 7/22/16	Sat. 7/23/16	Sun. 7/24/16	
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	APM	.16	.16	.14	.16	.16	.16	.16	.16
		PDI-829-2	≤2.0 & > 0' in. wc	APM	.35	.33	.31	.34	.34	.34	.22	.22
		PDI-829-3	≤2.0 & > 0' in. wc	APM	.30	.29	.27	.29	.29	.29	.26	.26
		PDI-833-1	≤2.0 & > 0' in. wc	APM	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤2.0 & > 0' in. wc	APM	.50	.50	.50	.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	APM	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-835-1	≤2.0 & > 0' in. wc	APM	.17	.17	.17	.17	.17	.17	.17	
		PDI-835-2	≤2.0 & > 0' in. wc	APM	.43	.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	APM	.40	.40	.40	.40	.40	.40	.40	.39
		PDI-815-1	≤2.0 & > 0' in. wc	APM	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-815-2	≤2.0 & > 0' in. wc	APM	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-815-4	≤2.0 & > 0' in. wc	APM	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-815-5	≤2.0 & > 0' in. wc	APM	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤2.0 & > 0' in. wc	APM	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-816-2	≤2.0 & > 0' in. wc	APM	.50	.50	.50	.50	.50	.50	.50	
		PDI-816-4	≤2.0 & > 0' in. wc	APM	.43	.43	.45	.44	.44	.43	.43	
		PDI-816-5	≤2.0 & > 0' in. wc	APM	.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	SURVEILLANCE RESULTS (in. wc)															
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.								
				Weekday:	Initials:	Initials:	Initials:	Initials:	Initials:	Initials:	Initials:								
4.1.3.4	200 area glovebox exhaust filter plenum (FF-850) AP	PDI-812-1	≤2.0 & >0' in. wc	7/18/16	AP	7/19/16	AP	7/20/16	AP	7/21/16	AP	7/22/16	AP	7/23/16	AP	7/24/16	AP		
		PDI-812-2	≤2.0 & >0' in. wc	.16	.16	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	
		PDI-812-3	≤2.0 & >0' in. wc	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37
		PDI-812-4	≤2.0 & >0' in. wc	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37
		PDI-812-5	≤2.0 & >0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	200 area glovebox exhaust filter plenum (FF-851) AP	PDI-813-1	≤2.0 & >0' in. wc	7/18/16	AP	7/19/16	AP	7/20/16	AP	7/21/16	AP	7/22/16	AP	7/23/16	AP	7/24/16	AP		
		PDI-813-2	≤2.0 & >0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-813-3	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFT exhaust filter plenum (FF-865) AP	PDI-865-1	≤2.0 & >0' in. wc	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	
		PDI-865-2	≤2.0 & >0' in. wc	.29	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28
		PDI-865-3	≤2.0 & >0' in. wc	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32
4.1.3.4	IFT supply filter plenum (IIVP-863) AP	PDI-863-1	≤2.0 & >0' in. wc	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	
		PDI-863-2	≤2.0 & >0' in. wc	.30	.30	.28	.28	.28	.28	.28	.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							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:	Initials:	Initials:	Initials:	Initials:	Initials:	Initials:
4.1.3.4	North Basement supply filter plenum (IIVP-840) AP	PDI-857-1	≤ 2.0 & > 0' in. wc	7/18/16	7/19/16	7/20/16	7/21/16	7/22/16	7/23/16	7/24/16	
		PDI-857-2	≤ 2.0 & > 0' in. wc	APM	APM	APM	APM	APM	APM	APM	
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								
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² 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: Michael M. Jones Date: 7/24/16 Time: 1600 Reviewed by: [Signature]

Comments:

Date: 7/24/16 Time: 1600

On-duty Supervisor

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 ²	200 area glovebox exhaust header AP	<-1.0 in. wc' PDI-814-1 or PDI-814-2	7/25/16	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.00	1.99	1.99	2.00	1.99	1.98	2.00	
	100 area glovebox exhaust header AP	<-1.0 in. wc' PDI-820-1 or PDI-820-2	7/25/16	1.97	1.92	1.92	1.92	1.89	1.92	1.92	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' PDI-870-1 or PDI-870-2	7/25/16	1.98	1.97	1.96	1.97	1.98	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98
	400 area glovebox exhaust header AP	<-1.0 in. wc' PDI-864-1 or PDI-864-2	7/25/16	1.97	1.97	1.96	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header AP	<-0.05 in. wc' PDI-803-1 or PDI-803-2	7/25/16	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	<-0.05 in. wc' PDI-802-1 or PDI-802-2	7/25/16	0.24	0.23	0.21	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	
	300 area laboratory header AP	<-0.05 in. wc' PDI-853-1 or PDI-853-2	7/25/16	0.20	0.19	0.19	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	<-0.05 in. wc' PDI-852-1 or PDI-852-2	7/25/16	0.20	0.20	0.19	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 ²	IFT Facility AP	<-0.05 in. wc PDI-865-4 or PDI-865-5	7/25/16	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	
	North basement AP	< 0.00 in. wc PDI-804-1 or PDI-804-2	7/25/16	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	7/25/16	0.11	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	
	IRT Tunnel AP	< 0.00 in. wc PDI-901 or PDI-901	7/25/16	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]

(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 PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	At least one fan/plenum is in service	7/25/16	7/26/16	7/27/16	7/28/16	7/29/16	7/30/16	7/31/16	Sat.	AM	PM	AM	PM	AM	PM	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	AM	PM	AM	PM	AM	PM	AM	PM	
				Initials:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Date:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Readings	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									
				Acceptance Criteria	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									
				Initials:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Date:	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)

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.		7/25/16	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Weekday:		7/27/16	ARD		ARD		ARD		ARD		ARD		ARD		ARD		
Shift:		ARD															
Initials:		[Handwritten initials]															
SRs	Description	Area	Gauge	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 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	
		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				0704	0713	0718	0734	0736	0730	0731	0727	0720	0725	1920

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: 7/31/16 Time: 1920
 Reviewed by: [Signature] Date: 8/3/16 Time: 1300
 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:	7/25/16	7/26/16	7/27/16	7/28/16	7/29/16	7/30/16	7/31/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	DH	JM	DH	JM	DF	DH	JM
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 ≥ -0.1 ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Completion Time:			0813	0750	0807	0810	0715	0645	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:	7/25/16	7/26/16	7/27/16	7/28/16	7/29/16	7/30/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
				Initials:	DH	DM	DH	DM	Br	ELL	
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
		PDI-894-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & > 0' in. wc	.10	.10	.10	.10	.10	.10	.10	.10
		PDI-895-2	≤2.0 & > 0' in. wc	.61	.61	.61	.63	.62	.62	.64	.64
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	.25	.28	.28
		PDI-817-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	.30	.30	.30
		PDI-817-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	.31	.31	.32
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	.30	.30	.30
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	.35	.38	.38
		PDI-819-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	.38	.38	.38
		PDI-819-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	.30	.30	.30
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	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0' in. wc	.31	.31	.30	.31	.31	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0' in. wc	.35	.35	.35	.35	.35	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0' in. wc	.38	.34	.35	.35	.35	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	.32	.32	.35	.35	.36	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0' in. wc	.32	.32	.32	.32	.32	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:	7/25/16	7/26/16	7/27/16	7/28/16	7/29/16	7/30/16	7/31/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	DH	JM	DH	JM	AF	RH	JM	
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	1.02	1.04
		PDI-822-2	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	.52	.52
		PDI-822-4	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	.47	.48
		PDI-822-5	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	.50	.50
		PDI-823-1	≤ 2.0 & > 0 ¹ in. wc	.12	.13	.13	.13	.13	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & > 0 ¹ in. wc	.49	.49	.49	.49	.49	STBY	STBY	STBY
		PDI-823-4	≤ 2.0 & > 0 ¹ in. wc	.50	.50	.50	.50	.50	STBY	STBY	STBY
		PDI-823-5	≤ 2.0 & > 0 ¹ in. wc	.50	.50	.50	.50	.50	STBY	STBY	STBY
		PDI-830-1	≤ 2.0 & > 0 ¹ in. wc	.73	.73	.73	.73	.73	.73	.73	.73
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤ 2.0 & > 0 ¹ in. wc	.22	.23	.22	.22	.25	.25	.25	.23
		PDI-830-3	≤ 2.0 & > 0 ¹ in. wc	.26	.28	.28	.28	.28	.28	.29	.28
		PDI-836-1	≤ 2.0 & > 0 ¹ 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 ¹ in. wc	.69	.69	.70	.70	.70	.70	.70	.69
		PDI-836-3	≤ 2.0 & > 0 ¹ in. wc	.56	.56	.58	.58	.58	.59	.59	.59
		PDI-837-1	≤ 2.0 & > 0 ¹ in. wc	.55	.55	.57	.57	.57	.57	.57	.57
*	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤ 2.0 & > 0 ¹ in. wc	.38	.38	.39	.39	.38	.39	.39	.39
		PDI-837-3	≤ 2.0 & > 0 ¹ 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	7/25/16	Mon.	DH	qm	7/26/16	Tue.	7/27/16	Wed.	7/28/16	Thu.	7/29/16	Fri.	7/30/16	Sat.	7/31/16	Sun.	
		PDI-838-2	≤2.0 & > 0' in. wc	.53	.52	.58	.57	.64	.44	.61	.60	.14	.45	.42	OFF	OFF	OFF	.51	.57	.63
		PDI-838-3	≤2.0 & > 0' in. wc	.65	.64	.64	.44	.61	.60	.14	.45	.42	OFF	OFF	OFF	OFF	OFF	.43	.45	.44
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc	.45	.61	.60	.61	.60	.14	.45	.42	OFF	OFF	OFF	OFF	OFF	.40	.40	.61	
		PDI-839-2	≤2.0 & > 0' in. wc	.60	.61	.60	.61	.60	.14	.45	.42	OFF	OFF	OFF	OFF	OFF	.40	.40	.61	
		PDI-839-3	≤2.0 & > 0' in. wc	.60	.61	.60	.61	.60	.14	.45	.42	OFF	OFF	OFF	OFF	OFF	.40	.40	.61	
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc	.14	.49	.42	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	.16	.16	.50		
		PDI-810-2	≤2.0 & > 0' in. wc	.45	.49	.42	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	.50	.50	.50	.50	
		PDI-810-3	≤2.0 & > 0' in. wc	.42	.48	.42	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	.49	.49	.49	.49	
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	OFF	OFF	OFF	OFF	
		PDI-811-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	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	OFF	OFF	OFF	OFF	
OC Operator Review and Page Count Complete (initials)				0919	0910	0855	0910	0803	0715	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: Seneca A. Date 7/28/16 Time 0240 Reviewed by: [Signature] Date: 7/31/16 Time: 1320
 On-duty Supervisor
 Comments: *CONDENSATE TRAY FOR 806 COOLING COILS NEARING OVERFLOW 7/27/16 0835 - OPS CTR NOTIFIED

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	7/25/16	DH	7/26/16	DH	7/27/16	JM	7/28/16	EF	7/29/16	W	7/31/16	JM
		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	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:	7/25/16	7/26/16	7/27/16	7/28/16	7/29/16	7/31/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
			Initials:	DH	DH	JA	JA	JA	BF	MS	JA
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	.16	.16	.16	.14	.14	.14	.15	.16
		PDI-829-2	≤2.0 & > 0' in. wc	.35	.35	.35	.30	.31	.31	.31	.31
		PDI-829-3	≤2.0 & > 0' in. wc	.30	.29	.29	.25	.28	.28	.28	.28
		PDI-833-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤2.0 & > 0' in. wc	.50	.49	.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	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-835-1	≤2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17	.17
		PDI-835-2	≤2.0 & > 0' in. wc	.45	.45	.43	.44	.43	.43	.43	.43
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-3	≤2.0 & > 0' in. wc	.40	.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
		PDI-815-5	≤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-816-1	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-816-2	≤2.0 & > 0' in. wc	.50	.50	.51	.51	.51	.51	.51	.51
		PDI-816-4	≤2.0 & > 0' in. wc	.44	.44	.44	.44	.44	.44	.44	.44
		PDI-816-5	≤2.0 & > 0' in. wc	.49	.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:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.												
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) AP	PDI-812-1	≤2.0 & > 0' in. wc	DA	7/25/16	Mon.	.16	7/26/16	Tue.	DA	7/27/16	Wed.	GM	7/28/16	Thu.	GM	7/29/16	Fri.	GM	7/30/16	Sat.	GM	7/31/16	Sun.	GM
		PDI-812-2	≤2.0 & > 0' in. wc		.38		.38		.38		.38		.38		.38		.38		.38		.38		.38		.38
		PDI-812-3	≤2.0 & > 0' in. wc		.35		.35		.35		.35		.35		.35		.35		.35		.35		.35		.35
		PDI-812-4	≤2.0 & > 0' in. wc		.30		.30		.30		.30		.30		.30		.30		.30		.30		.30		.30
		PDI-812-5	≤2.0 & > 0' in. wc		.41		.41		.41		.41		.41		.41		.41		.41		.41		.41		.41
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) AP	PDI-813-1	≤2.0 & > 0' in. wc		.16		.16		.16		.16		.16		.16		.16		.16		.16		.16		.16
		PDI-813-2	≤2.0 & > 0' in. wc		.38		.38		.38		.38		.38		.38		.38		.38		.38		.38		.38
		PDI-813-3	≤2.0 & > 0' in. wc		.35		.35		.35		.35		.35		.35		.35		.35		.35		.35		.35
		PDI-813-4	≤2.0 & > 0' in. wc		.30		.30		.30		.30		.30		.30		.30		.30		.30		.30		.30
		PDI-813-5	≤2.0 & > 0' in. wc		.41		.41		.41		.41		.41		.41		.41		.41		.41		.41		.41
4.1.3.4	IFT exhaust filter plenum (FI-865) AP	PDI-865-1	≤2.0 & > 0' in. wc		.03		.03		.03		.03		.03		.03		.03		.03		.03		.03		.03
		PDI-865-2	≤2.0 & > 0' in. wc		.40		.40		.40		.40		.40		.40		.40		.40		.40		.40		.40
		PDI-865-3	≤2.0 & > 0' in. wc		.32		.32		.32		.32		.32		.32		.32		.32		.32		.32		.32
4.1.3.4	IFT supply filter plenum (IIVP-863) AP	PDI-863-1	≤2.0 & > 0' in. wc		.11		.11		.11		.11		.11		.11		.11		.11		.11		.11		.11
		PDI-863-2	≤2.0 & > 0' in. wc		.89		.89		.89		.89		.89		.89		.89		.89		.89		.89		.89

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.
4.1.3.4	North Basement supply filter plenum (IIVP-840) AP	PDI-857-1	< 2.0 & > 0' in. wc	7/25/16	7/26/16	7/27/16	7/28/16	7/29/16	7/30/16	7/31/16	
		PDI-857-2	< 2.0 & > 0' in. wc	DH	DH						
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								
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² 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	0851	0913	0815	0820	0735	0711	0755
				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 7/29/16 Time 0255 Reviewed by: [Signature]

Date: 8/5/16 Time: 1320

On-duty Supervisor

Comments:

August

Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004, R17.1
Date of issue:	8/1/16
Working copy issued to:	R PRICE
Working copy issued by:	B CHANCE
Certified Operations Center Operator (OCO)	

OC Reviews Complete and TSR Status Board Updated


/ 9/1/16
 OCO Signature Date

Training Checklist:

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
B CHANCE	BC	8-1-16
A. SAURIQUE	BC	8-1-16
J LOVATO	BC	8-1-16
A. ORTIZ	BC	8-1-16
R PRICE	BC	8-1-16
F. SEYBERT	BC	8-1-16
J. SMELTZ	BC	8-1-16
K. BAILEY	BC	8-1-16
B FORDHAM	BC	8-1-16
J. FRANK	BC	8-1-16

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
D. HEINTSCHEL	BC	8-1-16
R. HOHNER	BC	8-1-16
A. HERRERA	BC	8-1-16
M. IRISH	BC	8-1-16
T. LANGWORTHY	BC	8-1-16
J. MARTINEZ	BC	8-1-16
A. SANCHEZ	BC	8-1-16
AUGIE SANCHEZ	BC	8-1-16
P. TRUJILLO	BC	8-1-16
R. BRISCOE	BC	8-1-16
A. DUNSEITH	BC	8-1-16
R. LUM	BC	8-1-16
S. MCKERNAN	BC	8-1-16

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	BC
	2	Rm. 106	> 1 mR/hr	Sat / Unsat	BC
	3	Rm. 305	> 1 mR/hr	Sat / Unsat	BC
	4	Rm. 401	> 1 mR/hr	Sat / Unsat	BC
	5	Rm. 206	> 1 mR/hr	Sat / Unsat	BC
	6	Rm. 114	> 1 mR/hr	Sat / Unsat	BC
	7	Rm. 319 W	> 1 mR/hr	Sat / Unsat	BC
	8	Rm. 409	> 1 mR/hr	Sat / Unsat	BC
	9	Rm. 208	> 1 mR/hr	Sat / Unsat	BC
	10	Rm. 124	> 1 mR/hr	Sat / Unsat	BC
	11	Rm. 319 E	> 1 mR/hr	Sat / Unsat	BC
	12	Rm. 420	> 1 mR/hr	Sat / Unsat	BC
	13	Rm. 209	> 1 mR/hr	Sat / Unsat	BC
	14	Rm. 126	> 1 mR/hr	Sat / Unsat	BC
	15	Rm. 327	> 1 mR/hr	Sat / Unsat	BC
	4.2.2.1	16	Rm. 429	> 1 mR/hr	Sat / Unsat
17		Vault 17	> 1 mR/hr	Sat / Unsat	BC
18		Vault 18	> 1 mR/hr	Sat / Unsat	BC
19		Vault 19	> 1 mR/hr	Sat / Unsat	BC
20		Vault 20	> 1 mR/hr	Sat / Unsat	BC

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

Completed by: [Signature] Date 08-01-16 Time 0515
 Reviewed by: [Signature] Date 8/3/16 Time 1320
 On-duty Supervisor

Comments:

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

Sits	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.	1354 1354	8/24/16	RA
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.	1405	8/24/16	ZL
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.	1346	8/24/16	ZL
*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.	1433	8/24/16	RA
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. 4.7 Seconds	Sat. Unsat.	1433	8/24/16	RA
				Sat. Unsat.	1433	8/24/16	RA

*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 LANS Building T455-4 (PF-4). Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANS-DOE-ORDER-420.1B-EQ-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. 6.8 Seconds	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1427	8/24/16	RA
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.	1441	8/24/16	RA
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.	1442	8/24/16	RA
OC Operator Review and Page Count Complete							40

Note: SR 4.1.3.2 applies during Inpde 1 and 2.

Completed by: Rory Helmer

Date: 8/24/16 Time: 1457

Reviewed by: [Signature]

Date: 8/24/16 Time: 0630

On-duty Supervisor Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]
(Page 1 of 3)

SRS	Description	Gauge Acceptance Criteria	Date:		Weekday:		Shift:		Initials:		SURVEILLANCE RESULTS (in. wc)													
			8/11/16		8/21/16		8/31/16		8/4/16		8/5/16		8/6/16		8/7/16		8/8/16		8/9/16		8/10/16		8/11/16	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc'	1.98	-2.02	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	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc'	1.93	-1.91	1.92	1.91	1.92	1.93	1.92	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	1.93
4.1.1.2 4.1.1.5 4.1.2.2 ²	300 area glovebox exhaust header ΔP	≤-1.0 in. wc'	1.98	-1.97	1.98	1.98	1.97	1.98	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
	400 area glovebox exhaust header ΔP	≤-1.0 in. wc'	1.97	-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	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97
4.1.1.3 4.1.2.3 ²	200 area laboratory header ΔP	≤-0.05 in. wc'	1.18	-1.19	1.18	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
	100 area laboratory header ΔP	≤-0.05 in. wc'	1.23	-1.24	1.22	1.23	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
4.1.1.3 4.1.2.3 ²	300 area laboratory header ΔP	≤-0.05 in. wc'	1.20	-1.20	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	1.19	1.19	1.19	1.19	1.19	1.19
	400 area laboratory header ΔP	≤-0.05 in. wc'	1.20	-1.20	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	1.19	1.19	1.19	1.19	1.19	1.19
4.1.1.3 4.1.2.3 ²	IFIT Facility AP	≤-0.05 in. wc	1.10	-1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	North basement AP	< 0.00 in. wc	1.10	-1.09	1.10	1.09	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
4.1.1.3 4.1.2.3 ²	South basement AP	< 0.00 in. wc	1.10	-1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	IRT Tunnel ΔP	< 0.00 in. wc	1.10	-1.18	1.25	1.25	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24

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 PDTs may be used if FCS is unavailable.		8/1/16	8/1/16	8/2/16	8/2/16	8/3/16	8/3/16	8/4/16	8/4/16	8/5/16	8/5/16	8/6/16	8/6/16	8/7/16	8/7/16	
	Weekday:															
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	Initials:															
SRs	Description	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	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
	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	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
	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	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
Weekday:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Shift:		AM		PM		AM		PM		AM		PM		AM		
Initials:		AL		AL		AL		AL		AL		AL		AL		
SRs	Description	Area	Gauge	SURVEILLANCE RESULTS												
	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	Sat / Unsat. (circle one)												
100 Area		PDI-820-2 PDI-802-2 PDI-804-2	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	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	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
Completion Time		0733 1930		0732 1930		0753 1930		0722 1924		0730 1930		0721 1930		0720 1930		

Note: 1 Mode 2 acceptance criteria is < 0.00 in. wv
 Note: 2 SRs 4 1.2.x only apply during mode 2 in accordance with I.CO 3 1.2.

Completed by: AL Date 8/16 Time 1930 Reviewed by: [Signature] Date: 8/16 Time: 0700
 On-duty Supervisor

Comments:

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

(Page 1 of 5)

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

		Date:	8/1/16	8/2/16	8/3/16	8/4/16	8/5/16	8-6-16	8-7-16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	Am	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)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		CP-305-H (LED Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		≥ -0.1 ; $\leq +0.1$	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	
	Completion Time:		0910	0800	0757	0828	0720	0745	0745	

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

(Page 2 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday: Initials:	8/1/16 Mon. Jm	8/2/16 Tue. Jm	8/3/16 Wed. Jm	8/4/16 Thu. Jm	8/5/16 Fri. BF	8-6-16 Sat. PT	8-7-16 Sun. 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	.06	.05	.05
		PDI-894-2	≤2.0 & > 0' in. wc	.48	.48	.48	.49	.49	.49	.49	.49
		PDI-895-1	≤2.0 & > 0' in. wc	.10	.10	.10	.10	.10	.10	.10	.10
		PDI-895-2	≤2.0 & > 0' in. wc	.66	.65	.65	.62	.65	.65	.65	.65
		PDI-817-1	≤2.0 & > 0' in. wc	STBY	.28	.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	STBY	.30	.30	.30	.30	.30	.30	.30
		PDI-817-4	≤2.0 & > 0' in. wc	STBY	.31	.31	.31	.31	.32	.31	.31
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	.30	.30	.30	.30	.31	.30	.30
		PDI-819-1	≤2.0 & > 0' in. wc	STBY	.36	.36	.36	.36	.50	.50	.50
		PDI-819-3	≤2.0 & > 0' in. wc	STBY	.37	.37	.37	.36	.51	.51	.51
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-4	≤2.0 & > 0' in. wc	STBY	.30	.30	.30	.30	.47	.45	.45
		PDI-818-1	≤2.0 & > 0' in. wc	.24	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-2	≤2.0 & > 0' in. wc	.30	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0' in. wc	.35	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0' in. wc	.35	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	.36	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0' in. wc	.37	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0' in. wc	.32	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 3 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday: Initials:	8/1/16 Mon. AM	8/2/16 Tue. AM	8/3/16 Wed. JP	8/4/16 Thu. AM	8/5/16 Fri. BF	8-6-16 Sat. PT	8-7-16 Sun. PT	
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	STBY	1.02	1.04	1.04	1.04	1.04	1.04	1.04	1.04
		PDI-822-2	≤2.0 & > 0' in. wc	STBY	.53	.54	.54	.54	.53	.52	.52	.52
		PDI-822-4	≤2.0 & > 0' in. wc	STBY	.48	.48	.48	.48	.47	.49	.49	.49
		PDI-822-5	≤2.0 & > 0' in. wc	STBY	.50	.50	.50	.50	.51	.50	.50	.50
		PDI-823-1	≤2.0 & > 0' in. wc	.13	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	.49	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0' in. wc	.50	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0' in. wc	.51	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	.72	.72	.72	.72	.72	.72	.73	.72	.72
		PDI-830-2	≤2.0 & > 0' in. wc	.22	.22	.23	.24	.22	.22	.22	.22	.22
		PDI-830-3	≤2.0 & > 0' in. wc	.26	.26	.27	.27	.27	.27	.27	.27	.28
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-1	≤2.0 & > 0' in. wc	.67	.67	.67	.67	.67	.69	.69	.69	.69
		PDI-836-2	≤2.0 & > 0' in. wc	.69	.69	.69	.69	.69	.69	.69	.69	.69
		PDI-836-3	≤2.0 & > 0' in. wc	.57	.57	.57	.56	.57	.57	.57	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc	.57	.57	.57	.57	.57	.57	.58	.57	.57
		PDI-837-2	≤2.0 & > 0' in. wc	.38	.38	.38	.39	.39	.39	.40	.39	.39
PDI-837-3	≤2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.45	.42	.42		

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

(Page 4 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	8/1/16	8/2/16	8/3/16	8/4/16	8/5/16	8-6-16	8-7-16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Initials:	gm	gm	gm	gm	RF	PT	PT	PT	
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	.52	.51	.51	.51	
		PDI-838-2	≤2.0 & > 0' in. wc	.56	.56	.56	.56	.56	.56	.56	.56	.56	
		PDI-838-3	≤2.0 & > 0' in. wc	.65	.64	.64	.64	.64	.65	.65	.65	.63	
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45
		PDI-839-2	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.62	.62	.62	.62	.61	.61
		PDI-839-3	≤2.0 & > 0' in. wc	.60	.60	.60	.60	.61	.60	.60	.60	.60	.61
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc	OFF	.15	OFF	OFF	.16	.16	.15	.15	.15	
		PDI-810-2	≤2.0 & > 0' in. wc	OFF	.49	OFF	.50	.49	.49	.49	.49	.49	
		PDI-810-3	≤2.0 & > 0' in. wc	OFF	.48	OFF	.49	.48	.48	.48	.48	.49	

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1	≤2.0 & > 0' in. wc	8/1/16	8/2/16	8/3/16	8/4/16	8/5/16	8-6-16	8-7-16	
		PDI -811 -2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI -811 -3	≤2.0 & > 0' in. wc	AP	AP	AP	AP	AP	PT	PT	PT
INA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)								
				Completion Time	SAT	SAT	SAT	SAT	SAT	SAT	SAT
OC Operator Review and Page Count Complete (initials)					0900	0830	0835	0910	0825	0750	0739

Non TSR requirement.

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul Twiss Date 8-7-16 Time 0739 Reviewed by: _____

Date: 8/6/16 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: 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	8/1/16 Mon.	8/2/16 Tue.	8/3/16 Wed.	8/4/16 Thu.	8/5/16 Fri.	8-6-16 Sat.	8-7-16 Sun.	
		PDI-840-2	≤2.0 & > 0 in. wc	g.m.	g.m.	g.m.	g.m.	g.m.	PT	PT	
		PDI-840-3	≤2.0 & > 0' in. wc	STBY	.17	.58	.51	.17	.58	.51	.17
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	.47	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	.58	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	.51	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	.47	.46	.46	.47	.47	.47	.47	.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	.36	.37	.36	.36	.36	.36	.37	.37	
	PDI-832-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	.62	.62	.62	.62	.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	.13	OFF	.13	.12	.13	.13	
		PDI-807-2	≤2.0 & > 0' in. wc	OFF	.51	OFF	.51	.51	.51	.51	
		PDI-807-3	≤2.0 & > 0' in. wc	OFF	.50	OFF	.50	.50	.50	.50	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	.09	OFF	.09	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0' in. wc	.58	OFF	.56	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	.49	OFF	.49	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:	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	8/1/16	Mon.	.15	.14	.14	.13	.15	.15	.16
		PDI-829-2	≤2.0 & > 0' in. wc	Am	8/2/16	Tue.	.32	.31	.31	.30	.31	.32	.32
		PDI-829-3	≤2.0 & > 0' in. wc	Am	8/3/16	Wed.	.28	.26	.25	.25	.28	.28	.28
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤2.0 & > 0' in. wc	Am	8/4/16	Thu.	.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤2.0 & > 0' in. wc	Am	8/5/16	Fri.	.49	.49	.49	.49	.49	.49	.49
		PDI-833-3	≤2.0 & > 0' in. wc	Am	8/6/16	Sat.	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-1	≤2.0 & > 0' in. wc	Am	8/7/16	Sun.	.17	.17	.17	.17	.17	.17	.17
		PDI-835-2	≤2.0 & > 0' in. wc	Am	8/1/16	Mon.	.45	.45	.45	.45	.45	.45	.45
		PDI-835-3	≤2.0 & > 0' in. wc	Am	8/2/16	Tue.	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-1	≤2.0 & > 0' in. wc	Am	8/3/16	Wed.	.21	.21	.21	.21	.21	.21	.21
		PDI-815-2	≤2.0 & > 0' in. wc	Am	8/4/16	Thu.	.50	.50	.50	.50	.50	.50	.50
		PDI-815-4	≤2.0 & > 0' in. wc	Am	8/5/16	Fri.	.43	.43	.43	.43	.43	.43	.43
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-5	≤2.0 & > 0' in. wc	Am	8/6/16	Sat.	.46	.46	.46	.46	.46	.46	.46
		PDI-816-1	≤2.0 & > 0' in. wc	Am	8/7/16	Sun.	.21	.21	.21	.21	.21	.21	.21
		PDI-816-2	≤2.0 & > 0' in. wc	Am	8/1/16	Mon.	.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	Am	8/2/16	Tue.	.45	.45	.45	.45	.45	.45	.45
		PDI-816-5	≤2.0 & > 0' in. wc	Am	8/3/16	Wed.	.49	.49	.49	.49	.49	.49	.49
		PDI-816-5	≤2.0 & > 0' in. wc	Am	8/4/16	Thu.	.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.
						8/1/16	8/2/16	8/3/16	8/4/16	8/5/16	8-6-16	8-7-16
						Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
						APM	APM	APM	APM	CM	PT	PT
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1 PDI-812-2 PDI-812-3 PDI-812-4 PDI-812-5	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc			.16 .30 .37 .30 .40	.12 .31 .26 .35 .48	.11 .30 .35 .33 .44	.11 .29 .23 .31 .42	.11 .29 .23 .31 .42	.10 .29 .23 .31 .41	.10 .29 .23 .31 .41
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1 PDI-813-2 PDI-813-3 PDI-813-4 PDI-813-5	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc			.16 .30 .37 .30 .40	.12 .31 .26 .35 .48	.11 .30 .35 .33 .44	.11 .29 .23 .31 .42	.11 .29 .23 .31 .42	.10 .29 .23 .31 .41	.10 .29 .23 .31 .41
4.1.3.4	HFT exhaust filter plenum (FF-865) ΔP	PDI-865-1 PDI-865-2 PDI-865-3	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc			.02 .27 .31	.02 .29 .31	.02 .28 .31	.02 .28 .31	.02 .28 .31	.02 .28 .31	.02 .28 .31
4.1.3.4	HFT supply filter plenum (HVP-863) ΔP	PDI-863-1 PDI-863-2	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc			.10 .27	.09 .27	.09 .27	.09 .27	.09 .27	.10 .27	.10 .27

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 (IIVP-840) ΔP	PDI-857-1	≤2.0 & > 0' in. wc	8/1/16	Mon.	gm	0840	SAT				
		PDI-857-2	≤2.0 & > 0' in. wc	8/2/16	Tue.	gm	0817	SAT				
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1	≤2.0 & > 0' in. wc	8/3/16	Wed.	gm	0810	SAT				
		PDI-856-2	≤2.0 & > 0' in. wc	8/4/16	Thu.	gm	0800	SAT				
'NA	Combustible exclusion area around basement exhaust fan FER28 and bleed-off fans FER20A, FER20B, FER20C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	8/5/16	Fri.	gm	0757	SAT				
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/R ³ 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	8-6-16	Sat.	PT	0750	SAT				
				8-7-16	Sun.	PT						

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul Terajilo Date 8-7-16 Time 0749 Reviewed by: [Signature] Date: 8/16/16 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 PDI's are used.	Date:	08-08-16		08-09-16		08-10-16		08-11-16		08-12-16		08-13-16		08-14-16			
		Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Description	Gauge Acceptance Criteria	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Shift:	Initials:			Initials:		Initials:		Initials:		Initials:		Initials:		Initials:			
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤-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		
	100 area glovebox exhaust header ΔP	≤-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		
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc'	-1.98	-1.97	-1.98	-1.97	-1.97	-1.97	-1.98	-1.98	-1.98	-1.97	-1.98	-1.97	-1.98	-1.98	
	400 area glovebox exhaust header ΔP	≤-1.0 in. wc'	-1.98	-1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.98	
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤-0.05 in. wc'	-1.19	-0.19	-1.18	-0.18	-1.18	-0.18	-1.18	-0.18	-1.18	-0.18	-1.18	-0.18	-1.19	-0.19	
	100 area laboratory header ΔP	≤-0.05 in. wc'	-1.23	-0.23	-1.21	-0.21	-1.23	-0.23	-1.23	-0.23	-1.23	-0.23	-1.23	-0.23	-1.23	-0.23	
	300 area laboratory header ΔP	≤-0.05 in. wc'	-1.20	-0.20	-1.19	-0.19	-1.20	-0.20	-1.20	-0.20	-1.20	-0.20	-1.20	-0.20	-1.20	-0.20	
	400 area laboratory header ΔP	≤-0.05 in. wc'	-1.20	-0.20	-1.20	-0.20	-1.20	-0.20	-1.21	-0.21	-1.20	-0.20	-1.20	-0.20	-1.20	-0.20	
4.1.1.3 4.1.2.3 ²	IFIT Facility ΔP	≤-0.05 in. wc	-1.18	-0.18	-1.18	-0.18	-1.18	-0.18	-1.18	-0.18	-1.18	-0.18	-1.18	-0.18	-1.18	-0.18	
	North basement ΔP	< 0.00 in. wc	-1.10	-0.10	-1.10	-0.10	-1.10	-0.10	-1.10	-0.10	-1.10	-0.10	-1.10	-0.10	-1.10	-0.10	
	South basement ΔP	< 0.00 in. wc	-1.09	-0.09	-1.10	-0.10	-1.10	-0.10	-1.10	-0.10	-1.10	-0.10	-1.10	-0.10	-1.10	-0.10	
	IRT Tunnel ΔP	< 0.00 in. wc	-1.106	-0.106	-1.10	-0.10	-1.125	-0.125	-1.130	-0.130	-1.123	-0.123	-1.114	-0.114	-1.106	-0.106	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]
(Page 2 of 3)

SRs	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.	Date:	08-08-16	08-09-16	08-10-16	5/11/2016	08-12-16	08-13-16	08-14-16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Shift:	AM	PM	AM	PM	AM	PM	AM
		Initials:	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
		Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)						
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDI-831 AP >.050 or FR-802 Icon red and PDI-832 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	100 area re-circulation fan/plenum	FR-803 Icon red and PDI-833 AP >.050 or FR-804 Icon red and PDI-835 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	300 area re-circulation fan/plenum	FR-805 Icon red and PDI-836 AP >.050 or FR-806 Icon red and PDI-837 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	400 area re-circulation fan/plenum	FR-807 Icon red and PDI-838 AP >.050 or FR-808 Icon red and PDI-839 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	Vault re-circulation fan/plenum	FR-811 Icon red and PDI-840 AP >.050 or FR-812 Icon red and PDI-841 AP >.050	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	08-08-16	08-09-16	08-10-16	08-11-16	08-12-16	08-13-16	08-14-16
			PDI-803-2								
			PDI-804-2								
			PDI-820-2								
			PDI-802-2								
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								
			PDI-854-2								
Completion Time					0733	0724	0726	0737	0717	0733	0721

Note: 1 Mode 2 acceptance criteria is < 0.00 hr. we
 Note: 2 SRs 4.1.2.x only apply during mode 2 in accordance with I.CO 3.1.2.

Completed by: *[Signature]* Date: 8/11/16 Time: 0730
 Reviewed by: *[Signature]* Date: 8/16/16 Time: 0730
 On-duty Supervisor

Comments:

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

(Page 1 of 5)

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:	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Initials:	JA	JA	PT	AM	MM	MM	JA	
	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)								
	Flammable Gas Channel Check	NA								
	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
	(DET-305-3) - (CP-305H)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Record Calculated Value		Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	≥ -0.1 ; $\leq +0.1$		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Completion Time:		0820	0840	0753	0810	0740	0758	0802	

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

(Page 2 of 5)

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	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16	
		PDI-894-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-895-1	≤2.0 & > 0' in. wc	.05	.49	.05	.05	.05	.05	.05	.05
		PDI-895-2	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	.49
		PDI-817-1	≤2.0 & > 0' in. wc	.10	.10	.11	.10	.10	.10	.10	.10
4.1.3.4	300 area glovebox exhaust filter plenum (PF854) AP	PDI-817-1	≤2.0 & > 0' in. wc	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16	
		PDI-817-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-817-1	≤2.0 & > 0' in. wc	.61	.64	.64	.64	.64	.64	.64	
		PDI-817-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (PF858) AP	PDI-817-5	≤2.0 & > 0' in. wc	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16	
		PDI-819-1	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-819-3	≤2.0 & > 0' in. wc	.24	.25	.25	.25	.25	.25	.25	
		PDI-819-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		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 (PF855) AP	PDI-818-2	≤2.0 & > 0' in. wc	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16	
		PDI-818-4	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-818-5	≤2.0 & > 0' in. wc	.30	.31	.31	.31	.31	.31	.31	
		PDI-821-1	≤2.0 & > 0' in. wc	.35	.35	.35	.35	.35	.35	.35	
		PDI-821-3	≤2.0 & > 0' in. wc	.36	.36	.37	.36	.36	.37	.38	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (PF859) AP	PDI-821-1	≤2.0 & > 0' in. wc	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16	
		PDI-821-3	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-821-4	≤2.0 & > 0' in. wc	.48	.48	.49	.48	.48	.48	.48	

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

(Page 3 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. we)									
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16			
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. we	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-822-2	≤2.0 & > 0' in. we	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-822-4	≤2.0 & > 0' in. we	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-822-5	≤2.0 & > 0' in. we	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-1	≤2.0 & > 0' in. we	.13	.13	.13	.13	.12	.12	.12	.12	.12	
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. we	.50	.50	.50	.49	.49	.49	.49	.50	.50	
		PDI-823-4	≤2.0 & > 0' in. we	.50	.51	.50	.50	.50	.50	.50	.50	.50	
		PDI-823-5	≤2.0 & > 0' in. we	.50	.51	.50	.51	.50	.51	.50	.50	.50	
4.1.3.4	South Basement exhaust filter plenum (FI-829) AP	PDI-830-1	≤2.0 & > 0' in. we	.72	.72	.72	.72	.72	.72	.72	.72	.71	
		PDI-830-2	≤2.0 & > 0' in. we	.75	.75	.75	.75	.73	.73	.73	.74	.72	
		PDI-830-3	≤2.0 & > 0' in. we	.79	.78	.78	.78	.78	.78	.78	.78	.78	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-1	≤2.0 & > 0' in. we	.07	.07	.07	.07	.07	.07	.07	.07	.07	
		PDI-836-2	≤2.0 & > 0' in. we	.69	.69	.70	.69	.69	.69	.69	.69	.69	
		PDI-836-3	≤2.0 & > 0' in. we	.58	.58	.58	.58	.57	.57	.57	.57	.57	
		PDI-837-1	≤2.0 & > 0' in. we	.57	.57	.57	.57	.57	.57	.57	.57	.57	
		PDI-837-2	≤2.0 & > 0' in. we	.39	.39	.39	.39	.39	.39	.39	.39	.39	
PDI-837-3	≤2.0 & > 0' in. we	.42	.42	.42	.42	.42	.42	.42	.42	.42			

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]
(Page 4 of 5)

SRS	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:	Weekday:	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	JM	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16
		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	JM	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16
		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	JM	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16
		PDI-810-2	≤2.0 & >0' in. wc								
		PDI-810-3	≤2.0 & >0' in. wc								

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	Date:	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/14/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	Jm	Jm	PT	Jm	mm	mm	Jm	
SURVEILLANCE RESULTS (in. wc)												
4.1.3.4	South Bleed off filter plenum (PF-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	
INA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT	
OC Operator Review and Page Count Complete (initials)				Completion Time	0950	0900	0813	0900	0900	0819	0833	

*Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in I.CO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in I.CO 3.1.3.

Completed by: [Signature] Date 8/14/16 Time 0833 Reviewed by: [Signature] Date: 8/14/16 Time: 0730

On-duty Supervisor

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

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criteria (in. wc)	SURVEILLANCE RESULTS (in. wc)								
				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	.17	.17	.17	.17	.17	.17	.17	.17	
		PDI-840-2	≤2.0 & > 0 in' wc	.58	.58	.59	.58	.58	.58	.58	.58	
		PDI-840-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.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	.33	.33	.34	.33	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc	.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
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	.37	.36	.36	.36	.37	.37	.37	.37	.37	
	PDI-832-2	≤2.0 & > 0' in. wc	.68	.68	.69	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.62	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	.13	.13	.13	.13	.13	.13	.13	.13	
		PDI-807-2	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	
		PDI-807-3	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50	
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	
		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	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date: Weekday:	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	JA	8/8/16	8/9/16	8-10-16	8/11/16	8/12/16	8/13/16	8/13/16	8/13/16
		PDI-829-2	≤2.0 & > 0' in. wc			.15	.14	.15	.16	.16	.16	.16
		PDI-829-3	≤2.0 & > 0' in. wc			.32	.31	.32	.35	.32	.32	.35
		PDI-833-1	≤2.0 & > 0' in. wc			.28	.27	.28	.27	.29	.29	.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			.50	.50	.50	.49	.50	.50	.50
		PDI-835-1	≤2.0 & > 0' in. wc			.41	.41	.41	.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	.42	.42	.42
		PDI-815-1	≤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			.21	.21	.21	.21	.21	.21	.21
		PDI-815-2	≤2.0 & > 0' in. wc			.49	.49	.49	.49	.49	.49	.49
		PDI-815-4	≤2.0 & > 0' in. wc			.42	.43	.42	.42	.42	.42	.42
		PDI-815-5	≤2.0 & > 0' in. wc			.42	.44	.42	.43	.43	.43	.43
		PDI-816-1	≤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-816-2	≤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
		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.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	PM	8/8/16	8/9/16	8/10/16	8/11/16	8/12/16	8/13/16	8/14/16
		PDI-812-2	≤2.0 & > 0' in. wc	PM							
		PDI-812-3	≤2.0 & > 0' in. wc	PM							
		PDI-812-4	≤2.0 & > 0' in. wc	PM							
		PDI-812-5	≤2.0 & > 0' in. wc	PM							
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	PM							
		PDI-813-2	≤2.0 & > 0' in. wc	PM							
		PDI-813-3	≤2.0 & > 0' in. wc	PM							
		PDI-813-4	≤2.0 & > 0' in. wc	PM							
		PDI-813-5	≤2.0 & > 0' in. wc	PM							
4.1.3.4	HFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	PM							
		PDI-865-2	≤2.0 & > 0' in. wc	PM							
		PDI-865-3	≤2.0 & > 0' in. wc	PM							
4.1.3.4	HFT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	PM							
		PDI-863-2	≤2.0 & > 0' in. wc	PM							

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' in. wc	jm								
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-857-2	≤ 2.0 > 0' in. wc	jm								
'NA	Combustible exclusion area around basement exhaust fan FE:828 and bleed-off fans FE:820A, FE:820B, FE:820C	PDI-856-1	≤ 2.0 > 0' in. wc	jm								
		PDI-856-2	≤ 2.0 > 0' in. wc	jm								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² 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	jm								
					Completion time							
					0938	0915	0838	0820	0730	0819		
					OC Operator Review and Page Count Complete (initials)	APJ BC	APJ BC	APJ BC	APJ BC	APJ BC	APJ BC	APJ BC
					1 Non TSR requirement							

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in I.CO 3.1.3.

Completed by: Michael In. In. In. Date: 8/11/16 Time: 0730 Reviewed by: [Signature] Date: 8/11/16 Time: 0730 Off-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 ²	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc'	8/15/16	2.00	2.00	8/16/16	2.00	1.99	8/17/16	1.97	1.98	8/18/16	1.98	1.99	8/19/16	1.98	1.98	8/20/16	1.99	2.00	8/21/16	2.00	2.00
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc'		1.93	1.91		1.92	1.90		1.91	1.90		1.92	1.91		1.93	1.93		1.92	1.93		1.93	1.93
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc'		1.91	1.90		1.98	1.98		1.97	1.98		1.98	1.98		1.97	1.97		1.97	1.97		1.98	1.97
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc'		1.98	1.97		1.98	1.98		1.99	1.98		1.98	1.97		1.98	1.98		1.97	1.98		1.98	1.98
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc'		1.19	1.19		1.19	1.19		1.20	1.20		1.19	1.19		1.19	1.19		1.18	1.19		1.19	1.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc'		2.23	2.23		2.23	2.24		2.21	2.24		2.24	2.24		2.24	2.24		2.23	2.24		2.24	2.24
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc'		2.20	2.20		2.19	2.19		2.21	2.21		2.20	2.20		2.21	2.21		2.20	2.21		2.21	2.21
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc'		2.20	2.20		2.20	2.20		2.21	2.21		2.20	2.20		2.21	2.21		2.20	2.21		2.21	2.21
4.1.1.3 4.1.2.3 ²	IFIT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc		1.18	1.18		1.17	1.17		1.19	1.19		1.19	1.19		1.18	1.18		1.18	1.18		1.19	1.18
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc		1.10	1.10		1.10	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	PDI-854-1 or PDI-854-2	< 0.00 in. wc		1.10	1.10		1.09	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	PDI-901 or PDI-901	< 0.00 in. wc		1.12	1.12		1.12	1.12		1.11	1.11		1.12	1.12		1.11	1.11		1.11	1.11		1.11	1.11

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 PDT-831 AP > 050 or FR-802 Icon red and PDT-832 AP > 050	At least one fan/plenum is in service	8-15-16	8-16-16	8-17-16	8-18-16	8-19-16	8-20-16	8-21-16
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
	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	SURVEILLANCE RESULTS																	
						Sat. / Unsat. (circle one)																	
						Mon.	Tue.		Wed.		Thu.		Fri.		Sat.		Sun.						
<p>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.</p>						Date: 8-15-16	8-16-16		08-17-16		08-18-16		8-19-16		8-20-16		8-21-16						
						Weekday:																	
						Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
						Initials:	[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]						
<p>4.1.1.4 Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400</p>						PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat					
						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	
						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
						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
						Completion Time	0130	0130	0130	0130	0130	0130	0130	0130	0130	0130	0130	0130	0130	0130	0130	0130	0130

Note: 1 Mode 2 acceptance criteria is < 0.00 in. we
Note: 2 SRS-4 1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Completed by: [Signature] Date: 8/22/16 Time: 1428 Reviewed by: [Signature] Date: 8/22/16 Time: 0730
On-duty Supervisor

Comments:

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

(Page 1 of 5)

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

		Date:	8/15/2016	8/16/16	8/17/16	8-18-16	8/19/16	8/20/16	8/21/16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	BF	AM	AM	AS	AM	AM	AM	
		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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		≥ -0.1 ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	
		Completion Time:	0808	0755	0750	0800	0805	0710	0720	

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

(Page 2 of 5)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday: Initials:	8/15/16 Mon.	8/16/16 Tue.	8/17/16 Wed.	8.18.16 Thu.	8/19/16 Fri.	8/20/16 Sat.	8/21/16 Sun.	
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc		.05	.05	.05	.07	.05	.05	.05	.05
		PDI-894-2	≤2.0 & > 0' in. wc	.50	.50	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc	.11	.10	.10	.11	.11	.11	.11	.11	.10
		PDI-895-2	≤2.0 & > 0' in. wc	.64	.61	.62	.62	.64	.64	.64	.64	.64
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc	STBY	.28	.28	.28	.28	.28	.28	.28	.28
		PDI-817-2	≤2.0 & > 0' in. wc	STBY	.30	.30	.30	.31	.31	.31	.31	
		PDI-817-4	≤2.0 & > 0' in. wc	STBY	.32	.32	.32	.30	.32	.32	.32	.32
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	.30	.30	.30	.30	.29	.29	.29	.29
		PDI-81 9-1	≤2.0 & > 0' in. wc	STBY	.40	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-3	≤2.0 & > 0' in. wc	STBY	.50	.51	.51	.51	.51	.51	.51	.51
		PDI-819-4	≤2.0 & > 0' in. wc	STBY	.44	.44	.44	.44	.44	.44	.44	
		PDI-818-1	≤2.0 & > 0' in. wc	.25	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-818-2	≤2.0 & > 0' in. wc	.31	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-818-4	≤2.0 & > 0' in. wc	.35	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-818-5	≤2.0 & > 0' in. wc	.35	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-821-1	≤2.0 & > 0' in. wc	.50	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-821-3	≤2.0 & > 0' in. wc	.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-821-4	≤2.0 & > 0' in. wc	.48	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 5)

SIRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)								
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					8/15/16	8/16/16	8/17/16	8/18-16	8/19/16	8/20/16	8/21/16		
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	BF									
		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	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-3	≤2.0 & > 0' in. wc										

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

(Page 4 of 5)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	8/15/16	8/16/16	8/17/16	8-18-16	8/19/16	8/20/16	8/21/16
					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	BF		.51	.51	.51	.51	.51	.51	.51
		PDI-838-2	≤2.0 & > 0' in. wc		.56	.55	.55	.55	.55	.55	.55	.55
		PDI-838-3	≤2.0 & > 0' in. wc		.64	.64	.64	.55	.58	.56	.56	.56
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc		.44	.44	.44	.45	.44	.44	.44	.44
		PDI-839-2	≤2.0 & > 0' in. wc		.53 BF	.62	.62	.62	.62	.62	.61	.61
		PDI-839-3	≤2.0 & > 0' in. wc		.51	.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		.16	.15	.16	.15	.15	.15	.15	.15
		PDI-810-2	≤2.0 & > 0' in. wc		.49	.49	.49	.49	.49	.49	.49	.49
		PDI-810-3	≤2.0 & > 0' in. wc		.48	.49	.48	.48	.48	.48	.48	.48

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	8/15/16	8/16/16	8/17/16	8-18-16	8/19/16	8/20/16	8/21/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	BE	GM	GM	NS	GM	GM		
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
		PDI-811-2	≤2.0 & > 0' in. wc	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
'NA	Combustible exclusion area around basement exhaust fan FER29 and bleed-off fans FER22A, FER22B, FER22C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
OC Operator Review and Page Count Complete (initials)				Completion Time	0848	0825	0820	0845	0820	0820	0820	0840
					PARL	PARL	PARL	PARL	PARL	PARL	PARL	PARL

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date 8/16/16 Time 0840 Reviewed by: [Signature] Date: 8/16/16 Time: 0730

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:	8/15/16	8/16/16	8/17/16	8-18-16	8/19/16	8/20/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				BF	qm	qm	as	qm	qm	qm
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	.17	STBY	STBY	STBY	STBY	.17	.17
		PDI-840-2	≤2.0 & > 0 in'. wc	.58	STBY	STBY	STBY	STBY	.58	.58
		PDI-840-3	≤2.0 & > 0' in. wc	.50	STBY	STBY	STBY	STBY	.51	.51
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	STBY	.47	.47	.47	.47	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	.58	.58	.58	.58	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	STBY	.51	.51	.51	.51	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
		PDI-831-2	≤2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.42	.42
		PDI-831-3	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.40	.40
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	.36	.37	.35	.35	.36	.36	.36	
	PDI-832-2	≤2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	.62	.62	.62	.62	.62	.62	.62	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	.14	.13	.13	.12	.12	.12	.12
		PDI-807-2	≤2.0 & > 0' in. wc	.53	.52	.50	.50	.48	.48	.48
		PDI-807-3	≤2.0 & > 0' in. wc	.51	.51	.49	.49	.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	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 Criterion	SURVEILLANCE RESULTS (in. wc)							
				Date:	8/15/16	8/16/16	8/17/16	8-18-16	8/19/16	8/20/16	8/21/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	EF	qm	qm	os	fu	qu	pr
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	.16	.16	.17	.17	.17	.17	.17	.17
		PDI-829-2	≤2.0 & > 0' in. wc	.34	.33	.36	.36	.36	.36	.36	.36
		PDI-829-3	≤2.0 & > 0' in. wc	.29	.29	.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	.51	.50	.50	.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	.42	.41	.41	.41	.41	.45	.45	.45
		PDI-835-1	≤2.0 & > 0' in. wc	.18	.17	.17	.17	.17	.17	.17	.17
		PDI-835-2	≤2.0 & > 0' in. wc	.45	.43	.43	.43	.43	.45	.45	.45
		PDI-835-3	≤2.0 & > 0' in. wc	.40	.39	.39	.39	.39	.41	.41	.41
		PDI-815-1	≤2.0 & > 0' in. wc	.20	STBY	.20	.20	.20	.20	.20	.20
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	.49	STBY	.49	.49	.49	.49	.49	.49
		PDI-815-4	≤2.0 & > 0' in. wc	.41	STBY	.43	.43	.43	.43	.43	.43
		PDI-815-5	≤2.0 & > 0' in. wc	.45	STBY	.45	.45	.45	.45	.45	.45
		PDI-816-1	≤2.0 & > 0' in. wc	STBY	.40	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0' in. wc	STBY	.51	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	.44	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	STBY	.49	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	Date:	8/15/16	8/16/16	8/17/16	8-16-16	8/19/16	8/20/16	8/21/16	
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
Initials:				Weekday:	gm	gm	gm	oo	gm	gm	gm	
SURVEILLANCE RESULTS (in. wc)												
4.1.3.4	200 area glovebox exhaust filter plenum (FF-850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	.15	STBY	.15	.15	.15	.15	.16	.16	
		PDI-812-2	≤2.0 & > 0' in. wc	.33	STBY	.33	.33	.33	.35	.35	.35	
		PDI-812-3	≤2.0 & > 0' in. wc	.31	STBY	.33	.33	.35	.35	.35	.35	
		PDI-812-4	≤2.0 & > 0' in. wc	.28	STBY	.29	.29	.28	.29	.29	.29	.29
		PDI-812-5	≤2.0 & > 0' in. wc	.58	STBY	.38	.39	.39	.39	.39	.39	.39
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	STBY	.10	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-2	≤2.0 & > 0' in. wc	STBY	.30	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-3	≤2.0 & > 0' in. wc	STBY	.23	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-4	≤2.0 & > 0' in. wc	STBY	.31	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-5	≤2.0 & > 0' in. wc	STBY	.45	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	IFF exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	.02	.02	.02	.02	.02	.02	.02	.02	
		PDI-865-2	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.29	.29	.29		
		PDI-865-3	≤2.0 & > 0' in. wc	.51	.31	.32	.32	.31	.31	.31		
4.1.3.4	IFF supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	.11	.10	.10	.11	.11	.11	.11	.11	
		PDI-863-2	≤2.0 & > 0' in. wc	.29	.28	.28	.29	.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	BF	8/15/16	Mon.	8/16/16	Tue.	8/17/16	Wed.	8/18/16	Thu.	8/19/16	Fri.	8/20/16	Sat.	8/21/16	Sun.
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc				.14	.42	.44	.14	.18	.44	.43	.14	.43	.43	.43	.43
'NA	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C	PDI-856-1	≤ 2.0 & > 0' in. wc				.10	.10	.10	.55	.09	.55	.16	.54	.69	.54	.54	.54
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0' in. wc				.60	.61	.55	.55	.55	.55	.54	.54	.54	.54	.54	.54
			0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)				SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft ³ 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	SAT	SAT	SAT	SAT
			Completion time				0835	0810	0810	0810	0829	0829	0830	0830	0745	0745	0745	0745
			OC Operator Review and Page Count Complete (initials)				0 APD	0 APD	0 APD	0 APD	0 APD	0 APD	0 APD	0 APD	0 APD	0 APD	0 APD	0 APD

1 Non TSR requirement

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date: 8/21/16 Time: 0745 Reviewed by: [Signature] Date: 8/22/16 Time: 0730
 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 PDI's are used.	Date	Weekday:		Wed.		Thu.		Fri.		Sat.		Sun.			
		Shift:		AM		PM		AM		PM		AM		PM	
		Initials:		U D		U D		U D		U D		U D		U D	
SRs	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)												
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤ -1.0 in. wc'	2.00	2.00	1.99	2.00	1.99	2.00	1.97	1.97	1.99	1.99	1.99	2.00	
	100 area glovebox exhaust header AP	≤ -1.0 in. wc'	1.97	1.92	1.93	1.92	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.93	
4.1.1.2 4.1.1.5 4.1.2.2	300 area glovebox exhaust header ΔP	≤ -1.0 in. wc'	1.97	1.96	1.97	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	
	400 area glovebox exhaust header AP	≤ -1.0 in. wc'	1.98	1.97	1.97	1.98	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	
4.1.1.3 4.1.2.3 ²	200 area laboratory header ΔP	≤ -0.05 in. wc'	0.19	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	
	100 area laboratory header ΔP	≤ -0.05 in. wc'	0.24	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	
4.1.1.2 4.1.1.5 4.1.2.2	300 area laboratory header ΔP	≤ -0.05 in. wc'	0.20	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
	400 area laboratory header ΔP	≤ -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	
4.1.1.3 4.1.2.3 ²	IFIT Facility AP	≤ -0.05 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	
	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	
4.1.1.3 4.1.2.3 ²	South basement AP	< 0.00 in. wc	0.10	0.11	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	0.10	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. 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: 8/22/16	8/23/16	8/24/16	8/25/16	8/26/16	8/27/16	8/28/16
				Weekday: Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Shift: AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
				Initials: <i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

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-803-2 PDI-804-2	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
				AM	PM	AM	PM	AM	PM	AM	PM
				AM	PM	AM	PM	AM	PM	AM	PM
	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	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
				AM	PM	AM	PM	AM	PM	AM	PM
				AM	PM	AM	PM	AM	PM	AM	PM
	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	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
				AM	PM	AM	PM	AM	PM	AM	PM
				AM	PM	AM	PM	AM	PM	AM	PM
	400 Area	PDI-864-2 PDI-852-2 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	AM	PM
				AM	PM	AM	PM	AM	PM	AM	PM
				AM	PM	AM	PM	AM	PM	AM	PM
Completion Time				0725	0723	0736	0728	0730	0720	0720	1935

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: 8/22/16 Time: 1935
 Reviewed by: *[Signature]* Date: 8/30/16 Time: 0700
 On-duty Supervisor

Comments:

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

(Page 1 of 5)

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

		Date:	8/22/16	8/23/16	8/24/16	8/25/16	8/26/16	8-27-16	8-28-16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	AM	AM	AM	BF	PT	PT
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge								
	Flammable Gas Channel Check	NA							
	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
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:	0750	0750	0820	0755	0721	0801	0749	

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

(Page 2 of 5)

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	8/22/16	pm	8/23/16	pm	8/24/16	pm	8/25/16	pm	8/26/16	bf	8/27/16	PT	8/28/16	PT
		PDI-894-2	≤2.0 & > 0' in. wc	.05	.05	.48	.48	.05	.05	.49	.05	.05	.49	.05	.05	.49	.05
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc	.10	.10	.10	.10	.10	.10	.11	.11	.11	.11	.11	.11	.11	.11
		PDI-895-2	≤2.0 & > 0' in. wc	.63	.63	.64	.64	.64	.64	.65	.64	.65	.64	.65	.64	.64	.64
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc	.28	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0' in. wc	.31	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0' in. wc	.31	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0' in. wc	.29	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-81 9-1	≤2.0 & > 0' in. wc	.50	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 (FF858) ΔP	PDI-81 9-3	≤2.0 & > 0' in. wc	.50	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0' in. wc	.44	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-1	≤2.0 & > 0' in. wc	STBY	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.25	.25
		PDI-818-2	≤2.0 & > 0' in. wc	STBY	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.31	.30	.30
		PDI-818-4	≤2.0 & > 0' in. wc	STBY	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26	.27	.28	.28
		PDI-818-5	≤2.0 & > 0' in. wc	STBY	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
		PDI-821-1	≤2.0 & > 0' in. wc	STBY	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-3	≤2.0 & > 0' in. wc	STBY	.51	.51	.51	.51	.51	.51	.51	.51	.51	.50	.51	.51	
		PDI-821-4	≤2.0 & > 0' in. wc	STBY	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	

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

(Page 3 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)										
				Date:	Weekday:	Initials:	8/22/16	8/23/16	8/24/16	8/25/16	8/26/16			
							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				1.04	1.04	1.04	1.04	1.04	1.04	1.04	
		PDI-822-2	≤2.0 & > 0' in. wc			.54	.54	.54	.54	.53	.52	.51	.51	
		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	.13	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			.49	.49	.49	.49	.49	.49	.49	.49	
		PDI-823-4	≤2.0 & > 0' in. wc			.50	.50	.50	.50	.50	.50	.50	.50	
		PDI-823-5	≤2.0 & > 0' in. wc			.51	.51	.51	.51	.51	.51	.51	.51	
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤2.0 & > 0' in. wc			.72	.72	.72	.72	.72	.72	.72	.72	
		PDI-830-2	≤2.0 & > 0' in. wc			.32	.32	.32	.32	.32	.32	.32	.32	
		PDI-830-3	≤2.0 & > 0' in. wc			.28	.28	.28	.28	.28	.28	.28	.28	
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	.07	.07	.07	
		PDI-836-2	≤2.0 & > 0' in. wc			.69	.69	.69	.69	.69	.69	.69	.69	
		PDI-836-3	≤2.0 & > 0' in. wc			.58	.58	.58	.58	.58	.58	.58	.58	
		PDI-837-1	≤2.0 & > 0' in. wc			.57	.57	.57	.57	.57	.57	.57	.57	
		PDI-837-2	≤2.0 & > 0' in. wc			.45	.45	.45	.45	.45	.45	.45	.45	
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 5)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	8/22/16	8/23/16	8/24/16	8/25/16	8/26/16	8/27/16	8/28/16	
				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	.51	.51	.51	.51	.51	.52	.53	.53	
		PDI-838-2	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.58	.58	.58	.59
		PDI-838-3	≤2.0 & > 0' in. wc	.55	.56	.56	.57	.58	.58	.58	.58	.58
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.39	.39	.39	.38	.38
		PDI-839-2	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.58	.59	.59	.58	.58
		PDI-839-3	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.54	.55	.55	.54	.54
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc	.15	OFF	.14	.15	.15	.15	.15	.15	
		PDI-810-2	≤2.0 & > 0' in. wc	.48	OFF	.48	.49	.49	.49	.49	.49	
		PDI-810-3	≤2.0 & > 0' in. wc	.46	OFF	.45	.49	.48	.48	.49	.48	

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Weekday:	Initials:	Completion Time	OC Operator Review and Page Count Complete (initials)			
				8/22/16 Mon.	8/23/16 Tue.	8/24/16 Wed.	8/25/16 Thu.		8/26/16 Fri.	8/27/16 Sat.	8/28/16 Sun.
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & >0' in. wc ≤2.0 & >0' in. wc ≤2.0 & >0' in. wc	gpn	gpn	gpn	gpn	BF	PT	PT	PT
'NA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	gpn	gpn	gpn	gpn	gpn	gpn	gpn	gpn
				SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
				0820	0830	0840	0821	0745	0750	0730	0730

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Juan Trujillo Date 8-28-16 Time 0740 Reviewed by: _____ Date: 8/30/16 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	8/22/16	gm	8/23/16	gm	8/24/16	gm	8/25/16	gm	8/26/16	gm	8/27/16	gm	8/28/16	gm	
		PDI-840-2	≤2.0 & > 0 in'. wc	.17	.17	.59	.59	.17	.17	.59	.59	.17	.17	.59	.59	.17	.17	.59
		PDI-840-3	≤2.0 & > 0' in. wc	.51	.51	.50	.50	.51	.51	.50	.50	.51	.51	.50	.50	.51	.51	.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	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	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	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	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc	.41	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42
		PDI-831-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.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	.36	.36	.36	.37	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	
	PDI-832-2	≤2.0 & > 0' in. wc	.68	.68	.68	.69	.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	.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	OFF	OFF	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	
		PDI-807-2	≤2.0 & > 0' in. wc	.47	OFF	OFF	.47	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	
		PDI-807-3	≤2.0 & > 0' in. wc	.48	OFF	OFF	.48	.48	.48	.48	.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	.08	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	OFF	.48	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	OFF	.45	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.							
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	8/22/16	Mon.	8/23/16	Tue.	8/24/16	Wed.	8/25/16	Thu.	8/26/16	Fri.	8/27/16	Sat.	8/28/16	Sun.	
		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 (FF-852) AP	PDI-835-1	≤2.0 & > 0' in. wc															
		PDI-835-2	≤2.0 & > 0' in. wc															
		PDI-835-3	≤2.0 & > 0' in. wc															
4.1.3.4	100 area glovebox exhaust filter plenum (FF-853) 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 (FF-853) AP	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 (FF-853) 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	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' in. wc	pm	8/22/16	Mon.	pm	8/23/16	Tue.	pm	8/24/16	Wed.	pm	8/25/16	Thu.	pm	8/26/16	Fri.	pm	8/27/16	Sat.	pm	8/28/16	Sun.	
		PDI-812-2	≤2.0 & > 0' in. wc					.15	STBY						STBY						STBY				STBY
		PDI-812-3	≤2.0 & > 0' in. wc					.35	STBY						STBY						STBY				STBY
		PDI-812-4	≤2.0 & > 0' in. wc					.28	STBY						STBY						STBY				STBY
		PDI-812-5	≤2.0 & > 0' in. wc					.39	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					STBY						.10						STBY				.10	
		PDI-813-2	≤2.0 & > 0' in. wc					STBY						.30						STBY				.30	
		PDI-813-3	≤2.0 & > 0' in. wc					STBY						.26						STBY				.26	
		PDI-813-4	≤2.0 & > 0' in. wc					STBY						.31						STBY				.31	
		PDI-813-5	≤2.0 & > 0' in. wc					STBY						.42						STBY				.42	
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc					.02					.02						STBY				.02		
		PDI-865-2	≤2.0 & > 0' in. wc					.29					.29						STBY				.30		
		PDI-865-3	≤2.0 & > 0' in. wc					.32					.32						STBY				.32		
4.1.3.4	IFTT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc					.10					.10						STBY				.10		
		PDI-863-2	≤2.0 & > 0' in. wc					.26					.27						STBY				.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 ¹ in. wc	Jm	8/23/16	Mon.	0.14	8/24/16	Wed.	0.14	8/25/16	Thu.	0.18	8/26/16	Fri.	0.13	8/27/16	Sat.	0.45	8/28/16	Sun.
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0 ¹ in. wc	Jm	8/23/16	Mon.	0.09	8/24/16	Wed.	0.09	8/25/16	Thu.	0.09	8/26/16	Fri.	0.09	8/27/16	Sat.	0.54	8/28/16	Sun.
INA	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C	PDI-856-2	≤ 2.0 & > 0 ¹ in. wc	Jm	8/23/16	Mon.	0.55	8/24/16	Wed.	0.55	8/25/16	Thu.	0.55	8/26/16	Fri.	0.54	8/27/16	Sat.	0.54	8/28/16	Sun.
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	Jm	8/23/16	Mon.	0.810	8/24/16	Wed.	0.835	8/25/16	Thu.	0.810	8/26/16	Fri.	0.810	8/27/16	Sat.	0.810	8/28/16	Sun.
			0 lb/ft ³ 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	Jm	8/23/16	Mon.	0.810	8/24/16	Wed.	0.835	8/25/16	Thu.	0.810	8/26/16	Fri.	0.810	8/27/16	Sat.	0.810	8/28/16	Sun.
OC Operator Review and Page Count Complete (initials)					PC	8/23/16	Mon.	ARJ	8/24/16	Wed.	ML	8/25/16	Thu.	APB	8/26/16	Fri.	8/27/16	Sat.	8/28/16	Sun.	

1 Non TSR requirement

Note: SRs 4 1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul Tejillo Date: 8/28/16 Time: 0730 Reviewed by: [Signature] Date: 8/30/16 Time: 0900
 On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]
(Page 1 of 3)

Note	Date:	8-29-16		8-30-16		8-31-16								
		Weekday:		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
		Shift:	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:	P		W	W	W	W	W	W	W	W	W	W	
		SURVEILLANCE RESULTS (in. wc)												
SRs	Description	Gauge Acceptance Criteria												
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-814-1 or PDI-814-2	-1.99	-2.00	-1.99	-2.03	-2.00	-1.99						
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-820-1 or PDI-820-2	-1.91	-1.91	-1.93	-1.92	-1.93	-1.91						
4.1.1.2 4.1.2.2 ²	300 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-870-1 or PDI-870-2	-1.98	-1.98	-1.98	-1.98	-1.98	-1.97						
	400 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-864-1 or PDI-864-2	-1.97	-1.98	-1.99	-1.98	-1.98	-1.98						
4.1.1.3 4.1.2.3 ²	200 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-803-1 or PDI-803-2	-1.17	-1.20	-1.19	-1.19	-1.19	-1.19						
	100 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-802-1 or PDI-802-2	-1.23	-1.24	-1.24	-1.24	-1.24	-1.24						
4.1.1.2 4.1.1.5 4.1.2.2 ²	300 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-853-1 or PDI-853-2	-1.18	-1.21	-1.20	-1.20	-1.20	-1.20						
	400 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-852-1 or PDI-852-2	-1.19	-1.20	-1.20	-1.20	-1.20	-1.20						
4.1.1.3 4.1.2.3 ²	IFTT Facility ΔP	≤-0.05 in. wc PDI-865-4 or PDI-865-5	-1.17	-1.20	-1.18	-1.21	-1.19	-1.20						
	North basement ΔP	<0.00 in. wc PDI-804-1 or PDI-804-2	-1.08	-1.09	-1.10	-1.10	-1.10	-1.10						
4.1.1.3 4.1.2.3 ²	South basement ΔP	<0.00 in. wc PDI-854-1 or PDI-854-2	-1.09	-1.10	-1.10	-1.10	-1.10	-1.10						
	IRT Tunnel ΔP	<0.00 in. wc PDI-901 or PDI-901	-1.094	-1.09	-1.08	-1.16	-1.15	-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	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 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: 8-29-16	Mon.	AM	PM	Wed. 8-31-16	Thu.	Fri.	Sat.	Sun.
				Weekday:	AM	PM	AM	PM	AM	PM	AM	PM
				Shift:	u	u	u	u	u	u	u	u
				Initials:	u	u	u	u	u	u	u	u
				Readings	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 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	8-29-16	8-30-16	8-31-16													
			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																			
400 Area	PDI-854-2																			
	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2																		
				Completion Time	0170	1930	1925	0130	0119	1931										

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: 8/31/2016 Time: 1931 Reviewed by: _____ Date: _____ Time: _____
 On-duty Supervisor

Comments: _____

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

(Page 1 of 5)

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:	8/29/16	8/30/16	8/31/16				
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	GM	AK				
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				
	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				
		≥ -0.1 ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	
	Completion Time:		0750	0820	0750				

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

(Page 2 of 5)

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	8/29/16	JH	9/30/16	JH	8/31/16				
		PDI-894-2	≤2.0 & > 0' in. wc		.05	.49	.05					
		PDI-895-1	≤2.0 & > 0' in. wc		.10	.10	.10					
		PDI-895-2	≤2.0 & > 0' in. wc		.65	.65	.65					
		PDI-817-1	≤2.0 & > 0' in. wc		STBY	STBY	STBY					
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-2	≤2.0 & > 0' in. wc		STBY	STBY	STBY					
		PDI-817-4	≤2.0 & > 0' in. wc		STBY	STBY	STBY					
		PDI-817-5	≤2.0 & > 0' in. wc		STBY	STBY	STBY					
		PDI-819-1	≤2.0 & > 0' in. wc		STBY	STBY	STBY					
		PDI-819-3	≤2.0 & > 0' in. wc		STBY	STBY	STBY					
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-4	≤2.0 & > 0' in. wc		STBY	STBY	STBY					
		PDI-818-1	≤2.0 & > 0' in. wc		.25	.25	.24					
		PDI-818-2	≤2.0 & > 0' in. wc		.30	.30	.30					
		PDI-818-4	≤2.0 & > 0' in. wc		.26	.26	.27					
		PDI-818-5	≤2.0 & > 0' in. wc		.30	.30	.30					
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc		.49	.49	.49					
		PDI-821-3	≤2.0 & > 0' in. wc		.51	.51	.51					
		PDI-821-4	≤2.0 & > 0' in. wc		.49	.48	.49					

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

(Page 3 of 5)

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	8/29/16	AM	8/30/16	QM	8/31/16				
		PDI-822-2	≤2.0 & > 0' in. wc			1.04		1.04				
		PDI-822-4	≤2.0 & > 0' in. wc			.54		.54				
		PDI-822-5	≤2.0 & > 0' in. wc			.48		.48				
		PDI-823-1	≤2.0 & > 0' in. wc			.50		.50				
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	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			.72		.72				
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc			.32		.31				
		PDI-830-3	≤2.0 & > 0' in. wc			.28		.28				
		PDI-836-1	≤2.0 & > 0' in. wc			.07		.07				
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0' in. wc			.69		.69				
		PDI-836-3	≤2.0 & > 0' in. wc			.58		.58				
		PDI-837-1	≤2.0 & > 0' in. wc			.57		.58				
		PDI-837-2	≤2.0 & > 0' in. wc			.45		.45				
		PDI-837-3	≤2.0 & > 0' in. wc			.41		.41				

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

(Page 4 of 5)

SRs	Description	Gauge	Acceptance Criterion	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	8/29/16	gm	8/30/16	gm	8/31/16					
		PDI-838-2	≤2.0 & > 0' in. wc			.52	.59	.53					
		PDI-838-3	≤2.0 & > 0' in. wc			.58	.58	.58					
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc			.39	.39	.39					
		PDI-839-2	≤2.0 & > 0' in. wc			.57	.57	.58					
		PDI-839-3	≤2.0 & > 0' in. wc			.55	.55	.54					
	4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc			.15	.15	.15				
			PDI-810-2	≤2.0 & > 0' in. wc			.49	.49	.49				
			PDI-810-3	≤2.0 & > 0' in. wc			.48	.48	.48				

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	Date:	8/29/16	8/30/16	8/31/16	Thu.	Fri.	Sat.	Sun.
				Weekday:	Mon.	Tue.	Wed.				
				Initials:	JL	JM	RL				
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1	≤2.0 & > 0' in. wc	off	off	off	off				
		PDI -811 -2	≤2.0 & > 0' in. wc	off	off	off					
		PDI -811 -3	≤2.0 & > 0' in. wc	off	off	off					
INA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT				
OC Operator Review and Page Count Complete (initials)				Completion Time	0835	0905	0838				

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: R. Adams Date: 8/31/16 Time: 0851 Reviewed by: _____ Date: _____ Time: _____

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:	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	8/29/16	0.17	0.17	0.17					
		PDI-840-2	≤2.0 & > 0 in'. wc		0.59	0.59	0.59					
		PDI-840-3	≤2.0 & > 0' in. wc		0.51	0.51	0.51					
	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		0.33	0.33	0.33					
		PDI-831-2	≤2.0 & > 0' in. wc		0.41	0.42	0.42					
		PDI-831-3	≤2.0 & > 0' in. wc		0.40	0.40	0.40					
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc		0.36	0.36	0.36						
	PDI-832-2	≤2.0 & > 0' in. wc		0.68	0.68	0.68						
	PDI-832-3	≤2.0 & > 0' in. wc		0.61	0.61	0.61						
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc		0.11	0.11	0.11					
		PDI-807-2	≤2.0 & > 0' in. wc		0.48	0.48	0.48					
		PDI-807-3	≤2.0 & > 0' in. wc		0.48	0.48	0.49					
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)

SIRs	Description	Gauge	Acceptance Criterion	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	8/29/16	AP	8/30/16	AP	8/31/16					
		PDI-829-2	≤2.0 & > 0' in. wc			.17	.36	.15					
		PDI-829-3	≤2.0 & > 0' in. wc			.29	.30	.28					
		PDI-833-1	≤2.0 & > 0' in. wc			.07	.07	.07					
		PDI-833-2	≤2.0 & > 0' in. wc			.49	.49	.49					
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc			.46	.46	.46					
		PDI-835-1	≤2.0 & > 0' in. wc			.17	.17	.17					
		PDI-835-2	≤2.0 & > 0' in. wc			.45	.45	.45					
		PDI-835-3	≤2.0 & > 0' in. wc			.41	.41	.41					
		PDI-815-1	≤2.0 & > 0' in. wc			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					
		PDI-815-4	≤2.0 & > 0' in. wc			STBY	STBY	STBY					
		PDI-815-5	≤2.0 & > 0' in. wc			STBY	STBY	STBY					
		PDI-816-1	≤2.0 & > 0' in. wc			.40	.40	.40					
		PDI-816-2	≤2.0 & > 0' in. wc			.49	.49	.49					
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc			.48	.47	.47					
		PDI-816-5	≤2.0 & > 0' in. wc			.48	.48	.48					

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

(Page 3 of 4)

SRS	Description	Gauge	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 (FF-850) ΔP	'PDI-812-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY				
		PDI-812-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY				
		PDI-812-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY				
		PDI-812-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY				
		PDI-812-5	≤2.0 & > 0' in. wc	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	.10	.10	.10	.10				
		PDI-813-2	≤2.0 & > 0' in. wc	.30	.30	.30	.30				
		PDI-813-3	≤2.0 & > 0' in. wc	.26	.26	.26	.26				
		PDI-813-4	≤2.0 & > 0' in. wc	.31	.31	.31	.31				
		PDI-813-5	≤2.0 & > 0' in. wc	.40	.41	.41	.41				
4.1.3.4	HIT exhaust filter plenum (FF-865) ΔP	'PDI-865-1	≤2.0 & > 0' in. wc	.02	.02	.02	.02				
		PDI-865-2	≤2.0 & > 0' in. wc	.29	.29	.29	.29				
		PDI-865-3	≤2.0 & > 0' in. wc	.32	.32	.32	.32				
4.1.3.4	HIT supply filter plenum (IIVP-863) ΔP	'PDI-863-1	≤2.0 & > 0' in. wc	.10	.10	.10	.10				
		PDI-863-2	≤2.0 & > 0' in. wc	.78	.78	.78	.78				

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	<i>jm</i>	8/29/16	Mon.	8/30/16	Tue.	8/31/16	Wed.					
		PDI-857-2	≤ 2.0 & > 0' in. wc					<i>jm</i>							
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 fan FER28 and bleed-off fans FER20A, FER20B, FER20C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)												
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² 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: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: *Serena M* Date: *8/24/16* Time: *6:20* Reviewed by: *[Signature]* Date: *9/6/16* Time: *16:00*
 On-duty Supervisor

Comments:

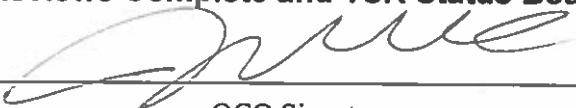
September

Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	Surveillance Rounds
Procedure no.:	TASS-STP-004, R17.1
Date of issue:	9/1/2016
Working copy issued to:	B. Chance
Working copy issued by:	J. Smeltz
	Certified Operations Center Operator (OCO)

OC Reviews Complete and TSR Status Board Updated


10/1/16

 OCO Signature Date

Training Checklist:

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
B. Chance	JS	9/1/16
A. Jaurigue	JJ	9-1-16
J Lovato	JS	9/1/16
A. Ortiz	JS	9-1-16
R. Price	JS	9-1-16
F. Seybert	JS	9/1/16
J. Smeltz	JS	9/1/16
K. Bailey	JS	9/1/16
B. Forbitan	JS	9/1/16
J. Frank	JS	9-1-16

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
D. Heintschel	JS	9-1-16
R. Hühner	JS	9-1-16
A. Herrera	JS	9-1-16
M. Irish	JS	9-1-16
T. LANGWORTH	JS	9-1-16
J. MARTINEZ	JS	9-1-16
A. Sanchez	JS	9-1-16
Anthony Sanchez	JS	9-1-16
P. Trujillo	JS	9-1-16
R. Briscoe	JS	9-1-16
A. Dunseith	JS	9-1-16
R. Lum	JS	9-1-16
S. McKernan	JS	9-1-16
R. Müller	JS	9/1/16

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

Note	Date:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Weekday:		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.	Date:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
SRs	Description	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
200 area re-circulation fan/plenum	Readings	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
100 area re-circulation fan/plenum	Readings	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
300 area re-circulation fan/plenum	Readings	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
400 area re-circulation fan/plenum	Readings	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Vault re-circulation fan/plenum	Readings	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.6	Acceptance Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
200 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
100 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
300 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
400 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Vault re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.6	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
200 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
100 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
300 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
400 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Vault re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.6	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
200 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
100 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
300 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
400 area re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Vault re-circulation fan/plenum	Criteria	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM

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

(Page 1 of 5)

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:				UJH				
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)								
4.4.1.1	Flammable Gas Channel Check	NA				0.0	0.0	0.0	0.0	
	DET-305-3 (LCD Reading)					0.0	0.0	0.0	0.0	
	CP-305-H (LED Reading)					0.0	0.0	0.0	0.0	
	(DET-305-3) - (CP-305H)	Record Calculated Value				0.0	0.0	0.0	0.0	
	(LCD Reading) (LED Reading)	≥ -0.1 ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	
	Completion Time:					0825	0750	0701	0810	

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

(Page 2 of 5)

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) ΔP	'PDI-894-1	≤ 2.0 & > 0' in. wc					7/1/16	7/2/16	7/3/16	7/4/16	7/5/16	7/6/16	7/7/16
		PDI-894-2	≤ 2.0 & > 0' in. wc											
4.1.3.4	South Corridor supply (IIVP-810) ΔP	'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) 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 special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-3	≤ 2.0 & > 0' in. wc											
		PDI-819-4	≤ 2.0 & > 0' in. wc											
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	'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											
		PDI-821-1	≤ 2.0 & > 0' in. wc											
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	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 5)

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					9/11/16 AP	9/12/16 AP	9/13/16 AP		
		PDI-822-2	≤2.0 & > 0' in. wc				.64	.54	.53			
		PDI-822-4	≤2.0 & > 0' in. wc				.48	.48	.46			
		PDI-822-5	≤2.0 & > 0' in. wc				.50	.52	.50			
		PDI-823-1	≤2.0 & > 0' in. wc				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		
		PDI-823-4	≤2.0 & > 0' in. wc					STBY	STBY	STBY		
		PDI-823-5	≤2.0 & > 0' in. wc					STBY	STBY	STBY		
		PDI-830-1	≤2.0 & > 0' in. wc					.72	.72	.72		
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc					.31	.31	.31		
		PDI-830-3	≤2.0 & > 0' in. wc					.28	.28	.28		
		PDI-836-1	≤2.0 & > 0' in. wc					.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	.69	.69		
		PDI-836-3	≤2.0 & > 0' in. wc					.58	.58	.58		
		PDI-837-1	≤2.0 & > 0' in. wc					.57	.57	.57		
		PDI-837-2	≤2.0 & > 0' in. wc					.45	.45	.44		
		PDI-837-3	≤2.0 & > 0' in. wc					.41	.41	.42		

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]
(Page 4 of 5)

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					9/1/16	9/2/16	9/3/16		
		PDI-838-2	≤2.0 & > 0' in. wc									
		PDI-838-3	≤2.0 & > 0' in. wc									
	400 area re-circulation filter plenum (IIVP-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									

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1	≤2.0 & > 0' in. wc					9/1/16	9/2/16	9/3/16		
		PDI -811 -2	≤2.0 & > 0' in. wc									
		PDI -811 -3	≤2.0 & > 0' in. wc									
'NA	Combustible exclusion area around basement exhaust fan FF829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)									
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 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Michael M. Fisher Date: 9/1/16 Time: 0840 Reviewed by: [Signature] Date: 9/1/16 Time: 1500
 On-duty Supervisor

Comments

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

9/14/16
9/12/16
9/14/16
Sun. 9-14-16

SRs	Description	Gauge	Acceptance Criterion	Date:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc				9/11/16	9/12/16	9/13/16	9/14/16
		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							

SURVEILLANCE RESULTS (in. wc)

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:	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					9/1/16	9/2/16	9/3/16	9/4/16
		PDI-829-2	≤2.0 & > 0' in. wc						.16	.15	.15
		PDI-829-3	≤2.0 & > 0' in. wc						.36	.35	.38
		'PDI-833-1	≤2.0 & > 0' in. wc						.30	.30	.30
		PDI-833-2	≤2.0 & > 0' in. wc						.07	.07	.07
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc						.50	.49	.49
		'PDI-835-1	≤2.0 & > 0' in. wc						.46	.46	.46
		PDI-835-2	≤2.0 & > 0' in. wc						.17	.17	.17
		PDI-835-3	≤2.0 & > 0' in. wc						.45	.45	.45
		'PDI-815-1	≤2.0 & > 0' in. wc						.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	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
		'PDI-816-1	≤2.0 & > 0' in. wc						.40	.40	.40
		PDI-816-2	≤2.0 & > 0' in. wc						.49	.50	.50
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc						.47	.47	.47
		PDI-816-5	≤2.0 & > 0' in. wc						.48	.48	.48

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:	Initials:						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc					9/1/16	9/2/16	9/3/16	9/4/16
		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	JFIT 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	JFIT 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	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				9/1/16	9/2/16	9/3/16	9/4/16
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc				Am	Am	Am	AD
NA	Combustible exclusion area around basement exhaust fan FER28 and bleed-off fans FER20A, FER20B, FER20C	PDI-856-2	≤ 2.0 & > 0' in. wc				.15	.45	.15	.17
			0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)				.45	.45	.45	.45
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less				SAT	SAT	SAT	SAT
			Completion time				SAT	SAT	SAT	SAT
			OC Operator Review and Page Count Complete (initials)				0840	0810	0726	0831

¹ Non TSR requirement

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: M. J. [Signature] Date: 9/4/16 Time: 9:46 Reviewed by: [Signature] Date: 9/10/16 Time: 1500
 Comments: 9/2/16 Vault plenum lights are not working. Possible internal hub.

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

Note	Date:	9/5/16		9/6/16		9/7/16		9/8/16		9/9/16		9/10/16		9/11/16						
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
Weekday:	Shift:	Initials:																		
SRs	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																	
			4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP 100 area glovebox exhaust header ΔP	≤-1.0 in. wc' ≤-1.0 in. wc'	-1.97	-1.98	-1.99	-1.99	-2.01	-1.99	-2.04	-1.99	-1.99	-1.99	-1.99	-2.01	-1.99	-2.01	-1.99
	300 area glovebox exhaust header ΔP 400 area glovebox exhaust header ΔP	≤-1.0 in. wc' ≤-1.0 in. wc'	-1.96	-1.98	-1.97	-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
	200 area laboratory header ΔP 100 area laboratory header ΔP	≤-0.05 in. wc' ≤-0.05 in. wc'	-0.18	-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
4.1.1.2 4.1.1.5 4.1.2.2 ²	300 area laboratory header ΔP 400 area laboratory header ΔP	≤-0.05 in. wc' ≤-0.05 in. wc'	-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	-0.24	-0.24	-0.24	-0.24	-0.24
	IFT Facility ΔP	≤-0.05 in. wc	-0.19	-0.22	-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
4.1.1.3 4.1.2.3 ²	North basement ΔP South basement ΔP	< 0.00 in. wc < 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	-0.10	-0.10	-0.10	-0.10
	IRT Tunnel ΔP	< 0.00 in. wc	-0.10	-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	-0.11	-0.11	-0.11	-0.11

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 PDTs may be used if FCS is unavailable.				Date:	9/5/14	9/6/14	9/7/14	9/8-16	9/9/14	9/10/14	9/11/14	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:								
4.1.1.6	200 area re-circulation fan/plenum	PIR-801 Icon red and PDT-831 AP > .050 or PIR-802 Icon red and PDT-832 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
	100 area re-circulation fan/plenum	PIR-803 Icon red and PDT-833 AP > .050 or PIR-804 Icon red and PDT-835 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
	300 area re-circulation fan/plenum	PIR-805 Icon red and PDT-836 AP > .050 or PIR-806 Icon red and PDT-837 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
	400 area re-circulation fan/plenum	PIR-807 Icon red and PDT-838 AP > .050 or PIR-808 Icon red and PDT-839 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
	Vault re-circulation fan/plenum	PIR-811 Icon red and PDT-840 AP > .050 or PIR-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]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS															
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	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-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		Sat	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
PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
PDI-870-2	Sat	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			
PDI-864-2	Sat	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			
PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
Completion Time					0721	1930	0717	1921	0740	1925	0747	1920	0722	1918	0720	1916	0715	1920		

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 I.CO 3.1.2.

Completed by: *[Signature]* Date: 9/13/16 Time: 1920
 Reviewed by: *[Signature]* Date: 9/13/16 Time: 0700
 On-duty Supervisor

Comments:

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

(Page 1 of 5)

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:	4/5/16	9/6/16	9/7/16	9/8/16	9-9-16	9/10/16	9/11/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
SURVEILLANCE RESULTS (percentage)									
4.4.1.1	Flammable Gas Channel Check	Acceptance Criteria							
	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)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(LCD Reading) (LED Reading)	≥ -0.1 $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:		0805	0959	0809	0805	0736	0806	0737

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

(Page 2 of 5)

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.
				9/5/16	9/6/16	9/7/16	9/8/16	9/9/16	9/10/16	9/11/16	
				Initials:	gm	gm	gm	gm	ak	ak	
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	.25	.06	.06	.06	.06	.06	.06	.06
		PDI-894-2	≤2.0 & > 0' in. wc	.49	.49	.48	.49	.49	.49	.49	.49
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc	.11	.10	.10	.10	.10	.11	.11	.11
		PDI-895-2	≤2.0 & > 0' in. wc	.65	.65	.65	.65	.65	.65	.65	.65
		PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	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) ΔP	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
		PDI-818-1	≤2.0 & > 0' in. wc	.75	.25	.25	.25	.25	.25	.25	.25
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-818-4	≤2.0 & > 0' in. wc	.26	.26	.26	.26	.26	.26	.26	.26
		PDI-818-5	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.48	.48	.48	.48
		PDI-821-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.52	.52	.52	.52
		PDI-821-4	≤2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.48	.48	.48

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UJET]
(Page 3 of 5)

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	9/5/16	9/6/16	9/7/16	9/8/16	9/9/16	9/10/16	9/11/16		
		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 5)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				9/5/16 Mon.	9/6/16 Tue.	9/7/16 Wed.	9/8/16 Thu.	9/9/16 Fri.	9/10/16 Sat.	9/11/16 Sun.	
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0' in. wc	.51	.52	.52	.52	.52	.52	.53	.53
		PDI-838-2	≤2.0 & > 0' in. wc	.59	.59	.59	.59	.59	.59	.59	.59
		PDI-838-3	≤2.0 & > 0' in. wc	.56	.56	.56	.56	.56	.56	.56	.56
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-839-1	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.38	.38	.39	.39
		PDI-839-2	≤2.0 & > 0' in. wc	.57	.57	.57	.57	.57	.57	.57	.57
		PDI-839-3	≤2.0 & > 0' in. wc	.55	.55	.55	.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	.15	.15	.15	.15	.15	.15	.16	.16
		PDI-810-2	≤2.0 & > 0' in. wc	.47	.47	.47	.49	.49	.49	.49	.49
		PDI-810-3	≤2.0 & > 0' in. wc	.45	.45	.45	.49	.46	.48	.48	

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	9/5/16	9/6/16	9/7/16	9/8/16	9/9/16	9/10/16	9/11/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	Am	Am	Am	Am	BF			
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	off off off	off off off	off off off	off off off	off off off	off off off	off off off		
'NA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	off	off	off	off	off	off	off		
OC Operator Review and Page Count Complete (initials)				Completion Time	0835	1000	0845	0832	0759	0812	0752	
					AP		AM	KAM				

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in I.CO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in I.CO 3.1.3.

Completed by:  Date: 9/11/16 Time: 0752 Reviewed by:  Date: 9/13/16 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:	9/5/16	9/6/16	9/7/16	9/8/16	9/9/16	9/10/16	9/11/16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:										
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	.17	.17	.17
		PDI-840-2	≤2.0 & > 0 in. wc	.59	.58	.58	.58	.58	.58	.58	.58	.58	.58
		PDI-840-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
	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	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42
		PDI-831-3	≤2.0 & > 0' in. wc	.39	.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	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	
	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	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	.11	.12	.11	.11	.11	.12	.12	.12	.11	
		PDI-807-2	≤2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.48	.48	.48	.48	
		PDI-807-3	≤2.0 & > 0' in. wc	.48	.48	.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	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:	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	E	9/5/16		9/6/16	9/7/16	9/8/16	9/9/16	9/10/16	9/11/16
		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	E	9/5/16		9/6/16	9/7/16	9/8/16	9/9/16	9/10/16	9/11/16
		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 (PF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	E	9/5/16		9/6/16	9/7/16	9/8/16	9/9/16	9/10/16	9/11/16
		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 (PF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	E	9/5/16		9/6/16	9/7/16	9/8/16	9/9/16	9/10/16	9/11/16
		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:	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' in. wc	[Signature]	9/5/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	9/12/16	STBY	9/12/16	STBY	
		PDI-812-2	≤2.0 & >0' in. wc	[Signature]	9/5/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	9/12/16	STBY	9/12/16	STBY
		PDI-812-3	≤2.0 & >0' in. wc	[Signature]	9/5/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	9/12/16	STBY	9/12/16	STBY
		PDI-812-4	≤2.0 & >0' in. wc	[Signature]	9/5/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	9/12/16	STBY	9/12/16	STBY
		PDI-812-5	≤2.0 & >0' in. wc	[Signature]	9/5/16	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	9/12/16	STBY	9/12/16	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF-851) ΔP	PDI-813-1	≤2.0 & >0' in. wc	[Signature]	9/5/16	.10	.10	.10	.10	.10	.11	.10	.11	.11	.11	.10	
		PDI-813-2	≤2.0 & >0' in. wc	[Signature]	9/5/16	.30	.30	.30	.30	.29	.30	.29	.30	.29	.29	.29	.29
		PDI-813-3	≤2.0 & >0' in. wc	[Signature]	9/5/16	.22	.22	.22	.22	.22	.21	.22	.22	.22	.22	.22	.22
		PDI-813-4	≤2.0 & >0' in. wc	[Signature]	9/5/16	.31	.31	.31	.31	.31	.32	.31	.31	.31	.31	.31	.31
		PDI-813-5	≤2.0 & >0' in. wc	[Signature]	9/5/16	.40	.40	.40	.40	.40	.41	.40	.40	.40	.40	.40	.40
4.1.3.4	JFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & >0' in. wc	[Signature]	9/5/16	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	
		PDI-865-2	≤2.0 & >0' in. wc	[Signature]	9/5/16	.29	.29	.29	.29	.29	.30	.29	.29	.29	.29	.29	
		PDI-865-3	≤2.0 & >0' in. wc	[Signature]	9/5/16	.31	.31	.31	.31	.32	.32	.32	.32	.32	.32	.32	
4.1.3.4	JFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & >0' in. wc	[Signature]	9/5/16	.10	.10	.10	.10	.11	.11	.11	.11	.11	.11	.11	
		PDI-863-2	≤2.0 & >0' in. wc	[Signature]	9/5/16	.29	.29	.29	.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	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	9/5/16	Mon.	[Signature]	.17	.16	.16	.16	.17	.16	.16	9/10/16	Sat.	[Signature]	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc	9/6/16	Tue.	[Signature]	.46	.46	.46	.46	.47	.46	.46	9/11/16	Sun.	[Signature]	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	9/7/16	Wed.	[Signature]	.08	.09	.09	.09	.10	.09	.09	9/12/16	Mon.	[Signature]	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-2	≤ 2.0 & > 0' in. wc	9/8/16	Thu.	[Signature]	.55	.55	.55	.55	.54	.55	.55	9/13/16	Tue.	[Signature]	
4.3.2.2	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)	9/14/16	Fri.	[Signature]	SAT	SAT	SAT	SAT	SAT	SAT	SAT	9/15/16	Wed.	[Signature]	
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² 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	9/15/16	Thu.	[Signature]	SAT	SAT	SAT	SAT	SAT	SAT	SAT	9/16/16	Thu.	[Signature]	
				9/16/16	Fri.	[Signature]	0829	0945	0840	0835	0835	0835	0835	9/17/16	Fri.	[Signature]	
OC Operator Review and Page Count Complete (initials)				9/18/16	Sat.	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	9/19/16	Sat.	[Signature]
Non TSR requirement				9/20/16	Sun.	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	9/21/16	Sun.	[Signature]

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date 9/16/16 Time 0759 Reviewed by: [Signature] Date: 9/15/16 Time: 0700
 On-duty Supervisor

Comments:

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

TA55-STP-004_R17.1

M&TE Calibrated Data			
Record September through April only	PF-10 Thermistor File No.: 039746	PF-10 Thermistor File No.: 040373	V-701 Thermistor File No.: 103762
	Calibration Expiration Date: 05/18/17	Calibration Expiration Date: 07/07/17	Calibration Expiration Date: 07/06/17
	PF-11 Thermistor File No.: 042252	PF-11 Thermistor File No.: 105353	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 05/18/2017	Calibration Expiration Date: 07/07/17	Calibration Expiration Date: 07/06/17

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criteria	Date: 9/5/16							Completion Time: 0925	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.	65.9	66.1	65.7	66.1	66.4	66.5	66.2	0927	[Signature]
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	67.8	68.0	65.7-1-16 65.7-1-16	67.1	67.7	67.9	67.54	0927	[Signature]
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	70.7	70.1	68.1	68.5	70.5	68.8	69.4	0927	[Signature]
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	70.8	70.5	68.1	67.5	70.1	69.6	67.79	0927	[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: A Jambore Date: 9/11/16 Time: 0930
 Reviewed by: [Signature] Date: 9/13/16 Time: 0700
 On-duty Supervisor
 Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRS	Description	Gauge Acceptance Criteria	Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹	-1.99	-1.99	2.00	2.00	1.99	1.99	2.00	2.00	1.99	2.00	1.99	2.00	1.99	2.00	1.99	2.00	
			-1.92	-1.92	1.93	1.93	1.92	1.92	1.93	1.93	1.92	1.92	1.93	1.92	1.93	1.92	1.93	1.92	1.93
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹	-1.96	-1.97	1.96	1.96	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96
			-1.78	-1.97	1.97	1.97	1.96	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤-0.05 in. wc ¹	-1.18	-1.20	1.19	1.18	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	
			-1.23	-1.25	1.23	1.23	1.24	1.23	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 ΔP	≤-0.05 in. wc ¹	-1.20	-1.21	1.19	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
			-1.20	-1.21	1.19	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
4.1.1.3 4.1.2.3 ²	400 area laboratory header ΔP	≤-0.05 in. wc ¹	-1.17	-1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	
			-1.10	-1.10	1.09	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
	North basement ΔP	< 0.00 in. wc	-1.10	-1.10	1.09	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
			-1.10	-1.10	1.09	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
IRT Tunnel ΔP	< 0.00 in. wc	-1.06	-1.08	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09		
		-1.06	-1.08	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09		

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS													
				Sat. / Unsat. (circle one)													
				Mon. 9/12/16		Tue. 9/13/16		Wed. 9/14/16		Thu. 9/15/16		Fri. 9/16/16		Sat. 9/17/16		Sun. 9/18/16	
Date:	Weekday:	Shift:	Initials:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
4.1.1.6	200 area re-circulation fan/plenum	FIR-801 Icon red and PDT-831 AP >.050 or	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		FIR-802 Icon red and PDT-832 AP >.050	Unsat	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 PDT-833 AP >.050 or	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FIR-804 Icon red and PDT-835 AP >.050	Unsat	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 PDT-836 AP >.050 or	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FIR-806 Icon red and PDT-837 AP >.050	Unsat	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 PDT-838 AP >.050 or	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FIR-808 Icon red and PDT-839 AP >.050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	Vault re-circulation fan/plenum	FIR-811 Icon red and PDT-840 AP >.050 or	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FIR-812 Icon red and PDT-841 AP >.050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	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													
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	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-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	Unsat	
			PDI-804-2	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
		PDI-802-2	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	
		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	Unsat
			PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
			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	Unsat	
		PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		Completion Time					079	1930	079	1930	079	1930	079	1930	079	1930	079	1935

Note: Mode 2 acceptance criteria is < 0.00 in. wc
Note: SRS 4.1.2.x only apply during mode 2 in accordance with I.CO 3.1.2.

Completed by: [Signature] Date 9/18/16 Time 1935 Reviewed by: [Signature] Date: 9/22/16 Time: 1000
On-duty Supervisor

Comments:

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

(Page 1 of 5)

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:	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9-17-16	9-18-16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	AM	AM	AM	AM	PT	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	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
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:	0800	0840	0845	0810	0650	0751	0736	

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

(Page 2 of 5)

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) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9-17-16	9-18-16	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9-17-16	9-18-16	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9-17-16	9-18-16	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-1	≤2.0 & > 0' in. wc	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9-17-16	9-18-16	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤2.0 & > 0' in. wc	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9-17-16	9-18-16	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9-17-16	9-18-16	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	

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

(Page 3 of 5)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday: Initials:	9/12/16 Mon. AP	9/13/16 Tue. AP	9/14/16 Wed. AP	9/15/16 Thu. AP	9/16/16 Fri. AP	9/17/16 Sat. PT	9/18/16 Sun. PT	
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc		1.04	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0' in. wc	.54	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0' in. wc	.48	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0' in. wc	.50	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-1	≤2.0 & > 0' in. wc	STBY	.14	.13	.14	.14	.14	.14	.13	.13
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	STBY	.49	.49	.49	.49	.49	.49	.49	.50
		PDI-823-4	≤2.0 & > 0' in. wc	STBY	.50	.50	.50	.51	.51	.51	.51	.50
		PDI-823-5	≤2.0 & > 0' in. wc	STBY	.51	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤2.0 & > 0' in. wc	.72	.72	.72	.72	.72	.72	.73	.73	.70
		PDI-830-2	≤2.0 & > 0' in. wc	.31	.33	.32	.32	.32	.32	.32	.32	.31
		PDI-830-3	≤2.0 & > 0' in. wc	.28	.28	.28	.28	.28	.28	.28	.29	.28
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	.07	.07	.07	.07
		PDI-836-2	≤2.0 & > 0' in. wc	.70	.70	.70	.70	.70	.70	.70	.70	.70
		PDI-836-3	≤2.0 & > 0' in. wc	.58	.57	.57	.57	.57	.57	.57	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc	.57	.58	.58	.58	.58	.58	.57	.58	.58
		PDI-837-2	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45	.45	.45
PDI-837-3	≤2.0 & > 0' in. wc	.41	.42	.42	.42	.42	.42	.42	.42	.42		

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

(Page 4 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9/17/16	9/18/16	
				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	AP	.52	.53	.53	.52	.52	.53	.52	
		PDI-838-2	≤2.0 & > 0' in. wc	AP	.58	.60	.59	.59	.59	.59	.60	
		PDI-838-3	≤2.0 & > 0' in. wc	AP	.57	.57	.56	.57	.57	.58	.58	
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc	AP	.39	.39	.39	.39	.39	.39	.39	
		PDI-839-2	≤2.0 & > 0' in. wc	AP	.57	.56	.56	.56	.56	.59	.59	
		PDI-839-3	≤2.0 & > 0' in. wc	AP	.55	.55	.54	.54	.54	.54	.54	
	4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc	AP	.16	.16	.15	.15	.15	.16	.18
			PDI-810-2	≤2.0 & > 0' in. wc	AP	.50	.49	.49	.49	.49	.49	.51
			PDI-810-3	≤2.0 & > 0' in. wc	AP	.49	.49	.49	.49	.49	.51	.58

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1	≤2.0 & > 0' in. wc	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9/17/16	9/18/16
		PDI -811 -2	≤2.0 & > 0' in. wc							
		PDI -811 -3	≤2.0 & > 0' in. wc							
'NA	Combustible exclusion area around basement exhaust fan FER29 and bleed-off fans FER22A, FER22B, FER22C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)							
OC Operator Review and Page Count Complete (initials)				Completion Time						
				0835	0915	0920	0829	0715	0735	0723
				PT	PT	PT	PT	PT	PT	PT

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul Terjillo Date 9-18-16 Time 0723 Reviewed by: _____ Date: 9/21/16 Time: 1600

Out-of-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:	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9-17-16	9-18-16	
					Weekdays:	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	JR	.17	.17	.17	.17	.17	.17	.17	.17	
		PDI-840-2	≤2.0 & > 0 in. wc	JR	.58	.58	.58	.58	.58	.58	.58	.59	
		PDI-840-3	≤2.0 & > 0' in. wc	JR	.51	.51	.51	.51	.51	.51	.51	.51	
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	JR	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	JR	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	JR	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	JR	.33	.33	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc	JR	.42	.43	.43	.43	.43	.43	.43	.43	.42
		PDI-831-3	≤2.0 & > 0' in. wc	JR	.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	JR	.36	.36	.36	.36	.36	.36	.36	.37	.37	
	PDI-832-2	≤2.0 & > 0' in. wc	JR	.68	.58	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	JR	.62	.62	.62	.62	.62	.62	.62	.62	.62	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	JR	.11	.11	.11	.11	.11	.11	.11	.11	
		PDI-807-2	≤2.0 & > 0' in. wc	JR	.47	.47	.47	.47	.47	.47	.49	.48	
		PDI-807-3	≤2.0 & > 0' in. wc	JR	.48	.48	.48	.48	.48	.48	.49	.49	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	JR	off	off	off	off	off	off	off	off	
		PDI-809-2	≤2.0 & > 0' in. wc	JR	off	off	off	off	off	off	off	off	
		PDI-809-3	≤2.0 & > 0' in. wc	JR	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:	9/12/16 Mon.	9/13/16 Tue.	9/14/16 Wed.	9/15/16 Thu.	9/16/16 Fri.	9-17-16 Sat.	9-18-16 Sun.		
4.1.3.4	North Basement exhaust filter plenum (PF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	Jan	.16	.16	.16	.16	.16	.16	.16	.14	
		PDI-829-2	≤2.0 & > 0' in. wc	Jan	.39	.36	.32	.35	.35	.35	.35	.30	
		PDI-829-3	≤2.0 & > 0' in. wc	Jan	.30	.30	.28	.29	.29	.29	.30	.26	
		PDI-833-1	≤2.0 & > 0' in. wc	Jan	.07	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤2.0 & > 0' in. wc	Jan	.50	.50	.50	.50	.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	Jan	.48	.48	.47	.47	.47	.47	.48	.47	
		PDI-835-1	≤2.0 & > 0' in. wc	Jan	.17	.17	.17	.17	.17	.17	.17	.17	
		PDI-835-2	≤2.0 & > 0' in. wc	Jan	.45	.45	.45	.45	.45	.44	.42	.42	
		PDI-835-3	≤2.0 & > 0' in. wc	Jan	.41	.41	.41	.41	.41	.41	.41	.41	
		PDI-815-1	≤2.0 & > 0' in. wc	Jan	STBY	.20	.20	.20	.20	.20	.20	.21	
4.1.3.4	100 area glovebox exhaust filter plenum (PF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	Jan	STBY	.50	.50	.50	.50	.50	.50	.50	
		PDI-815-4	≤2.0 & > 0' in. wc	Jan	STBY	.43	.42	.42	.42	.42	.42	.42	
		PDI-815-5	≤2.0 & > 0' in. wc	Jan	STBY	.43	.43	.43	.43	.43	.42	.42	
		PDI-816-1	≤2.0 & > 0' in. wc	Jan	.40	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-816-2	≤2.0 & > 0' in. wc	Jan	.50	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	100 area glovebox exhaust filter plenum (PF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	Jan	.48	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-816-5	≤2.0 & > 0' in. wc	Jan	.48	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:	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	9-17-16	9-18-16
					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' in. wc	JK	.15	.15	.15	.15	.15	.15	.15	.15
		PDI-812-2	≤2.0 & >0' in. wc	JK	.35	.35	.35	.35	.35	.35	.35	.35
		PDI-812-3	≤2.0 & >0' in. wc	JK	.34	.34	.34	.34	.34	.34	.34	.34
		PDI-812-4	≤2.0 & >0' in. wc	JK	.29	.29	.29	.29	.29	.29	.29	.29
		PDI-812-5	≤2.0 & >0' in. wc	JK	.38	.38	.38	.38	.38	.38	.38	.38
4.1.3.4	200 area glovebox exhaust filter plenum (FF-851) ΔP	PDI-813-1	≤2.0 & >0' in. wc	JK	.10	.10	.10	.10	.10	.10	.10	.10
		PDI-813-2	≤2.0 & >0' in. wc	JK	.29	.29	.29	.29	.29	.29	.29	.29
		PDI-813-3	≤2.0 & >0' in. wc	JK	.22	.22	.22	.22	.22	.22	.22	.22
		PDI-813-4	≤2.0 & >0' in. wc	JK	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-813-5	≤2.0 & >0' in. wc	JK	.40	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	HFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & >0' in. wc	JK	.02	.02	.02	.02	.02	.02	.02	.02
		PDI-865-2	≤2.0 & >0' in. wc	JK	.28	.28	.28	.28	.28	.28	.28	.28
		PDI-865-3	≤2.0 & >0' in. wc	JK	.32	.32	.32	.32	.32	.32	.32	.32
4.1.3.4	HFT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & >0' in. wc	JK	.11	.11	.11	.11	.11	.11	.11	.11
		PDI-863-2	≤2.0 & >0' in. wc	JK	.28	.28	.28	.28	.28	.28	.28	.28

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

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 059746	PF-10 Thermistor File No.: 040313	V-701 Thermistor File No.: 103703
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/6/17	Calibration Expiration Date: 7/6/17
	PF-11 Thermometer File No.: 042252	PF-11 Thermistor File No.: 105353	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 5-18-17	Calibration Expiration Date: 7-7-17	Calibration Expiration Date: 7-6-17

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criteria	Date:							Sat.	Sun.
			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.	9-12-16	9-13-16	9-14-16	9-15-16	9-16-16	9-17-16	9-18-16		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	65.7	65.6	65.4	65.3	65.1	64.7	64.6		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	67.3	66.7	66.5	66.7	66.7	66.2	66.1		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	70.3	67.2	67.2	67.2	66.5	65.7	67.4		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	69.2	66.7	67.6	68.5	66.7	66.4	66.8		
	Completion Time:		0835	0855	0926	0834	0848	0805	0916		
	OC Operator Review and Page Count Complete (initials)		CH	CH	APD	APD	APD	CH	CH		

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

Completed by: AKM Date: 9/18/16 Time: 0916
 Reviewed by: [Signature] Date: 9/27/16 Time: 1600
 On-duty Supervisor
 Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRs	Note Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	Date:		09/19/16		09/20/16		09/21/16		09/22/16		09/23/16		09/24/16		09/25/16			
		Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
		Shift:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:		EC		EC		Y		KH		EC		EC		EC			
		SURVEILLANCE RESULTS (in. wc)																	
		Gauge Acceptance Criteria																	
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP 100 area glovebox exhaust header ΔP	≤-1.0 in. wc' ≤-1.0 in. wc'	PDI-814-1 or PDI-814-2	-2.01	-1.99	-1.99	-1.99	-2.00	-1.98	-1.98	-2.00	-1.98	-2.00	-1.99	-1.99	-2.00	-1.99	-2.00	
			PDI-820-1 or PDI-820-2	-1.92	-1.91	-1.93	-1.93	-1.93	-1.92	-1.92	-1.92	-1.94	-1.94	-1.92	-1.94	-1.94	-1.92	-1.94	-1.93
4.1.1.2 4.1.2.2 ²	300 area glovebox exhaust header ΔP 400 area glovebox exhaust header ΔP	≤-1.0 in. wc' ≤-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	-1.98	-1.98	
			PDI-864-1 or PDI-864-2	-1.97	-1.99	-1.99	-1.97	-1.98	-1.98	-1.98	-1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.98	-1.97	-1.97
4.1.1.3 4.1.2.3 ²	200 area laboratory header ΔP 100 area laboratory header ΔP	≤-0.05 in. wc' ≤-0.05 in. wc'	PDI-803-1 or PDI-803-2	-1.17	-1.19	-1.19	-1.19	-1.19	-1.18	-1.18	-1.19	-1.18	-1.19	-1.18	-1.17	-1.18	-1.18	-1.18	
			PDI-802-1 or PDI-802-2	-2.21	-2.21	-2.21	-2.21	-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 ²	300 area laboratory header ΔP 400 area laboratory header ΔP	≤-0.05 in. wc' ≤-0.05 in. wc'	PDI-853-1 or PDI-853-2	-1.17	-1.20	-1.20	-1.20	-1.19	-1.18	-1.19	-1.20	-1.18	-1.19	-1.20	-1.19	-1.18	-1.19	-1.20	
			PDI-852-1 or PDI-852-2	-1.18	-1.20	-1.20	-1.20	-1.19	-1.18	-1.19	-1.20	-1.18	-1.19	-1.20	-1.19	-1.18	-1.19	-1.20	-1.20
4.1.1.3 4.1.2.3 ²	IFIT Facility ΔP North basement ΔP	≤-0.05 in. wc < 0.00 in. wc	PDI-865-4 or PDI-865-5	-1.16	-1.19	-1.17	-1.19	-1.17	-1.18	-1.18	-1.17	-1.18	-1.17	-1.17	-1.15	-1.17	-1.17	-1.17	
			PDI-804-1 or PDI-804-2	-1.08	-1.10	-1.10	-1.09	-1.09	-1.11	-1.10	-1.09	-1.09	-1.09	-1.08	-1.09	-1.08	-1.09	-1.09	-1.10
4.1.1.3 4.1.2.3 ²	South basement ΔP IRT Tunnel ΔP	< 0.00 in. wc < 0.00 in. wc	PDI-854-1 or PDI-854-2	-1.08	-1.09	-1.09	-1.09	-1.09	-1.10	-1.10	-1.09	-1.10	-1.09	-1.09	-1.08	-1.09	-1.09	-1.09	
			PDI-901 or PDI-901	-0.515	-0.500	-0.493	-0.500	-0.495	-0.494	-0.494	-0.494	-0.494	-0.494	-0.494	-0.494	-0.494	-0.494	-0.494	-0.494

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	09-19-16	09-20-16	9/21/16	9/22/16	09-23-16	09-24-16	09-25-16	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				AM	PM	AM	PM	AM	PM	AM	PM
				BCA	BCA	BCA	BCA	BCA	BCA	BCA	BCA
				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
		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	
		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	
		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	
		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	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRS	Description	Area	Gauge	Acceptance Criteria	Date: 09/19/16							Date: 09/25/16								
					Mon		Tue		Wed		Thu		Fri		Sat		Sun			
					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	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC		
			PDI-803-2	PDI-803-2 < PDI-804-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	
			PDI-804-2	PDI-804-2 < PDI-804-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC
			PDI-853-2	PDI-853-2 < PDI-854-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC
			PDI-854-2	PDI-854-2 < PDI-854-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC
			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	BC	BC
		400 Area	PDI-852-2	PDI-852-2 < PDI-854-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC
			PDI-854-2	PDI-854-2 < PDI-854-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC
			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	BC	BC
			PDI-852-2	PDI-852-2 < PDI-854-2	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC
		Completion Time				0127	0119	1930	0725	1930	0726	1930	0727	1931	0727	1932	0727	1932	0727	1932

SURVEILLANCE RESULTS

Sat. / Unsat. (circle one)

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 I.CO 3.1.2.

Completed by: *[Signature]* Date: 9/25/16 Time: 1732
 Reviewed by: *[Signature]* Date: 9/25/16 Time: 0715
 On-duty supervisor

Comments:

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

(Page 1 of 5)

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

		Date:	9/19/16	9/20/16	9/21/16	9/22/16	9/23/16	9/24/16	9/25/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	SA	SA	SA	BF	SA	msj	SA
SR 4.4.1.1	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
	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
		Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
		Completion Time:	0800	0815	0817	0821	0808	0840	0615

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

(Page 2 of 5)

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	9/19/16	pm	9/20/16	pm	9/21/16	pm	9/22/16	BF	9/23/16	BF	9/24/16	WPM	9/25/16	pm	
		PDI-894-2	≤2.0 & > 0' in. wc	.06	.06	.49	.50	.06	.08	.48	.05							
		PDI-895-1	≤2.0 & > 0' in. wc	.10	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
		PDI-895-2	≤2.0 & > 0' in. wc	.66	.61	.60	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61
		PDI-817-1	≤2.0 & > 0' in. wc	.19	.29	STBY	STBY	.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	.31	.31	STBY	STBY	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	
		PDI-817-4	≤2.0 & > 0' in. wc	.34	.32	STBY	STBY	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	
		PDI-817-5	≤2.0 & > 0' in. wc	.30	.30	STBY	STBY	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-819-1	≤2.0 & > 0' in. wc	.51	.51	STBY	STBY	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	
		PDI-819-3	≤2.0 & > 0' in. wc	.51	.51	STBY	STBY	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-4	≤2.0 & > 0' in. wc	.45	.45	STBY	STBY	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47	
		PDI-818-1	≤2.0 & > 0' in. wc	STBY	STBY	.26	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-818-2	≤2.0 & > 0' in. wc	STBY	STBY	.31	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-818-4	≤2.0 & > 0' in. wc	STBY	STBY	.27	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-818-5	≤2.0 & > 0' in. wc	STBY	STBY	.31	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	STBY	STBY	.49	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-821-3	≤2.0 & > 0' in. wc	STBY	STBY	.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-821-4	≤2.0 & > 0' in. wc	STBY	STBY	.48	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	

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

APR (Page 3 of 5)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	9/20/16	9/21/16	9/22/16	9/23/16	9/24/16	9/25/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	APM	APM	APM	APM	BF	BF	MMW	APM
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	STBY	STBY	1.04	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0' in. wc	STBY	STBY	.54	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0' in. wc	STBY	STBY	.48	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0' in. wc	STBY	STBY	.50	STBY	STBY	STBY	STBY	STBY
		PDI-823-1	≤2.0 & > 0' in. wc	.14	.13	.14	.14	.14	.14	.14	.14
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	.50	.50	STBY	.50	.50	.50	.50	.50
		PDI-823-4	≤2.0 & > 0' in. wc	.51	.51	STBY	.52	.52	.52	.52	.51
		PDI-823-5	≤2.0 & > 0' in. wc	.51	.51	STBY	.51	.51	.51	.51	.51
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤2.0 & > 0' in. wc	.72	.72	.72	.73	.73	.73	.73	.72
		PDI-830-2	≤2.0 & > 0' in. wc	.31	.32	.32	.32	.32	.32	.32	.31
		PDI-830-3	≤2.0 & > 0' in. wc	.28	.28	.28	.29	.29	.29	.29	.28
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	.07	.07	.07
		PDI-836-2	≤2.0 & > 0' in. wc	.70	.69	.69	.70	.70	.70	.70	.70
		PDI-836-3	≤2.0 & > 0' in. wc	.58	.58	.57	.57	.58	.58	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.58	.58	.58
		PDI-837-2	≤2.0 & > 0' in. wc	.46	.46	.46	.48	.48	.48	.48	.46
PDI-837-3	≤2.0 & > 0' in. wc	.41	.41	.41	.42	.42	.42	.42	.42		

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

(Page 4 of 5)

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	9/19/16	JM	9/20/16	JM	9/21/16	BF	9/23/16	BF	9/24/16	MMT	9/25/16	JM
		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											

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

(Page 5 of 5)

SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)							
			Date:	9/19/16	9/20/16	9/21/16	9/22/16	9/23/16	9/25/16	
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	JM	JM	JM	DF	BF	MM	JM
			Acceptance Criteria							
4.1.3.4	South Bleed off filter plenum (FE-822B) ΔP	PDI -811 -1	≤2.0 & > 0' in. wc	OFF	.11	.11	.12	OFF	OFF	OFF
		PDI -811 -2	≤2.0 & > 0' in. wc	OFF	.49	.48	.51	OFF	OFF	OFF
		PDI -811 -3	≤2.0 & > 0' in. wc	OFF	.51	.50	.52	OFF	OFF	OFF
'NA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)							
OC Operator Review and Page Count Complete (initials)			Completion Time	SAT	SAT	SAT	SAT	SAT	SAT	SAT
				0850	0855	0849	0905	0818	0850	0735
				JM	JM	WLL	KHCD	BY RDD	ARD PL	JM
						KAM				

Non TSR requirement

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: JM Date: 9/23/16 Time: 0735 Reviewed by: [Signature] Date: 9/23/16 Time: 0715

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:	9/19/16	9/20/16	9/21/16	9/22/16	9/23/16	9/24/16	9/25/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	Apr	Apr	Apr	AF	BF	WWT	Apr	
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	.17	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in. wc	.58	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0' in. wc	.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	STBY	.47	.47	.46	.46	.46	.46	.46
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	.58	.58	.58	.58	.58	.58	.58
		PDI-841-3	≤2.0 & > 0' in. wc	STBY	.51	.51	.51	.51	.52	.52	.52
	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	.42	.42	.42	.42	.42	.42	.42	.42
		PDI-831-3	≤2.0 & > 0' in. wc	.39	.40	.40	.40	.40	.40	.40	.39
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	.36	.36	.36	.36	.36	.36	.36	.36	
	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	.62	.62	.62	.62	.61	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	.11	OFF	OFF	OFF	OFF	.12	.12	.12
		PDI-807-2	≤2.0 & > 0' in. wc	.48	OFF	OFF	OFF	OFF	.48	.48	.48
		PDI-807-3	≤2.0 & > 0' in. wc	.48	OFF	OFF	OFF	OFF	.48	.48	.48
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	OFF	.07	.07	.07	.08	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	.49	.50	.50	.50	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	.48	.48	.48	.49	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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					9/19/16	9/20/16	9/21/16	9/22/16	9/23/16	9/24/16	9/25/16		
4.1.3.4	North Basement exhaust filter plenum (PF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	Jm	16	16	16	16	16	16	16	16	
		PDI-829-2	≤2.0 & > 0' in. wc	Jm	35	35	32	31	32	30	35		
		PDI-829-3	≤2.0 & > 0' in. wc	Jm	30	29	28	27	28	28	29		
		PDI-833-1	≤2.0 & > 0' in. wc	Jm	07	07	07	07	07	07	07		
		PDI-833-2	≤2.0 & > 0' in. wc	Jm	49	49	49	49	50	50	50		
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	Jm	45	45	45	46	47	47	47		
		PDI-835-1	≤2.0 & > 0' in. wc	Jm	17	17	17	17	17	17	17		
		PDI-835-2	≤2.0 & > 0' in. wc	Jm	44	44	44	45	45	45	44		
		PDI-835-3	≤2.0 & > 0' in. wc	Jm	41	41	41	41	41	41	41		
		PDI-815-1	≤2.0 & > 0' in. wc	Jm	20	20	20	20	21	21	21		
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	Jm	50	50	50	50	50	50	50		
		PDI-815-4	≤2.0 & > 0' in. wc	Jm	42	42	42	42	42	42	42		
		PDI-815-5	≤2.0 & > 0' in. wc	Jm	44	43	43	44	45	44	44		
		PDI-816-1	≤2.0 & > 0' in. wc	Jm	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-816-2	≤2.0 & > 0' in. wc	Jm	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	Jm	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-816-5	≤2.0 & > 0' in. wc	Jm	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 (FF-850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	Jm	9/19/16	9/20/16	9/21/16	9/22/16	9/23/16	9/24/16	9/25/16	
		PDI-812-2	≤2.0 & > 0' in. wc	Jm								
		PDI-812-3	≤2.0 & > 0' in. wc	Jm								
		PDI-812-4	≤2.0 & > 0' in. wc	Jm								
		PDI-812-5	≤2.0 & > 0' in. wc	Jm								
4.1.3.4	200 area glovebox exhaust filter plenum (FF-851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	Jm	9/19/16	9/20/16	9/21/16	9/22/16	9/23/16	9/24/16	9/25/16	
		PDI-813-2	≤2.0 & > 0' in. wc	Jm								
		PDI-813-3	≤2.0 & > 0' in. wc	Jm								
		PDI-813-4	≤2.0 & > 0' in. wc	Jm								
		PDI-813-5	≤2.0 & > 0' in. wc	Jm								
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	Jm	9/19/16	9/20/16	9/21/16	9/22/16	9/23/16	9/24/16	9/25/16	
		PDI-865-2	≤2.0 & > 0' in. wc	Jm								
		PDI-865-3	≤2.0 & > 0' in. wc	Jm								
4.1.3.4	IFTT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	Jm	9/19/16	9/20/16	9/21/16	9/22/16	9/23/16	9/24/16	9/25/16	
		PDI-863-2	≤2.0 & > 0' in. wc	Jm								

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.	Sun.
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	9/19/16	Mon.	gm	.16	.15	.16	.16	.16	.16	.15
		PDI-857-2	≤ 2.0 & > 0' in. wc	9/20/16	Tue.	gm	.45	.43	.43	.43	.44	.44	.43
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	9/19/16	Mon.	gm	.10	.10	.10	.10	.10	.10	.10
		PDI-856-2	≤ 2.0 & > 0' in. wc	9/20/16	Tue.	gm	.55	.60	.61	.60	.52	.52	.53
NA	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	9/19/16	Mon.	gm	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ 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	9/19/16	Mon.	gm	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time				0830	0835	0830	0837	0843	0800	0715	0715	0715	0715
OC Operator Review and Page Count Complete (initials)				WJF	WJF	WJF	WJF	WJF	WJF	WJF	WJF	WJF	WJF
Non TSR requirement				WJF	WJF	WJF	WJF	WJF	WJF	WJF	WJF	WJF	WJF

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: WJF Date: 9/20/16 Time: 0715 Reviewed by: WJF Date: 9/20/16 Time: 0715

Curriculum Supervisor



Comments: # 811 - 812 Uuwt has no fighting.

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

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.: 039746	PF-10 Thermistor File No.: 040373	V-701 Thermistor File No.: 103762
	Calibration Expiration Date: 5/18/2017	Calibration Expiration Date: 7/7/2017	Calibration Expiration Date: 7/6/2017
through April only	PF-11 Thermometer File No.: 042252	PF-11 Thermistor File No.: 105353	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 5/18/2017	Calibration Expiration Date: 7/7/2017	Calibration Expiration Date: 7/6/2017

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
Daily (September through April only)	Date:	9/19/2016	9-20-16	9-21-16	9-22-16	9-23-16	9-24-16	9-25/16			
	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
	Initials:	AS	JF	JF	AS	AS	AS	AS	JF		
Description	Acceptance Criteria										
	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT
	4.3.1.1' RECORD fire water storage tank V-701 temperature	64.7	65.2	65.7	65.8	65.8	64.4	43.6			
	4.3.1.1' RECORD fire water storage tank V-704 temperature	66.4	67.0	67.3	67.6	67.6	66.4	45.2			
	4.3.1.3' RECORD PF-10 room temperature	69.7	70.9	71.2	69.9	68.2	60.3	61.2			
4.3.1.3' RECORD PF-11 room temperature	69.1	71.1	71.7	70.6	69.3	62.0	61.6				
Completion Time:		0918	0911	0912	0906	0836	0919	0950			
OC Operator Review and Page Count Complete (initials)											
		AS	AS	AS	AS	AS	AS	AS	AS	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:  Date: 9/25/2016 Time: 0950
 Reviewed by:  Date: 10/2/16 Time: 0715
 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 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹	9-26-16	2.02	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 glovebox exhaust header ΔP	≤-1.0 in. wc ¹	9-27-16	1.94	1.97	1.92	1.92	1.93	1.92	1.93	1.92	1.93	1.92	1.93	1.92	1.93	1.92	
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹	9-28-16	1.98	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	
	400 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹	9-29-16	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	
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤-0.05 in. wc ¹	9-30-16	2.17	2.17	2.18	2.18	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	
	100 area laboratory header ΔP	≤-0.05 in. wc ¹	9-30-16	2.21	2.22	2.22	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	
	300 area laboratory header ΔP	≤-0.05 in. wc ¹	9-30-16	2.17	2.19	2.19	2.21	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	
	400 area laboratory header ΔP	≤-0.05 in. wc ¹	9-30-16	2.17	2.19	2.19	2.21	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	
4.1.1.3 4.1.2.3 ²	North basement ΔP	< 0.00 in. wc	9-30-16	2.06	2.06	2.08	2.08	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	9-30-16	2.07	2.08	2.08	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	
	IRT Tunnel ΔP	< 0.00 in. wc	9-30-16	2.10	2.09	2.09	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	
				2.10	2.09	2.09	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	

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 PDI's may be used if FCS is unavailable.	Date:	7-26-16		7-27-16		7-28-16		7-29-16		7-30-16		Sun.		Sun.			
		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sat.	Sat.	Sat.	Sat.	Sat.	Sat.	Sat.	Sat.		
	Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	Shift:																
	Initials:	[Handwritten initials]															
4.1.1.6	200 area re-circulation fan/plenum	FIR-801 Icon red and PDT-831 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
		or	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
	100 area re-circulation fan/plenum	FIR-802 Icon red and PDT-832 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
		or	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
	300 area re-circulation fan/plenum	FIR-803 Icon red and PDT-833 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
		or	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
	400 area re-circulation fan/plenum	FIR-804 Icon red and PDT-835 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
		or	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
	Vault re-circulation fan/plenum	FIR-805 Icon red and PDT-836 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
		or	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
Vault re-circulation fan/plenum	FIR-806 Icon red and PDT-837 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	or	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
Vault re-circulation fan/plenum	FIR-807 Icon red and PDT-838 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	or	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
Vault re-circulation fan/plenum	FIR-808 Icon red and PDT-839 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	or	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
Vault re-circulation fan/plenum	FIR-811 Icon red and PDT-840 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	or	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
Vault re-circulation fan/plenum	FIR-812 Icon red and PDT-841 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	or	Unsat	Unsat	Unsat	Unsat	Unsat	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													
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	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-814-2 < PDI-803-2 < PDI-804-2	9-26-16	9-27-16	9-28-16	9-29-16	9-30-16									
			PDI-803-2															
			PDI-804-2															
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2														
			PDI-802-2															
			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	0130	0130	0130	0130	0130	0130	0130	0130	0130	0130	0130		

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 9/30/16 Time 1429 Reviewed by: [Signature] Date: 10/12/16 Time: 0715
 On-duty Supervisor

Comments: _____

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

(Page 1 of 5)

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:	9/26/16	9-27-16	9/28/16	9/29/16	9/30/16		
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	<i>AM</i>	PT	<i>AM</i>	<i>AM</i>	<i>AM</i>		
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)	Record Calculated Value							
	(LCD Reading) (LED Reading)	≥ -0.1 ; $\leq +0.1$	<i>Sat</i> / Unsat.	<i>Sat</i> / Unsat.	<i>Sat</i> / Unsat.	<i>Sat</i> / Unsat.	<i>Sat</i> / Unsat.	<i>Sat</i> / Unsat.	<i>Sat</i> / Unsat.
	Completion Time:		0754	0856	0802	0830	0732		

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

(Page 2 of 5)

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	9/26/16	Am	PT	Am	Am	Am	Am		
		PDI-894-2	≤2.0 & > 0' in. wc	.05	.49	.49	.05	.49	.49	.05		
		PDI-895-1	≤2.0 & > 0' in. wc	.10	.11	.11	.11	.11	.11	.11		
		PDI-895-2	≤2.0 & > 0' in. wc	.61	.61	.65	.66	.66	.66	.66		
		PDI-817-1	≤2.0 & > 0' in. wc	.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	.30	.30	.30	.30	.30	.30	.30		
		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		
		PDI-819-1	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51		
		PDI-819-3	≤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) ΔP	PDI-819-4	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45		
		PDI-818-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		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) ΔP	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]

(Page 3 of 5)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)									
					Date:	Weekday:	Mon.	Tue	Wed.	Thu.	Fri.	Sat.	Sun.	
					9/26/16	9/27-16	9/28/16	9/29/16	9/30/16					
4.1.3.4	400 area glovebox exhaust filter plenum (PF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	Am										
		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		.14	.14	.14	.14	.14	.14	.14			
4.1.3.4	400 area glovebox exhaust filter plenum (PF857) AP	PDI-823-2	≤2.0 & > 0' in. wc		.50	.50	.50	.50	.50	.50				
		PDI-823-4	≤2.0 & > 0' in. wc		.50	.51	.51	.51	.51	.51				
		PDI-823-5	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51				
		PDI-830-1	≤2.0 & > 0' in. wc		.72	.72	.72	.72	.72	.72				
		PDI-830-2	≤2.0 & > 0' in. wc		.32	.32	.32	.32	.32	.32				
4.1.3.4	South Basement exhaust filter plenum (PF-829) AP	PDI-830-3	≤2.0 & > 0' in. wc		.28	.28	.28	.28	.28	.28				
		PDI-836-1	≤2.0 & > 0' in. wc		.07	.07	.07	.07	.07	.07				
		PDI-836-2	≤2.0 & > 0' in. wc		.70	.70	.70	.70	.70	.70				
		PDI-836-3	≤2.0 & > 0' in. wc		.58	.58	.58	.58	.58	.58				
		PDI-837-1	≤2.0 & > 0' in. wc		.58	.58	.58	.58	.58	.58				
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-837-2	≤2.0 & > 0' in. wc		.56	.56	.48	.47	.47	.47				
		PDI-837-3	≤2.0 & > 0' in. wc		.42	.42	.42	.42	.42	.42				

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

(Page 4 of 5) 9:26:76

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	9/26/16	Jm	PT	Jm	Jm	Jm	Jm	Jm	Jm		
		PDI-838-2	≤2.0 & > 0' in. wc	9/27-16										
		PDI-838-3	≤2.0 & > 0' in. wc	9/28-16										
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc	9/26/16	Jm	PT	Jm	Jm	Jm	Jm	Jm	Jm	Jm	
		PDI-839-2	≤2.0 & > 0' in. wc	9/27-16										
		PDI-839-3	≤2.0 & > 0' in. wc	9/28-16										
	4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc	9/26/16	Jm	PT	Jm	Jm	Jm	Jm	Jm	Jm	
			PDI-810-2	≤2.0 & > 0' in. wc	9/27-16									
			PDI-810-3	≤2.0 & > 0' in. wc	9/28-16									

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	South Bleed off filter plenum (FE-822B) AP	PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	9/26/16	9-27-16	9/28/16	9/29/16	9/30/16		
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
'NA'	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)							
OC Operator Review and Page Count Complete (initials)										

'Non TSR requirement:

Note: SR 4.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3-4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date 9/30/16 Time 0825 Reviewed by: [Signature] Date: 10/12/16 Time: 0715

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:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤ 2.0 & > 0' in. wc	9/26/16	9-27-16	9/28/16	9/29/16	9/30/16			
		PDI-840-2	≤ 2.0 & > 0 in'. wc	STBY	STBY	STBY	STBY	STBY			
		PDI-840-3	≤ 2.0 & > 0' in. wc	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	.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	.52	.52	.52	.52	.52		
		PDI-831-1	≤ 2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33		
		PDI-831-2	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41		
		PDI-831-3	≤ 2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39		
200 area re-circulation filter plenum (HVP-801) ΔP	PDI-832-1	≤ 2.0 & > 0' in. wc	.36	.36	.36	.36	.36	.36			
	PDI-832-2	≤ 2.0 & > 0' in. wc	.68	.68	.68	.68	.68	.68			
	PDI-832-3	≤ 2.0 & > 0' in. wc	.62	.62	.62	.62	.62	.62			
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤ 2.0 & > 0' in. wc	.11	.12	.11	.11	.11	.11		
		PDI-807-2	≤ 2.0 & > 0' in. wc	.48	.49	.48	.48	.48	.48		
		PDI-807-3	≤ 2.0 & > 0' in. wc	.48	.49	.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	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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	North Basement exhaust filter plenum (PF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	9/26/16	Jan	PT	9/28/16	9/29/16	9/30/16		
		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 (PF852) 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 (PF853) 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	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	gm	9/26/16	9/27-16	9/28/16	9/29/16	9/30/16			
		PDI-812-2	≤2.0 & >0 ⁺ in. wc									
		PDI-812-3	≤2.0 & >0 ⁺ in. wc									
		PDI-812-4	≤2.0 & >0 ⁺ in. wc									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-812-5	≤2.0 & >0 ⁺ in. wc									
		PDI-813-1	≤2.0 & >0 ⁺ in. wc									
		PDI-813-2	≤2.0 & >0 ⁺ in. wc									
		PDI-813-3	≤2.0 & >0 ⁺ in. wc									
4.1.3.4	HIT exhaust filter plenum (FI-865) ΔP	PDI-813-4	≤2.0 & >0 ⁺ in. wc									
		PDI-813-5	≤2.0 & >0 ⁺ in. wc									
		PDI-865-1	≤2.0 & >0 ⁺ in. wc									
		PDI-865-2	≤2.0 & >0 ⁺ in. wc									
4.1.3.4	HIT supply filter plenum (HVP-863) ΔP	PDI-865-3	≤2.0 & >0 ⁺ in. wc									
		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)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	9/26/16	9-27-16	9/28/16	9/29/16	9/30/16		
				Mon.	Tue.	Wed.	Thu.	Fri.		
				Initials:	PT	Am	Am	Am		
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-2	≤ 2.0 & > 0' in. wc	.15	.15	.15	.15	.16		
				.43	.43	.45	.45	.45		
				.10	.10	.10	.10	.10		
				.53	.53	.53	.55	.55		
INA	Combustible exclusion area around basement exhaust fan FER28 and bleed-off fans FER20A, FER20R, FER20C		0 lb/ft ³ 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 ³ 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		
				0815	0937	0840	0848	0240		
				KAM	AM	APG	APG	W-D		
				OC Operator Review and Page Count Complete (initials)						
				Completion time						
				1 Non TSR requirement						

Note: SIRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in I.CO 3.1.3

Completed by: [Signature] Date: 9/26/16 Time: 0815 Reviewed by: [Signature] Date: 9/27/16 Time: 0715
 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.:	039746	PF-10 Thermistor File No.:
	Calibration Expiration Date:	5-18-17	Calibration Expiration Date:
PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	105353
	Calibration Expiration Date:	5-18-17	Calibration Expiration Date:
		V-701 Thermistor File No.:	103762
		Calibration Expiration Date:	7-6-17
		V-704 Thermistor File No.:	039743
		Calibration Expiration Date:	7-6-17

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criteria	Date:							Sat	Sun
			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.	9-26-16	9-27-16	9-28-16	9-29-16	9-30-16				
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	PT	LN	JF	BD	PT				
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	62.7	61.3	62.5	62.9	64.0				
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	64.4	63.3	64.1	64.5	64.6				
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	61.7	62.3	64.8	67.0	66.2				
Completion Time:			0923	0900	0900	0919	0725				
OC Operator Review and Page Count Complete (initials)											
			J KAM	A KAM	W AD	SA EL	W J				

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

Completed by: Paul Zujewski Date: 9-30-16 Time: 0746

Reviewed by: [Signature] Date: 10/2/16 Time: 0715

Comments: _____

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
	4.2.2.1	16	Rm. 429	> 1 mR/hr	Sat. / Unsat.
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: [Signature] Date 9/1/16 Time 0110
 Reviewed by: [Signature] Date 9/1/16 Time 0620
 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	Sat	1521	9-21-16	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	1523	9-21-16	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	1512	9-21-16	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	Sat	1453	9-21-16	PT
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	1455	9-21-16	PT
			4.4 Seconds	Sat	1457	9-21-16	PT

*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from Request for Permanent Equivalency to OE Order 120, IB Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANI, Building T-155-1 (PF-1), Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANI-DOE-ORDER-120, IB-EQ-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.	<input checked="" type="checkbox"/> Sat <input type="checkbox"/> Unsat	1440	9-21-16	PT
4.1.3.2	Confinement Door DR-4	N Basement Personnel door DR-4	6.5 Seconds Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	<input checked="" type="checkbox"/> Sat <input type="checkbox"/> Unsat	1441	9-21-16	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).	<input checked="" type="checkbox"/> Sat <input type="checkbox"/> Unsat	1400	9-21-16	PT
OC Operator Review and Page Count Complete							PT

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: Paul Trujillo Date: 9-21-16 Time: 1523 Reviewed by: [Signature] Date: 9/21/16 Time: 1630

On-duty Supervisor Comments:

October

Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	Surveillance Rounds
Procedure no.:	TA55-STP004, R12.1
Date of issue:	10/1/16
Working copy issued to:	R. Miller
Working copy issued by:	J. Lovato
	Certified Operations Center Operator (OCO)

OC Reviews Complete and TSR Status Board Updated

/

OCO Signature

Date

Training Checklist:

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
B. Chance	[Signature]	10/1/16
A. Courique	[Signature]	10/1/16
J. Lovato	[Signature]	10/1/16
A. Ortiz	[Signature]	10/1/16
R. Priez	[Signature]	10/1/16
V. Seibert	[Signature]	10/1/16
J. Smeltz	[Signature]	10/1/16
V. Bailey	[Signature]	10/1/16
B. Froelich	[Signature]	10/1/16
J. Frank	[Signature]	10/1/16

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
D. Heintschel	DH	10/1/14
R. Hahnke	RH	10/1/14
A. Herrera	AH	
M. Irish	MI	
J. Koenigsmeyer	JK	
J. Martinez	JM	
A. Sanchez	AS	
Anthony Sandoz	AS	
R. Suggs	RS	
R. Brisco	RB	
A. Durbin	AD	
R. Wynn	RW	10/1/14
S. McKenna	SM	10/1/14
R. Miller	RM	10/1/14

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.	15 07	10-19-16	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.	15 08	10-19-16	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.	14 08	10-19-16	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	Sat / Unsat.	14 17	10-19-16	PT
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. 4.5 Seconds	Sat / Unsat.	14 18	10-19-16	PT

*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Exemption to OE Order 420, IB Chapter II, NEPA 80, NEPA 101 and IBC Requirements for LANI, Building TA55-4 (PF-A), Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANI-DOE-ORDPR-120, 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
4132	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.	1456	10/19/16	PT
			7.3 Seconds	Sat/Unsat.	1458	10-19-16	PT
4132	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.	1447	10-19-16	PT
4132	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.	1440	10-19-16	PT

OC Operator Review and Page Count Complete

Note: SR 4132 applies during mode 1 and 2.

Completed by: Paul Trujillo Date: 10-19-16 Time: 1509 Reviewed by: [Signature]

Date: 10/19/16 Time: 1553

On-duty Supervisor Comments:

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	AM	PM	AM	PM	AM	PM	AM	PM
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
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	AM	PM	AM	PM	AM	PM	AM	PM
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
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	AM	PM	AM	PM	AM	PM	AM	PM
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
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	AM	PM	AM	PM	AM	PM	AM	PM
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
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	AM	PM	AM	PM	AM	PM	AM	PM
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	

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

(Page 1 of 5)

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).

Description / Gauge		Date:	SURVEILLANCE RESULTS (percentage)							
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:								
SR 4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA							10/11/16	10/21/16
	CP-305-H (LED Reading)								0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value ≥ -0.1 ; $\leq +0.1$							0.0	0.0
		Completion Time:							Sat / Unsat.	Sat / Unsat.
									0720	0710

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

(Page 2 of 5)

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								10/1/16	10/2/16	
		PDI-894-2	≤2.0 & > 0' in. wc										.05
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc										.49
		PDI-895-2	≤2.0 & > 0' in. wc										.13
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc										.65
		PDI-817-2	≤2.0 & > 0' in. wc										.29
		PDI-817-4	≤2.0 & > 0' in. wc										.30
		PDI-817-5	≤2.0 & > 0' in. wc										.73
		PDI-819-4	≤2.0 & > 0' in. wc										.70
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & > 0' in. wc										.50
		PDI-819-3	≤2.0 & > 0' in. wc										.50
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-1	≤2.0 & > 0' in. wc										.46
		PDI-818-2	≤2.0 & > 0' in. wc										STBY
		PDI-818-4	≤2.0 & > 0' in. wc										STBY
		PDI-818-5	≤2.0 & > 0' in. wc										STBY
		PDI-821-1	≤2.0 & > 0' in. wc										STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-3	≤2.0 & > 0' in. wc										STBY
		PDI-821-4	≤2.0 & > 0' in. wc										STBY

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

(Page 3 of 5)

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								10/1/16	10/2/16
		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									.13
		PDI-823-4	≤ 2.0 & > 0' in. wc									.50
		PDI-823-5	≤ 2.0 & > 0' in. wc									.51
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤ 2.0 & > 0' in. wc									.71
		PDI-830-2	≤ 2.0 & > 0' in. wc									.42
		PDI-830-3	≤ 2.0 & > 0' in. wc									.29
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-1	≤ 2.0 & > 0' in. wc									.06
		PDI-836-2	≤ 2.0 & > 0' in. wc									.69
		PDI-836-3	≤ 2.0 & > 0' in. wc									.59
		PDI-837-1	≤ 2.0 & > 0' in. wc									.58
		PDI-837-2	≤ 2.0 & > 0' in. wc									.45
		PDI-837-3	≤ 2.0 & > 0' in. wc								.42	

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

(Page 4 of 5)

SRs	Description	Gauge	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) ΔP	'PDI-838-1	≤2.0 & > 0' in. wc																		
		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) ΔP	'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) ΔP	'PDI-810-1	≤2.0 & > 0' in. wc																		
		PDI-810-2	≤2.0 & > 0' in. wc																		
		PDI-810-3	≤2.0 & > 0' in. wc																		

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

(Page 5 of 5)

SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)										
			Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
			Weekday:	Initials:									
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1											
		PDI -811 -2											
		PDI -811 -3											
'NA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C												
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 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date 10/21/16 Time 0800 Reviewed by: [Signature] Date: 10/21/16 Time: 0720
 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:	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								10/11/16	10/24/16	
		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)

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								10/11/16	10/21/16
		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	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 (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc										
		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	IFTT exhaust filter plenum (IF-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	IFTT supply filter plenum (IHP-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								10/11/16	10/12/16
		PDI-857-2	≤ 2.0 & > 0' in. wc								APM	APM
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 fan FE828 and bleed-off fans FE820A, FE820B, FE820C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)								SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less								SAT	SAT
				Completion time								
				OC Operator Review and Page Count Complete (initials)								
				OC Operator Review and Page Count Complete (initials)								

Non TSR requirement

Note: SRS 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Shane M. Date 10/12/16 Time 0230 Reviewed by: [Signature] Date: 10/12/16 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.:	039746	PF-10 Thermistor File No.:
	Calibration Expiration Date:	5-18-17	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:
	Calibration Expiration Date:	5-18-17	Calibration Expiration Date:
	PF-10 Thermometer File No.:	040373	V-701 Thermistor File No.:
	Calibration Expiration Date:	7-7-17	Calibration Expiration Date:
	PF-11 Thermometer File No.:	105353	V-704 Thermistor File No.:
	Calibration Expiration Date:	7-7-17	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	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.										
4.3.1.1 ¹	RECORD fire water storage tank V-701 temperature	≥ 42.1 F										
4.3.1.1 ¹	RECORD fire water storage tank V-704 temperature	≥ 42.1 F										
4.3.1.3 ¹	RECORD PF-10 room temperature	≥ 50.1 F										
4.3.1.3 ¹	RECORD PF-11 room temperature	≥ 50.1 F										
	Completion Time:											
	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: CEA Date 10-2-16 Time 0900
 Reviewed by: [Signature] Date: 10/12/16 Time: 0720
 On-duty Supervisor
 Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 2)

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	10-03-14	10-04-14	10-05-14	10-06-14	10-07-14	10-08-14	10-09-14	10-10-14
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
	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	10-03-14	10-04-14	10-05-14	10-06-14	10-07-14	10-08-14	10-09-14	10-10-14
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
	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	10-03-14	10-04-14	10-05-14	10-06-14	10-07-14	10-08-14	10-09-14	10-10-14
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
	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	10-03-14	10-04-14	10-05-14	10-06-14	10-07-14	10-08-14	10-09-14	10-10-14
Mon.				Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
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	10-03-14	10-04-14	10-05-14	10-06-14	10-07-14	10-08-14	10-09-14	10-10-14	
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat. / Unsat. (circle one)													
					Date: 10-03-16		10-04-16		10-05-16		10-06-16		10-07-16		10-08-16		10-09-16	
					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	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			
			PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
			PDI-820-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
		100 Area	PDI-802-2	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			
			PDI-870-2	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			
		300 Area	PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
			PDI-864-2	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			
			PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
		400 Area	PDI-864-2	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			
			PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
			Completion Time	0718	1929	0725	1933	0728	1938	0719	1923	0718	1926	0717	1924	0714	1936	

Note: 1 Mode 2 acceptance criteria is < 0.00 in. wc
 Note: 2 SRs 4.1.2.x only apply during mode 2 in accordance with I.CO.3.1.2.

Completed by: [Signature] Date: 10/09/16 Time: 1936 Reviewed by: [Signature] Date: 10/12/16 Time: 0710
 On-duty Supervisor

Comments:

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

(Page 1 of 5)

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

		Date:	10/3/16	10/4/16	10/5/16	10-6-16	10-7-16	10-8-16	10-9-16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	AM	AM	AM	PT	AD	PT	PT	
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
SR 4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value ≥ -0.1 ; $\leq +0.1$	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:	0750	0846	0840	0910	0010	0803	0740	

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

(Page 2 of 5)

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	10/3/16	10/4/16	10/5/16	10-6-16	10-7-16	10-8-16	10-9-16	
		PDI-894-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-895-1	≤2.0 & > 0' in. wc	PM	PM	PM	PT	AS	PT	PT	
		PDI-895-2	≤2.0 & > 0' in. wc	.06	.06	.06	.06	.06	.06	.06	
		PDI-817-1	≤2.0 & > 0' in. wc	.49	.49	.46	.48	.48	.48	.48	
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-817-1	≤2.0 & > 0' in. wc	.11	.11	.11	.11	.12	.12	.12	
		PDI-817-2	≤2.0 & > 0' in. wc	.65	.65	.65	.65	.65	.65	.65	
		PDI-817-3	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.28	.28	.28	
		PDI-817-4	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	
		PDI-817-5	≤2.0 & > 0' in. wc	.32	.33	.32	.32	.31	.31	.31	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF854) ΔP	PDI-819-1	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	
		PDI-819-2	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	
		PDI-819-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	
		PDI-819-4	≤2.0 & > 0' in. wc	.46	.46	.46	.46	.46	.46	.46	
		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) ΔP	PDI-818-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-818-3	≤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	
		PDI-821-1	≤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) ΔP	PDI-821-2	≤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]

(Page 3 of 5)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	10/3/16	10/4/16	10/5/16	10/6/16	10-7-16	10-8-16	10-9-16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	gm	gm	gm	PT	AS	PT	PT	
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
		PDI-822-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-1	≤2.0 & > 0' in. wc	.14	.14	.14	.14	.14	.14	.14	.14
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-823-4	≤2.0 & > 0' in. wc	.50	.51	.50	.50	.51	.51	.50	.50
		PDI-823-5	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-830-1	≤2.0 & > 0' in. wc	.72	.72	.68	.70	.70	.70	.70	.71
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc	.32	.33	.31	.31	.31	.31	.31	.31
		PDI-830-3	≤2.0 & > 0' in. wc	.28	.28	.37	.28	.28	.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	.69	.69	.70	.70	.70	.70	.70	.70
		PDI-836-3	≤2.0 & > 0' in. wc	.56	.57	.57	.58	.58	.58	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc	.57	.57	.58	.58	.58	.58	.58	.58
		PDI-837-2	≤2.0 & > 0' in. wc	.45	.45	.46	.45	.46	.46	.47	.47
		PDI-837-3	≤2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42	.42

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

(Page 4 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	10/3/16	10/4/16	10/5/16	10-6-16	10-7-16	10-8-16	10-9-16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
					pm	pm	pm	PT	AD	PT	PT	PT	
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	.52	.53	.53	.53	
		PDI-838-2	≤2.0 & > 0' in. wc	.56	.56	.57	.58	.59	.59	.59	.59	.59	.59
		PDI-838-3	≤2.0 & > 0' in. wc	.55	.55	.55	.57	.57	.57	.57	.57	.57	.57
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-839-2	≤2.0 & > 0' in. wc	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59
		PDI-839-3	≤2.0 & > 0' in. wc	.58	.58	.58	.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	.15	.15	.15	.16	.16	.16	.15	.16	.16	
		PDI-810-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.51	.51	.51	.51	.51	
		PDI-810-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.52	.52	.51	.51	.51	

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

(Page 5 of 5)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	10/3/16	10/4/16	10/5/16	10-6-16	10-7-16	10-8-16	10-9-16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	gm	gm	gm	PT	AS	PT	PT	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc		off	off	off	off	off	off	off	off
'NA	Combustible exclusion area around basement exhaust fan FER29 and bleed-off fans FER22A, FER22B, FER22C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)									
OC Operator Review and Page Count Complete (initials)				Completion Time	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
					0830	0915	0830	0855	0832	0744	0734	
					AS	AS	W	W	PL	PL	PL	PL

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date: 10-9-16 Time: 0734 Reviewed by: [Signature] Date: 10/10/16 Time: 0710

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:	Initials:	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	10/3/16	10/4/16	10/5/16	10/6/16	10/7/16	10-8-16	10-9-16		
		PDI-840-2	≤2.0 & > 0 in ⁺ wc	pm	pm	pm	PT	BF	PT			
		PDI-840-3	≤2.0 & > 0 ⁺ in. wc	STBY	STBY	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
		PDI-841-2	≤2.0 & > 0 ⁺ in. wc	.58	.58	.58	.58	.58	.58	.58	.58	.59
		PDI-841-3	≤2.0 & > 0 ⁺ in. wc	.51	.51	.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	.33	.33
		PDI-831-2	≤2.0 & > 0 ⁺ in. wc	.41	.41	.41	.41	.41	.41	.42	.42	.42
		PDI-831-3	≤2.0 & > 0 ⁺ in. wc	.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	.35	.35	.36	.36	.36	.36	.36	.37	.37	
	PDI-832-2	≤2.0 & > 0 ⁺ in. wc	.67	.67	.67	.68	.68	.68	.68	.69	.69	
	PDI-832-3	≤2.0 & > 0 ⁺ in. wc	.61	.61	.61	.61	.62	.62	.62	.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	.12	.12	.12	.12	
		PDI-807-2	≤2.0 & > 0 ⁺ in. wc	.46	.46	.48	.49	.49	.49	.49	.49	
		PDI-807-3	≤2.0 & > 0 ⁺ in. wc	.48	.48	.50	.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	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	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Weekday:	10/3/16	10/4/16	10/5/16	10-6-16	10/7/16	10-8-16
					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	gm	gm	.16	.16	.16	.17	.17	.17	.17
		PDI-829-2	≤2.0 & > 0' in. wc		.35	.35	.34	.35	.35	.35	.36	.36
		PDI-829-3	≤2.0 & > 0' in. wc		.29	.29	.29	.30	.30	.30	.30	.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	.07
		PDI-833-2	≤2.0 & > 0' in. wc		.50	.50	.50	.50	.51	.50	.50	.50
		PDI-833-3	≤2.0 & > 0' in. wc		.48	.48	.48	.48	.48	.48	.48	.48
		PDI-835-1	≤2.0 & > 0' in. wc		.17	.17	.17	.17	.18	.18	.18	.18
		PDI-835-2	≤2.0 & > 0' in. wc		.43	.43	.43	.43	.44	.44	.44	.44
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	≤2.0 & > 0' in. wc		.40	.40	.40	.41	.41	.41	.41	.41
		PDI-815-1	≤2.0 & > 0' in. wc		.21	.21	.21	.21	.21	.21	.21	.21
		PDI-815-2	≤2.0 & > 0' in. wc		.50	.50	.50	.49	.49	.49	.49	.49
		PDI-815-4	≤2.0 & > 0' in. wc		.42	.42	.42	.42	.41	.41	.41	.41
		PDI-815-5	≤2.0 & > 0' in. wc		.43	.43	.43	.43	.44	.44	.44	.44
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
		PDI-816-2	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc		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:	10/3/16	10/4/16	10/5/16	10-6-16	10/7/16	10-8-16	10-9-16	
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	200 area glovebox exhaust filter plenum (PF-850) ΔP	PDI-812-1	≤2.0 & > 0 ⁺ in. wc	gn									
		PDI-812-2	≤2.0 & > 0 ⁺ in. wc	gn	.14	.14	.14	.15	.15	.15	.15	.15	.15
		PDI-812-3	≤2.0 & > 0 ⁺ in. wc	gn	.35	.35	.35	.32	.32	.32	.32	.32	.32
		PDI-812-4	≤2.0 & > 0 ⁺ in. wc	gn	.35	.35	.35	.35	.35	.35	.35	.35	.35
		PDI-812-5	≤2.0 & > 0 ⁺ in. wc	gn	.28	.28	.28	.29	.29	.29	.29	.29	.29
4.1.3.4	200 area glovebox exhaust filter plenum (PF-851) ΔP	PDI-813-1	≤2.0 & > 0 ⁺ in. wc	gn	.38	.38	.38	.38	.38	.38	.38	.38	.38
		PDI-813-2	≤2.0 & > 0 ⁺ in. wc	gn	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0 ⁺ in. wc	gn	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0 ⁺ in. wc	gn	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0 ⁺ in. wc	gn	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	HPT exhaust filter plenum (PF-865) ΔP	PDI-865-1	≤2.0 & > 0 ⁺ in. wc	gn	.02	.02	.02	.02	.02	.02	.02	.02	.02
		PDI-865-2	≤2.0 & > 0 ⁺ in. wc	gn	.29	.29	.29	.30	.30	.30	.30	.30	
		PDI-865-3	≤2.0 & > 0 ⁺ in. wc	gn	.31	.31	.31	.31	.31	.31	.31	.31	
4.1.3.4	HPT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ⁺ in. wc	gn	.10	.11	.11	.11	.11	.11	.11	.11	
		PDI-863-2	≤2.0 & > 0 ⁺ in. wc	gn	.28	.28	.28	.29	.29	.29	.29	.29	

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:	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	10/3/16	Mon.	gm	0820	SA	10-8-16	Sat.	10-9-16	Sun.
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤2.0 & > 0' in. wc	10/4/16	Tue.	gm	0900	SA	10-6-16	Thu.	10/3/16	Fri.
'NA	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C	PDI-856-1	≤2.0 & > 0' in. wc	10/4/16	Tue.	gm	0900	SA	10-6-16	Thu.	10/3/16	Fri.
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤2.0 & > 0' in. wc	10/4/16	Tue.	gm	0900	SA	10-6-16	Thu.	10/3/16	Fri.
			0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	10/4/16	Tue.	gm	0900	SA	10-6-16	Thu.	10/3/16	Fri.
			0 lb/ft ³ 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	10/4/16	Tue.	gm	0900	SA	10-6-16	Thu.	10/3/16	Fri.
			Completion time	10/3/16	Mon.	gm	0820	SA	10-8-16	Sat.	10-9-16	Sun.
			OC Operator Review and Page Count Complete (initials)	10/3/16	Mon.	gm	0820	SA	10-8-16	Sat.	10-9-16	Sun.
			'Non TSR requirement	10/3/16	Mon.	gm	0820	SA	10-8-16	Sat.	10-9-16	Sun.

Note: SIRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Fred Traylor Date 10-9-16 Time 0850 Reviewed by: [Signature] Date: 10/12/16 Time: 0710

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.:	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	Date:							Sun.		
			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.	10-3-16	10-4-16	10-5-16	10-6-16	10-7-16	10-8-16	10-9-16			
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	62.4	61.7	60.8	60.3	59.6	58.8	58.0			
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	64.1	63.5	62.6	62.2	61.6	60.8	60.0			
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	65.0	61.8	60.5	62.5	71.1	62.7	63.9			
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	65.7	65.7	64.1	70.1	71.0	67.8	68.7			
	OC Operator Review and Page Count Complete (initials)	Completion Time:	0930	1046	1048	0855	0850	0741	0817			

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

Completed by: SPYAN J CLAUDE Date: 10-29-16 Time: 0817

Reviewed by: [Signature] Date: 10/12/16 Time: 0710

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria (in. wc)	SURVEILLANCE RESULTS															
			Date:		10-10-16		10-11-16		10-12-16		10-13-16		10-14-16		10-15-16		10-16-16	
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Shift:	AM	PM	AM	PM	AM	PM	AM
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP	≤-1.0 in. wc ¹	-1.99	-2.00	-2.00	-1.99	-2.00	-1.99	-2.00	-1.99	-2.00	-1.99	-2.00	-1.99	-2.00	-1.99	-2.00	-1.99
	100 area glovebox exhaust header AP	≤-1.0 in. wc ¹	-1.93	-1.93	-1.94	-1.92	-1.94	-1.93	-1.93	-1.94	-1.93	-1.93	-1.93	-1.92	-1.93	-1.94	-1.93	-1.93
	300 area glovebox exhaust header AP	≤-1.0 in. wc ¹	-1.99	-1.98	-1.98	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.98	-1.98	-1.98	-1.98	-1.98	-1.97
	400 area glovebox exhaust header AP	≤-1.0 in. wc ¹	-1.98	-1.98	-1.98	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.97
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header AP	≤-0.05 in. wc ¹	-1.19	-1.18	-1.18	-1.19	-1.19	-1.19	-1.19	-1.19	-1.18	-1.18	-1.17	-1.18	-1.19	-1.19	-1.19	-1.17
	100 area laboratory header AP	≤-0.05 in. wc ¹	-2.20	-2.23	-2.23	-2.21	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.21	-2.23	-2.23	-2.23	-2.23	-2.21
	300 area laboratory header AP	≤-0.05 in. wc ¹	-2.20	-2.19	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.18	-2.20	-2.20	-2.20	-2.20	-2.19
	400 area laboratory header AP	≤-0.05 in. wc ¹	-2.20	-2.20	-2.21	-2.21	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.19	-2.20	-2.20	-2.20	-2.20	-2.20
4.1.1.3 4.1.2.3 ²	North basement AP	< 0.00 in. wc	-1.09	-1.10	-1.08	-1.09	-1.09	-1.08	-1.08	-1.08	-1.08	-1.08	-1.07	-1.08	-1.09	-1.08	-1.08	-1.09
	South basement AP	< 0.00 in. wc	-1.09	-1.10	-1.08	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.08	-1.09	-1.09	-1.09	-1.09	-1.09
	IRT Tunnel AP	< 0.00 in. wc	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09
			-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09	-1.09

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	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.	At least one fan/plenum is in service	At least one fan/plenum is in service	Date:	10-10-16	10-11-16	10-12-16	10-13-16	10-14-16	10-15-16	10-16-16			
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM		
				Initials:										
				Readings	FIR-801 Icon red and PDTI-831 AP > .050 or FIR-802 Icon red and PDTI-832 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	FIR-803 Icon red and PDTI-833 AP > .050 or FIR-804 Icon red and PDTI-835 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	FIR-805 Icon red and PDTI-836 AP > .050 or FIR-806 Icon red and PDTI-837 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	FIR-807 Icon red and PDTI-838 AP > .050 or FIR-808 Icon red and PDTI-839 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	FIR-811 Icon red and PDTI-840 AP > .050 or FIR-812 Icon red and PDTI-841 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	FIR-801 Icon red and PDTI-831 AP > .050 or FIR-802 Icon red and PDTI-832 AP > .050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Readings	FIR-803 Icon red and PDTI-833 AP > .050 or FIR-804 Icon red and PDTI-835 AP > .050	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.	
					Date	Weekday	Date	Weekday	Date	Weekday	Date	Weekday	Date	Weekday	Date	Weekday	Date	Weekday
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	10-10-16	Mon.	10-11-16	Tue.	10-12-16	Wed.	10-13-16	Thu.	10-14-16	Fri.	10-15-16	Sat.	10-16-16	Sun.
			PDI-803-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	10-10-16	Mon.	10-11-16	Tue.	10-12-16	Wed.	10-13-16	Thu.	10-14-16	Fri.	10-15-16	Sat.	10-16-16	Sun.
			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	10-10-16	Mon.	10-11-16	Tue.	10-12-16	Wed.	10-13-16	Thu.	10-14-16	Fri.	10-15-16	Sat.	10-16-16	Sun.
			PDI-853-2		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	10-10-16	Mon.	10-11-16	Tue.	10-12-16	Wed.	10-13-16	Thu.	10-14-16	Fri.	10-15-16	Sat.	10-16-16	Sun.
			PDI-852-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Completion Time					0730	0730	0724	0721	0721	0720	0741	0730	0727	0730	0724	0720

Note: 1 Mode 2 acceptance criteria is < 0.00 in. we
 Note: 2 SRs 4.1.2.s only apply during mode 2 in accordance with LCO 3.1.2.

Completed by: [Signature] Date 10/16/16 Time 1920 Reviewed by: [Signature] Date: 10-17-16 Time: 1400
 On-duty Supervisor

Comments: _____

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

(Page 1 of 5)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is: The FLAMMABLE GAS detector in the FSFF 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:	10/10/16	10/11/16	10/12/16	10/13/16	10/14/16	10/15/16	10/16/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Initials:	WBT	JN	JN	JN	JN	JN	JN
		Acceptance Criterion	SURVEILLANCE RESULTS (percentage)						
		NA	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 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
		Completion Time:	0745	0820	0630	0630	0630	0630	0605

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

(Page 2 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekdays:	Initials:						
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤ 2.0 & > 0' in. wc	10/10/16	10/11/16	10/12/16	10/13/16	10/14/16	10/15/16	10/16/16	
		PDI-894-2	≤ 2.0 & > 0' in. wc	.11	.05	.05	.05	.06	.56	.50	
		PDI-895-1	≤ 2.0 & > 0' in. wc	.49	.98	.48	.48	.48	.50	.50	
		PDI-895-2	≤ 2.0 & > 0' in. wc	.18	.10	.12	.12	.12	.12	.12	
		PDI-817-1	≤ 2.0 & > 0' in. wc	.57	.64	.64	.64	.64	.61	.61	
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤ 2.0 & > 0' in. wc	.37	.27	.28	.27	STBY	.28	.28	
		PDI-817-2	≤ 2.0 & > 0' in. wc	.31	.31	.31	.31	STBY	.31	.31	
		PDI-817-4	≤ 2.0 & > 0' in. wc	.32	.31	.31	.31	STBY	.32	.32	
		PDI-817-5	≤ 2.0 & > 0' in. wc	.31	.29	.29	.29	STBY	.30	.30	
		PDI-819-1	≤ 2.0 & > 0' in. wc	.50	.50	.51	.51	STBY	.51	.51	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-3	≤ 2.0 & > 0' in. wc	.51	.51	.51	.51	STBY	.51	.58	
		PDI-819-4	≤ 2.0 & > 0' in. wc	.48	.45	.45	.44	STBY	.45	.45	
		PDI-818-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	.25	STBY	STBY	
		PDI-818-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	.30	STBY	STBY	
		PDI-818-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	.26	STBY	STBY	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-818-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	.30	STBY	STBY	
		PDI-821-1	≤ 2.0 & > 0' in. wc	.05	.05	.05	.05	.49	STBY	STBY	
		PDI-821-3	≤ 2.0 & > 0' in. wc	.05	.05	.05	.05	.51	STBY	STBY	
		PDI-821-4	≤ 2.0 & > 0' in. wc	.05	.05	.05	.05	.48	STBY	STBY	

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

(Page 3 of 5)

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	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	10/10/16	10/11/16	10/12/16	10/13/16	10/14/16	10/15/16	10/16/16	10/17/16	
		PDI-822-2	≤2.0 & > 0' in. wc	Stops	Stops	Stops	Stops	Stops	Stops	Stops	Stops	Stops
		PDI-822-4	≤2.0 & > 0' in. wc	Stops	Stops	Stops	Stops	Stops	Stops	Stops	Stops	Stops
		PDI-822-5	≤2.0 & > 0' in. wc	Stops	Stops	Stops	Stops	Stops	Stops	Stops	Stops	Stops
		PDI-823-1	≤2.0 & > 0' in. wc	1.19	.14	.14	.14	.14	.14	.14	.14	.14
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	5.0	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-823-4	≤2.0 & > 0' in. wc	5.1	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-823-5	≤2.0 & > 0' in. wc	5.1	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-830-1	≤2.0 & > 0' in. wc	6.5	.70	.70	.70	.70	.70	.70	.70	.70
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc	3.1	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-830-3	≤2.0 & > 0' in. wc	2.8	.28	.28	.28	.28	.28	.28	.28	.28
		PDI-836-1	≤2.0 & > 0' in. wc	0.8	.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	8.70	.69	.69	.69	.69	.69	.69	.69	.69
		PDI-836-3	≤2.0 & > 0' in. wc	10.10	.58	.58	.58	.58	.58	.58	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc	5.9	.59	.59	.59	.59	.59	.59	.59	.59
		PDI-837-2	≤2.0 & > 0' in. wc	4.9	.46	.46	.46	.46	.46	.46	.46	.46
		PDI-837-3	≤2.0 & > 0' in. wc	1.19	.41	.41	.41	.41	.41	.41	.41	.41

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

(Page 4 of 5)

SIRs	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	10/10/16	AP	10/11/16	AP	10/12/16	AP	10/13/16	AP	10/14/16	AP	10/15/16	AP	10/16/16	AP	
		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														

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

(Page 5 of 5)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	10/10/16	10/11/16	10/12/16	10/13/16	10/14/16	10/15/16	10/16/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	AD	AD	AD	AD	AD	AD	AD	AD	AD
4.1.3.4	South Bleed off filter plenum (FI-822B) AP	PDI-811-1	≤2.0 & > 0' in. wc	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
		PDI-811-3	≤2.0 & > 0' in. wc	off	off	off	off	off	off	off	off	off
'NA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	AD	AD	AD	AD	AD	AD	AD	AD	AD
			Completion Time	0910	0813	0845	0830	0858	0916	0814	0814	0814
OC Operator Review and Page Count Complete (initials)				AD	AD	AD	AD	AD	AD	AD	AD	AD

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Richard L. Fish Date: 10/10/16 Time: 0814 Reviewed by: [Signature] Date: 10/14/16 Time: 1403

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:	10/10/16	10/11/16	10/12/16	10/13/16	10/14/16	10/15/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
			Initials:	mm	jm	jm	jm	jm	jm	mm	mm
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	Stby
		PDI-840-2	≤2.0 & > 0 in'. wc	Stby	Stby	Stby	Stby	Stby	Stby	Stby	Stby
		PDI-840-3	≤2.0 & > 0' in. wc	Stby	Stby	Stby	Stby	Stby	Stby	Stby	Stby
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	.46	.47	.47	.47	.47	.47	.47	.47
		PDI-841-2	≤2.0 & > 0' in. wc	.57	.57	.57	.57	.57	.57	.57	.57
		PDI-841-3	≤2.0 & > 0' in. wc	.51	.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	.33	
	PDI-831-2	≤2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42	.42	
	PDI-831-3	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	.36	.36	.36	.36	.36	.36	.36	.36	
	PDI-832-2	≤2.0 & > 0' in. wc	.67	.67	.67	.67	.67	.67	.67	.67	
	PDI-832-3	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	.61	
4.1.3.4	North Bleed off filter plenum (PF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	.12	.12	.12	.12	.12	.12	.12	.12
		PDI-807-2	≤2.0 & > 0' in. wc	.47	.48	.48	.48	.48	.48	.48	.48
		PDI-807-3	≤2.0 & > 0' in. wc	.48	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	North Bleed off filter plenum (PF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	wf 10/10/16 Stby OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0' in. wc	wf 10/10/16 Stby OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0' in. wc	wf 10/10/16 Stby OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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

(Page 2 of 4)

SIs	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 (FP-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	10/16/16	10/17/16	10/18/16	10/19/16	10/20/16	10/21/16	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	
		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 re-circulation exhaust filter plenum (FP852) AP	PDI-815-1	≤2.0 & > 0' in. wc																	
		PDI-815-2	≤2.0 & > 0' in. wc																	
		PDI-815-3	≤2.0 & > 0' in. wc																	
4.1.3.4	100 area glovebox exhaust filter plenum (FP853) AP	PDI-816-1	≤2.0 & > 0' in. wc																	
		PDI-816-2	≤2.0 & > 0' in. wc																	
		PDI-816-3	≤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:	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	mwa	10/13/16	10/14/16	10/17/16	10/18/16	10/19/16	10/20/16	10/21/16	10/22/16	
		PDI-812-2	≤2.0 & > 0' in. wc			.15	.33	.33	.29	.39	.15	.33	.33
		PDI-812-3	≤2.0 & > 0' in. wc			.33	.33	.33	.29	.39	.33	.33	.33
		PDI-812-4	≤2.0 & > 0' in. wc			.29	.39	.29	.39	.15	.33	.33	.33
		PDI-812-5	≤2.0 & > 0' in. wc			.39	.39	.39	.39	.39	.39	.39	.39
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc			.15	.33	.33	.29	.39	.15	.33	
		PDI-813-2	≤2.0 & > 0' in. wc			.33	.33	.33	.29	.39	.33	.33	
		PDI-813-3	≤2.0 & > 0' in. wc			.33	.33	.33	.29	.39	.33	.33	
		PDI-813-4	≤2.0 & > 0' in. wc			.29	.39	.29	.39	.15	.33	.33	.33
		PDI-813-5	≤2.0 & > 0' in. wc			.39	.39	.39	.39	.39	.39	.39	.39
4.1.3.4	HFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc			.02	.30	.32	.11	.28	.02	.30	
		PDI-865-2	≤2.0 & > 0' in. wc			.30	.32	.32	.11	.28	.30	.32	
		PDI-865-3	≤2.0 & > 0' in. wc			.32	.32	.32	.11	.28	.32	.32	
4.1.3.4	HFT supply filter plenum (HFT-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc			.11	.28	.28	.11	.28	.11	.28	
		PDI-863-2	≤2.0 & > 0' in. wc			.28	.28	.28	.11	.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:	10/11/16	10/12/16	10/13/16	10/14/16	10/15/16	10/16/16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	WUT	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
4.1.3.4	North Basement supply filter plenum (11VP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	.15	.15	.15	.15	.15	.15	.15	.15	.15
4.1.3.4	North corridor supply filter plenum (11VP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc	.45	.43	.43	.44	.44	.44	.44	.44	.44
		PDI-856-1	≤ 2.0 & > 0' in. wc	.10	.10	.10	.10	.10	.10	.10	.10	.10
		PDI-856-2	≤ 2.0 & > 0' in. wc	.53	.53	.53	.52	.52	.53	.53	.53	.53
'NA	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT								SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT								SAT
			Completion time	0800	0840	0857	0650	0650	0834	0845	0845	0845
			OC Operator Review and Page Count Complete (initials)	D KM	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan

1 Non TSR requirement

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in I.CO 3.1.3.

Completed by: WUT Date 10/16/16 Time 0850 Reviewed by: Jan Date: 10-17-16 Time: 1405

On-duty Supervisor

Comments:

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

MS&TE Calibrated Data						
Record September through April only	PI-10 Thermometer File No.:	0397746	PI-10 Thermistor File No.:	040373	V-701 Thermistor File No.:	103762
	Calibration Expiration Date:	5/18/17	Calibration Expiration Date:	7/7/17	Calibration Expiration Date:	7/6/17
	PI-11 Thermometer File No.:	042252	PI-11 Thermistor File No.:	105353	V-704 Thermistor File No.:	039743
	Calibration Expiration Date:	5/18/17	Calibration Expiration Date:	7/7/17	Calibration Expiration Date:	7/6/17

PI-10 & PI-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.	Sat.			
NA	ENSURE MS&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	10/10/16	10/11/16	10/12/16	10/13/16	10/14/16	10/15/16	10/16/16			
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	KAM	JF	JF	AS	PT	P	P			
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F										
4.3.1.3'	RECORD PI-10 room temperature	≥ 50.1 F										
4.3.1.3'	RECORD PI-11 room temperature	≥ 50.1 F										
	OC Operator Review and Page Count Complete (initials)	Completion Time:	1040	0841	0909	0820	0750	1035	1000			

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

Completed by: [Signature] Date 10-16-16 Time 1000
 Reviewed by: [Signature] Date 10-16-16 Time 1540
 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.	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP	≤-1.0 in. wc ¹	2.00	2.00	-2.00	-1.97	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	-1.99	-1.99	
	100 area glovebox exhaust header AP	≤-1.0 in. wc ¹	-1.93	-1.93	-1.94	-2.22	1.93	1.94	1.93	1.94	1.94	1.94	1.93	1.93	1.93	-1.93	-1.93	
	300 area glovebox exhaust header AP	≤-1.0 in. wc ¹	-1.96	-1.98	-2.00	-1.94	1.96	1.99	1.96	1.98	1.98	1.98	1.98	1.98	1.97	-1.98	-1.98	
	400 area glovebox exhaust header AP	≤-1.0 in. wc ¹	-1.98	-1.98	-1.98	-1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.97	1.97	1.97	-1.97	-1.97	
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header AP	≤-0.05 in. wc ¹	2.22	2.22	-0.19	-0.19	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	-1.9	-1.9	
	100 area laboratory header AP	≤-0.05 in. wc ¹	2.22	2.22	-0.19	-0.19	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	-1.9	-1.9	
	300 area laboratory header AP	≤-0.05 in. wc ¹	2.21	2.19	-0.17	-0.19	2.21	2.19	2.21	2.19	2.21	2.19	2.21	2.19	2.21	-1.9	-1.9	
	400 area laboratory header AP	≤-0.05 in. wc ¹	2.22	2.19	-0.17	-0.20	2.22	2.19	2.22	2.19	2.22	2.19	2.22	2.19	2.22	-1.9	-1.9	
4.1.1.3 4.1.2.3 ²	IFT Facility AP	≤-0.05 in. wc	2.19	2.21	-0.15	-0.15	2.19	2.21	2.19	2.21	2.19	2.21	2.19	2.21	2.19	-1.9	-1.9	
	North basement AP	< 0.00 in. wc	-0.09	-0.09	-0.07	-0.16	0.09	0.10	0.09	0.08	0.09	0.09	0.09	0.09	0.09	-0.09	-0.09	
	South basement AP	< 0.00 in. wc	2.10	2.09	-0.07	-0.10	2.10	2.09	2.10	2.09	2.10	2.09	2.10	2.09	2.10	-0.09	-0.09	
	IRT Tunnel AP	< 0.00 in. wc	2.10	2.09	-0.07	-0.10	2.10	2.09	2.10	2.09	2.10	2.09	2.10	2.09	2.10	-0.09	-0.09	

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
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
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	10-17-16	10-18-16	10-19-16	10-20-16	10-21-16	10-22-16	10-23-16						
			PDI-803-2		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	
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		100 Area	PDI-802-2		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	
			PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
			PDI-853-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		300 Area	PDI-854-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
			PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	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	
			PDI-854-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		Completion Time				0130	1920	0730	1125	0725	1425	1924	0726	1922	0732	1921	

Note: 1 Mode 2 acceptance criteria is < 0.00 in. wc

Note: 2 SRs 4.1.2.N only apply during mode 2 in accordance with LCO 3.1.2.

Completed by: [Signature] Date 10-23-16 Time 1821 Reviewed by: [Signature] Date: 10-16-16 Time: 1400

On-duty Supervisor

Comments:

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

(Page 1 of 5)

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:	10-17-16	10/18/16	10/19/16	10/20/16	10-21-16	10/22/16	10/23/16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	PT	AM	AM	AM				
		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)	≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	
	Completion Time:		0838	0755	0810	0805	0723	0700	0745	

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

(Page 2 of 5)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	10-17-16	10-18-16	10-19-16	10-20-16	10-21-16	10-22-16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
				Initials:	PT	gn	gn	gn	os	gn	gn	gn
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	.07	.07	.06	.06	.06	.06	.06	.06	.07
		PDI-894-2	≤2.0 & > 0' in. wc	.50	.50	.49	.49	.49	.49	.49	.49	.50
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & > 0' in. wc	.13	.12	.12	.12	.12	.12	.12	.12	.12
		PDI-895-2	≤2.0 & > 0' in. wc	.61	.59	.61	.61	.61	.61	.61	.61	.61
		PDI-817-1	≤2.0 & > 0' in. wc	.28	STBY	.28	.28	.28	.28	.28	.28	.27
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (PF854) AP	PDI-817-2	≤2.0 & > 0' in. wc	.31	STBY	.30	.30	.30	.30	.30	.30	.30
		PDI-817-4	≤2.0 & > 0' in. wc	.31	STBY	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0' in. wc	.30	STBY	.30	.30	.30	.30	.30	.30	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (PF858) AP	PDI-819-1	≤2.0 & > 0' in. wc	.51	STBY	.50	.50	.50	.50	.50	.50	.51
		PDI-819-3	≤2.0 & > 0' in. wc	.51	STBY	.51	.51	.51	.51	.51	.51	.50
		PDI-819-4	≤2.0 & > 0' in. wc	.42	STBY	.45	.45	.45	.45	.45	.45	.43
		PDI-818-1	≤2.0 & > 0' in. wc	STBY	.24	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (PF855) AP	PDI-818-2	≤2.0 & > 0' in. wc	STBY	.30	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0' in. wc	STBY	.27	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0' in. wc	STBY	.30	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (PF859) AP	PDI-821-1	≤2.0 & > 0' in. wc	STBY	.49	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0' in. wc	STBY	.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0' in. wc	STBY	.48	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 3 of 5)

SIs	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	10-17-16	PT	10/19/16	PM	10/20/16	PM	10/21-16	PM	10/22/16	PM	10/23/16
		PDI-822-2	≤2.0 & > 0' in. wc				1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
		PDI-822-4	≤2.0 & > 0' in. wc				.54	.54	.54	.54	.54	.54	.54	.54
		PDI-822-5	≤2.0 & > 0' in. wc				.49	.49	.49	.49	.49	.49	.49	.49
		PDI-823-1	≤2.0 & > 0' in. wc				.50	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-1	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0' in. wc				.14	.14	.14	.14	.14	.14	.14	.14
		PDI-823-4	≤2.0 & > 0' in. wc				.50	.50	.50	.50	.50	.50	.50	.50
		PDI-823-5	≤2.0 & > 0' in. wc				.50	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤2.0 & > 0' in. wc				.70	.70	.70	.70	.70	.70	.70	.70
		PDI-830-2	≤2.0 & > 0' in. wc				.31	.31	.31	.31	.31	.31	.31	.31
		PDI-830-3	≤2.0 & > 0' in. wc				.27	.27	.27	.27	.27	.27	.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	.07	.07	.07
		PDI-836-2	≤2.0 & > 0' in. wc				.70	.70	.70	.70	.70	.70	.70	.70
		PDI-836-3	≤2.0 & > 0' in. wc				.58	.58	.58	.58	.58	.58	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc				.58	.58	.58	.58	.58	.58	.58	.58
		PDI-837-2	≤2.0 & > 0' in. wc				.45	.45	.45	.45	.45	.45	.45	.45
PDI-837-3	≤2.0 & > 0' in. wc				1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42		

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

(Page 4 of 5)

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	10/17/16	PT	10/18/16	PT	10/19/16	PT	10/20/16	PT	10/21/16	PT	10/22/16	PT	10/23/16	PT	
		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 (FT-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															

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

(Page 5 of 5)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				10/17/16	10/18/16	10/19/16	10/20/16	10/21/16	10/22/16	10/23/16
				Weekday:						
				Initials:	PT	GM	GM	GM		
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	OFF	.12	OFF	OFF	OFF	OFF	OFF
'NA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT		SAT	SAT	SAT	SAT	SAT
			Completion Time	0827	0825	0840	0900	0921	0757	0801
OC Operator Review and Page Count Complete (initials)				ARJ	ARJ	ARJ	ARJ	ARJ	ARJ	ARJ

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: *[Signature]* Date: 10/13/16 Time: 0801

Reviewed by: *[Signature]* Date: 10/20/16 Time: 1400

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.	Sun.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) AP	PDI-840-1	≤2.0 & > 0' in. wc	PT	10-17-16	10-18-16	10-19-16	10-20-16	10-21-16	10-22-16	10-23-16	
		PDI-840-2	≤2.0 & > 0' in. wc	PT								
		PDI-840-3	≤2.0 & > 0' in. wc	PT								
	Vault re-circulation filter plenum (HVP-812) AP	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) AP	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) AP	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) AP	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) AP	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: Weekday: Initials:	10-17-16 Mon.	10-18-16 Tue.	10-19-16 Wed.	10-20-16 Thu.	10-21-16 Fri.	10-22-16 Sat.
4.1.3.4	North Basement exhaust filter plenum (PF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	FT	JA	JM	JA	OS	JA	JA
		PDI-829-2	≤2.0 & > 0' in. wc	.17	.17	.16	.17	.17	.17	.17
		PDI-829-3	≤2.0 & > 0' in. wc	.38	.34	.36	.36	.36	.36	.36
		PDI-833-1	≤2.0 & > 0' in. wc	.30	.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 (IVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	.50	.49	.49	.49	.49	.49	.49
		PDI-835-1	≤2.0 & > 0' in. wc	.46	.46	.46	.46	.46	.46	.46
		PDI-835-2	≤2.0 & > 0' in. wc	.18	.17	.17	.18	.18	.18	.18
		PDI-835-3	≤2.0 & > 0' in. wc	.43	.43	.43	.43	.43	.43	.43
		PDI-815-1	≤2.0 & > 0' in. wc	.41	.40	.40	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (PF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	.21	STBY	.20	.20	.20	.20	.20
		PDI-815-3	≤2.0 & > 0' in. wc	.48	STBY	.49	.49	.49	.49	.49
		PDI-815-4	≤2.0 & > 0' in. wc	.71	STBY	.42	.42	.42	.42	.42
		PDI-815-5	≤2.0 & > 0' in. wc	.42	STBY	.42	.42	.42	.42	.42
		PDI-816-1	≤2.0 & > 0' in. wc	STBY	.40	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (PF853) AP	PDI-816-2	≤2.0 & > 0' in. wc	STBY	.49	STBY	STBY	STBY	STBY	STBY
		PDI-816-3	≤2.0 & > 0' in. wc	STBY	.46	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	≤2.0 & > 0' in. wc	STBY	.46	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	STBY	.46	STBY	STBY	STBY	STBY	STBY
		PDI-816-6	≤2.0 & > 0' in. wc	STBY	.46	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	Date:						
				Weekday:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	10-17-16	10-18-16	10-19-16	10-20-16	10-21-16	10-22-16	10-23-16
			Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				PT	pm	pm	pm	as	pm	pm
				SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (PF-850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	.15	STBY	.15	.15	.15	.15	.15
		PDI-812-2	≤2.0 & > 0' in. wc	.32	STBY	.35	.35	.35	.35	.35
		PDI-812-3	≤2.0 & > 0' in. wc	.32	STBY	.35	.35	.35	.35	.35
		PDI-812-4	≤2.0 & > 0' in. wc	.29	STBY	.29	.28	.28	.28	.28
		PDI-812-5	≤2.0 & > 0' in. wc	.39	STBY	.39	.39	.39	.39	.39
4.1.3.4	200 area glovebox exhaust filter plenum (PF-851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	STBY	.10	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0' in. wc	STBY	.30	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0' in. wc	STBY	.23	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0' in. wc	STBY	.31	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0' in. wc	STBY	.41	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IPTT exhaust filter plenum (PF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	.02	.02	.02	.02	.02	.02	.02
		PDI-865-2	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.29	.29	.29
		PDI-865-3	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31
4.1.3.4	IPTT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	.11	.10	.11	.11	.11	.11	.11
		PDI-863-2	≤2.0 & > 0' in. wc	.29	.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: 10-17-16	10/18/16	10/19/16	10/20/16	10-21-16	10/22/16	10/23/16
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				PT	gm	gm	gr	as	gr	gr
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	.18	.17	.17	.17	.17	.17	.17
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc	.44	.43	.43	.43	.43	.43	.43
'NA	Combustible exclusion area around basement exhaust fan FER28 and bleed-off fans FER20A, FER20B, FER20C	PDI-856-1	≤ 2.0 & > 0' in. wc	.10	.10	.10	.10	.11	.11	.11
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0' in. wc	.53	.59	.55	.53	.53	.53	.54
			0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	Sat	SAT	SAT
			0 lb/ft ³ 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	09:53	08:10	08:25	08:45	08:01	07:30	08:10
			OC Operator Review and Page Count Complete (initials)	AR	AR	AR	AR	AR	AR	AR

Non TSR requirement

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in I.CO 3.1.3.

Completed by: [Signature] Date 10/23/16 Time 0800 Reviewed by: [Signature] Date: 10/28/16 Time: 1400
 On-duty Supervisor

Comments:

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

M&TE Calibrated Data			
Record September through April only	PI-10 Thermometer File No.:	PI-10 Thermistor File No.:	V-701 Thermistor File No.:
	Calibration Expiration Date:	Calibration Expiration Date:	Calibration Expiration Date:
	PI-11 Thermometer File No.:	PI-11 Thermistor File No.:	V-704 Thermistor File No.:
	Calibration Expiration Date:	Calibration Expiration Date:	Calibration Expiration Date:

PI-10 & PI-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature												
SIR	Description	Acceptance Criteria	Daily (September through April only)							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.	10/17/16	AS	PT	JF	JF	10/21/16	10/22/16	10/23/16		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	60.4		60.4	60.6	59.9	59.1	59.0	59.1	59.1	
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	62.5		63	63.2	62.6	61.7	61.6	61.96	61.96	
4.3.1.3'	RECORD PI-10 room temperature	≥ 50.1 F	67.2		67.4	66.7	63.5	63.5	65.4	66.4	66.4	
4.3.1.3'	RECORD PI-11 room temperature	≥ 50.1 F	66.8		66.4	66.7	62.0	60.4	63.5	65.2	65.2	
		Completion Time:	0902		0837	0835	1002	0840	0906	0930	0930	
		OC Operator Review and Page Count Complete (initials)	ARJ		F. AM	AL KHAT	JF	AM	AM	AM	AM	

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

Completed by: John O'Sullivan Date: 10/23/16 Time: 0930
 Reviewed by: [Signature] Date: 10/28/16 Time: 1400
 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.	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹	-1.98	-2.00	-2.01	-2.00	-1.99	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹	-1.91	-1.93	-1.95	-1.92	-1.93	-1.93	-1.97	-1.93	-1.92	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹	-1.97	-1.98	-2.00	-1.97	-1.97	-1.96	-1.97	-1.97	-1.97	-1.97	-1.99	-1.99	-1.99	-1.99	-1.99	
	400 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹	-1.97	-1.98	-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	
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤-0.05 in. wc ¹	-1.18	-1.19	-1.16	-1.19	-1.18	-1.19	-1.18	-1.19	-1.18	-1.19	-1.17	-1.16	-1.19	-1.19	-1.17	
	100 area laboratory header ΔP	≤-0.05 in. wc ¹	-2.23	-2.23	-2.19	-2.23	-2.22	-2.23	-2.22	-2.23	-2.22	-2.21	-2.21	-2.21	-2.23	-2.22	-2.21	
	300 area laboratory header ΔP	≤-0.05 in. wc ¹	-2.21	-2.20	-2.18	-2.20	-2.19	-2.18	-2.21	-2.19	-2.20	-2.19	-2.17	-2.17	-2.19	-2.19	-2.19	
	400 area laboratory header ΔP	≤-0.05 in. wc ¹	-2.22	-2.21	-2.18	-2.21	-2.19	-2.21	-2.19	-2.21	-2.20	-2.19	-2.18	-2.19	-2.19	-2.19	-2.19	
4.1.1.3 4.1.2.3 ²	IFIT Facility ΔP	≤-0.05 in. wc	-2.19	-2.19	-2.17	-2.19	-2.19	-2.19	-2.20	-2.20	-2.19	-2.20	-2.19	-2.18	-2.20	-2.18	-2.19	
	North basement ΔP	< 0.00 in. wc	-2.09	-2.09	-2.08	-2.09	-2.08	-2.09	-2.08	-2.09	-2.08	-2.08	-2.08	-2.09	-2.08	-2.08	-2.09	
	South basement ΔP	< 0.00 in. wc	-2.09	-2.10	-2.08	-2.10	-2.09	-2.10	-2.09	-2.10	-2.08	-2.09	-2.08	-2.10	-2.09	-2.08	-2.09	
	IRT Tunnel ΔP	< 0.00 in. wc	-1.05	-1.01	-0.93	-0.99	-0.95	-1.09	-0.87	-0.85	-1.07	-0.87	-0.85	-1.09	-0.85	-0.87	-0.85	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

Note	Date:		10/24/16		10/25/16		10/26/16		10/27/16		10/28/16		10/29/16		10/30/16					
	Weekday:	Shift:	Mon.	PM	Tue.	AM	Wed.	AM	PM	Thu.	AM	PM	Fri.	AM	PM	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.	SRs	Description	Readings	Acceptance Criteria	Initials:	u	R	AP	BC	AP	BC	R	R	u	R					
						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	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
					Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
					Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
					Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
					Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	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	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
					Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat		
					Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
Sat					Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
Sat					Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
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	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
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	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
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	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
				Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	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. 10/24/16		Tue. 10/25/16		Wed. 10/26/16		Thu. 10/27/16		Fri. 10/28/16		Sat. 10/29/16		Sun. 10/30/16	
					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	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
			PDI-803-2	PDI-803-2 < PDI-804-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
			PDI-804-2	PDI-804-2 < PDI-804-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
			PDI-853-2	PDI-853-2 < PDI-854-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
			PDI-854-2	PDI-854-2 < PDI-854-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
			PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		400 Area	PDI-852-2	PDI-852-2 < PDI-854-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
			PDI-854-2	PDI-854-2 < PDI-854-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
			Completion Time		10:10 AM	1990	0726	1990	0734	1919	0710	1930	0725	1930	0721			

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: AK Date 10/30/16 Time 1930 Reviewed by: [Signature] Date: 11/23/16 Time: 0900
 On-duty Supervisor

Comments:

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

(Page 1 of 5)

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

		Date:	10/28/16	10/29/16	10/30/16	10/31/16	11/01/16	11/02/16	11/03/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	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
		≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:		0800	0810	0857	0816	0745	0800	0800

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

(Page 2 of 5)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)												
				Date:	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16						
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.						
				Initials:	gm	gm	gm	gm	gm	PT	PT	PT	PT	PT	PT	PT
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	.06	.06	.06	.06	.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	.49	.49	.49	.49	.49
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & > 0' in. wc	.11	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12
		PDI-895-2	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61
		PDI-817-1	≤2.0 & > 0' in. wc	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28
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	.30	.30	.30	.30
		PDI-817-4	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-819-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-819-4	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45
		PDI-818-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	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	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	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	STBY	STBY	STBY
		PDI-821-1	≤2.0 & > 0' in. wc	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-821-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	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	STBY	STBY	STBY

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

(Page 3 of 5)

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	10/24/16	AM	10/25/16	AM	10/26/16	AM	10/28/16	AM	10/29/16	PT	10/30/16	PT
		PDI-822-2	≤2.0 & > 0' in. wc		.55	.54	.54	.54	.54	.54	.54	.52	.52	.52	
		PDI-822-4	≤2.0 & > 0' in. wc		.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	
		PDI-822-5	≤2.0 & > 0' in. wc		.50	.51	.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	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	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		.70	.70	.71	.71	.71	.71	.71	.71	.71		
		PDI-830-2	≤2.0 & > 0' in. wc		.31	.31	.31	.31	.31	.31	.31	.31	.31		
4.1.1.7	300 area re-circulation filter plenum (HVP-805) 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	.07		
		PDI-836-2	≤2.0 & > 0' in. wc		.70	.69	.70	.70	.70	.70	.70	.70	.70		
		PDI-836-3	≤2.0 & > 0' in. wc		.58	.52	.58	.58	.58	.58	.58	.58	.58		
		PDI-837-1	≤2.0 & > 0' in. wc		.58	.58	.58	.58	.58	.58	.58	.58	.58		
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0' in. wc		.45	.45	.45	.45	.45	.45	.45	.45	.45		
		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 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16
				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	.52	.52	.52	.52	.52	.53	.53	
		PDI-838-2	≤2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.60	.60	
		PDI-838-3	≤2.0 & > 0' in. wc	.58	.57	.57	.57	.57	.58	.58	
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	
		PDI-839-2	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.58	.58	
		PDI-839-3	≤2.0 & > 0' in. wc	.56	.56	.57	.57	.57	.58	.58	
	4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc	.15	.17	.16	.16	.15	.15	.16
			PDI-810-2	≤2.0 & > 0' in. wc	.50	.51	.50	.50	.50	.50	.51
			PDI-810-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51

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

(Page 5 of 5)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekdays: Initials:	10/24/16 Mon.	10/25/16 Tue.	10/26/16 Wed.	10/27/16 Thu.	10/28/16 Fri.	10/29/16 Sat.	10/30/16 Sun.
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
INA	Combustible exclusion area around basement exhaust fan FF829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
OC Operator Review and Page Count Complete (initials)				Completion Time	0835	0840	0852	0840	0815	0758	0746
					W KAM	W KAM	W KAM	W ATM	W KAM	W KAM	W KAM

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date: 10-30-16 Time: 0746 Reviewed by: [Signature] Date: 1/29/17 Time: 0900
On-Shift Supervisor

Comments _____

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:	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	JW	JW	JW	JW	JW	JW	JW		
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	.17	.17	.16	.16	.16	.16	.16	.17	
		PDI-829-2	≤2.0 & > 0' in. wc	.37	.37	.37	.36	.36	.36	.36	.38	
		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	.49	.49	.49	.49	.50	
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	.45	.45	.46	.45	.45	.45	.47	.46	
		PDI-835-1	≤2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17		
		PDI-835-2	≤2.0 & > 0' in. wc	.44	.43	.44	.44	.43	.43	.43		
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.41	
		PDI-815-1	≤2.0 & > 0' in. wc	.20	.20	STBY	STBY	STBY	STBY	STBY		
		PDI-815-2	≤2.0 & > 0' in. wc	.49	.49	STBY	STBY	STBY	STBY	STBY		
		PDI-815-4	≤2.0 & > 0' in. wc	.42	.42	STBY	STBY	STBY	STBY	STBY		
		PDI-815-5	≤2.0 & > 0' in. wc	.44	.43	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤2.0 & > 0' in. wc	STBY	STBY	.40	.40	.40	.40	.40	.39	
		PDI-816-2	≤2.0 & > 0' in. wc	STBY	STBY	.50	.49	.50	.50	.50	.50	
		PDI-816-4	≤2.0 & > 0' in. wc	STBY	STBY	.45	.46	.46	.46	.46	.47	
		PDI-816-5	≤2.0 & > 0' in. wc	STBY	STBY	.48	.48	.48	.48	.48	.48	

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:	10/24/16	10/25/16	10/26/16	10/27/16	10/28/16	10/29/16	10/30/16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:	pm	pm	pm	pm	pm	pm	pm	pm	PT	PT
4.1.3.4	200 area glovebox exhaust filter plenum (PF-850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	.15	.14	.15	.15	.15	.15	.15	.15	.15	.15
		PDI-812-2	≤2.0 & > 0' in. wc	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34
		PDI-812-3	≤2.0 & > 0' in. wc	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34
		PDI-812-4	≤2.0 & > 0' in. wc	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28
		PDI-812-5	≤2.0 & > 0' in. wc	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38
4.1.3.4	200 area glovebox exhaust filter plenum (PF-851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	HV exhaust filter plenum (PF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02
		PDI-865-2	≤2.0 & > 0' in. wc	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28
		PDI-865-3	≤2.0 & > 0' in. wc	.31	.32	.32	.32	.32	.32	.32	.32	.32	.32
4.1.3.4	HV supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12
		PDI-863-2	≤2.0 & > 0' in. wc	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27

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) AP	PDI-857-1	≤ 2.0 & > 0' in. wc	gm	10/24/16	Mon.	gm	10/25/16	Tue.	gm	10/26/16	Wed.	gm	10/27/16	Thu.	gm	10/28/16	Fri.	gm	10/29/16	Sat.	gm	10/30/16	Sun.
4.1.3.4	North corridor supply filter plenum (HVP-809) AP	PDI-857-2	≤ 2.0 & > 0' in. wc				.17	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16
'NA	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C	PDI-856-1	≤ 2.0 & > 0' in. wc				.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0' in. wc				.10	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	
			0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)				.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	
			0 lb/ft ³ 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	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT	
			Completion time				0822	0822	0822	0840	0820	0820	0820	0820	0820	0820	0820	0820	0820	0820	0820	0820	0820	
			OC Operator Review and Page Count Complete (initials)				W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	
			Non TSR requirement																					

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date: 10/30/16 Time: 0800 Reviewed by: [Signature] Date: 11/23/16 Time: 0900
 Comments: [Signature] 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.:	039746	PF-10 Thermistor File No.:	040373	V-701 Thermistor File No.:	103762
	Calibration Expiration Date:	5-18-17	Calibration Expiration Date:	7-7-17	Calibration Expiration Date:	7-6-17
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	105353	V-704 Thermistor File No.:	039743
	Calibration Expiration Date:	5-18-17	Calibration Expiration Date:	7-7-17	Calibration Expiration Date:	7-6-17

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)							Initials:	Completion Time:											
			Date:	Weekday:	Temp.	Temp.	Temp.	Temp.	Temp.													
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed	10-24-16	Mon.	59.2	10/25/16	Tue.	59.6	10/26/2016	Wed.	61.3	10-27-16	Thu.	61.3	10-28-16	Fri.	61.5	10/29/16	Sat.	61.5	10/30/16	Sun.
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F		JF	59.2	BF	59.6	59.1	59.0	59.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F			62.1		62.4	61.5	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F			66.3		68.1	64.8	65.4	64.8	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F			65.9		67.1	63.1	63.8	63.1	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
	OC Operator Review and Page Count Complete (initials)		0835		0815		0934	0852	0852	0830	0830	0830	0830	0830	0830	0830	0830	0830	0830	0830	0830	0830

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

Completed by: _____ Date: _____ Time: _____
 Reviewed by: _____ Date: 11/23/16 Time: 0900
 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: 10-31-16		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 ²	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc ¹																
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc ¹	-2.00	-2.00														
4.1.1.2 4.1.2.2 ²	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc ¹	-1.94	-1.94														
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc ¹	-1.99	-1.98														
4.1.1.3 4.1.2.3 ²	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc ¹	-1.98	-1.97														
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc ¹	.18	.18														
4.1.1.5 4.1.2.2 ²	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc ¹	.02	.02														
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc ¹	.18	.19														
4.1.1.3 4.1.2.3 ²	IFTT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	.19	.20														
	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	.18	.19														
4.1.1.3 4.1.2.3 ²	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	.08	.09														
	IRT Tunnel ΔP	PDT-901 or PDI-901	< 0.00 in. wc	.09	.09														
				.08	.08														

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS														
				Sat. / Unsat. (circle one)														
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 PDIs may be used if FCS is unavailable.		Weekday:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Initials:		Shift:		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 PDI-831 AP >.050 or FR-802 Icon red and PDI-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 PDI-833 AP >.050 or FR-804 Icon red and PDI-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 PDI-836 AP >.050 or FR-806 Icon red and PDI-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 PDI-838 AP >.050 or FR-808 Icon red and PDI-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 PDI-840 AP >.050 or FR-812 Icon red and PDI-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]

(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 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	Sat	Sat	
			PDI-803-2	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	Sat
			PDI-804-2	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	Sat	Sat
		100 Area	PDI-820-2	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	Sat	
			PDI-802-2	Completion Time	0719	1930																	

Note: 1 Mode 2 acceptance criteria is < 0.00 in. wc
 Note: 2 SRs 4 1 2.x only apply during mode 2 in accordance with I.CO 3.1.2.

Completed by: GT Date 10-31-16 Time 1730 Reviewed by: [Signature] Date: 11/2/16 Time: 1900
 On-duty Supervisor

Comments: _____

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

(Page 1 of 5)

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

		Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	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						
	CP-305-H (LED Reading)		0.0						
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0						
		≥ -0.1 ; $\leq +0.1$	Sat	Unsat.				Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0929						

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

(Page 2 of 5)

SRS	Description	Gauge	Acceptance Criterion	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	10.31-16								
4.1.3.4	South Corridor supply (HVP-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									
		PDI-895-2	≤2.0 & > 0' in. wc									
		PDI-817-1	≤2.0 & > 0' in. wc									
		PDI-817-2	≤2.0 & > 0' in. wc									
		PDI-817-4	≤2.0 & > 0' in. wc									
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-817-5	≤2.0 & > 0' in. wc									
		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) AP	PDI-818-2	≤2.0 & > 0' in. wc									
		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									
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 5)

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	10-31-16	PT							
		PDI-822-2	≤2.0 & > 0' in. wc			1.97						
		PDI-822-4	≤2.0 & > 0' in. wc			.52						
		PDI-822-5	≤2.0 & > 0' in. wc			.48						
		PDI-823-1	≤2.0 & > 0' in. wc			.50						
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-1	≤2.0 & > 0' in. wc			STBY						
		PDI-823-2	≤2.0 & > 0' in. wc			STBY						
		PDI-823-4	≤2.0 & > 0' in. wc			STBY						
		PDI-823-5	≤2.0 & > 0' in. wc			STBY						
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤2.0 & > 0' in. wc			.71						
		PDI-830-2	≤2.0 & > 0' in. wc			.31						
		PDI-830-3	≤2.0 & > 0' in. wc			.28						
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-1	≤2.0 & > 0' in. wc			.07						
		PDI-836-2	≤2.0 & > 0' in. wc			.70						
		PDI-836-3	≤2.0 & > 0' in. wc			.59						
		PDI-837-1	≤2.0 & > 0' in. wc			.58						
		PDI-837-2	≤2.0 & > 0' in. wc			.45						
PDI-837-3	≤2.0 & > 0' in. wc			.41								

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

(Page 4 of 5)

SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)							
			Date:	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Weekday:	Mon.						
			10-31-16							
			Initials:	PT						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	Acceptance Criteria ≤2.0 & > 0' in. wc	.52						
		PDI-838-2	≤2.0 & > 0' in. wc	.60						
		PDI-838-3	≤2.0 & > 0' in. wc	.58						
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc	.42						
		PDI-839-2	≤2.0 & > 0' in. wc	.58						
		PDI-839-3	≤2.0 & > 0' in. wc	.58						
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc	.15						
		PDI-810-2	≤2.0 & > 0' in. wc	.50						
		PDI-810-3	≤2.0 & > 0' in. wc	.51						

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & >0' in. wc ≤2.0 & >0' in. wc ≤2.0 & >0' in. wc	10-31-16								
'NA	Combustible exclusion area around basement exhaust fan FER29 and bleed-off fans FER22A, FER22B, FER22C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)									
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. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul Traville Date 10-31-16 Time 0836 Reviewed by: [Signature] Date: 11/2/16 Time: 1000
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	10-31-16									
		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	SURVEILLANCE RESULTS (in. wc)								
			Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:								
4.1.3.4	North Basement exhaust filter plenum (PF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc								
		PDI-829-2	≤2.0 & > 0' in. wc	.17							
		PDI-829-3	≤2.0 & > 0' in. wc	.37							
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤2.0 & > 0' in. wc	.30							
		PDI-833-2	≤2.0 & > 0' in. wc	.05							
		PDI-833-3	≤2.0 & > 0' in. wc	.50							
		PDI-835-1	≤2.0 & > 0' in. wc	.45							
		PDI-835-2	≤2.0 & > 0' in. wc	.18							
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	≤2.0 & > 0' in. wc	.43							
		PDI-815-1	≤2.0 & > 0' in. wc	.41							
		PDI-815-2	≤2.0 & > 0' in. wc	STBY							
		PDI-815-4	≤2.0 & > 0' in. wc	STBY							
		PDI-815-5	≤2.0 & > 0' in. wc	STBY							
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤2.0 & > 0' in. wc	STBY							
		PDI-816-2	≤2.0 & > 0' in. wc	.40							
		PDI-816-4	≤2.0 & > 0' in. wc	.50							
		PDI-816-5	≤2.0 & > 0' in. wc	.45							
		PDI-816-5	≤2.0 & > 0' in. wc	.48							

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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	PT							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc								
		PDI-812-2	≤2.0 & > 0' in. wc	.15							
		PDI-812-3	≤2.0 & > 0' in. wc	.32							
		PDI-812-4	≤2.0 & > 0' in. wc	.32							
		PDI-812-5	≤2.0 & > 0' in. wc	.29							
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	.39							
		PDI-813-2	≤2.0 & > 0' in. wc	STBY							
		PDI-813-3	≤2.0 & > 0' in. wc	STBY							
		PDI-813-4	≤2.0 & > 0' in. wc	STBY							
		PDI-813-5	≤2.0 & > 0' in. wc	STBY							
4.1.3.4	JFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	.02							
		PDI-865-2	≤2.0 & > 0' in. wc	.30							
		PDI-865-3	≤2.0 & > 0' in. wc	.32							
4.1.3.4	JFTT supply filter plenum (11VP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	.11							
		PDI-863-2	≤2.0 & > 0' in. wc	.28							

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 (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	10-31-16								
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc									
N/A	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C	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 ³ combustibles in designated exclusion area (within 15 feet of fans)									
			0 lb/ft ³ 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: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in I.CO 3.1.3.

Completed by: Paul Tessilli Date: 10-31-16 Time: 0942 Reviewed by: [Signature] Date: 11/2/16 Time: 1000
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.: 039746	PF-10 Thermistor File No.: 040373	V-701 Thermistor File No.: 103762
	Calibration Expiration Date: 5-8-17	Calibration Expiration Date: 7-7-17	Calibration Expiration Date: 7-6-17
	PF-11 Thermometer File No.: 042252	PF-11 Thermistor File No.: 105253	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 5-18-17	Calibration Expiration Date: 7-7-17	Calibration Expiration Date: 7-6-17

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.								
			Weekdays:	Initials:																	
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	10-31-16																		
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:																			
		OC Operator Review and Page Count Complete (initials):																			

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

Completed by: JH Frank Date: 10-31-16 Time: 0855
 Reviewed by: [Signature] Date: 11/2/16 Time: 1000
 On-duty Supervisor
 Comments:

November

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.:	TA 55-STP-004 R 17.1
Date of issue:	11-01-16
Working copy issued to:	ORTIZ
Working copy issued by:	CHANCE
	Certified Operations Center Operator (OCO)

OC Reviews Complete and TSR Status Board Updated

 / 11/30/16
 OCO Signature Date

Training Checklist:

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
CHANCE B	BC	11-01-16
JAVIERQUE A	BC	11-01-16
LOVATO J	BC	11-01-16
MILLER K	BC	11-01-16
MILLER M	✓	11/30/16
ORTIZ A	BC	11-01-16
PRICE R	BC	11-01-16
SEIBERT F	BC	11-01-16
SHELTZ J	BC	11-01-16
DUNSEITH A	BC	11-01-16

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
LUM R	BC	11-01-16
BAILLY K	BC	11-01-16
FORDHAM B	BC	11-01-16
FRANK J	BC	11-01-16
HEINTSCHEL D	BC	11-01-16
HÖHNER R	BC	11-01-16
HERREDA A	BC	11-01-16
IRISH M	BC	11-01-16
LANGWORTHY T	BC	11-01-16
MARTINEZ J	BC	11-01-16
SANCHEZ ANTHONY	BC	11-01-16
SANCHEZ KUGIE	BC	11-01-16
TRUJILLO P	BC	11-01-16

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.	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹																
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹																
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹																
	400 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹																
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤-0.05 in. wc ¹																
	100 area laboratory header ΔP	≤-0.05 in. wc ¹																
	300 area laboratory header ΔP	≤-0.05 in. wc ¹																
	400 area laboratory header ΔP	≤-0.05 in. wc ¹																
4.1.1.3 4.1.2.3 ²	IFTT Facility ΔP	≤-0.05 in. wc																
	North basement ΔP	< 0.00 in. wc																
	South basement ΔP	< 0.00 in. wc																
	IRT Tunnel ΔP	< 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)						
4.1.1.6	200 area re-circulation fan/plenum	FIR-801 Icon red and PDT-831 AP >.050 or FIR-802 Icon red and PDT-832 AP >.050	At least one fan/plenum is in service	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
4.1.1.6	100 area re-circulation fan/plenum	FIR-803 Icon red and PDT-833 AP >.050 or FIR-804 Icon red and PDT-835 AP >.050	At least one fan/plenum is in service	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
4.1.1.6	300 area re-circulation fan/plenum	FIR-805 Icon red and PDT-836 AP >.050 or FIR-806 Icon red and PDT-837 AP >.050	At least one fan/plenum is in service	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
4.1.1.6	400 area re-circulation fan/plenum	FIR-807 Icon red and PDT-838 AP >.050 or FIR-808 Icon red and PDT-839 AP >.050	At least one fan/plenum is in service	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
4.1.1.6	Vault re-circulation fan/plenum	FIR-811 Icon red and PDT-840 AP >.050 or FIR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM

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

(Page 1 of 5)

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:	11/1/16	11/2/16	11-3-16	11/4/16	11/5/16	11/6/16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		AM	AM	AS	AS	AS	AS
	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.4.1.1	CP-305-H (LED Reading) (DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value ≥ -0.1 ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Completion Time:	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
			08/0	0805	0853	0710	0835	0801	

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

(Page 2 of 5)

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) ΔP	PDI-894-1	≤2.0 & > 0' in. wc										
		PDI-894-2	≤2.0 & > 0' in. wc		.05	.06	.06	.06	.06	.06	.06	.06	.06
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc		.48	.48	.48	.48	.48	.48	.48	.48	.48
		PDI-895-2	≤2.0 & > 0' in. wc		.10	.10	.10	.12	.12	.12	.12	.12	.12
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc		.61	.61	.61	.66	.66	.65	.65	.65	.65
		PDI-817-2	≤2.0 & > 0' in. wc		.27	.27	.27	.27	.27	.27	.27	.27	.27
		PDI-817-3	≤2.0 & > 0' in. wc		.30	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-817-4	≤2.0 & > 0' in. wc		.31	.31	.31	.32	.32	.31	.32	.32	.32
		PDI-817-5	≤2.0 & > 0' in. wc		.28	.28	.28	.29	.29	.29	.29	.29	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-819-2	≤2.0 & > 0' in. wc		.45	.45	.45	.45	.45	.45	.45	.45	.45
		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
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
		PDI-821-2	≤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

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]
(Page 3 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:	11/1/16	11/2/16	11-3-16	11/4/16	11-5-16	11/6/16	
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc		1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
		PDI-822-2	≤2.0 & > 0' in. wc	.55	.54	.54	.54	.54	.54	.54	.54	.54
		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	.51	.51	.51	.51	.51	.51	.51
		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 (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
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤2.0 & > 0' in. wc	.70	.70	.71	.71	.71	.71	.71	.71	.71
		PDI-830-2	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-830-3	≤2.0 & > 0' in. wc	.26	.27	.27	.27	.27	.27	.27	.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	.07	.07	.07	.07
		PDI-836-2	≤2.0 & > 0' in. wc	.69	.70	.70	.70	.70	.70	.70	.70	.70
		PDI-836-3	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.58	.58	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc	.57	.58	.58	.58	.58	.58	.58	.58	.58
		PDI-837-2	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45	.45	.45
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 5)

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		11/11/16	11/21/16	11/3-16	11/4/16	11/05/16	11/06/16	
		PDI-838-2	≤2.0 & > 0' in. wc		.51	.52	.52	.52	.60	.52	.52
		PDI-838-3	≤2.0 & > 0' in. wc		.59	.60	.57	.57	.60	.57	.60
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-839-1	≤2.0 & > 0' in. wc		.57	.41	.41	.41	.41	.41	.41
		PDI-839-2	≤2.0 & > 0' in. wc		.57	.57	.57	.57	.57	.57	.57
		PDI-839-3	≤2.0 & > 0' in. wc		.57	.57	.57	.57	.57	.57	.57
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		.50	.50	.50	.50	.50	.50	.50
		PDI-810-3	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	PDI -811 -1	≤2.0 & > 0' in. wc									
		PDI -811 -2	≤2.0 & > 0' in. wc									
		PDI -811 -3	≤2.0 & > 0' in. wc									
1NA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)									
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. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: David J. [Signature] Date: 11/16/16 Time: 0830 Reviewed by: [Signature] Date: 11/16/16 Time: 0900

On-duty Supervisor

Comments

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

(Page 1 of 4)

SIRs	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	pm		11/11/16	11/2/16	11/3-16	11/4/16	11/5/16	11/6/16		
		PDI-840-2	≤2.0 & > 0 in' wc		.59	.17	.59	.17	.59	.17	.59	.17	
		PDI-840-3	≤2.0 & > 0' in. wc		.51	.51	.51	.51	.51	.51	.51	.51	
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc		pm								
		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 on 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:	11/1/16	11/2/16	11/3/16	11/4/16	11/5/16	11/6/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement exhaust filter plenum (PF-828) AP	PDI-829-1	≤ 2.0 & > 0' in. wc		.16	.16	.17	.17	.17		
		PDI-829-2	≤ 2.0 & > 0' in. wc	.36	.35	.37	.36	.36	.36		
		PDI-829-3	≤ 2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.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		
		PDI-833-2	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49		
		PDI-833-3	≤ 2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45		
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1	≤ 2.0 & > 0' in. wc	.17	.17	.18	.18	.18	.18		
		PDI-835-2	≤ 2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45		
		PDI-835-3	≤ 2.0 & > 0' in. wc	.40	.41	.41	.40	.40	.40		
4.1.3.4	100 area glovebox exhaust filter plenum (PF852) AP	PDI-815-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-815-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-815-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	100 area glovebox exhaust filter plenum (PF853) AP	PDI-815-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-816-1	≤ 2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40		
		PDI-816-2	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49		
4.1.3.4	100 area glovebox exhaust filter plenum (PF853) AP	PDI-816-4	≤ 2.0 & > 0' in. wc	.46	.46	.46	.46	.46	.46		
		PDI-816-5	≤ 2.0 & > 0' in. wc	.47	.47	.47	.47	.47	.47		

FE
853

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		11/11/16			11/21/16	11-23-16	11/24/16	11/25/16	11/26/16	
		PDI-812-2	≤2.0 & > 0' in. wc				.15	.15	.35	.15	.35	.15	
		PDI-812-3	≤2.0 & > 0' in. wc				.35	.35	.35	.35	.35	.35	.35
		PDI-812-4	≤2.0 & > 0' in. wc				.19	.29	.29	.29	.28	.28	.28
		PDI-812-5	≤2.0 & > 0' in. wc				.38	.38	.38	.38	.37	.37	.37
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	HFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc				.02	.02	.02	.02	.02	.02	
		PDI-865-2	≤2.0 & > 0' in. wc				.29	.29	.29	.29	.29	.29	
		PDI-865-3	≤2.0 & > 0' in. wc				.32	.32	.32	.32	.32	.32	
4.1.3.4	HFT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc				.11	.11	.11	.11	.11	.11	
		PDI-863-2	≤2.0 & > 0' in. wc				.22	.22	.22	.22	.22	.22	

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 (11VP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	11/1/16	11/2/16	11/3/16	11/4/16	11/5/16	11/6/16	
		PDI-857-2	≤ 2.0 & > 0' in. wc							
4.1.3.4	North corridor supply filter plenum (11VP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc							
		PDI-856-2	≤ 2.0 & > 0' in. wc							
1NA	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)							
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² 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: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in I.CO 3.1.3.

Completed by: [Signature] Date: 11/23/16 Time: 0900 Reviewed by: [Signature] Date: 11/23/16 Time: 0900
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.: 039746	PF-10 Thermistor File No.: 040373	V-701 Thermistor File No.: 103762
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/7/17	Calibration Expiration Date: 7/6/17
	PF-11 Thermometer File No.: 042252	PF-11 Thermistor File No.: 105353	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/7/17	Calibration Expiration Date: 7/6/17

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature										
SR	Description	Acceptance Criteria	Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
	Daily (September through April only)									
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	11/1/16							
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	11/2/16							
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	11/3/16							
4.3.1.3'	RECORD PF-11 room temperature	> 50.1 F	11/4/16							
		Completion Time:	11/5/16							
		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 11-06-16 Time 0845 0829
 Reviewed by: [Signature] Date 11/03/16 Time 0900
 On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRs	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.	11-7-16														
		Weekday:														
		Shift:														
		Initials:														
		Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
4.1.1.1	200 area glovebox exhaust header AP	≤-1.0 in. wc'	-2.00	2.00	1.01	1.01	-1.98	1.00	1.01	1.01	-1.93	1.00	2.00	2.00	-2.00	2.00
			-1.93	1.93	1.94	1.94	-1.91	1.91	1.93	1.93	-1.92	1.92	1.93	1.93	-1.92	1.92
4.1.2.1 ²	100 area glovebox exhaust header AP	≤-1.0 in. wc'	-1.99	1.97	1.97	1.97	-1.97	1.98	1.97	1.97	-1.97	1.98	1.98	1.98	-1.98	1.98
			-1.98	1.97	1.96	1.96	-1.97	1.97	1.97	1.97	-1.97	1.97	1.97	1.97	-1.97	1.97
4.1.1.2	200 area laboratory header AP	≤-0.05 in. wc'	-1.19	1.20	1.20	1.20	-1.20	1.20	1.20	1.20	-1.20	1.20	1.20	1.20	-1.20	1.20
			-1.22	1.25	1.21	1.21	-1.21	1.21	1.21	1.21	-1.21	1.21	1.21	1.21	-1.21	1.21
4.1.1.5	300 area laboratory header AP	≤-0.05 in. wc'	-1.19	1.20	1.20	1.20	-1.20	1.20	1.20	1.20	-1.20	1.20	1.20	1.20	-1.20	1.20
			-1.19	1.20	1.20	1.20	-1.20	1.20	1.20	1.20	-1.20	1.20	1.20	1.20	-1.20	1.20
4.1.2.2	400 area laboratory header AP	≤-0.05 in. wc'	-1.17	1.20	1.20	1.20	-1.20	1.20	1.20	1.20	-1.20	1.20	1.20	1.20	-1.20	1.20
			-1.17	1.20	1.20	1.20	-1.20	1.20	1.20	1.20	-1.20	1.20	1.20	1.20	-1.20	1.20
4.1.1.3	IFIT Facility AP	≤-0.05 in. wc	-1.09	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10
			-1.09	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10
4.1.2.3 ²	North basement AP	< 0.00 in. wc	-1.09	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10
			-1.09	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10
4.1.2.3 ²	South basement AP	< 0.00 in. wc	-1.09	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10
			-1.09	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10
4.1.2.3 ²	IRT Tunnel AP	< 0.00 in. wc	-1.09	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10
			-1.09	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10	1.10	1.10	-1.10	1.10

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:		Wed.		Thu.		Fri.		Sat.		Sun.											
4.1.1.6	200 area re-circulation fan/plenum	FIR-801 Icon red and PDT-831 AP >.050 or	At least one fan/plenum is in service	11-7-16	Mon.	AM	PM	11-8-16	Tue.	AM	PM	11-09-16	Wed.	AM	PM	11-10-16	Thu.	AM	PM	11-11-16	Fri.	AM	PM	11-12-16	Sat.	AM	PM	11-13-16	Sun.		
		FIR-802 Icon red and PDT-832 AP >.050		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
		FIR-803 Icon red and PDT-833 AP >.050 or		At least one fan/plenum is in service	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		FIR-804 Icon red and PDT-835 AP >.050			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		FIR-805 Icon red and PDT-836 AP >.050 or			At least one fan/plenum is in service	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		FIR-806 Icon red and PDT-837 AP >.050				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	FIR-807 Icon red and PDT-838 AP >.050 or	At least one fan/plenum is in service	AM			PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	FIR-808 Icon red and PDT-839 AP >.050		AM			PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	FIR-811 Icon red and PDT-840 AP >.050 or		At least one fan/plenum is in service	AM		PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	FIR-812 Icon red and PDT-841 AP >.050			AM		PM	AM	PM	AM	PM	AM	PM	AM	PM	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	Date															
					Mon. 11-7-16		Tue. 11-8-16		Wed. 11-9-16		Thu. 11-10-16		Fri. 11-11-16							
					AM	PM	AM	PM	AM	PM	AM	PM	AM	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-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
			PDI-803-2	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-804-2	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-820-2	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-802-2	Completion Time	0730	0730	0729	0729	0729	0729	0729	0730	0730	0729	0729	0729	0729	0729	0729	0729
			PDI-804-2																	
			PDI-870-2																	
			PDI-853-2																	
			PDI-854-2																	
			PDI-864-2																	

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 I CO 3 I.2.

Completed by: *[Signature]* Date: 11/23/16 Time: 0900
 Reviewed by: *[Signature]* On-duty Supervisor

Comments:

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

(Page 1 of 5)

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:	11/7/16	11/8/16	11/9/16	11-10-16	11/11/16	11/12/16	11/13/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	AM	AM	PT	AM	AM	AM
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	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
	(DET-305-3) - (CP-305H)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(LCD Reading) (LED Reading)	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:	0805	0802	0800	0816	0730	0650	0710	

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

(Page 2 of 5)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	11/2/16	11/8/16	11/9/16	11-10-16	11/16/16	11/21/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
			Initials:	PM	AM	PM	PT	W	PM	PM	Sun.
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	.06	.05	.05	.05	.05	.05	.05	.05
		PDI-894-2	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	.49
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc	.13	.04	.04	.04	.04	.04	.04	.04
		PDI-895-2	≤2.0 & > 0' in. wc	.64	.62	.62	.62	.62	.62	.62	.62
		PDI-817-1	≤2.0 & > 0' in. wc	.27	.17	.27	.27	.27	.27	.27	.27
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-2	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-817-4	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.29	.29	.29	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-4	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-819-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-818-1	≤2.0 & > 0' in. wc	.45	.44	.44	.44	.44	.44	.44	.44
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-818-4	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-818-5	≤2.0 & > 0' in. wc	.45	.44	.44	.44	.44	.44	.44	.44
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-821-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-821-4	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51

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

(Page 3 of 5)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	11/7/16	11/8/16	11/9/16	11-10-16	11/11/16	11/12/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
				Initials:	gm	gm	gm	PT	W	gm	gm
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	1.08	1.08	1.10	1.10	1.10	1.10	1.10	1.10
		PDI-822-2	≤2.0 & > 0' in. wc	.55	.55	.56	.54	.54	.54	.54	.54
		PDI-822-4	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	.49
		PDI-822-5	≤2.0 & > 0' in. wc	.51	.50	.51	.51	.51	.51	.51	.51
		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	.71	.71	.71	.71	.71	.71	.71	.71
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc	.31	.30	.30	.31	.31	.31	.31	.31
		PDI-830-3	≤2.0 & > 0' in. wc	.27	.27	.27	.28	.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 (HVP-805) AP	PDI-836-2	≤2.0 & > 0' in. wc	.70	.70	.70	.70	.70	.70	.70	.70
		PDI-836-3	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.58	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.58	.58	.58
		PDI-837-2	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45	.45
		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 5)

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	11/7/16	11/8/16	11/9/16	11/10/16	11/11/16	11/12/16	11/13/16	
		PDI-838-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-838-3	≤2.0 & > 0' in. wc	AP	AP	AP	PT	W	AP	AP	
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc	.52	.52	.52	.52	.52	.52	.52	.52
		PDI-839-2	≤2.0 & > 0' in. wc	.60	.57	.57	.59	.58	.58	.58	.58
		PDI-839-3	≤2.0 & > 0' in. wc	.56	.56	.56	.58	.58	.56	.56	.56
		PDI-839-1	≤2.0 & > 0' in. wc	.41	.42	.42	.42	.42	.41	.41	.41
		PDI-839-2	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.58	.58	.58
		PDI-839-3	≤2.0 & > 0' in. wc	.57	.57	.57	.57	.57	.57	.57	.57
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc	.15	.15	.16	.16	.16	.16	.16	
		PDI-810-2	≤2.0 & > 0' in. wc	.50	.50	.51	.51	.51	.50	.50	
		PDI-810-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.52	.51	.51	

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Weekday:	Initials:	Completion Time	OC Operator Review and Page Count Complete (initials)		
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & > 0' in. wc	11/7/16	11/8/16	11/9/16	11-10-16	11/11/16	11/12/16	11/13/16
		PDI-811-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		PDI-811-3	≤2.0 & > 0' in. wc	off	off	off	off	off	off	off
INA	Combustible exclusion area around basement exhaust fan FER29 and bleed-off fans FER22A, FER22B, FER22C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	off	off	off	off	off	off	off
				SAT	SAT	SAT	SAT	SAT	SAT	SAT
				0830	0830	0820	0735	0805	0720	0740
				UW	UJ	AVJ BK	AD JS	UJ	UJ	UJ

Non TSIR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: S. Brown Date: 11/13/16 Time: 0742 Reviewed by: [Signature] Date: 11/15/16 Time: 0900
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.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	jm	11/7/16	11/8/16	11/9/16	11/10/16	11/11/16	11/12/16	11/13/16
		PDI-840-2	≤2.0 & > 0' in. wc								
		PDI-840-3	≤2.0 & > 0' in. wc								
		PDI-841-1	≤2.0 & > 0' in. wc								
		PDI-841-2	≤2.0 & > 0' in. wc								
		PDI-841-3	≤2.0 & > 0' in. wc								
4.1.3.4	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								
		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								
		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)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement exhaust filter plenum (PF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	pm	11/9/16	11/9/16	11/9/16	11/9/16	11/10/16	11/11/16	11/12/16	11/13/16
		PDI-829-2	≤2.0 & > 0' in. wc	pm								
		PDI-829-3	≤2.0 & > 0' in. wc	pm								
		PDI-833-1	≤2.0 & > 0' in. wc	pm								
		PDI-833-2	≤2.0 & > 0' in. wc	pm								
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	pm								
		PDI-835-1	≤2.0 & > 0' in. wc	pm								
		PDI-835-2	≤2.0 & > 0' in. wc	pm								
		PDI-835-3	≤2.0 & > 0' in. wc	pm								
		PDI-815-1	≤2.0 & > 0' in. wc	pm								
4.1.3.4	100 area glovebox exhaust filter plenum (PF-852) AP	PDI-815-2	≤2.0 & > 0' in. wc	pm								
		PDI-815-4	≤2.0 & > 0' in. wc	pm								
		PDI-815-5	≤2.0 & > 0' in. wc	pm								
		PDI-816-1	≤2.0 & > 0' in. wc	pm								
		PDI-816-2	≤2.0 & > 0' in. wc	pm								
4.1.3.4	100 area glovebox exhaust filter plenum (PF-853) AP	PDI-816-4	≤2.0 & > 0' in. wc	pm								
		PDI-816-5	≤2.0 & > 0' in. wc	pm								

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:	11/7/16	11/8/16	11/9/16	11-10-16	11/11/16	11/12/16	11/13/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	gm	gm	gm	gm	PT	gm	gm	gm	gm
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0 ⁺ in. wc	.15	.15	.15	.15	.15	.15	.15	.15	.15
		PDI-812-2	≤2.0 & > 0 ⁺ in. wc	.35	.35	.35	.32	.32	.34	.34	.34	
		PDI-812-3	≤2.0 & > 0 ⁺ in. wc	.35	.35	.35	.23	.23	.34	.34	.34	
		PDI-812-4	≤2.0 & > 0 ⁺ in. wc	.29	.28	.28	.29	.28	.28	.28	.28	
		PDI-812-5	≤2.0 & > 0 ⁺ in. wc	.38	.38	.38	.38	.38	.38	.38	.38	
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	STBY
		PDI-813-2	≤2.0 & > 0 ⁺ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0 ⁺ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0 ⁺ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0 ⁺ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	HFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ⁺ in. wc	.02	.02	.02	.02	.02	.02	.02	.02	.02
		PDI-865-2	≤2.0 & > 0 ⁺ in. wc	.29	.29	.29	.29	.29	.29	.29	.29	
		PDI-865-3	≤2.0 & > 0 ⁺ in. wc	.35	.34	.35	.34	.34	.34	.34	.34	
4.1.3.4	HFT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ⁺ in. wc	.12	.12	.12	.12	.12	.12	.12	.12	.12
		PDI-863-2	≤2.0 & > 0 ⁺ in. wc	.28	.28	.28	.28	.28	.28	.28	.28	.28

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

M&TE Calibrated Data						
Record September through April only	PF-10 Thermometer File No.:	039746	PF-10 Thermistor File No.:	040373	V-701 Thermistor File No.:	103762
	Calibration Expiration Date:	5/18/17	Calibration Expiration Date:	7/7/17	Calibration Expiration Date:	7/6/17
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	105353	V-704 Thermistor File No.:	039743
	Calibration Expiration Date:	5/18/17	Calibration Expiration Date:	7/7/17	Calibration Expiration Date:	7/6/17

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature													
SIR	Description	Acceptance Criteria	Date:							Completion Time:	OC Operator Review and Page Count Complete (initials)	SAT	UNSAT
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
			Initials:	Initials:	Initials:	Initials:	Initials:	Initials:	Initials:				
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	11/7/16	11/8/16	11/9/16	11/10/16	11/11/16	11/12/16	11/13/16				
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	yk	yk	yk	AS	AS	AS	AS				
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											
			0825	0830	0818	0818	0810	1010	1007	0950			
			W	W	ARJ	ARJ	ARJ	W	W	W	W	W	

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: 11-13-16 Time: 0950
 Reviewed by: [Signature] Date: 12/2/16 Time: 0900
 On-duty Supervisor
 Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria	Date:		11-14-16		11-15-16		11-16-16		11-17-16		11-18-16		11-19-16		Sun.		
			Weekday:	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM
	Note Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.																		
	Initials:		[Handwritten initials]																
			SURVEILLANCE RESULTS (in. wc)																
4.1.1.1 4.1.2.12	PDI-814-1 or PDI-814-2	≤-1.0 in. wc'	-2.01	2.01	-1.91	2.00	-1.93	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	PDI-820-1 or PDI-820-2	≤-1.0 in. wc'	-1.94	1.84	-1.94	1.93	-1.92	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'	-1.99	1.99	-1.98	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	1.99
	PDI-864-1 or PDI-864-2	≤-1.0 in. wc'	-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
4.1.1.2 4.1.1.5 4.1.2.22	PDI-803-1 or PDI-803-2	≤-0.05 in. wc'	-1.18	0.20	0.19	0.18	-1.19	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-802-1 or PDI-802-2	≤-0.05 in. wc'	-1.22	0.21	0.23	0.20	-1.23	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-853-1 or PDI-853-2	≤-0.05 in. wc'	-1.17	0.19	0.21	0.18	-1.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
	PDI-852-1 or PDI-852-2	≤-0.05 in. wc'	-1.18	0.19	0.22	0.19	-1.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
4.1.1.3 4.1.2.32	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	-1.16	0.22	0.19	0.20	-1.17	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	-1.07	0.08	0.09	0.08	-1.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-1.07	0.07	0.09	0.08	-1.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
	PDI-901 or PDI-901	< 0.00 in. wc	-1.09	0.00	0.09	0.00	-1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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 PDI-831 AP > .050 or FR-802 Icon red and PDI-832 AP > .050	At least one fan/plenum is in service	11-14-16	11-15-16	11-16-16	11-17-16	11-18-16	11-19-16	11-20-16	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	AM	PM	AM	PM	AM	PM	AM	PM		
				Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM									
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM									
				Initials:	BC	MSW	JD	MSW	JD	MSW	JD	MSW	JD	MSW	JD	MSW	JD	MSW	JD								
				Readings	FR-801 Icon red and PDI-831 AP > .050 or FR-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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	FR-803 Icon red and PDI-833 AP > .050 or FR-804 Icon red and PDI-835 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	FR-805 Icon red and PDI-836 AP > .050 or FR-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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	FR-807 Icon red and PDI-838 AP > .050 or FR-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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	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	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	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	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	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	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	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	Sat	Sat	Sat	Sat	Sat	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	Date													
					11-14-16		11-15-16		11-16-16		11-17-16		11-18-16		11-19-16		11-20-16	
					Weekdays		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	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-814-2 < PDI-803-2 < PDI-804-2	0727	1925	0735	1931	0746	1925	0755	1929	0730	1929	0730	1919		
			PDI-803-2	PDI-820-2 < PDI-802-2 < PDI-804-2														
			PDI-804-2	PDI-870-2 < PDI-853-2 < PDI-854-2														
			PDI-820-2	PDI-864-2 < PDI-852-2 < PDI-854-2														
		100 Area	PDI-802-2															
			PDI-802-2															
			PDI-804-2															
			PDI-870-2															
		300 Area	PDI-853-2															
			PDI-853-2															
			PDI-854-2															
			PDI-864-2															
		400 Area	PDI-852-2															
			PDI-852-2															
			PDI-854-2															
			PDI-854-2															
				Completion Time	0727	1925	0735	1931	0746	1925	0755	1929	0730	1929	0730	1919		

Note: Mode 2 acceptance criteria is < 0.00 in. we
 Note: SRS 4.1.2.s only apply during mode 2 in accordance with I CO 3.1.2

Completed by: [Signature] Date 11/24/16 Time 1919 Reviewed by: [Signature] Date: 11/23/16 Time: 0900
 On-duty Supervisor

Comments:

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

(Page 1 of 5)

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:	11/14/16	11/15/16	11/16/16	11-17-16	11/18/16	11/19/16	11-20-16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	gm	gm	gm	PT	BF	F2	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 $\geq -0.1;$ $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Completion Time:		0810	0820	0800	0833	0820	0822	0811

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

(Page 2 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	11/14/16	11/15/16	11/16/16	11/17/16	11/18/16	11/19/16	11/20/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	PM	gm	AM	PT	BF	EE	PT	
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	.04	.04	.04	.04	.04	.04	.04	.04	.04
		PDI-894-2	≤2.0 & > 0' in. wc	.49	.48	.49	.49	.49	.49	.49	.49	.49
		PDI-895-1	≤2.0 & > 0' in. wc	.05	.04	.04	.04	.04	.04	.04	.04	.04
		PDI-895-2	≤2.0 & > 0' in. wc	.62	.62	.62	.62	.62	.62	.62	.62	.62
		PDI-817-1	≤2.0 & > 0' in. wc	.27	.27	.27	.27	.27	.27	.27	.27	.27
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	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	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.29	.29	.29	.29	.29
		PDI-819-1	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-819-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-4	≤2.0 & > 0' in. wc	.43	.44	.44	.44	.44	.44	.44	.43	.43
		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) ΔP	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]

(Page 3 of 5)

SRs	Description	Gauge	Acceptance Criterion	SURVEILLANCE RESULTS (in. wc)							
				Date:	11/14/16	11/15/16	11/16/16	11-17-16	11/18/16	11/19/16	11-20-16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	AP	AM	AP	PT	RF	BC	PT
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	1.10	1.12	1.12	1.12	1.12	1.12	1.12	1.12
		PDI-822-2	≤2.0 & > 0' in. wc	.54	.55	.55	.55	.55	.55	.55	.55
		PDI-822-4	≤2.0 & > 0' in. wc	.48	.48	.48	.49	.49	.49	.49	.49
		PDI-822-5	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		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	.71	.71	.71	.73	.73	.71	.71	.71
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-830-3	≤2.0 & > 0' in. wc	.27	.27	.27	.28	.28	.28	.28	.29
		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	.69	.70	.69	.69	.69	.70	.69	.69
		PDI-836-3	≤2.0 & > 0' in. wc	.57	.57	.57	.58	.58	.58	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc	.58	.59	.58	.58	.58	.58	.58	.58
		PDI-837-2	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.47	.47	.47	.46
		PDI-837-3	≤2.0 & > 0' in. wc	.41	.42	.41	.41	.41	.41	.41	.41

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Weekday:	Initials:	11/14/16	11/15/16	11/16/16	11/17/16
4.1.3.4	South Bleed off filter plenum (FE-822B) AP	PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	Mon. 11/14/16	Tue. 11/15/16	Wed. 11/16/16	Thu. 11/17/16	Fri. 11/18/16	Sat. 11/19/16	Sun. 11-20-16
'NA'	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	off	off	off	off	off	off	off
OC Operator Review and Page Count Complete (initials)				SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion Time				0855	0845	0825	0820	0850	0817	0753

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul T. Lewis Date: 11-20-16 Time: 0753 Reviewed by: _____ Date: 11/20/16 Time: 0900

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:	11/14/16 Mon.	11/15/16 Tue.	11/16/16 Wed.	11-17-16 Thu.	11/18/2016 Fri.	11-19-16 Sat.	11-20-16 Sun.	
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	gm									
		PDI-840-2	≤2.0 & > 0 in' wc	gm	.17	.17	.17	.17	.17	.17	.17	.17	.17
		PDI-840-3	≤2.0 & > 0' in. wc	gm	.58	.58	.58	.58	.58	.58	.58	.58	.58
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	gm									
		PDI-841-2	≤2.0 & > 0' in. wc	gm	.50	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-841-3	≤2.0 & > 0' in. wc	gm	STBY	STBY	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	gm									
		PDI-831-2	≤2.0 & > 0' in. wc	gm	.33	.33	.33	.33	.33	.33	.33	.33	.33
		PDI-831-3	≤2.0 & > 0' in. wc	gm	.42	.42	.42	.42	.42	.42	.42	.42	.42
	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	gm	.40	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-832-2	≤2.0 & > 0' in. wc	gm	.37	.37	.37	.37	.37	.37	.37	.37	.37
		PDI-832-3	≤2.0 & > 0' in. wc	gm	.67	.68	.68	.68	.68	.68	.68	.68	.68
North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	gm	.62	.61	.61	.61	.61	.61	.62	.62	.62	
	PDI-807-2	≤2.0 & > 0' in. wc	gm	.12	.12	.12	.12	.12	.12	.12	.12	.12	
	PDI-807-3	≤2.0 & > 0' in. wc	gm	.50	.50	.50	.50	.50	.50	.50	.50	.50	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	gm	.49	.49	.49	.49	.49	.49	.49	.49	
		PDI-809-2	≤2.0 & > 0' in. wc	gm	off	off	off	off	off	off	off	off	
		PDI-809-3	≤2.0 & > 0' in. wc	gm	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:	11/14/16	11/15/16	11/16/16	11/17/16	11/18/16	11/19/16	11/20/16
				Weekday:	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	.16	.16	.16	.16	.16	.16	.17	.17
		PDI-829-2	≤2.0 & > 0' in. wc	.36	.35	.36	.37	.37	.38	.38	.38
		PDI-829-3	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤2.0 & > 0' in. wc	.67	.67	.67	.67	.67	.67	.67	.67
		PDI-833-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-833-3	≤2.0 & > 0' in. wc	.46	.46	.46	.46	.46	.46	.46	.46
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-1	≤2.0 & > 0' in. wc	.18	.18	.18	.18	.18	.18	.18	.18
		PDI-835-2	≤2.0 & > 0' in. wc	.43	.44	.43	.43	.43	.43	.43	.43
		PDI-835-3	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	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-815-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	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	.40	.40	.40	.40
		PDI-816-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-816-3	≤2.0 & > 0' in. wc	.47	.47	.47	.47	.47	.47	.47	.47
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.48	.48	.48
		PDI-816-5	≤2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.48	.48	.48
		PDI-816-6	≤2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.48	.48	.48

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)								
					11/14/16 Mon.	11/15/16 Tue.	11/16/16 Wed.	11/17/16 Thu.	11/18/16 Fri.	11-19-16 Sat.	11-20-16 Sun.		
4.1.3.4	200 area glovebox exhaust filter plenum (PF850) ΔP	PDI-812-1	≤2.0 & > 0 ¹ in. wc	gr	.15	.15	.15	.15	.15	.15	.15	.15	
		PDI-812-2	≤2.0 & > 0 ¹ in. wc		.35	.35	.35	.32	.34	.33	.33	.32	
		PDI-812-3	≤2.0 & > 0 ¹ in. wc		.35	.35	.35	.32	.34	.32	.32	.32	
		PDI-812-4	≤2.0 & > 0 ¹ in. wc		.28	.29	.29	.29	.29	.29	.29	.29	.30
		PDI-812-5	≤2.0 & > 0 ¹ in. wc		.38	.38	.38	.39	.39	.39	.39	.39	.39
4.1.3.4	200 area glovebox exhaust filter plenum (PF851) ΔP	PDI-813-1	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-2	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-3	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-4	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-5	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	IPIV exhaust filter plenum (PF-865) ΔP	PDI-865-1	≤2.0 & > 0 ¹ in. wc		.02	.02	.02	.01	.02	.02	.02	.02	
		PDI-865-2	≤2.0 & > 0 ¹ in. wc		.28	.28	.28	.29	.29	.29	.29	.29	
		PDI-865-3	≤2.0 & > 0 ¹ in. wc		.32	.32	.32	.31	.34	.33	.33	.34	
4.1.3.4	IPIV supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ¹ in. wc		.12	.06	.04	.04	.05	.04	.04	.04	
		PDI-863-2	≤2.0 & > 0 ¹ in. wc		.28	.27	.27	.28	.28	.29	.29	.29	

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

(Page 4 of 4)

SIRs	Description	Gauge	Acceptance Criterion	SURVEILLANCE RESULTS							
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤2.0 & > 0' in. wc	11/14/16	11/15/16	11/16/16	11-17-16	11/18/16	11-19-16	11-20-16	
		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								
INA	Combustible exclusion area around basement exhaust fan FER28 and bleed-off fans FER20A, FER20B, FER20C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ 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	0840	0835	0815	0834	0828	0815	0811
				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>

1 Non TSR requirement

Note: SIRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: *[Signature]* Date: 11-20-16 Time: 0811

Date: 11/23/16 Time: 0900

Off-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.: 039746	PF-10 Thermistor File No.: 040373	V-701 Thermistor File No.: 103762
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/7/17	Calibration Expiration Date: 7/6/17
	PF-11 Thermometer File No.: 042252	PF-11 Thermistor File No.: 105353	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/7/17	Calibration Expiration Date: 7/6/17

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.	Sat.		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	11/14/16	11/15/16	11/16/16	11/17/16	11/18/16	11/19/16			
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	56.4	58.5	58.92	60.7	59.9	60.6			61.5
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	53.3	53.2	53.63	53.4	51.7	50.6			50.2
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	62.7	63.3	63.56	63.2	61.3	60.6			62.0
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	60.4	64.5	61.91	71.8	66.1	64.6			63.5
	OC Operator Review and Page Count Complete (initials)	Completion Time:	0832	0901	0841	0822	0834	0808			0839
			APD AC	APD	W A	W A	APD AC	APD AC			APD AC

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

Completed by: Bryan Chavez Date: 11-20-16 Time: 0939

Reviewed by: [Signature] Date: 11/23/16 Time: 0800

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.	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP	≤-1.0 in. wc'	-1.99	-1.99	-2.01	-1.97	-1.99	-1.99	-1.99	-2.00	-1.99	-1.99	-2.00	-1.99	-1.99	-1.99	-1.99	
	100 area glovebox exhaust header AP	≤-1.0 in. wc'	-1.93	-1.94	-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	
	300 area glovebox exhaust header AP	≤-1.0 in. wc'	-1.98	-1.97	-1.98	-1.99	-1.98	-1.99	-1.98	-1.98	-1.98	-1.97	-1.98	-1.98	-1.98	-1.98	-1.99	
	400 area glovebox exhaust header AP	≤-1.0 in. wc'	-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	
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header AP	≤-0.05 in. wc'	-0.19	-0.19	-0.19	-0.18	-0.19	-0.18	-0.18	-0.18	-0.18	-0.19	-0.19	-0.19	-0.18	-0.18	-0.17	
	100 area laboratory header AP	≤-0.05 in. wc'	-0.24	-0.24	-0.23	-0.23	-0.24	-0.23	-0.22	-0.22	-0.22	-0.23	-0.23	-0.21	-0.21	-0.21		
	300 area laboratory header AP	≤-0.05 in. wc'	-0.20	-0.25	-0.20	-0.19	-0.21	-0.19	-0.19	-0.19	-0.19	-0.20	-0.20	-0.20	-0.18	-0.18	-0.18	
	400 area laboratory header AP	≤-0.05 in. wc'	-0.20	-0.25	-0.20	-0.20	-0.21	-0.20	-0.19	-0.19	-0.19	-0.20	-0.20	-0.20	-0.19	-0.19	-0.18	
4.1.1.3 4.1.2.3 ²	IFIT Facility AP	≤-0.05 in. wc	-0.17	-0.18	-0.15	-0.14	-0.16	-0.14	-0.14	-0.14	-0.14	-0.17	-0.16	-0.16	-0.16	-0.16	-0.11	
	North basement AP	<0.00 in. wc	-0.10	-0.11	-0.10	-0.10	-0.10	-0.09	-0.09	-0.09	-0.10	-0.10	-0.10	-0.10	-0.09	-0.09	-0.09	
	South basement AP	<0.00 in. wc	-0.10	-0.12	-0.11	-0.10	-0.11	-0.09	-0.10	-0.10	-0.10	-0.11	-0.10	-0.10	-0.09	-0.09	-0.09	
	IRT Tunnel AP	<0.00 in. wc	-0.11	-0.124	-0.110	-0.103	-0.102	-0.093	-0.096	-0.096	-0.110	-0.107	-0.107	-0.104	-0.099	-0.099	-0.094	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

Note	Date:	11/21/16		11/22/16		11/23/16		11/24/16		11/25/16		11/26/16		11/27/16			
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
Readings	Acceptance Criteria	SURVEILLANCE RESULTS 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.	At least one fan/plenum is in service	FR-801 Icon red and PDT-831 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		FR-802 Icon red and PDT-832 AP >.050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		FR-803 Icon red and PDT-833 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FR-804 Icon red and PDT-835 AP >.050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		FR-805 Icon red and PDT-836 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
4.1.1.6	At least one fan/plenum is in service	FR-806 Icon red and PDT-837 AP >.050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		FR-807 Icon red and PDT-838 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		FR-808 Icon red and PDT-839 AP >.050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		FR-811 Icon red and PDT-840 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		FR-812 Icon red and PDT-841 AP >.050	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	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 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	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-803-2		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		
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	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		
		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		
			PDI-853-2		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		
		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		
			PDI-852-2		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		
Completion Time					0757	1936	0734	1920	0723	1930	0717	1928	0728	1915	0720	1926		

Note: 1 Mode 2 acceptance criteria is < 0.00 in. wc
 Note: 2 SRs 4.1.2.x only apply during mode 2 in accordance with I.CO 3.1.2.

Completed by: [Signature] Date 11/27/16 Time 1926 Reviewed by: [Signature] Date: 12/2/16 Time: 0900

On-duty Supervisor

Comments:

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

(Page 1 of 5)

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).

Description / Gauge	Date:	11/21/16	11/22/16	11/23/16	11/24/16	11/25/16	11/26/16	11/27/16
	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Initials:	GM	AM	AM	AM	AM	AM	AM	AM
SURVEILLANCE RESULTS (percentage)								
Flammable Gas Channel Check	Acceptance Criteria							
SR 4.4.1.1	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DET-305-3 (LCD Reading)								
CP-305-H (LED Reading)								
(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	≥ -0.1 ; $\leq +0.1$	Sat/Unsat.	Sat/Unsat.	Sat/Unsat.	Sat/Unsat.	Sat/Unsat.	Sat/Unsat.	Sat/Unsat.
	Completion Time:	0815	0815	0800	0757	0901	0820	0910

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

(Page 2 of 5)

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	11/21/16	gjm	11/22/16	gjm	11/23/16	gjm	11/24/16	gjm	11/25/16	gjm	11/26/16	gjm	11/27/16	gjm
		PDI-894-2	≤2.0 & > 0' in. wc			.04	.48	.48	.04	.48	.04	.05	.48	.04	.48	.05	.48
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc			.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04
		PDI-895-2	≤2.0 & > 0' in. wc			.59	.59	.59	.59	.59	.60	.60	.60	.60	.60	.60	.60
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc			.17	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0' in. wc			.79	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0' in. wc			.31	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0' in. wc			.29	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-1	≤2.0 & > 0' in. wc			.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF858) ΔP	PDI-819-3	≤2.0 & > 0' in. wc			.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0' in. wc			.45	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-1	≤2.0 & > 0' in. wc			STBY	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23
		PDI-818-2	≤2.0 & > 0' in. wc			STBY	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-818-4	≤2.0 & > 0' in. wc			STBY	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-818-5	≤2.0 & > 0' in. wc			STBY	.29	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-821-1	≤2.0 & > 0' in. wc			STBY	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49
		PDI-821-3	≤2.0 & > 0' in. wc			STBY	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-821-4	≤2.0 & > 0' in. wc			STBY	.46	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47
		PDI-821-4	≤2.0 & > 0' in. wc			STBY	.46	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47

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

(Page 3 of 5)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	11/21/16	11/22/16	11/23/16	11/24/16	11/25/16	11/26/16	11/27/16	
				Weekdays:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	AM	AP	AM	PC	DA	DA	DA	DA
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	1.12	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0' in. wc	.56	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0' in. wc	.49	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0' in. wc	.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-1	≤2.0 & > 0' in. wc	STBY	.13	.14	.14	.14	.13	.14	.14	.14
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	STBY	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-823-4	≤2.0 & > 0' in. wc	STBY	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-823-5	≤2.0 & > 0' in. wc	STBY	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-830-1	≤2.0 & > 0' in. wc	.71	.70	.71	.71	.71	.71	.70	.70	.70
		PDI-830-2	≤2.0 & > 0' in. wc	.31	.32	.31	.32	.32	.31	.31	.31	.31
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-830-3	≤2.0 & > 0' in. wc	.18	.28	.28	.28	.28	.28	.28	.28	.28
		PDI-836-1	≤2.0 & > 0' in. wc	.02	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-836-2	≤2.0 & > 0' in. wc	.69	.69	.69	.69	.69	.69	.69	.69	.69
		PDI-836-3	≤2.0 & > 0' in. wc	.52	.57	.56	.57	.57	.57	.57	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc	.52	.58	.58	.58	.58	.58	.56	.58	.58
4.1.1.7	300 area re-circulation filter plenum (IIVP-806) AP	PDI-837-2	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45	.45	.45
		PDI-837-3	≤2.0 & > 0' in. wc	.41	.42	.41	.42	.42	.41	.42	.42	.41

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

(Page 4 of 5)

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	11/21/16	11/22/16	11/23/16	11/24/16	11/25/16	11/26/16	11/27/16	
		'PDI-838-2	≤2.0 & > 0' in. wc	11/21/16 52	52	52	52	52	52	52	
		'PDI-838-3	≤2.0 & > 0' in. wc	57	59	59	59	60	59	59	
	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	11/21/16 56	56	56	57	57	57	57	
		'PDI-839-2	≤2.0 & > 0' in. wc	11/21/16 41	41	41	41	41	41	41	
		'PDI-839-3	≤2.0 & > 0' in. wc	57	57	57	57	57	57	57	
	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc	15	off	15	15	15	15	15	
		'PDI-810-2	≤2.0 & > 0' in. wc	50	off	50	50	50	50	50	
		'PDI-810-3	≤2.0 & > 0' in. wc	51	off	51	51	51	51	51	

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

(Page 5 of 5)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (In. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc	11/21/16 Mon. JUL	11/22/16 Tue. JUL	11/23/16 Wed. JUL	11/24/16 Thu. DZ	11/25/16 Fri. DH	11/26/16 Sat. DH	11/27/16 Sun. DH	
'NA	Combustible exclusion area around basement exhaust fan FER29 and bleed-off fans FER22A, FER22B, FER22C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	11/21/16 Mon. OFF	11/22/16 Tue. .51	11/23/16 Wed. OFF	11/24/16 Thu. OFF	11/25/16 Fri. OFF	11/26/16 Sat. OFF	11/27/16 Sun. OFF	
OC Operator Review and Page Count Complete (initials)				Completion Time	0915	0840	0830	0822	0858	0813	0811
				On-duty Supervisor	JUL	KAM &	APJ	APJ EC	DH	JUL	APJ

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: *[Signature]* Date 11/27/16 Time 0825 Reviewed by: *[Signature]* Date: 12/1/16 Time: 0900

Comments: *[Signature]* 11/21/16 Storage bay, tool box, and metal material in combustible area NEW NEW FF 829. Notification Ops.

11/26/16 YELLOW CLAMP IN DENURATOR STAGE OF HVP-808 DH

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:	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	11/21/16 Mon.	Apr	11/22/16 Tue.	Apr	11/23/16 Wed.	OH	11/24/16 Thu.	OH	11/25/16 Fri.	OH	11/26/16 Sat.	OH	11/27/16 Sun.	OH
		PDI-840-2	≤2.0 & > 0' in. wc	.17	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0' in. wc	.58	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	.51	STBY	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45
		PDI-841-2	≤2.0 & > 0' in. wc	.55	STBY	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55
		PDI-841-3	≤2.0 & > 0' in. wc	.51	STBY	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
	4.1.3.4	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0' in. wc	.33	STBY	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33
			PDI-831-2	≤2.0 & > 0' in. wc	.42	STBY	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42
			PDI-831-3	≤2.0 & > 0' in. wc	.40	STBY	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39
200 area re-circulation filter plenum (HVP-802) ΔP		PDI-832-1	≤2.0 & > 0' in. wc	.37	STBY	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	
		PDI-832-2	≤2.0 & > 0' in. wc	.68	STBY	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	
		PDI-832-3	≤2.0 & > 0' in. wc	.61	STBY	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	
North Bleed off filter plenum (PF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	.11	OFF	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11		
	PDI-807-2	≤2.0 & > 0' in. wc	.50	OFF	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50		
	PDI-807-3	≤2.0 & > 0' in. wc	.51	OFF	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50		
4.1.3.4	North Bleed off filter plenum (PF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	OFF	.07	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	.51	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	.51	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.	
4.1.3.4	North Basement exhaust filter plenum (PF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	11/24/16	.16	.16	.16	.16	.16	.16	.16	.16
		PDI-829-2	≤2.0 & > 0' in. wc	11/24/16	.36	.33	.35	.36	.36	.36	.36	.35
		PDI-829-3	≤2.0 & > 0' in. wc	11/24/16	.30	.29	.29	.30	.30	.30	.30	.29
		PDI-833-1	≤2.0 & > 0' in. wc	11/24/16	.27	.27	.27	.27	.27	.27	.27	.27
		PDI-833-2	≤2.0 & > 0' in. wc	11/24/16	.50	.50	.50	.50	.50	.50	.50	.49
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	11/24/16	.45	.45	.45	.45	.45	.45	.45	.45
		PDI-835-1	≤2.0 & > 0' in. wc	11/24/16	.17	.17	.17	.17	.18	.18	.18	.18
		PDI-835-2	≤2.0 & > 0' in. wc	11/24/16	.45	.44	.44	.44	.45	.45	.44	.44
		PDI-835-3	≤2.0 & > 0' in. wc	11/24/16	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-815-1	≤2.0 & > 0' in. wc	11/24/16	.57	.70	.70	.70	.80	.80	.80	.80
4.1.3.4	100 area glovebox exhaust filter plenum (PF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	11/24/16	.57	.48	.48	.48	.48	.48	.48	.48
		PDI-815-4	≤2.0 & > 0' in. wc	11/24/16	.57	.43	.42	.42	.41	.41	.41	.41
		PDI-815-5	≤2.0 & > 0' in. wc	11/24/16	.57	.44	.44	.44	.44	.44	.44	.42
		PDI-816-1	≤2.0 & > 0' in. wc	11/24/16	.40	.57	.57	.57	.57	.57	.57	.57
		PDI-816-2	≤2.0 & > 0' in. wc	11/24/16	.50	.57	.57	.57	.57	.57	.57	.57
4.1.3.4	100 area glovebox exhaust filter plenum (PF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	11/24/16	.46	.57	.57	.57	.57	.57	.57	.57
		PDI-816-5	≤2.0 & > 0' in. wc	11/24/16	.47	.57	.57	.57	.57	.57	.57	.57

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

(Page 3 of 4)

SIRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)							Sun.
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
			Date:	11/21/16	11/22/16	11/23/16	11/24/16	11/25/16	11/26/16	11/27/16
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	AM	AM	AM	AM	AM	AM	AM
			Acceptance Criteria							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0 ⁺ in. wc	.15	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0 ⁺ in. wc	.35	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0 ⁺ in. wc	.35	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0 ⁺ in. wc	.28	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0 ⁺ in. wc	.38	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	STBY	.69	.09	.09	.09	.09	.09
		PDI-813-2	≤2.0 & > 0 ⁺ in. wc	STBY	.30	.29	.29	.29	.29	.29
		PDI-813-3	≤2.0 & > 0 ⁺ in. wc	STBY	.22	.22	.22	.22	.22	.22
		PDI-813-4	≤2.0 & > 0 ⁺ in. wc	STBY	.31	.31	.31	.31	.31	.31
		PDI-813-5	≤2.0 & > 0 ⁺ in. wc	STBY	.40	.40	.40	.40	.40	.40
4.1.3.4	HPI exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ⁺ in. wc	.02	.02	.02	.02	.02	.02	.02
		PDI-865-2	≤2.0 & > 0 ⁺ in. wc	.29	.29	.29	.29	.29	.29	.29
		PDI-865-3	≤2.0 & > 0 ⁺ in. wc	.35	.34	.34	.35	.35	.34	.31
4.1.3.4	HPI supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ⁺ in. wc	.04	.04	.04	.04	.04	.04	.04
		PDI-863-2	≤2.0 & > 0 ⁺ in. wc	.29	.28	.28	.28	.29	.29	.29

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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	Initials:	Date:	Weekday:	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' in. wc	Jan	11/21/16	Mon.	11/22/16	Tue.	11/23/16	Wed.	11/24/16	Thu.	11/25/16	Fri.	11/26/16	Sat.	11/27/16	Sun.
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤2.0 & > 0' in. wc	Jan														
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤2.0 & > 0' in. wc	Jan														
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-2	≤2.0 & > 0' in. wc	Jan														
'NA	Combustible exclusion area around basement exhaust fan FER28 and bleed-off fans FER20A, FER20B, FER20C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)															
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² 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: SRS 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in I.CO 3.1.3.

Completed by: *[Signature]* Date: 11/27/16 Time: 0825 Reviewed by: *[Signature]* Date: 12/1/16 Time: 0900

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.:	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	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.	11-21-16	11-22-16	11-23-16	11-24-16	11-25-16	11-26-16	11-27-16			
4.3.1.1'	RECORD fire water storage tank V-701 temperature	> 42.1 F	JF	JK	JF	ARJ	ARJ	ARJ	ARJ	ARJ	ARJ	ARJ
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										
			0910	0846	0802	0855	0855	1035	1040	1030		
			ARJ	ARJ	ARJ	ARJ	ARJ	ARJ	ARJ	ARJ	ARJ	ARJ

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: 11-27-16 Time: 1030
 Reviewed by: [Signature] Date: 12-2-16 Time: 0900
 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 ²	200 area glovebox exhaust header AP	≤-1.0 in. wc ¹ PDI-814-1 or PDI-814-2	11/25/16	1.98	1.99	2.00	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	
	100 area glovebox exhaust header AP	≤-1.0 in. wc ¹ PDI-820-1 or PDI-820-2	11/29/16	1.91	1.93	1.93	1.92	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 ¹ PDI-870-1 or PDI-870-2	11/29/16	1.96	1.98	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	
	400 area glovebox exhaust header AP	≤-1.0 in. wc ¹ PDI-864-1 or PDI-864-2	11/29/16	1.94	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 ²	200 area laboratory header AP	≤-0.05 in. wc ¹ PDI-803-1 or PDI-803-2	11/29/16	0.16	0.18	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
	100 area laboratory header AP	≤-0.05 in. wc ¹ PDI-802-1 or PDI-802-2	11/29/16	0.24	0.24	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	
	300 area laboratory header AP	≤-0.05 in. wc ¹ PDI-853-1 or PDI-853-2	11/29/16	0.17	0.20	0.19	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	≤-0.05 in. wc ¹ PDI-852-1 or PDI-852-2	11/29/16	0.17	0.21	0.19	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 ²	IFIT Facility AP	≤-0.05 in. wc PDI-865-4 or PDI-865-5	11/29/16	0.15	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	
	North basement AP	< 0.00 in. wc PDI-804-1 or PDI-804-2	11/29/16	0.10	0.09	0.08	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	11/29/16	0.11	0.10	0.08	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	11/29/16	0.12	0.10	0.08	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]

(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 PDI's may be used if FCS is unavailable.				Date:	1/25/16	1/29/16	1/30/16						
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Shift:	AM	PM	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	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		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	Unsat	Unsat
	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		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	Unsat	Unsat
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		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	Unsat	Unsat
	400 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		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	Unsat	Unsat
	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		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	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)								
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	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
			PDI-803-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	AM	AM	AM	AM	AM	AM	AM	
			PDI-804-2	PDI-870-2 < PDI-853-2 < PDI-854-2	PM	PM	PM	PM	PM	PM	PM	PM	
		100 Area	PDI-820-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	AM	AM	AM	AM	AM	AM	AM	AM
			PDI-802-2	Completion Time	AM	AM	AM	AM	AM	AM	AM	AM	AM
300 Area	400 Area	PDI-870-2		AM	AM	AM	AM	AM	AM	AM	AM		
		PDI-853-2		PM	PM	PM	PM	PM	PM	PM	PM		

Note: 1 Mode 2 acceptance criteria is < 0.00 m. wc
 Note: 2 SRs 4.1.2.x only apply during mode 2 in accordance with I.CO 3.1.2.

Completed by: Pflw Date: 11/30/16 Time: 1921 Reviewed by: [Signature] Date: 12/1/16 Time: 0900
 On-duty Supervisor

Comments: _____

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

(Page 1 of 5)

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:	11/28/15	11/29/16	11/30/16				
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	AM	AM				
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					
	CP-305-H (LED Reading)	0.0	0.0	0.0					
	(DET-305-3) - (CP-305H)	0.0	0.0	0.0					
	(LCD Reading) (LED Reading)	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	
	Completion Time:	0835	0820	0800					

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

(Page 2 of 5)

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	11/28/16	JM	11/29/16	JM	11/30/16				
		PDI-894-2	≤ 2.0 & > 0' in. wc			.04	.48	.04				
		PDI-895-1	≤ 2.0 & > 0' in. wc			.04	.04	.04				
		PDI-895-2	≤ 2.0 & > 0' in. wc			.61	.61	.61				
		PDI-817-1	≤ 2.0 & > 0' in. wc			STBY	STBY	STBY				
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	≤ 2.0 & > 0' in. wc			STBY	STBY	STBY				
		PDI-817-4	≤ 2.0 & > 0' in. wc			STBY	STBY	STBY				
		PDI-817-5	≤ 2.0 & > 0' in. wc			STBY	STBY	STBY				
		PDI-819-1	≤ 2.0 & > 0' in. wc			STBY	STBY	STBY				
		PDI-819-3	≤ 2.0 & > 0' in. wc			STBY	STBY	STBY				
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-4	≤ 2.0 & > 0' in. wc			STBY	STBY	STBY				
		PDI-818-1	≤ 2.0 & > 0' in. wc			.23	.23	.23				
		PDI-818-2	≤ 2.0 & > 0' in. wc			.30	.30	.30				
		PDI-818-4	≤ 2.0 & > 0' in. wc			.26	.25	.26				
		PDI-818-5	≤ 2.0 & > 0' in. wc			.30	.29	.30				
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤ 2.0 & > 0' in. wc			.49	.49	.49				
		PDI-821-3	≤ 2.0 & > 0' in. wc			.51	.51	.51				
		PDI-821-4	≤ 2.0 & > 0' in. wc			.48	.48	.48				

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

(Page 3 of 5)

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.
				11/28/16	11/29/16	11/30/16					
				Initials:	AM	AM	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				
		PDI-822-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY					
		PDI-822-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY					
		PDI-822-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY					
		PDI-823-1	≤2.0 & > 0' in. wc	.14	.14	.14					
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	.50	.50	.50					
		PDI-823-4	≤2.0 & > 0' in. wc	.51	.51	.51					
		PDI-823-5	≤2.0 & > 0' in. wc	.51	.52	.52					
		PDI-830-1	≤2.0 & > 0' in. wc	.70	.70	.70					
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc	.32	.32	.32					
		PDI-830-3	≤2.0 & > 0' in. wc	.28	.28	.28					
		PDI-836-1	≤2.0 & > 0' in. wc	.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	.69	.69					
		PDI-836-3	≤2.0 & > 0' in. wc	.57	.57	.57					
		PDI-837-1	≤2.0 & > 0' in. wc	.57	.57	.57					
		PDI-837-2	≤2.0 & > 0' in. wc	.45	.45	.45					
		PDI-837-3	≤2.0 & > 0' in. wc	.42	.42	.42					

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

(Page 4 of 5)

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	11/28/16	pm	11/29/16	pm	11/30/16				
		PDI-838-2	≤2.0 & > 0' in. wc			.51	.59	.56				
		PDI-838-3	≤2.0 & > 0' in. wc			.41	.57	.56				
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc			.57	.56	.17				
		PDI-839-2	≤2.0 & > 0' in. wc			.51	.57	.56				
		PDI-839-3	≤2.0 & > 0' in. wc			.51	.57	.56				
	4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc			.16	.16				
			PDI-810-2	≤2.0 & > 0' in. wc			.51	.51				
			PDI-810-3	≤2.0 & > 0' in. wc			.51	.51	.52			

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday:	Mon. 11/28/16	Tue. 11/29/16	Wed. 11/30/16	Thu.	Fri.	Sat.	Sun.
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & > 0' in. wc		off	off	off				
		PDI-811-2	≤2.0 & > 0' in. wc	off	off	off					
		PDI-811-3	≤2.0 & > 0' in. wc	off	off	off					
INA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)								
OC Operator Review and Page Count Complete (initials)				Completion Time	0830	0850	0830				

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date 12/1/16 Time 0750 Reviewed by: [Signature] Date: 12/1/16 Time: 0900
 On-duty Supervisor
 Comments 1/28/16 found Fiberglass ladder unattached near FF 829 column B-9. Modified Ops. - Ladder Verified to be in use for 2/28/17

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

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criterion	SURVEILLANCE RESULTS (in. wc)						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				11/28/16	11/29/16	11/30/16				
				Weekday:						
				Initials:	gm	gm	gm			
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY				
		PDI-840-2	≤2.0 & > 0 in' wc	STBY	STBY	STBY				
		PDI-840-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY				
	PDI-841-1	≤2.0 & > 0' in. wc	.45	.45	.45					
	PDI-841-2	≤2.0 & > 0' in. wc	.56	.56	.56					
	PDI-841-3	≤2.0 & > 0' in. wc	.51	.51	.51					
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	.41	.41	.41					
	PDI-831-3	≤2.0 & > 0' in. wc	.39	.39	.39					
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	.36	.36	.36					
	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	.11	.11	.12				
		PDI-807-2	≤2.0 & > 0' in. wc	.50	.50	.50				
		PDI-807-3	≤2.0 & > 0' in. wc	.51	.51	.51				
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:	11/28/16	11/29/16	11/30/16	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Mon.	Tue.	Wed.					
			Initials:	gn	gn	gn						
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	.16	.16	.16	.16					
		PDI-829-2	≤2.0 & > 0' in. wc	.34	.34	.35						
		PDI-829-3	≤2.0 & > 0' in. wc	.29	.29	.29						
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					
		PDI-833-2	≤2.0 & > 0' in. wc	.49	.49	.49						
		PDI-833-3	≤2.0 & > 0' in. wc	.45	.45	.44						
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-1	≤2.0 & > 0' in. wc	.17	.17	.17	.17					
		PDI-835-2	≤2.0 & > 0' in. wc	.43	.43	.42						
		PDI-835-3	≤2.0 & > 0' in. wc	.41	.41	.41						
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-1	≤2.0 & > 0' in. wc	.20	.20	.20	.20					
		PDI-815-2	≤2.0 & > 0' in. wc	.50	.50	.49						
		PDI-815-4	≤2.0 & > 0' in. wc	.42	.42	.42						
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-5	≤2.0 & > 0' in. wc	.44	.43	.43	.43					
		PDI-816-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY					
		PDI-816-2	≤2.0 & > 0' in. wc	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					
		PDI-816-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY					

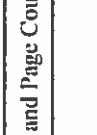
ATTACHMENT B-2: Daily Surveillance Rounds (PF-4 North Side) [UET]

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				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 ⁺ in. wc	11/28/16	STBY	11/29/16	STBY	11/30/16	STBY			
		PDI-812-2	≤2.0 & > 0 ⁺ in. wc		STBY	STBY	STBY					
		PDI-812-3	≤2.0 & > 0 ⁺ in. wc		STBY	STBY	STBY					
		PDI-812-4	≤2.0 & > 0 ⁺ in. wc		STBY	STBY	STBY					
		PDI-812-5	≤2.0 & > 0 ⁺ in. wc		STBY	STBY	STBY					
4.1.3.4	200 area glovebox exhaust filter plenum (FF-851) ΔP	PDI-813-1	≤2.0 & > 0 ⁺ in. wc		.10	.09	.09					
		PDI-813-2	≤2.0 & > 0 ⁺ in. wc		.28	.28	.28					
		PDI-813-3	≤2.0 & > 0 ⁺ in. wc		.21	.22	.21					
		PDI-813-4	≤2.0 & > 0 ⁺ in. wc		.30	.30	.30					
		PDI-813-5	≤2.0 & > 0 ⁺ in. wc		.40	.40	.40					
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ⁺ in. wc		.02	.02	.02					
		PDI-865-2	≤2.0 & > 0 ⁺ in. wc		.29	.29	.29					
		PDI-865-3	≤2.0 & > 0 ⁺ in. wc		.34	.32	.32					
4.1.3.4	IFTT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ⁺ in. wc		.04	.04	.04					
		PDI-863-2	≤2.0 & > 0 ⁺ in. wc		.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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				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	11/28/16	11/29/16	11/30/16					
		PDI-857-2	≤ 2.0 & > 0' in. wc				.12	.43			
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc				.03				
		PDI-856-2	≤ 2.0 & > 0' in. wc				.52				
INA	Combustible exclusion area around basement exhaust fan FER28 and bleed-off fans FER20A, FER20B, FER20C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ 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: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in ICO 3.1.3.

Completed by: Srone M. Date 12/1/16 Time 0752 Reviewed by: [Signature] Date: 12/1/16 Time: 0900
 On-duty Supervisor

Comments: _____

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

M&TE Calibrated Data			
Record September through April only	PF-10 Thermistor File No.: 039746	PF-10 Thermistor File No.: 040373	V-701 Thermistor File No.: 103762
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/7/17	Calibration Expiration Date: 7/6/17
	PF-11 Thermistor File No.: 042252	PF-11 Thermistor File No.: 105353	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/7/17	Calibration Expiration Date: 7/6/17

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature										
SR	Description	Acceptance Criteria	Initials:	Daily (September through April only)						
				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.		11/28/16	11/29/16	11/30/16				
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	JR							
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 F								
4.3.1.3'	RECORD PF-11 room temperature	≥ 50 F								
	OC Operator Review and Page Count Complete (initials)	Completion Time:		08:35	09:00	08:34				

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: 12/1/16 Time: 0745
 Reviewed by: [Signature] Date: 12/2/16 Time: 0900
 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.	1507	11/16/16	KS
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.	1507	11/16/16	KS
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.	1422	11/16/16	AP
*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.	1413	11/16/16	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.	1413	11/16/16	AS

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, IB Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANI, Building T455-4 (P4-4), Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANI-DOE-ORDER-420, IB-EQ-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.	Sat/Unsat.	1423	11/16/16	AS
			6 Seconds	Sat/Unsat.	1423	11/16/16	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.	Sat/Unsat.	1441	11/16/16	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).	Sat/Unsat.	1435	11/16/16	AS
OC Operator Review and Page Count Complete							

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: [Signature] Date: 11/16/16 Time: 1507 Reviewed by: [Signature] Date: 11/16/16 Time: 1540

On-duty Supervisor Comments:

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
	4.2.2.1	16	Rm. 429	> 1 mR/hr	Sat / Unsat.
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: Date 11-1-16 Time 0500
 Reviewed by: Date 1/23/16 Time 0900
 On-duty Supervisor

Comments: _____

December

TA55-STP-002, R12

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

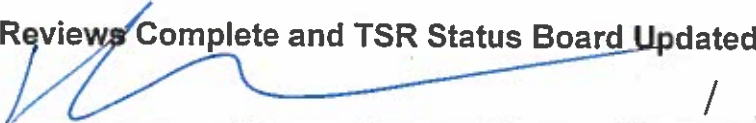
Page 20 of 29

Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUTES
Procedure no.:	TA55-STP-004 R12.1
Date of issue:	12/1/16
Working copy issued to:	PRICE
Working copy issued by:	PRICE
Certified Operations Center Operator (OCO)	

OC Reviews Complete and TSR Status Board Updated

 / 1/2/17

OCO Signature Date

Training Checklist:

Workers Performing Surveillance	Applicable Surveillance Training Current	
	OCO Initials	Date
B CHANLE	u	12/1/16
A LORIGUE	u	↓
J LOVATO	u	
K MILLER	u	
M MILLER	u	
A ORTIZ	u	
R PRICE	u	
F SEYBERT	u	
J SMELTZ	t	
A DUNSEITH	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
R LUM	u	12/1/16
K BAILEY	u	↓
B FORDHAM	u	
J FRANK	u	
D H EINTSCHEL	u	
R HOHNER	u	
A HERRERA	u	
M IRISH	u	
T LANGRISHY	u	
J MARTINEZ	u	
A SANCHEZ	u	
ANGIE SANCHEZ	u	
P TRUJILLO	u	
M WASHBURN	u	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRs	Note Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Weekday:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Shift:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:															
		SURVEILLANCE RESULTS (in. wc)															
	Gauge Acceptance Criteria																
	PDI-814-1 or PDI-814-2	≤-1.0 in. wc'															
4.1.1.1	200 area glovebox exhaust header ΔP		-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
4.1.2.1 ²	100 area glovebox exhaust header ΔP	≤-1.0 in. wc'	-1.94	-1.97	-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
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc'	-1.97	-1.98	-2.00	-1.97	-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'	-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 ΔP	≤-0.05 in. wc'	-0.17	-0.18	-0.20	-0.19	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
	100 area laboratory header ΔP	≤-0.05 in. wc'	-0.23	-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
4.1.1.2	300 area laboratory header ΔP	≤-0.05 in. wc'	-0.21	-0.19	-0.20	-0.19	-0.20	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
4.1.1.5	400 area laboratory header ΔP	≤-0.05 in. wc'	-0.24	-0.20	-0.20	-0.19	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
4.1.2.2 ²	IFIT Facility ΔP	≤-0.05 in. wc	-0.14	-0.14	-0.15	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
	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	-0.10
4.1.1.3	South basement ΔP	< 0.00 in. wc	-0.10	-0.10	-0.09	-0.10	-0.09	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
4.1.2.3 ²	IRT Tunnel ΔP	< 0.00 in. wc	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS													
				Sat. / Unsat. (circle one)													
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 PDIs may be used if FCS is unavailable.																	
Weekday:		Shift:		AM		PM		AM		PM		AM		PM		AM	
Initials:																	
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	300 area re-circulation fan/plenum	FR-809 Icon red and PDT-840 ΔP >.050 or FR-810 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-811 Icon red and PDT-842 ΔP >.050 or FR-812 Icon red and PDT-843 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-813 Icon red and PDT-844 ΔP >.050 or FR-814 Icon red and PDT-845 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-815 Icon red and PDT-846 ΔP >.050 or FR-816 Icon red and PDT-847 ΔP >.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-817 Icon red and PDT-848 ΔP >.050 or FR-818 Icon red and PDT-849 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-819 Icon red and PDT-850 ΔP >.050 or FR-820 Icon red and PDT-851 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-821 Icon red and PDT-852 ΔP >.050 or FR-822 Icon red and PDT-853 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-823 Icon red and PDT-854 ΔP >.050 or FR-824 Icon red and PDT-855 ΔP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat

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

(Page 1 of 5)

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:	12/1/16	12-2-16	12/3/16	12/4/16			
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:							
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	0.0		
		≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.		
	Completion Time:		0825	0745	0655	0710			

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

(Page 2 of 5)

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					12/11/16	12/2/16	11/3/16	12/4/16	
		PDI-894-2	≤2.0 & > 0' in. wc						.04	.05	.04	.04
		PDI-895-1	≤2.0 & > 0' in. wc						.48	.48	.48	.48
		PDI-895-2	≤2.0 & > 0' in. wc						.04	.04	.04	.04
		PDI-817-1	≤2.0 & > 0' in. wc						.61	.61	.61	.60
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-2	≤2.0 & > 0' in. wc						STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0' in. wc						STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0' in. wc						STBY	STBY	STBY	STBY
		PDI-819-1	≤2.0 & > 0' in. wc						STBY	STBY	STBY	STBY
		PDI-819-3	≤2.0 & > 0' in. wc						STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-4	≤2.0 & > 0' in. wc						STBY	STBY	STBY	STBY
		PDI-818-1	≤2.0 & > 0' in. wc						.23	.23	.23	.23
		PDI-818-2	≤2.0 & > 0' in. wc						.30	.31	.30	.30
		PDI-818-4	≤2.0 & > 0' in. wc						.25	.26	.25	.25
		PDI-818-5	≤2.0 & > 0' in. wc						.29	.30	.29	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc						.49	.49	.49	.49
		PDI-821-3	≤2.0 & > 0' in. wc						.51	.51	.51	.51
		PDI-821-4	≤2.0 & > 0' in. wc						.48	.48	.48	.48

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

(Page 3 of 5)

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						12/11/16	12/12/16	12/13/16	12/14/16
		PDI-822-2	≤2.0 & > 0' in. wc					STBY	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0' in. wc					STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0' in. wc					STBY	STBY	STBY	STBY	STBY
		PDI-823-1	≤2.0 & > 0' in. wc					.14	.14	.14	.14	.14
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc					.50	.50	.50	.50	.50
		PDI-823-4	≤2.0 & > 0' in. wc					.51	.51	.51	.51	.51
		PDI-823-5	≤2.0 & > 0' in. wc					.52	.52	.52	.52	.52
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤2.0 & > 0' in. wc					.70	.70	.70	.70	.70
		PDI-830-2	≤2.0 & > 0' in. wc					.32	.32	.32	.32	.32
		PDI-830-3	≤2.0 & > 0' in. wc					.28	.28	.28	.28	.28
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
		PDI-836-2	≤2.0 & > 0' in. wc					.69	.69	.69	.69	.69
		PDI-836-3	≤2.0 & > 0' in. wc					.58	.58	.58	.58	.58
		PDI-837-1	≤2.0 & > 0' in. wc					.57	.57	.57	.57	.57
		PDI-837-2	≤2.0 & > 0' in. wc					.46	.46	.46	.46	.46
PDI-837-3	≤2.0 & > 0' in. wc					.42	.42	.42	.42	.42		

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]
(Page 4 of 5)

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					12/1/16 Jm	12/2/16 EF	12/3/16 Jm	12/4/16 Sun.
		PDI-838-2	≤2.0 & > 0' in. wc				.51	.52	.51		
		PDI-838-3	≤2.0 & > 0' in. wc				.59	.59	.59	.56	.56
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-839-1	≤2.0 & > 0' in. wc					.41	.41	.41	.41
		PDI-839-2	≤2.0 & > 0' in. wc				.57	.58	.57	.57	.57
		PDI-839-3	≤2.0 & > 0' in. wc				.56	.56	.56	.56	.56
		PDI-810-1	≤2.0 & > 0' in. wc					.15	.15	.15	.15
		PDI-810-2	≤2.0 & > 0' in. wc					.50	.51	.50	.50
		PDI-810-3	≤2.0 & > 0' in. wc					.51	.52	.51	.51

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc					12/1/16 Thu. JMA	12/2/16 Fri. OF	12/3/16 Sat. JMA	12/4/16 Sun. JMA
'NA	Combustible exclusion area around basement exhaust fan FER29 and bleed-off fans FER22A, FER22B, FER22C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)					12/1/16 Thu. OFF	12/2/16 Fri. OFF	12/3/16 Sat. OFF	12/4/16 Sun. OFF
OC Operator Review and Page Count Complete (initials)								12/1/16 Thu. ARJ	12/2/16 Fri. ARJ	12/3/16 Sat. ARJ	12/4/16 Sun. ARJ

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date 12/4/16 Time 0800 Reviewed by: [Signature] Date: 12/1/16 Time: 0800
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:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc					12/1/16	12-2-16	12/3/16	12/4/16
		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								
4.1.3.4	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								
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: Weekday:	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					12/11/16 Thu.	12-2-16 Fri.	12/3/16 Sat.	12/4/16 Sun.
		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	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	200 area glovebox exhaust filter plenum (FF-850) ΔP	PDI-812-1	≤2.0 & > 0 ⁺ in. wc					12/11/16	12-2-16	12/3/16	12/4/16
		PDI-812-2	≤2.0 & > 0 ⁺ in. wc				SM				
		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 (FF-851) ΔP	PDI-813-1	≤2.0 & > 0 ⁺ in. wc					.10	.10	.10	.10
		PDI-813-2	≤2.0 & > 0 ⁺ in. wc					.29	.29	.29	.29
		PDI-813-3	≤2.0 & > 0 ⁺ in. wc					.22	.22	.22	.22
		PDI-813-4	≤2.0 & > 0 ⁺ in. wc					.31	.31	.31	.31
		PDI-813-5	≤2.0 & > 0 ⁺ in. wc					.40	.40	.40	.40
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ⁺ in. wc					.02	.02	.02	.02
		PDI-865-2	≤2.0 & > 0 ⁺ in. wc					.28	.28	.28	.28
		PDI-865-3	≤2.0 & > 0 ⁺ in. wc					.36	.34	.34	.34
4.1.3.4	IFIT supply filter plenum (IFVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ⁺ in. wc					.04	.04	.04	.04
		PDI-863-2	≤2.0 & > 0 ⁺ in. wc					.28	.29	.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 (11VP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc				12/11/16 Jm	12-2-16	12/21/16	12/4/16
4.1.3.4	North corridor supply filter plenum (11VP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc				12/11/16 Jm	12-2-16	12/21/16	12/4/16
4.1.3.4	North corridor supply filter plenum (11VP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc				12/11/16 Jm	12-2-16	12/21/16	12/4/16
4.1.3.4	North corridor supply filter plenum (11VP-809) ΔP	PDI-856-2	≤ 2.0 & > 0' in. wc				12/11/16 Jm	12-2-16	12/21/16	12/4/16
1NA	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C		0 lb/R ² combustibles in designated exclusion area (within 15 feet of fans)				SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/R ² combustibles within 3.5 feet perpendicular from the face of the PRIMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less				SAT	SAT	SAT	SAT
			Completion time				0845	0828	0730	0750
			OC Operator Review and Page Count Complete (initials)				ADJ	ADJ	ADJ	ADJ
			Non TSR requirement							

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date: 12/4/16 Time: 0750 Reviewed by: [Signature] Date: 12/4/16 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.: 039746	PF-10 Thermistor File No.: 040373	V-701 Thermistor File No.: 103762
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/7/17	Calibration Expiration Date: 7/6/17
	PF-11 Thermometer File No.: 042252	PF-11 Thermistor File No.: 105353	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/7/17	Calibration Expiration Date: 7/6/17

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:	SAT/UNSAT	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.																
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)																	

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

Completed by: A. Audebert Date: 12/4/16 Time: 0810
 Reviewed by: [Signature] Date: 12/8/16 Time: 0800
 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
			Shift:		Initials:													
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-814-1 or PDI-814-2	1.99	2.00	1.99	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 glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-820-1 or PDI-820-2	1.93	1.93	1.93	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 ΔP	≤-1.0 in. wc' PDI-870-1 or PDI-870-2	1.90	1.98	1.98	1.99	1.98	1.99	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	1.91	1.97	1.97	1.99	1.99	1.99	1.99	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 ²	200 area laboratory header ΔP	≤-0.05 in. wc' PDI-803-1 or PDI-803-2	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	
	100 area laboratory header ΔP	≤-0.05 in. wc' PDI-802-1 or PDI-802-2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
	300 area laboratory header ΔP	≤-0.05 in. wc' PDI-853-1 or PDI-853-2	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	
	400 area laboratory header ΔP	≤-0.05 in. wc' PDI-852-1 or PDI-852-2	1.14	1.15	1.15	1.14	1.14	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	
4.1.1.3 4.1.2.3 ²	North basement AP	<0.00 in. wc PDI-804-1 or PDI-804-2	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	
	South basement AP	<0.00 in. wc PDI-854-1 or PDI-854-2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
	IRT Tunnel ΔP	<0.00 in. wc PDI-901 or PDI-901	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	

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 PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	At least one fan/plenum is in service	Date:	12/5	10	12/6	11	12/7	14	12/8	16	12/9	16	12/10	16	12/11	16			
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.										
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
				Initials:	AP	P	AP	AD	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	
				Readings	FR-801 Icon red and PDT-831 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050	Acceptance Criteria	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Readings	FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	Acceptance Criteria	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Readings	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	Acceptance Criteria	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Readings	FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	Acceptance Criteria	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
				Readings	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	Acceptance Criteria	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]

(Page 3 of 3)

SIRs	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	12/5/16	12/6/16	12/7/16	12/8/16	12/9/16	12/10/16	12/11/16	12/12/16	12/13/16	12/14/16	12/15/16			
			PDI-803-2	PDI-820-2 < PDI-802-2 < PDI-804-2	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		
			Initials:	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP		
		300 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	12/5/16	12/6/16	12/7/16	12/8/16	12/9/16	12/10/16	12/11/16	12/12/16	12/13/16	12/14/16	12/15/16	12/16/16		
			PDI-802-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-804-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			Initials:	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP		
		400 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	12/5/16	12/6/16	12/7/16	12/8/16	12/9/16	12/10/16	12/11/16	12/12/16	12/13/16	12/14/16	12/15/16	12/16/16		
			PDI-853-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-854-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			Initials:	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP		
		Completion Time					1949	1928	1926	1924	1919	1923	1927	1930	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 12/16/16 Time 1922 Reviewed by: [Signature] Date: 12/23/16 Time: 1400
 On-duty Supervisor

Comments:

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

(Page 1 of 5)

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

		Date:	12/5/16	12/6/16	12/7/16	12/8/16	12/9/16	12/10/16	12/11/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AM	AM	AM	AD	AS	PT	FT
		Acceptance Criteria:	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge								
	Flammable Gas Channel Check	NA							
	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	0.1	0.1	0.1	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.1	0.1	0.0	0.0
		≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:	0810	0815	0800	0933	0658	0816	0804	

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

(Page 2 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	12/5/16	12/6/16	12/7/16	12/8/16	12/9/16	12/10/16	12/11/16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	AM	AM	AM	AS	AS	AS	PT	PT	PT
4.1.3.4	South basement supply filter plenum (IIVP-841) ΔP	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	.48	.48	.48	.49	.49	.48	.48	.48	.48
		PDI-895-1	≤2.0 & > 0' in. wc	.04	.04	.04	.05	.05	.05	.05	.05	.05
		PDI-895-2	≤2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.61	.61	.61	.61
		PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	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
		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
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	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	.23	.23	.23	.23	.23	.23	.23	.23	.23
		PDI-818-2	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-818-4	≤2.0 & > 0' in. wc	.25	.25	.25	.26	.26	.25	.25	.25	.25
		PDI-818-5	≤2.0 & > 0' in. wc	.30	.29	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	.49	.49
		PDI-821-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	
		PDI-821-4	≤2.0 & > 0' in. wc	.48	.47	.47	.49	.49	.48	.48	.48	

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

(Page 3 of 5)

SRs	Description	Gauge	Acceptance Criterion	SURVEILLANCE RESULTS (in. wc)							
				Date:	12/5/16	12/6/16	12/7/16	12/8/16	12/9/16	12/10/16	12/11/16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	gm	gm	gm	AS	AD	PT	PT
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
		PDI-822-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-1	≤2.0 & > 0' in. wc	.14	.14	.14	.14	.14	.14	.14	.14
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-823-4	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-823-5	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-830-1	≤2.0 & > 0' in. wc	.70	.70	.70	.70	.70	.70	.70	.70
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-830-3	≤2.0 & > 0' in. wc	.28	.28	.28	.28	.28	.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	.69	.69	.69	.69	.69	.69	.69	.69
		PDI-836-3	≤2.0 & > 0' in. wc	.57	.57	.57	.57	.57	.57	.57	.57
		PDI-837-1	≤2.0 & > 0' in. wc	.58	.58	.57	.57	.57	.58	.58	.58
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.46	.45	.45	.45
		PDI-837-3	≤2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42	.42

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

(Page 4 of 5)

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	12/5/16	PM	12/6/16	PM	12/7/16	PM	12/8/16	AD	12/9/16	AS	12/10/16	PT	12/11/16	PT	
		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															

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI -811 -1	≤2.0 & > 0' in. wc	12/5/16	12/6/16	12/7/16	12/8/16	12/9/16	12/10/16	12/12/16	
		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
'NA	Combustible exclusion area around basement exhaust fan FER29 and bleed-off fans FER22A, FER22B, FER22C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)								
OC Operator Review and Page Count Complete (initials)				SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
				0840	0840	0820	0929	0732	0756	0745	

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul Trujillo Date: 12-11-16 Time: 0745 Reviewed by: [Signature] Date: 12/13/16 Time: 1400
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: Initials:	12/15/16 Mon.	12/16/16 Tue.	12/17/16 Wed.	12/18/16 Thu.	12/19/16 Fri.	12/20/16 Sat.	12/21/16 Sun.	
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	Jm	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-840-2	≤2.0 & > 0 in' wc	Jm	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-840-3	≤2.0 & > 0' in. wc	Jm	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	Jm	.15	.15	.15	.46	.46	.46	.46	.46
		PDI-841-2	≤2.0 & > 0' in. wc	Jm	.56	.56	.56	.56	.56	.56	.56	.56
		PDI-841-3	≤2.0 & > 0' in. wc	Jm	.51	.51	.51	.51	.51	.51	.51	.51
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0' in. wc	Jm	.32	.32	.32	.32	.32	.32	.32	.32
		PDI-831-2	≤2.0 & > 0' in. wc	Jm	.41	.41	.41	.42	.42	.42	.42	.42
		PDI-831-3	≤2.0 & > 0' in. wc	Jm	.39	.39	.39	.40	.40	.40	.40	.40
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	Jm	.36	.36	.36	.37	.37	.37	.37	.37	
	PDI-832-2	≤2.0 & > 0' in. wc	Jm	.68	.68	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	Jm	.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	Jm	.12	.12	.12	.12	.12	.12	.12	
		PDI-807-2	≤2.0 & > 0' in. wc	Jm	.50	.50	.50	.50	.50	.50	.50	
		PDI-807-3	≤2.0 & > 0' in. wc	Jm	.51	.51	.51	.50	.51	.51	.51	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	Jm	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0' in. wc	Jm	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	Jm	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:	12/5/16	12/6/16	12/7/16	12/8/16	12/9/16	12-10-16	12-11-16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	gn	gn	gn	AS	AS	AS	PT	PT	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	.16	.16	.16	.16	.16
		PDI-829-2	≤2.0 & > 0' in. wc	.32	.34	.33	.35	.36	.36	.36	.36	.36
		PDI-829-3	≤2.0 & > 0' in. wc	.28	.28	.28	.30	.30	.30	.30	.30	.30
		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	.50	.50	.51	.50	.51	.51	.51	.51
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	.45	.45	.45	.48	.48	.48	.48	.48	.48
		PDI-835-1	≤2.0 & > 0' in. wc	.17	.17	.17	.18	.18	.18	.18	.18	
		PDI-835-2	≤2.0 & > 0' in. wc	.44	.43	.44	.45	.42	.42	.42	.42	
		PDI-835-3	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	
		PDI-815-1	≤2.0 & > 0' in. wc	.20	.20	.20	.21	.21	.21	.21	.21	
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-815-4	≤2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42	.42	
		PDI-815-5	≤2.0 & > 0' in. wc	.43	.43	.43	.45	.45	.45	.45	.45	
		PDI-816-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-816-2	≤2.0 & > 0' in. wc	STBY	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	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	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 Criterion	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	12/5/16	12/6/16	12/7/16	12/8/16	12/9/16	12/10/16	12/11/16
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					gm	gm	gm	AS	AS	PT	PT	PT
4.1.3.4	200 area glovebox exhaust filter plenum (FF-850) ΔP	PDI-812-1	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0 ¹ in. wc		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 ¹ in. wc		.10	.10	.10	.10	.10	.10	.10	.10
		PDI-813-2	≤2.0 & > 0 ¹ in. wc		.29	.29	.30	.30	.30	.30	.30	.30
		PDI-813-3	≤2.0 & > 0 ¹ in. wc		.22	.22	.22	.22	.22	.22	.22	.22
		PDI-813-4	≤2.0 & > 0 ¹ in. wc		.31	.31	.31	.31	.31	.31	.31	.31
		PDI-813-5	≤2.0 & > 0 ¹ in. wc		.40	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ¹ in. wc		.02	.02	.02	.02	.02	.02	.02	.02
		PDI-865-2	≤2.0 & > 0 ¹ in. wc		.28	.28	.28	.28	.28	.28	.28	
		PDI-865-3	≤2.0 & > 0 ¹ in. wc		.33	.32	.32	.32	.32	.32	.32	
4.1.3.4	IFIT supply filter plenum (FIVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ¹ in. wc		.04	.04	.04	.04	.04	.04	.04	
		PDI-863-2	≤2.0 & > 0 ¹ in. wc		.28	.28	.28	.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:	12/15/16	12/16/16	12/17/16	12/18/16	12/19/16	12/20/16	12/21/16	
				Weekday:	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	Sun.	
			Initials:	<i>gm</i>	<i>gm</i>	<i>gm</i>						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0 ¹ in. wc	.12	.12	.12	.12	.12	.12	.12	.12	.11
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0 ¹ in. wc	.42	.42	.42	.42	.42	.42	.42	.42	.42
INA	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE20A, FE820B, FE820C	PDI-856-2	≤ 2.0 & > 0 ¹ in. wc	.03	.03	.03	.03	.03	.03	.03	.03	.02
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)	.51	.51	.51	.51	.51	.51	.51	.51	.51
			0 lb/ft ² 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	SAT
			Completion time	0835	0830	0812	0839	0732	0810	0800		
			OC Operator Review and Page Count Complete (initials)	<i>AW</i>	<i>AW</i>	<i>AW</i>	<i>AW</i>	<i>AW</i>	<i>AW</i>	<i>AW</i>	<i>AW</i>	<i>AW</i>
			'Non TSR requirement									

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: *Paul Trujillo* Date: *12-21-16* Time: *11:00* Reviewed by: *[Signature]* Date: *12/21/16* Time: *14:00*
 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.:	039746	PF-10 Thermistor File No.:	040373	V-701 Thermistor File No.:	103762
	Calibration Expiration Date:	5/18/17	Calibration Expiration Date:	7/7/17	Calibration Expiration Date:	7/6/17
Record April only	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	105353	V-704 Thermistor File No.:	039743
	Calibration Expiration Date:	5/18/17	Calibration Expiration Date:	7/7/17	Calibration Expiration Date:	7/6/17

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)							Acceptance Criteria							
			Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT				
			Weekdays:	Initials:													
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	12/5/16														
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	12/5/16	Th	Th	Th	Th	Th	Th	Th	Th	Th	Th	Th	Th	Th	Th
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	12/5/16														
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	12/5/16														
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	12/5/16														
Completion Time:			0905														
OC Operator Review and Page Count Complete (initials)			[Signature]														

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

Completed by: PF-10 Date: 12/11/16 Time: 0815
 Reviewed by: [Signature] Date: 17/23/16 Time: 1400
 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 ²	200 area glovebox exhaust header ΔP	≤ -1.0 in. wc'		-1.99	-1.99	2.00	1.98	-1.98	2.00	-1.99	-1.99	2.00	2.00	-1.99	-1.99	2.00	-2.00	2.00
	100 area glovebox exhaust header ΔP	≤ -1.0 in. wc'		-1.95	-1.97	-1.94	-1.94	-1.93	-1.93	-1.94	-1.93	-1.93	-1.93	-1.91	-1.95	-1.93	-1.93	-1.97
	300 area glovebox exhaust header ΔP	≤ -1.0 in. wc'		-1.98	-1.98	-1.98	-1.98	-1.98	-1.97	-1.98	-1.98	-1.97	-1.99	-1.99	-1.98	-1.98	-1.98	-1.99
	400 area glovebox exhaust header ΔP	≤ -1.0 in. wc'		-1.97	-1.98	-1.97	-1.97	-1.99	-1.97	-1.99	-1.97	-1.97	-1.97	-1.97	-1.99	-1.97	-1.98	-1.99
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤ -0.05 in. wc'		-0.19	-0.19	-0.18	-0.18	-0.19	-0.18	-0.17	-0.19	-0.18	-0.17	-0.18	-0.18	-0.18	-0.18	-0.19
	100 area laboratory header ΔP	≤ -0.05 in. wc'		-0.23	-0.23	-0.22	-0.22	-0.22	-0.22	-0.23	-0.22	-0.22	-0.22	-0.22	-0.26	-0.21	-0.21	-0.23
	300 area laboratory header ΔP	≤ -0.05 in. wc'		-0.20	-0.20	-0.22	-0.22	-0.19	-0.18	-0.20	-0.13	-0.17	-0.17	-0.17	-0.17	-0.18	-0.19	-0.19
	400 area laboratory header ΔP	≤ -0.05 in. wc'		-0.21	-0.21	-0.23	-0.23	-0.20	-0.19	-0.21	-0.13	-0.20	-0.20	-0.20	-0.18	-0.19	-0.20	-0.20
4.1.1.3 4.1.2.3 ²	IFIT Facility ΔP	≤ -0.05 in. wc		-0.14	-0.14	-0.13	-0.13	-0.14	-0.14	-0.14	-0.14	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
	North basement ΔP	< 0.00 in. wc		-0.10	-0.10	-0.10	-0.10	-0.09	-0.09	-0.10	-0.09	-0.10	-0.10	-0.10	-0.07	-0.06	-0.06	-0.06
	South basement ΔP	< 0.00 in. wc		-0.09	-0.09	-0.11	-0.11	-0.10	-0.10	-0.10	-0.09	-0.10	-0.11	-0.11	-0.09	-0.07	-0.07	-0.07
	IRT Tunnel ΔP	< 0.00 in. wc		-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
					Date:		Date:		Date:		Date:		Date:		Date:		Date:	
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	12/12/16	12/13/16	12/14/16	12/15/16	12/16/16	12/17/16	12/18/16							
			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															

Note: Mode 2 acceptance criteria is 0.00 in. v/v
Note: SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.

Completed by: *[Signature]* Date: 12/16/16 Time: 1924 Reviewed by: *[Signature]* Date: 12/23/16 Time: 1400
 On-duty Supervisor

Comments: 12/16 PM 300/400 RECIRS UNSAT FOR SOUTH WEST MANJ.

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

(Page 1 of 5)

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:	12/12/16	12.13.16	12-14-16	12-15-16	12/16/16	12/17/16	12/18/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AD	DK	AS	gpk	AS	WVW	JCS
	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
	Flammable Gas Channel Check	NA							
4.4.1.1	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)	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
	Record Calculated Value	Sat. Unsat.	Sat. Unsat.	Sat. Unsat.	Sat. Unsat.	Sat. Unsat.	Sat. Unsat.	Sat. Unsat.	Sat. Unsat.
	$\geq -0.1;$ $\leq +0.1$	0841	0810	0918	0850	0905	0851	0823	
	Completion Time:	0841	0810	0918	0850	0905	0851	0823	

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

(Page 2 of 5)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	12-12-16	12-13-16	12-14-16	12-15-16	12-16-16	12/17/16	12/18/16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:	AS	pk	AD	pk	AD					
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	.06	.05	.05	.05	.04	.05	.05	.05	.05	.05
		PDI-894-2	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.48	.49	.49	.49	.49	.48
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & > 0' in. wc	.05	.04	.05	.05	.04	.05	.05	.05	.05	.04
		PDI-895-2	≤2.0 & > 0' in. wc	.60	.59	.59	.59	.60	.62	.62	.62	.61	.61
		PDI-817-1	≤2.0 & > 0' in. wc	STBY	.27	.27	.27	.26	.27	.27	.26	.27	.27
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	≤2.0 & > 0' in. wc	STBY	.30	.30	.30	.30	.30	.30	.30	.30	.29
		PDI-817-4	≤2.0 & > 0' in. wc	STBY	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	.29	.29	.29	.29	.30	.30	.29	.29	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤2.0 & > 0' in. wc	STBY	.50	.50	.51	.51	.51	.51	.51	.51	.50
		PDI-819-3	≤2.0 & > 0' in. wc	STBY	.50	.50	.50	.51	.50	.50	.50	.50	.50
		PDI-819-4	≤2.0 & > 0' in. wc	STBY	.42	.42	.42	.42	.44	.44	.44	.43	.43
		PDI-818-1	≤2.0 & > 0' in. wc	.23	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	.30	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤2.0 & > 0' in. wc	.25	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤2.0 & > 0' in. wc	.30	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	.50	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-3	≤2.0 & > 0' in. wc	.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤2.0 & > 0' in. wc	.49	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 3 of 5)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							Sun.
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
				Weekday:	AS	AS	AS	AS	AS	AS	
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	12-12-16	1.13	1.13	1.13	1.13	1.13	1.13	12/18/16
		PDI-822-2	≤2.0 & > 0' in. wc		1.11	1.13	1.13	1.13	1.13	1.13	
		PDI-822-4	≤2.0 & > 0' in. wc		.55	.55	.55	.55	.55	.55	
		PDI-822-5	≤2.0 & > 0' in. wc		.49	.49	.49	.49	.49	.49	
		PDI-823-1	≤2.0 & > 0' in. wc		.50	.51	.51	.51	.51	.51	
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc		.15	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0' in. wc		.50	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0' in. wc		.51	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-830-1	≤2.0 & > 0' in. wc		.71	.72	.72	.71	.71	.69	.67
		PDI-830-2	≤2.0 & > 0' in. wc		.32	.32	.31	.32	.31	.31	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-830-3	≤2.0 & > 0' in. wc		.29	.29	.29	.28	.29	.28	.28
		PDI-836-1	≤2.0 & > 0' in. wc		.07	.07	.07	.07	.07	.06	.07
		PDI-836-2	≤2.0 & > 0' in. wc		.69	.69	.69	.69	.69	.69	.69
		PDI-836-3	≤2.0 & > 0' in. wc		.58	.58	.58	.57	.58	.57	.57
		PDI-837-1	≤2.0 & > 0' in. wc		.58	.58	.58	.58	.58	.58	.59
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0' in. wc		.46	.45	.46	.45	.45	.45	.46
		PDI-837-3	≤2.0 & > 0' in. wc		.42	.42	.42	.42	.42	.42	.43

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

(Page 4 of 5)

SRS	Description	Gauge	Acceptance Criterion	SURVEILLANCE RESULTS (in. wc)									
				Date:	12-12-16	12-13-16	12-14-16	12-15-16	12-16-16	12-17-16	12-18-16		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:	AS	<i>AK</i>	AS	<i>JM</i>	AS	<i>WJ</i>	<i>WJ</i>	<i>WJ</i>	<i>WJ</i>	
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0' in. wc	.52	.52	.52	.52	.52	.51	.52			
		PDI-838-2	≤2.0 & > 0' in. wc	.60	.60	.60	.59	.59	.58	.57			
		PDI-838-3	≤2.0 & > 0' in. wc	.58	.56	.58	.56	.56	.56	.56	.55		
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41		
		PDI-839-2	≤2.0 & > 0' in. wc	.58	.57	.56	.57	.57	.58	.58	.59		
		PDI-839-3	≤2.0 & > 0' in. wc	.56	.57	.56	.56	.56	.56	.56	.57		
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc	.16	OFF	OFF	.16	.17	.17	.16			
		PDI-810-2	≤2.0 & > 0' in. wc	.51	OFF	OFF	.51	.51	.51	.50			
		PDI-810-3	≤2.0 & > 0' in. wc	.51	OFF	OFF	.52	.52	.60	.51			

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				12-12-16	12-13-16	12-14-16	12-15-16	12-16-16	12-17-16	12-18-16
				Weekday:						
				Initials:	AS	AS	AS	AS	AS	AS
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1 PDI-811-2 PDI-811-3	≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc	OFF	.12	.13	OFF	OFF	OFF	OFF
'NA	Combustible exclusion area around basement exhaust fan FER29 and bleed-off fans FER22A, FER22B, FER22C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	OFF	.57	.51	OFF	OFF	OFF	OFF
OC Operator Review and Page Count Complete (initials)				SAT	SAT	SAT	SAT	SAT	SAT	SAT
				0911	0929	0959	0930	0937	0905	0850
				KM	AS	AS	AS	AS	AS	AS

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: *[Signature]* Date: 12/18/16 Time: 0850 Reviewed by: *[Signature]* Date: 12/23/16 Time: 1400
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.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	AS	12-12-16	12-13-16	12-14-16	12-15-16	12-16-16	12-17-16	12-18-16
		PDI-840-2	≤2.0 & > 0' in. wc	AS	STBY	.17	.16	.16	.16	.16	.16
		PDI-840-3	≤2.0 & > 0' in. wc	AS	STBY	.59	.58	.58	.58	.58	.58
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	AS	AS	STBY	.60	.50	.50	.50	.50
		PDI-841-2	≤2.0 & > 0' in. wc	AS	AS	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	AS	AS	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0' in. wc	AS	AS	.32	.33	.33	.33	.32	.32
		PDI-831-2	≤2.0 & > 0' in. wc	AS	AS	.45	.45	.44	.44	.42	.42
		PDI-831-3	≤2.0 & > 0' in. wc	AS	AS	.40	.40	.40	.40	.39	.39
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	AS	AS	.36	.37	.37	.37	.37	.36	
	PDI-832-2	≤2.0 & > 0' in. wc	AS	AS	.68	.68	.68	.68	.68	.68	
	PDI-832-3	≤2.0 & > 0' in. wc	AS	AS	.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	AS	.12	OFF	OFF	.11	.12	.12	
		PDI-807-2	≤2.0 & > 0' in. wc	AS	.50	OFF	OFF	.49	.50	.51	
		PDI-807-3	≤2.0 & > 0' in. wc	AS	.50	OFF	OFF	.50	.51	.51	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	AS	OFF	.67	.08	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0' in. wc	AS	OFF	.90	.50	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	AS	OFF	.51	.51	OFF	OFF	OFF	

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

(Page 2 of 4)

SIRs	Description	Gauge	Acceptance Criterion	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date: Weekday:	12-12-16 Mon.	12-13-16 Tue.	12-14-16 Wed.	12-15-16 Thu.	12-16-16 Fri.	12-17-16 Sat.	12-18-16 Sun.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	AS	.16	.15	.16	.16	.16	.16	.16	.16
		PDI-829-2	≤2.0 & > 0' in. wc	AS	.35	.35	.34	.35	.33	.33	.33	.33
		PDI-829-3	≤2.0 & > 0' in. wc	AS	.29	.30	.28	.29	.27	.29	.27	.29
		PDI-833-1	≤2.0 & > 0' in. wc	AS	.07	.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤2.0 & > 0' in. wc	AS	.50	.50	.50	.51	.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	AS	.49	.48	.48	.47	.45	.45	.45	.45
		PDI-835-1	≤2.0 & > 0' in. wc	AS	.18	.19	.18	.18	.18	.18	.18	.18
		PDI-835-2	≤2.0 & > 0' in. wc	AS	.44	.44	.45	.45	.44	.44	.44	.44
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	≤2.0 & > 0' in. wc	AS	.41	.40	.40	.41	.40	.40	.40	.40
		PDI-815-1	≤2.0 & > 0' in. wc	AS	.21	STBY	STBY	.20	.20	.20	.20	.20
		PDI-815-2	≤2.0 & > 0' in. wc	AS	.50	STBY	STBY	.50	.50	.50	.50	.50
		PDI-815-4	≤2.0 & > 0' in. wc	AS	.42	STBY	STBY	.44	.44	.42	.43	.43
		PDI-815-5	≤2.0 & > 0' in. wc	AS	.45	STBY	STBY	.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	AS	STBY	.40	.40	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0' in. wc	AS	STBY	.51	.50	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	≤2.0 & > 0' in. wc	AS	STBY	.49	.49	.49	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	AS	STBY	.49	.49	.49	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)							
					12-12-16 Mon.	12-13-16 Tue.	12-14-16 Wed.	12-15-16 Thu.	12-16-16 Fri.	12-17-16 Sat.	12-18-16 Sun.	
					AD	AD	AS	AD	AD	AD	AD	AD
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc		STBY	.15	.15	.14	.15	.14	.14	.14
		PDI-812-2	≤2.0 & > 0' in. wc	STBY	.31	.32	.33	.32	.32	.32	.32	.32
		PDI-812-3	≤2.0 & > 0' in. wc	STBY	.30	.32	.33	.31	.31	.31	.31	.31
		PDI-812-4	≤2.0 & > 0' in. wc	STBY	.30	.29	.28	.29	.29	.28	.28	.28
		PDI-812-5	≤2.0 & > 0' in. wc	STBY	.39	.39	.38	.39	.39	.38	.38	.38
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	.10	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0' in. wc	.30	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0' in. wc	.22	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0' in. wc	.51	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0' in. wc	.40	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	HIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	.02	.01	.01	.02	.02	.02	.01	.01	.01
		PDI-865-2	≤2.0 & > 0' in. wc	.30	.28	.29	.28	.30	.28	.28	.28	.28
		PDI-865-3	≤2.0 & > 0' in. wc	.35	.32	.32	.34	.35	.32	.32	.32	.32
4.1.3.4	HIT supply filter plenum (IVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	.05	.04	.05	.04	.04	.04	.04	.04	.04
		PDI-863-2	≤2.0 & > 0' in. wc	.29	.28	.29	.28	.29	.28	.29	.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:	12-12-16	12-13-16	12-14-16	12-15-16	12-16-16	12-17-16	12-18-16	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	AS	AS	AS	AS	AS	AS	AS	AS	AS
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	.11	.10	.11	.13	.11	.11	.10		
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc	.42	.42	.42	.44	.42	.41			
		PDI-856-1	≤ 2.0 & > 0' in. wc	.04	.03	.04	.04	.04	.04	.04		
		PDI-856-2	≤ 2.0 & > 0' in. wc	.51	.56	.58	.54	.52	.51	.52		
INA	Combustible exclusion area around basement exhaust fan FER28 and bleed-off fans FER20A, FER20B, FER20C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ 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	SAT
			Completion time	0859	0903	1019	0900	0922	0850	0850		
			OC Operator Review and Page Count Complete (initials)	KAM	KAM	KAM	KAM	KAM	KAM	KAM	KAM	KAM
			Non TSR requirement									

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date: 12/14/16 Time: 14:00
 Reviewed by: [Signature] Date: 12/14/16 Time: 14:00
 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.: 039746	PF-10 Thermistor File No.: 040373	V-701 Thermistor File No.: 103762
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/7/17	Calibration Expiration Date: 7/6/17
	PF-11 Thermometer File No.: 042252	PF-11 Thermistor File No.: 105353	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 7/7/17	Calibration Expiration Date: 7/6/17

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature																					
SR	Description	Acceptance Criteria	Date:	Weekday:	Initials:	12/12/16		12/13/16		12/14/16		12/15/16		12/16/16		12/17/16		12/18/16			
						SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	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.																			
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	63.5	64.0	64.8	65.5	65.9	64.8	64.1	63.0	63.2	64.8	63.0	61.2	63.0	60.5	61.6	63.9	63.9	63.9	
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	61.5	62.0	62.9	63.6	63.8	62.9	61.6	60.5	61.2	63.0	61.6	63.9	63.0	60.5	61.6	63.9	63.9	63.9	
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	62.6	61.8	63.0	63.8	63.8	62.9	61.6	60.5	61.2	63.0	61.6	63.9	63.0	60.5	61.6	63.9	63.9	63.9	
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	62.7	63.0	61.8	62.0	62.0	62.0	61.6	60.5	61.2	63.0	61.6	63.9	63.0	60.5	61.6	63.9	63.9	63.9	
	Completion Time:		0930	0835	0900	0832	0832	0802	0802	1037	0939	0832	0802	1037	0939	0939	0939	0939	0939	0939	
	OC Operator Review and Page Count Complete (initials):		SM	AD	SM	AD	SM	AD	SM	AD	SM	AD	SM	AD	SM	AD	SM	AD	SM	AD	SM

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 12-18-16 Time 0939
 Reviewed by: [Signature] Date 12/23/16 Time 1400
 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 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc'		-2.00	-1.94	-2.00	-2.00	-2.00	2.00	2.00	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	-1.99	
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc'		-1.93	-1.94	-1.93	-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 ΔP	≤-1.0 in. wc'		-1.98	-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	
	400 area glovebox exhaust header ΔP	≤-1.0 in. wc'		-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 ΔP	≤-0.05 in. wc'		-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	-1.99	
	100 area laboratory header ΔP	≤-0.05 in. wc'		-2.23	-2.21	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	
4.1.1.2 4.1.1.5 4.1.2.2 ²	300 area laboratory header ΔP	≤-0.05 in. wc'		-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 header ΔP	≤-0.05 in. wc'		-2.21	-2.21	-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		-2.20	-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 ΔP	< 0.00 in. wc		-2.08	-2.07	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	
4.1.1.3 4.1.2.3 ²	South basement ΔP	< 0.00 in. wc		-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08	
	IRT Tunnel ΔP	< 0.00 in. wc		-2.07	-2.08	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	
				-2.07	-2.08	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	
				-2.07	-2.08	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS																
					Sat. (circle one)																
					Mon. 12/18/16		Tue. 12/20/16		Wed. 12-21-16		Thu. 12/22/16		Fri. 12/23/16		Sat. 12/25/16						
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
4.1.1.4	Glovebox exhaust header APs < laboratory APs for < 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		Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf
			PDI-804-2		Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf
		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	Sat	Sat	Sat	Sat
			PDI-802-2		Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf
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	Sat	Sat	
	PDI-853-2		Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	
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	Sat	Sat	
	PDI-852-2		Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	Unsatisf	
				Completion Time	0732	1940	0712	1940	0726	1931	0727	1927	0724	1930	0737	1920					

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 12/23/16 Time 1920 Reviewed by: [Signature] Date: 12/27/16 Time: 0700
 On-duty Supervisor

Comments:

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

(Page 1 of 5)

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:	12-19-16	12/20/16	12/21/16	12/22/16	12/23/16	12/24/16	12/25/16
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	AS	AS	AS	AS	AS	AS	AS
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	0.0	0.0	0.0
	CP-305-H (LED Reading)	0.1	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	Completion Time:	0842	0645	0808	0820	0810	0730	0650	

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

(Page 2 of 5)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday: Initials:	12-19-16 Mon.	12/20/16 Tue.	12/21/16 Wed.	12-22-16 Thu.	12/23/16 Fri.	12/24/16 Sat.	12/25/16 Sun.	
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	AD	.05	.05	.05	.05	.05	.05	.05	.05
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-894-2	≤2.0 & > 0' in. wc	AD	.48	.47	.48	.48	.48	.48	.48	.48
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-895-1	≤2.0 & > 0' in. wc	AD	.05	.04	.05	.06	.06	.06	.06	.06
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-895-2	≤2.0 & > 0' in. wc	AD	.61	.61	.64	.62	.62	.62	.62	.62
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-817-1	≤2.0 & > 0' in. wc	AD	.27	.27	.27	.27	.27	.27	.27	.27
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-817-2	≤2.0 & > 0' in. wc	AD	.30	.29	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-817-4	≤2.0 & > 0' in. wc	AD	.31	.31	.31	.31	.31	.31	.31	.31
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-817-5	≤2.0 & > 0' in. wc	AD	.30	.29	.29	.29	.29	.29	.29	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-1	≤2.0 & > 0' in. wc	AD	.51	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-3	≤2.0 & > 0' in. wc	AD	.50	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-4	≤2.0 & > 0' in. wc	AD	.42	.44	.42	.45	.43	.43	.43	.43
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-1	≤2.0 & > 0' in. wc	AD	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-2	≤2.0 & > 0' in. wc	AD	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-4	≤2.0 & > 0' in. wc	AD	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-5	≤2.0 & > 0' in. wc	AD	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	AD	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-821-3	≤2.0 & > 0' in. wc	AD	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-821-4	≤2.0 & > 0' in. wc	AD	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY

ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]
(Page 3 of 5)

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	12-19-16	AS	12/20/16	AS	12/21/16	12-22-16	12/23/16	12/24/16	12/25/16
		PDI-822-2	≤2.0 & > 0' in. wc			1.14	1.12	.55	.56	.56	.56	.56
		PDI-822-4	≤2.0 & > 0' in. wc			.49	.48	.49	.49	.49	.49	.49
		PDI-822-5	≤2.0 & > 0' in. wc			.50	.51	.51	.51	.51	.51	.51
		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			.71	.71	.71	.71	.71	.71	.71
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0' in. wc			.31	.32	.31	.31	.31	.31	.31
		PDI-830-3	≤2.0 & > 0' in. wc			.29	.29	.28	.28	.28	.28	.28
		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			.69	.69	.69	.69	.69	.69	.69
		PDI-836-3	≤2.0 & > 0' in. wc			.58	.57	.57	.57	.57	.57	.57
		PDI-837-1	≤2.0 & > 0' in. wc			.59	.59	.59	.59	.59	.59	.59
		PDI-837-2	≤2.0 & > 0' in. wc			.48	.46	.48	.46	.46	.46	.46
PDI-837-3	≤2.0 & > 0' in. wc			.45	.43	.44	.42	.42	.42	.42		

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

(Page 4 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)										
				Date: Weekday: Initials:	12-19-16 Mon.	12-20-16 Tue.	12-21-16 Wed.	12-22-16 Thu.	12-23-16 Fri.	12-24-16 Sat.	12-25-16 Sun.			
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0' in. wc	KS	JM	RS	JF	GM	U	GM				
		PDI-838-2	≤2.0 & > 0' in. wc	.53	.52	.52	.52	.52	.52	.52				
		PDI-838-3	≤2.0 & > 0' in. wc	.59	.57	.58	.57	.57	.56	.56				
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-839-1	≤2.0 & > 0' in. wc	.58	.57	.58	.56	.56	.56	.56				
		PDI-839-2	≤2.0 & > 0' in. wc	.42	.41	.42	.41	.41	.41	.41				
		PDI-839-3	≤2.0 & > 0' in. wc	.59	.58	.59	.58	.58	.58	.58				
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc	.59	.58	.58	.57	.57	.57	.57				
		PDI-810-2	≤2.0 & > 0' in. wc	.16	.16	.16	.17	.17	.17	.17				
		PDI-810-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51				

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday:	12-19-16 Mon.	12-20-16 Tue.	12-21-16 Wed.	12-22-16 Thu.	12-23-16 Fri.	12-24-16 Sat.	12-25-16 Sun.	
			Initials:	AS	AS	AS	AS	JF	AS	U	U	U
4.1.3.4	South Bleed off filter plenum (FER22B) AP	PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & >0' in. wc ≤2.0 & >0' in. wc ≤2.0 & >0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
'NA	Combustible exclusion area around basement exhaust fan FER29 and bleed-off fans FER22A, FER22B, FER22C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
OC Operator Review and Page Count Complete (initials)				0921	0718	0839	0919	0840	0855	0720	U	U
				MS	MS	RL	KAM	KAM	U	U	U	U

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date 12/21/16 Time 0720 Reviewed by: [Signature] Date: 12/17/16 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:	Weekday:	Initials:	12-19-16	12-20-16	12-21-16	12-22-16	12-23-16	12-24-16
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				AS	JN	AS	JF	JN	JN	JN		
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	.59	.58	.59	.58	.58	.58	.58	.58	
		PDI-840-3	≤2.0 & > 0' in. wc	.50	.50	.51	.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	.32	.32	.32	.32	.32	.32
		PDI-831-2	≤2.0 & > 0' in. wc	.41	.41	.42	.42	.42	.42	.42	.42	.42
		PDI-831-3	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	.37	.37	.37	.37	.37	.37	.37	.37	.37	
	PDI-832-2	≤2.0 & > 0' in. wc	.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	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	.12	.12	.11	.11	.11	.11	.11	.11	
		PDI-807-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50	
		PDI-807-3	≤2.0 & > 0' in. wc	.51	.51	.50	.50	.50	.50	.50	.50	
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	
		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 Criterion	SURVEILLANCE RESULTS (in. wc)							
				Date:	12-19-16	12-20-16	12-21-16	12-22-16	12-23-16	12-24-16	12-25-16
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	AS	JM	KS	JF	JM			
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	.16	.16
		PDI-829-2	≤2.0 & > 0' in. wc	.36	.35	.36	.32	.32	.37	.32	.32
		PDI-829-3	≤2.0 & > 0' in. wc	.30	.30	.30	.29	.29	.29	.29	.29
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
		PDI-833-2	≤2.0 & > 0' in. wc	.50	.50	.50	.49	.49	.49	.49	.49
		PDI-833-3	≤2.0 & > 0' in. wc	.46	.46	.46	.44	.44	.44	.44	.44
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-1	≤2.0 & > 0' in. wc	.18	.18	.18	.18	.18	.18	.18	.18
		PDI-835-2	≤2.0 & > 0' in. wc	.42	.43	.45	.44	.44	.44	.44	.44
		PDI-835-3	≤2.0 & > 0' in. wc	.41	.41	.40	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	≤2.0 & > 0' in. wc	.21	.21	.21	.20	.20	.20	.20	.20
		PDI-815-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-815-4	≤2.0 & > 0' in. wc	.46	.44	.45	.43	.43	.43	.43	.43
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-5	≤2.0 & > 0' in. wc	.46	.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 (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	STBY	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)

SIRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)									
					Date:	Weekday:	12-19-16	12-20-16	12-21-16	12-22-16	12-23-16	12-24-16	12-25-16	
					AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0 ¹ in. wc		.14	.14	.14	.14	.14	.14	.14	.14	.14	.14
		PDI-812-2	≤2.0 & > 0 ¹ in. wc		.32	.32	.31	.32	.32	.32	.32	.32	.32	.32
		PDI-812-3	≤2.0 & > 0 ¹ in. wc		.30	.32	.31	.32	.32	.32	.32	.32	.32	.32
		PDI-812-4	≤2.0 & > 0 ¹ in. wc		.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
		PDI-812-5	≤2.0 & > 0 ¹ in. wc		.38	.37	.38	.37	.37	.37	.37	.37	.37	.37
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	HPT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ¹ in. wc		.01	.02	.01	.01	.01	.01	.01	.01	.01	.01
		PDI-865-2	≤2.0 & > 0 ¹ in. wc		.29	.29	.30	.29	.29	.29	.29	.29	.29	.29
		PDI-865-3	≤2.0 & > 0 ¹ in. wc		.32	.32	.32	.32	.32	.32	.32	.32	.32	.32
4.1.3.4	HPT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ¹ in. wc		.05	.05	.05	.04	.04	.04	.04	.04	.04	.04
		PDI-863-2	≤2.0 & > 0 ¹ in. wc		.29	.29	.30	.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: 12-19-16	12/20/16	12/21/16	12-22-16	12/23/16	12/24/16	12/25/16
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	AS	gm	AS	JF	gm	gm	gm
4.1.3.4	North Basement supply filter plenum (11VP-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	.42	.42	.42	.42	.42	.42	
	North corridor supply filter plenum (11VP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0' in. wc	.04	.04	.04	.03	.03	.03	.03
		PDI-856-2	≤ 2.0 & > 0' in. wc	.52	.53	.52	.53	.52	.52	.52
'NA	Combustible exclusion area around basement exhaust fan FER28 and bleed-off fans FER20A, FER20B, FER20C		0 lb/ft ² 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 ² 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)				0908	0710	0824	0920	0820	0750	0710
Completion time				u	AD P	PK	KAM	KAM	PK	u

¹ Non TSR requirement

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: [Signature] Date: 12/25/16 Time: 0710
 Reviewed by: [Signature] Date: 12/17 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.: 039746	PF-10 Thermistor File No.: 1046323	V-701 Thermistor File No.: 103762
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 2/2/17	Calibration Expiration Date: 2/6/17
	PF-11 Thermometer File No.: 042252	PF-11 Thermistor File No.: 105353	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 5/18/17	Calibration Expiration Date: 2/2/17	Calibration Expiration Date: 2/6/17

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criterion	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.	12/19/16	12/20/16	12/21/16	12/22/16	12/23/16	12/24/16	12/25/16		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	62.3	62.3	63.0	63.4	62.4	63.0	62.8		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	61.4	60.2	60.8	63.8	60.4	66.9	68.2		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	57.9	59.2	61.6	60.3	60.7	60.1	60.3		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	60.4	58.9	65.0	61.1	64.7	68.0	67.7		
	Completion Time:		0830	0755	0831	0839	0815	0750	0745		
	OC Operator Review and Page Count Complete (initials):		JPD	P. IL	SM	SM	KMM	AKM	AKM		

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 12/25/16 Time 0755

Reviewed by: [Signature] Date 1/5/17 Time 0700

On-duty Supervisor
 Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

Note	Date	Weekday:		12/26/16		12/27/16		12/28/16		12/29/16		12/30/16		12/31/16	
		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 PDI's are used.															
SRs	Description	SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	1.09	1.08	-1.98	2.00	-2.01	2.00	-1.98	2.00	-1.99	-2.00	2.00	-2.01	2.01	2.00
	100 area glovebox exhaust header ΔP	1.97	1.91	-1.92	1.94	-1.93	1.92	-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 ²	300 area glovebox exhaust header ΔP	1.97	1.97	-1.97	2.00	-1.98	1.99	-1.98	1.99	-1.98	-1.97	1.97	-1.97	1.97	1.98
	400 area glovebox exhaust header ΔP	1.98	1.98	-1.98	1.98	-1.98	1.97	-1.98	1.98	-1.98	-1.98	1.98	-1.97	1.97	1.97
4.1.1.3 4.1.2.3 ²	200 area laboratory header ΔP	0.19	0.21	-1.19	0.18	-1.19	0.21	-1.17	0.21	-1.19	-0.19	0.18	-0.19	0.19	0.19
	100 area laboratory header ΔP	0.23	0.25	-1.23	0.21	-1.23	0.23	-1.20	0.23	-1.24	-0.22	0.21	-0.21	0.21	0.22
4.1.1.1 4.1.1.5 4.1.2.2 ²	300 area laboratory header ΔP	0.16	0.22	-1.21	0.17	-1.21	0.18	-1.18	0.18	-1.19	-0.20	0.19	-0.19	0.19	0.19
	400 area laboratory header ΔP	0.17	0.21	-1.21	0.18	-1.21	0.18	-1.20	0.18	-1.20	-0.21	0.19	-0.21	0.19	0.20
4.1.1.3 4.1.2.3 ²	IFTT Facility ΔP	0.10	0.12	-1.12	0.13	-1.14	0.14	-1.13	0.13	-1.13	-0.13	0.12	-0.12	0.12	0.12
	North basement ΔP	0.06	0.10	-1.09	0.07	-1.09	0.09	-1.07	0.08	-1.08	-0.08	0.08	-0.07	0.08	0.08
4.1.1.3 4.1.2.3 ²	South basement ΔP	0.07	0.11	-1.10	0.07	-1.10	0.10	-1.08	0.09	-1.09	-0.09	0.09	-0.09	0.09	0.09
	IRT Tunnel ΔP	0.00	0.03	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	-1.00	0.00	-1.00	0.00	0.00

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. 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 ΔP >.050 or FR-802 Icon red and PDT-832 ΔP >.050 FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050 FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050 FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050 FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	At least one fan/plenum is in service 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: 12/16/16	12/17/16	12/20/16	12/21/16	12/23/16	12/30/16	12/31/16	Sun.
				Weekday: Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Shift: AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	
				Initials: <i>[Handwritten initials]</i>	<i>[Handwritten initials]</i>	<i>[Handwritten initials]</i>	<i>[Handwritten initials]</i>	<i>[Handwritten initials]</i>	<i>[Handwritten initials]</i>	<i>[Handwritten initials]</i>	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	Date: 12/26/16											
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.4	Glovebox exhaust header APs < laboratory APs for < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	12/28/16	12/29/16	12/30/16	12/31/16	12/31/16							
			PDI-803-2													
			PDI-804-2													
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	12/28/16	12/29/16	12/30/16	12/31/16	12/31/16							
		PDI-802-2														
PDI-804-2																
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	12/28/16	12/29/16	12/30/16	12/31/16	12/31/16									
PDI-853-2																
PDI-854-2																
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	12/28/16	12/29/16	12/30/16	12/31/16	12/31/16									
PDI-852-2																
PDI-854-2																
Completion Time					0700	1937	0720	1931	0724	1935	0727	1937	0725	1931	0720	

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: 12/31/16 Time: 1931 Reviewed by: [Signature] Date: 1/3/17 Time: 0700
 On-duty Supervisor

Comments:

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

(Page 1 of 5)

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:	12-26-16	12-27-16	12-28-16	12-29-16	12-30-16	12-31-16	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PJ	PJ	PJ	PJ	PJ	PJ	PJ
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	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	
		≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	
	Completion Time:	0900	0742	0720	0805	0753	0906		

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

(Page 2 of 5)

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	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-894-2	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-895-1	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-895-2	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-817-1	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-2	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-817-4	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-817-5	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-819-1	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-819-3	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-4	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-818-1	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-818-2	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-818-4	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-818-5	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-821-3	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-821-4	≤2.0 & > 0' in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT

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

(Page 3 of 5)

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 ¹ in. wc	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-822-2	≤2.0 & > 0 ¹ in. wc		.54	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54
		PDI-822-4	≤2.0 & > 0 ¹ in. wc		.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49
		PDI-822-5	≤2.0 & > 0 ¹ in. wc		.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-823-1	≤2.0 & > 0 ¹ in. wc		STBY	STBY	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 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-4	≤2.0 & > 0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-5	≤2.0 & > 0 ¹ in. wc		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	≤2.0 & > 0 ¹ in. wc		.71	.71	.71	.71	.71	.71	.71	.71	.71	.71	
		PDI-830-2	≤2.0 & > 0 ¹ in. wc		.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-830-3	≤2.0 & > 0 ¹ in. wc		.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-1	≤2.0 & > 0 ¹ in. wc		.07	.07	.07	.07	.07	.07	.07	.07	.07	.07	
		PDI-836-2	≤2.0 & > 0 ¹ in. wc		.69	.69	.69	.69	.69	.69	.69	.69	.69	.69	
		PDI-836-3	≤2.0 & > 0 ¹ in. wc		.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	
		PDI-837-1	≤2.0 & > 0 ¹ in. wc		.59	.59	.58	.58	.59	.58	.58	.58	.58	.58	
		PDI-837-2	≤2.0 & > 0 ¹ in. wc		.48	.48	.47	.47	.47	.47	.47	.47	.47	.47	
PDI-837-3	≤2.0 & > 0 ¹ in. wc		.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42		

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

(Page 4 of 5)

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	12-26-14	P7	12-27-14	PT	12-28-14	PT	12-29-14	PT	12-30-14	PT	12-31-14	PT
		PDI-838-2	≤2.0 & > 0' in. wc	.51	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52
		PDI-838-3	≤2.0 & > 0' in. wc	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58
		PDI-839-2	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-839-3	≤2.0 & > 0' in. wc	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59
	4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0' in. wc	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59
			PDI-810-2	≤2.0 & > 0' in. wc	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17
			PDI-810-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51

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

(Page 5 of 5)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:									
				Initials:	PT	PT	PT	PT	PT	PT	PT		
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI -811 -1 PDI -811 -2 PDI -811 -3	≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc ≤2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF		
'NA	Combustible exclusion area around basement exhaust fan FE829 and bleed-off fans FE822A, FE822B, FE822C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)										
OC Operator Review and Page Count Complete (initials)				Completion Time	SAT	SAT	SAT	SAT	SAT	SAT	SAT	0749	KAM
					0818	0745	0750	0750	0750	0754	0749		

'Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: Paul Wright Date: 12-31-16 Time: 0749 Reviewed by: [Signature] Date: 12/17 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	12-26-16	PT	12-27-16	PT	12-28-16	PT	12-29-16	PT	12-30-16	PT	12-31-16	PT
		PDI-840-2	≤2.0 & > 0 in'. wc	.16	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17
		PDI-840-3	≤2.0 & > 0' in. wc	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	STBY	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	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	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42
		PDI-831-3	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	
	PDI-832-2	≤2.0 & > 0' in. wc	.69	.69	.69	.69	.69	.69	.69	.69	.69	.69	.69	.69	
	PDI-832-3	≤2.0 & > 0' in. wc	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	
4.1.3.4	North Bleed off filter plenum (PF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	
		PDI-807-2	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	
		PDI-807-3	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	
4.1.3.4	North Bleed off filter plenum (PF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	OFF	OFF	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	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	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	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	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	PT	12-26-16	.16	.16	.16	.16	.16	.16	.16
		PDI-829-2	≤2.0 & > 0' in. wc	PT	12-27-16	.33	.33	.33	.33	.33	.33	.33
		PDI-829-3	≤2.0 & > 0' in. wc	PT	12-28-16	.29	.29	.29	.29	.29	.29	.29
		PDI-833-1	≤2.0 & > 0' in. wc	PT	12-29-16	.07	.07	.07	.07	.07	.07	.07
		PDI-833-2	≤2.0 & > 0' in. wc	PT	12-30-16	.50	.50	.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	PT	12-26-16	.45	.45	.45	.45	.45	.45	.45
		PDI-835-1	≤2.0 & > 0' in. wc	PT	12-27-16	.18	.18	.18	.18	.18	.18	.18
		PDI-835-2	≤2.0 & > 0' in. wc	PT	12-28-16	.42	.42	.42	.42	.42	.42	.42
		PDI-835-3	≤2.0 & > 0' in. wc	PT	12-29-16	.41	.41	.41	.41	.41	.41	.41
		PDI-815-1	≤2.0 & > 0' in. wc	PT	12-30-16	.21	.21	.21	.21	.21	.21	.21
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	PT	12-26-16	.49	.49	.49	.49	.49	.49	.49
		PDI-815-4	≤2.0 & > 0' in. wc	PT	12-27-16	.42	.42	.42	.42	.42	.42	.42
		PDI-815-5	≤2.0 & > 0' in. wc	PT	12-28-16	.45	.45	.45	.45	.45	.45	.45
		PDI-816-1	≤2.0 & > 0' in. wc	PT	12-29-16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0' in. wc	PT	12-30-16	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	PT	12-26-16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	PT	12-27-16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	PT	12-28-16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	PT	12-29-16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	PT	12-30-16	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	SURVEILLANCE RESULTS							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
				Weekday:	PT	PT	PT	PT	PT	PT	
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 > 0' in. wc	12-26-16	.14	.14	.14	.14	.14	.14	.14
		PDI-812-2	≤2.0 > 0' in. wc	12-27-16	.31	.31	.31	.31	.31	.31	.31
		PDI-812-3	≤2.0 > 0' in. wc	12-28-16	.31	.31	.31	.31	.31	.31	.31
		PDI-812-4	≤2.0 > 0' in. wc	12-29-16	.29	.28	.28	.28	.28	.28	.28
		PDI-812-5	≤2.0 > 0' in. wc	12-30-16	.36	.36	.36	.36	.36	.36	.36
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 > 0' in. wc	12-26-16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 > 0' in. wc	12-27-16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 > 0' in. wc	12-28-16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 > 0' in. wc	12-29-16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 > 0' in. wc	12-30-16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	.LFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 > 0' in. wc	12-26-16	.02	.02	.02	.02	.02	.02	.02
		PDI-865-2	≤2.0 > 0' in. wc	12-27-16	.28	.28	.29	.29	.29	.29	.29
		PDI-865-3	≤2.0 > 0' in. wc	12-28-16	.32	.32	.32	.32	.32	.32	.32
4.1.3.4	.LFTT supply filter plenum (LVP-863) ΔP	PDI-863-1	≤2.0 > 0' in. wc	12-26-16	.04	.04	.04	.04	.04	.04	.04
		PDI-863-2	≤2.0 > 0' in. wc	12-27-16	.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	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	PT	12-26-16	Mon.	PT	12-27-16	Tue.	PT	12-28-16	Wed.	PT	12-29-16	Thu.	PT	12-30-16	Fri.	PT	12-31-16	Sat.		
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc	PT																			
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	PT																			
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-2	≤ 2.0 & > 0' in. wc	PT																			
4.3.2.2	Combustible exclusion area around basement exhaust fan FE828 and bleed-off fans FE820A, FE820B, FE820C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	PT																			
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ 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	PT																			
			Completion time	PT	0900			0743				0752			0804			0800					
			OC Operator Review and Page Count Complete (initials)	PT																			

Non TSR requirement

Note: SRs 4.1.3.4 apply during mode 1 and mode 2, excluding intentionally opened confinement penetrations controlled under SAC 5.7.5, as stated in LCO 3.1.3.

Completed by: *Paul Longino* Date: 12-31-16 Time: 0806 Reviewed by: *[Signature]* Date: 1/5/17 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.: 039746	PF-10 Thermistor File No.: 040373	V-701 Thermistor File No.: 103762
	Calibration Expiration Date: 05-18-17	Calibration Expiration Date: 07-07-17	Calibration Expiration Date: 07-06-17
	PF-11 Thermometer File No.: 042252	PF-11 Thermistor File No.: 105353	V-704 Thermistor File No.: 039743
	Calibration Expiration Date: 05-18-17	Calibration Expiration Date: 07-07-17	Calibration Expiration Date: 07-06-17

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.	12-26-16	12-27-16	12-28-16	12-29-16	12-30-16	12-31-16			
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	61.6	61.8	62.5	61.9	63.0	63.4			
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	1.8.4	70.0	72.0	73.0	74.2	75.4			
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	59.7	60.7	63.1	62.8	61.8	62.1			
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	63.0	61.3	64.6	59.6	62.3	59.5			
	OC Operator Review and Page Count Complete (initials)	Completion Time:	0833	0905	0828	1005	0815	0850			

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 12-31-16 Time 0850
 Reviewed by: [Signature] Date: 1/5/17 Time: 0700
 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	Sat / Unsat.	1448	12/14/16	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.	1448	12/14/16	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.	1402	12/14/16	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.	1402	12/14/16	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.	1415	12/14/16	BF
			4.44 Seconds				

*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OJ Order #20.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANS Building T455-1 (PF-1), Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANS-DOE-ORDER-420.1B-EO-2013-001

ATTACHMENT A806.A.

External Combustion

20.2.61 NMAC Opacity

LANL Operating Permit P100-R2 | Monitoring Period July–December 2016

Attachment A806.A. – External Combustion

20.2.61 NMAC Opacity

Use of pipeline quality natural gas at LANL meets the requirement at Condition A805.A and constitutes compliance with 20.2.61 NMAC. Opacity did not exceed 20% over a 10-minute period and no visible emissions occurred during steady state operation.

ATTACHMENT A806.C.

External Combustion

20.2.61 NMAC Opacity – Units RLUOB-BHWs Fuel-Oil Fired

LANL Operating Permit P100-R2 | Monitoring Period July–December 2016

Attachment A806.C. – External Combustion

20.2.61 NMAC Opacity – Units RLUOB-BHWs Fuel Oil-Fired

No fuel oil was used during this certification period and no opacity measurements were required.