

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

Beryllium

TA-3-66 Beryllium Logs

**Semi-Annual Monitoring Report**  
**Sigma Facility TA-03-0066**

July 1 , 2014 - December 31, 2014

Metallography	Date	Number of Metallographic Specimens Used in the Polishing Operation
	Aug. 2014	2 samples
	Dec. 2014	8 samples

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

**Semi-Annual Monitoring Report**  
**Sigma Facility TA-03-0066**

July 1 , 2014 - December 31, 2014

Electroplating/Chemical Milling	Date	Weight or Volume of Beryllium Samples Processed	UOM
	7/9/2014	49.5	grams
	8/22/2014	54.4	grams

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

**Semi-Annual Monitoring Report**  
**Sigma Facility TA-03-0066**

July 1 , 2014 - December 31, 2014

Machining	Date	Weight or Volume of Beryllium Samples Processed	UOM
	8/8/2014	2.45	grams
	8/8/2014	2.35	grams

Arc Melting/Casting	Date	Weight or Volume of Beryllium Samples Processed	UOM
		No samples processed	

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



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

Beryllium

TA-35-213 Beryllium Operating Log

**July - December 2014**

**Sum Total of hours for July 1 - Dec 31, 2014:** **341**

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

Beryllium

TA-3-141 Beryllium HEPA Filter Differential Pressure  
Readings

July - December 2014  
TA-03-141 Beryllium HEPA Filter Differential Pressure Readings

TA-03-0141 New Mexico State Report for July-2014

	EXHAUST_HEPA_1_DP				EXHAUST_HEPA_2_DP				DUST_COLLECTOR_DP		
	04:00	12:00	20:00		04:00	12:00	20:00		04:00	12:00	20:00
07/01/14	2.89	2.98	2.96		1.57	1.60	1.59		1.02	1.11	1.15
07/02/14	2.80	2.86	2.87		1.52	1.57	1.55		0.98	0.99	1.03
07/03/14	2.76	2.89	2.94		1.51	1.55	1.59		0.87	1.02	1.02
07/04/14	2.76	2.81	2.82		1.51	1.53	1.54		0.87	0.98	1.07
07/05/14	2.77	2.84	2.78		1.52	1.53	1.51		0.91	1.02	1.00
07/06/14	2.76	2.85	2.79		1.51	1.52	1.52		0.96	1.05	1.09
07/07/14	2.76	2.82	2.79		1.50	1.53	1.52		0.98	1.08	1.04
07/08/14	2.76	2.96	2.76		1.52	1.58	1.52		1.02	1.07	0.93
07/09/14	2.72	2.82	2.78		1.49	1.54	1.51		0.89	0.96	1.06
07/10/14	2.70	2.80	2.76		1.48	1.53	1.50		0.93	1.03	1.06
07/11/14	2.72	2.80	2.83		1.49	1.53	1.55		0.98	1.10	1.02
07/12/14	2.75	2.81	2.80		1.51	1.54	1.51		0.91	1.03	1.13
07/13/14	2.76	2.83	2.78		1.51	1.54	1.51		0.96	0.96	1.04
07/14/14	2.73	2.84	2.76		1.50	1.55	1.49		0.90	1.00	1.09
07/15/14	2.79	2.89	2.68		1.53	1.57	1.51		0.83	0.88	0.99
07/16/14	2.67	2.72	2.62		1.50	1.53	1.47		0.85	0.91	0.93
07/17/14	2.48	2.71	2.65		1.41	1.52	1.50		0.89	0.95	0.98
07/18/14	2.64	2.68	2.76		1.47	1.51	1.54		0.88	0.90	1.06
07/19/14	2.62	2.69	2.68		1.48	1.51	1.50		0.95	1.03	0.93
07/20/14	2.54	2.64	2.61		1.43	1.48	1.47		0.90	1.00	1.09
07/21/14	2.58	2.62	2.59		1.45	1.47	1.47		0.93	0.00	0.02
07/22/14	2.51	2.59	2.57		1.43	1.45	1.44		-0.06	0.01	0.03
07/23/14	2.50	2.59	2.49		1.42	1.45	1.42		-0.08	0.01	0.00
07/24/14	2.50	2.62	2.59		1.43	1.47	1.46		-0.10	0.99	1.10
07/25/14	2.58	2.67	2.61		1.46	1.49	1.47		0.97	1.05	1.15
07/26/14	2.60	2.68	2.73		1.45	1.49	1.52		0.98	1.10	1.18
07/27/14	2.59	2.68	2.55		1.45	1.47	1.42		0.98	1.00	1.04
07/28/14	2.61	2.69	2.60		1.46	1.49	1.45		0.86	0.96	1.00
07/29/14	2.54	2.60	2.61		1.42	1.45	1.47		0.88	0.91	0.95
07/30/14	2.66	2.74	2.69		1.47	1.53	1.50		0.83	0.98	1.04
07/31/14	2.66	2.68	2.51		1.48	1.49	1.41		0.83	0.82	0.82

July - December 2014  
TA-03-141 Beryllium HEPA Filter Differential Pressure Readings

TA-03-0141 New Mexico State Report for

July-2014

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
Average:	2.71	1.50	0.89
Median:	2.72	1.50	0.98
Min:	2.48	1.41	-0.10
Max:	2.98	1.60	1.18

TA-03-0141 New Mexico State Report for August-2014

	EXHAUST_HEPA_1_DP				EXHAUST_HEPA_2_DP				DUST_COLLECTOR_DP		
	04:00	12:00	20:00		04:00	12:00	20:00		04:00	12:00	20:00
08/01/14	2.67	2.72	2.64		1.50	1.51	1.48		0.77	0.85	0.90
08/02/14	2.64	2.73	2.66		1.46	1.50	1.47		0.79	1.11	0.91
08/03/14	2.63	2.70	2.66		1.46	1.49	1.47		0.81	0.89	0.95
08/04/14	2.63	2.71	2.65		1.46	1.50	1.48		0.88	1.22	0.89
08/05/14	2.67	2.69	2.68		1.47	1.49	1.49		0.78	0.92	0.98
08/06/14	2.67	2.76	2.65		1.47	1.52	1.46		0.90	1.25	1.05
08/07/14	2.67	2.69	2.66		1.47	1.49	1.46		0.94	0.99	0.95
08/08/14	2.66	2.74	2.68		1.47	1.51	1.49		0.81	0.90	1.00
08/09/14	2.64	2.76	2.72		1.46	1.52	1.48		0.90	0.99	0.99
08/10/14	2.70	2.73	2.66		1.48	1.50	1.46		0.87	0.97	0.95
08/11/14	2.68	2.76	2.70		1.46	1.50	1.49		0.83	0.93	0.99
08/12/14	2.68	2.83	2.76		1.47	1.53	1.52		0.89	1.13	1.04
08/13/14	2.70	2.82	2.75		1.48	1.53	1.50		0.90	1.00	0.95
08/14/14	2.75	2.86	2.74		1.49	1.55	1.50		0.87	0.97	0.98
08/15/14	2.71	2.82	2.70		1.49	1.53	1.47		0.93	1.26	0.98
08/16/14	2.67	2.78	2.73		1.47	1.51	1.48		0.92	1.38	1.04
08/17/14	2.69	2.69	2.76		1.47	1.48	1.48		0.93	0.97	1.02
08/18/14	2.70	2.79	2.72		1.47	1.52	1.49		0.89	1.00	1.00
08/19/14	2.71	2.76	2.68		1.46	1.50	1.47		0.88	1.01	1.04
08/20/14	2.69	2.77	2.76		1.47	1.51	1.52		0.93	0.95	0.98
08/21/14	2.68	2.80	2.74		1.47	1.51	1.49		0.90	0.94	1.02
08/22/14	2.69	2.67	2.67		1.46	1.47	1.47		0.95	0.83	0.81
08/23/14	2.69	2.75	2.74		1.47	1.48	1.49		0.77	0.83	0.93
08/24/14	2.73	2.72	2.75		1.49	1.49	1.48		0.82	0.92	0.97
08/25/14	2.70	2.79	2.85		1.47	1.52	1.51		0.88	0.94	1.04
08/26/14	2.72	2.85	2.77		1.48	1.53	1.51		0.89	1.30	0.88
08/27/14	2.74	2.86	2.78		1.49	1.54	1.50		0.83	0.79	0.91
08/28/14	2.75	1.96	1.84		1.49	1.11	1.05		0.84	1.15	0.90
08/29/14	1.84	1.68	2.80		1.05	0.98	1.51		0.84	0.87	1.04
08/30/14	2.73	2.86	2.79		1.49	1.52	1.50		0.87	1.00	1.04
08/31/14	2.81	2.87	2.79		1.51	1.54	1.50		0.95	0.98	1.08

July - December 2014  
TA-03-141 Beryllium HEPA Filter Differential Pressure Readings

TA-03-0141 New Mexico State Report for

August-2014

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
Average:	2.69	1.47	0.95
Median:	2.72	1.49	0.94
Min:	1.68	0.98	0.77
Max:	2.87	1.55	1.38

## TA-03-0141 New Mexico State Report for September-2014

	EXHAUST_HEPA_1_DP				EXHAUST_HEPA_2_DP				DUST_COLLECTOR_DP		
	04:00	12:00	20:00		04:00	12:00	20:00		04:00	12:00	20:00
09/01/14	2.86	2.89	2.83		1.53	1.54	1.50		0.96	1.18	1.07
09/02/14	2.81	2.87	2.84		1.51	1.52	1.51		0.97	1.29	1.06
09/03/14	2.78	2.91	2.86		1.50	1.55	1.51		0.95	1.29	1.05
09/04/14	2.85	2.94	2.90		1.52	1.55	1.52		0.93	1.32	1.00
09/05/14	1.88	1.98	1.93		1.06	1.11	1.09		0.84	1.18	0.90
09/06/14	1.96	1.99	1.98		1.09	1.11	1.11		0.81	0.84	0.89
09/07/14	1.97	1.98	1.96		1.10	1.10	1.09		0.78	0.83	0.99
09/08/14	1.92	2.00	1.95		1.09	1.12	1.09		0.83	0.92	0.96
09/09/14	1.91	2.04	1.99		1.08	1.14	1.11		0.90	0.95	0.96
09/10/14	1.96	2.05	2.00		1.09	1.14	1.13		0.86	0.84	0.95
09/11/14	1.97	2.03	2.05		1.09	1.11	1.13		0.84	0.92	0.98
09/12/14	1.98	1.99	2.16		1.10	1.12	1.19		0.78	1.05	0.83
09/13/14	2.06	2.00	1.98		1.15	1.11	1.11		0.86	0.81	0.87
09/14/14	1.98	2.01	2.00		1.11	1.11	1.11		0.78	0.86	0.94
09/15/14	1.96	2.03	2.04		1.10	1.13	1.12		0.85	0.96	0.95
09/16/14	1.99	1.99	2.88		1.10	1.12	1.52		0.82	0.92	0.94
09/17/14	2.82	2.94	2.87		1.50	1.54	1.53		0.80	1.08	0.85
09/18/14	2.84	3.39	2.96		1.51	1.75	1.55		0.81	0.86	0.98
09/19/14	2.92	3.33	2.85		1.55	1.74	1.52		0.78	1.37	0.94
09/20/14	2.83	3.08	2.90		1.50	1.63	1.52		0.78	0.96	0.99
09/21/14	2.81	3.11	2.92		1.51	1.62	1.54		0.77	0.97	0.94
09/22/14	2.94	2.97	2.90		1.53	1.56	1.54		0.85	0.88	0.92
09/23/14	2.81	2.99	3.00		1.49	1.56	1.58		0.85	1.13	0.95
09/24/14	2.85	2.98	2.84		1.51	1.56	1.49		0.82	1.19	0.91
09/25/14	2.88	3.00	2.95		1.53	1.58	1.54		0.89	0.87	0.89
09/26/14	2.87	2.94	2.91		1.50	1.55	1.54		0.79	1.04	0.92
09/27/14	2.91	2.98	2.92		1.51	1.55	1.54		0.81	0.88	0.89
09/28/14	3.06	2.97	2.91		1.59	1.56	1.53		0.79	0.80	0.88
09/29/14	2.90	2.90	2.99		1.53	1.52	1.55		0.80	0.83	0.76
09/30/14	2.93	3.16	2.90		1.54	1.63	1.53		0.73	0.99	0.75
10/01/14	3.02	3.02	3.11		1.57	1.58	1.62		0.76	1.01	0.78



July - December 2014  
TA-03-141 Beryllium HEPA Filter Differential Pressure Readings

TA-03-0141 New Mexico State Report for

September-2014

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
Average:	2.58	1.38	0.92
Median:	2.85	1.51	0.89
Min:	1.88	1.06	0.73
Max:	3.39	1.75	1.37

TA-03-0141 New Mexico State Report for October-2014

	EXHAUST_HEPA_1_DP				EXHAUST_HEPA_2_DP				DUST_COLLECTOR_DP		
	04:00	12:00	20:00		04:00	12:00	20:00		04:00	12:00	20:00
10/01/14	3.02	3.02	3.11		1.57	1.58	1.62		0.76	1.01	0.78
10/02/14	3.09	3.14	2.97		1.61	1.63	1.55		0.78	0.78	0.78
10/03/14	3.11	3.12	3.10		1.59	1.62	1.60		0.78	0.91	0.93
10/04/14	3.02	3.07	3.04		1.57	1.58	1.58		0.87	0.92	0.94
10/05/14	3.07	3.07	3.11		1.58	1.60	1.61		0.90	0.87	0.89
10/06/14	3.04	3.14	3.16		1.58	1.63	1.63		0.89	0.92	0.99
10/07/14	3.13	3.16	3.16		1.60	1.62	1.62		0.90	0.91	0.98
10/08/14	3.07	3.20	3.12		1.60	1.63	1.61		0.91	1.21	0.95
10/09/14	3.14	3.18	3.14		1.62	1.64	1.63		0.88	1.13	0.88
10/10/14	3.16	3.22	3.18		1.61	1.66	1.63		0.85	0.88	0.87
10/11/14	3.15	3.13	3.20		1.61	1.62	1.63		0.87	0.87	0.89
10/12/14	3.07	3.21	3.41		1.60	1.63	1.73		0.88	0.89	0.83
10/13/14	3.11	3.25	3.18		1.61	1.66	1.64		0.85	1.03	0.86
10/14/14	3.16	3.22	3.18		1.61	1.65	1.62		0.85	1.11	0.89
10/15/14	3.13	3.23	3.19		1.62	1.65	1.63		0.88	1.16	0.92
10/16/14	3.25	3.17	3.04		1.65	1.61	1.57		0.89	0.81	0.84
10/17/14	3.01	3.11	3.05		1.55	1.59	1.56		0.77	0.81	0.84
10/18/14	3.14	3.19	3.01		1.61	1.62	1.56		0.78	0.79	0.76
10/19/14	3.12	3.31	3.19		1.60	1.67	1.61		0.85	0.87	0.93
10/20/14	3.22	3.32	3.26		1.63	1.68	1.66		0.89	0.90	0.92
10/21/14	3.24	3.27	3.24		1.64	1.65	1.63		0.90	0.89	0.88
10/22/14	3.17	3.31	3.26		1.62	1.68	1.65		0.86	0.94	0.93
10/23/14	3.22	3.27	3.22		1.62	1.65	1.63		0.88	0.91	0.92
10/24/14	3.23	3.29	3.32		1.61	1.67	1.67		0.89	0.91	0.99
10/25/14	3.17	3.27	3.29		1.60	1.65	1.66		0.93	0.89	1.00
10/26/14	3.22	3.40	3.32		1.62	1.70	1.67		0.93	0.93	0.95
10/27/14	3.38	3.34	3.39		1.70	1.67	1.69		0.87	0.93	0.88
10/28/14	3.31	3.00	3.34		1.66	1.53	1.68		0.81	-0.12	0.90
10/29/14	3.29	3.37	3.51		1.64	1.70	1.75		0.90	0.88	0.92
10/30/14	3.32	3.42	3.35		1.65	1.69	1.66		0.85	0.90	0.92
10/31/14	2.37	2.36	2.39		1.23	1.24	1.23		0.91	0.88	0.90

July - December 2014  
TA-03-141 Beryllium HEPA Filter Differential Pressure Readings

TA-03-0141 New Mexico State Report for

October-2014

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
Average:	3.17	1.62	0.89
Median:	3.18	1.62	0.89
Min:	2.36	1.23	-0.12
Max:	3.51	1.75	1.21

TA-03-0141 New Mexico State Report for November-2014

	EXHAUST_HEPA_1_DP				EXHAUST_HEPA_2_DP				DUST_COLLECTOR_DP		
	04:00	12:00	20:00		04:00	12:00	20:00		04:00	12:00	20:00
11/01/14	2.34	2.40	2.36		1.22	1.24	1.24		0.90	0.89	0.88
11/02/14	2.35	2.37	2.44		1.24	1.22	1.27		0.89	0.93	0.87
11/03/14	2.47	2.50	2.38		1.27	1.27	1.24		0.88	0.88	0.88
11/04/14	2.40	2.41	3.37		1.25	1.24	1.68		0.88	0.86	0.88
11/05/14	3.28	3.48	3.40		1.65	1.72	1.69		0.87	0.90	0.87
11/06/14	3.35	3.42	3.33		1.67	1.68	1.67		0.86	0.88	0.89
11/07/14	3.30	3.40	3.42		1.65	1.69	1.68		0.85	0.90	0.88
11/08/14	3.36	3.42	3.38		1.68	1.70	1.66		0.86	0.89	0.86
11/09/14	3.34	3.44	3.46		1.66	1.68	1.70		0.82	0.85	0.87
11/10/14	3.54	3.67	3.51		1.76	1.80	1.73		0.83	0.87	0.89
11/11/14	3.40	3.57	3.50		1.68	1.75	1.73		0.83	0.82	0.85
11/12/14	3.64	3.55	3.62		1.78	1.75	1.77		0.87	0.85	0.81
11/13/14	3.53	3.59	3.53		1.73	1.77	1.73		0.83	0.81	0.83
11/14/14	3.46	3.54	3.54		1.69	1.73	1.74		0.85	0.85	0.87
11/15/14	4.07	3.68	3.42		1.92	1.79	1.69		0.85	0.84	0.83
11/16/14	3.54	3.71	3.60		1.74	1.80	1.76		0.83	0.84	0.84
11/17/14	3.66	3.65	3.71		1.77	1.79	1.80		0.80	0.85	0.83
11/18/14	3.66	3.73	3.76		1.77	1.81	1.82		0.83	0.84	0.81
11/19/14	2.56	2.54	2.54		1.28	1.30	1.29		0.86	0.82	0.92
11/20/14	2.60	2.62	2.61		1.30	1.32	1.32		0.85	0.92	0.88
11/21/14	2.46	2.61	2.55		1.27	1.31	1.31		0.86	1.06	0.88
11/22/14	2.48	2.56	2.50		1.28	1.29	1.29		0.88	0.86	0.86
11/23/14	2.62	2.72	2.69		1.33	1.36	1.36		0.80	0.79	0.78
11/24/14	2.51	2.25	2.26		1.28	1.19	1.18		0.81	0.79	0.82
11/25/14	2.27	2.27	2.30		1.19	1.18	1.20		0.75	0.81	0.82
11/26/14	2.27	2.31	2.29		1.18	1.19	1.19		0.77	0.87	0.82
11/27/14	2.27	2.27	2.25		1.18	1.18	1.18		0.81	0.83	0.88
11/28/14	2.64	2.54	2.52		1.32	1.30	1.29		0.81	0.83	0.82
11/29/14	2.52	2.81	2.57		1.28	1.40	1.30		0.84	0.84	0.83
11/30/14	2.63	2.60	2.61		1.33	1.31	1.32		0.80	0.82	0.80
12/01/14	2.22	2.27	No Data		1.18	1.17	No Data		0.81	0.85	No Data

July - December 2014  
TA-03-141 Beryllium HEPA Filter Differential Pressure Readings

TA-03-0141 New Mexico State Report for

November-2014

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
Average:	2.96	1.48	0.85
Median:	2.66	1.35	0.85
Min:	2.22	1.17	0.75
Max:	4.07	1.92	1.06

TA-03-0141 New Mexico State Report for December-2014

	EXHAUST_HEPA_1_DP			EXHAUST_HEPA_2_DP			DUST_COLLECTOR_DP		
	04:00	12:00	20:00	04:00	12:00	20:00	04:00	12:00	20:00
12/01/14	2.22	2.27	2.28	1.18	1.17	1.19	0.81	0.85	0.84
12/02/14	2.23	2.55	2.57	1.16	1.31	1.28	0.83	0.82	0.84
12/03/14	2.23	2.27	2.31	1.17	1.19	1.18	0.77	0.92	0.87
12/04/14	2.26	2.24	2.29	1.19	1.16	1.18	0.85	0.87	0.85
12/05/14	2.27	2.32	2.27	1.20	1.20	1.18	0.78	0.87	0.86
12/06/14	2.25	2.29	2.27	1.18	1.19	1.19	0.84	0.86	0.84
12/07/14	2.25	2.27	2.26	1.18	1.17	1.17	0.83	0.82	0.83
12/08/14	2.24	2.27	2.58	1.17	1.18	1.31	0.85	0.90	0.86
12/09/14	2.53	2.54	2.71	1.30	1.28	1.35	0.84	0.89	0.85
12/10/14	2.66	2.73	2.69	1.33	1.36	1.34	0.85	0.85	0.83
12/11/14	2.56	2.60	2.59	1.30	1.31	1.31	0.84	0.88	0.80
12/12/14	2.57	2.61	2.71	1.31	1.32	1.35	0.80	0.88	0.83
12/13/14	2.53	2.63	2.64	1.29	1.32	1.33	0.80	0.80	0.80
12/14/14	2.60	2.77	2.75	1.32	1.37	1.36	0.80	0.79	0.75
12/15/14	2.60	2.75	2.73	1.32	1.37	1.37	0.81	0.85	0.82
12/16/14	2.71	2.63	2.58	1.35	1.32	1.31	0.80	0.80	0.84
12/17/14	2.66	2.62	2.66	1.35	1.33	1.34	0.85	0.86	0.82
12/18/14	2.71	2.73	2.74	1.35	1.36	1.36	0.80	0.85	0.84
12/19/14	2.28	2.35	2.34	1.19	1.21	1.20	0.81	0.80	0.79
12/20/14	2.30	2.71	2.72	1.19	1.35	1.36	0.82	0.79	0.80
12/21/14	2.74	2.82	2.97	1.36	1.40	1.47	0.80	0.78	0.81
12/22/14	2.91	3.99	3.75	1.44	1.90	1.79	0.76	0.83	0.83
12/23/14	3.75	4.07	3.76	1.78	1.92	1.78	0.82	0.81	0.83
12/24/14	3.83	3.81	3.73	1.82	1.84	1.79	0.80	0.84	0.83
12/25/14	3.76	3.73	4.07	1.80	1.80	1.91	0.81	0.81	0.81
12/26/14	3.74	3.92	3.86	1.80	1.87	1.83	0.82	0.80	0.81
12/27/14	3.83	3.83	3.92	1.81	1.83	1.86	0.78	0.79	0.80
12/28/14	3.80	3.88	3.77	1.82	1.85	1.80	0.79	0.76	0.78
12/29/14	3.88	4.00	3.78	1.85	1.89	1.80	0.80	0.81	0.81
12/30/14	3.79	3.94	3.96	1.79	1.85	1.85	0.78	0.76	0.77
12/31/14	3.92	4.14	3.91	1.84	1.93	1.85	0.77	0.76	0.80

July - December 2014  
TA-03-141 Beryllium HEPA Filter Differential Pressure Readings

TA-03-0141 New Mexico State Report for

December-2014

	EXHAUST_HEPA_1_DP	EXHAUST_HEPA_2_DP	DUST_COLLECTOR_DP
Average:	2.94	1.45	0.82
Median:	2.69	1.35	0.82
Min:	2.22	1.16	0.75
Max:	4.14	1.93	0.92

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

Beryllium

TA-55-PF4 HEPA Filtration Differential Pressure Readings



## Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	100 AREA GIB RXNALST AREA TEST
Procedure no.:	TA55-STP-104A, R3.1
Date of issue:	11/3/14
Working copy issued to:	M. DRESA
Working copy issued by:	F. SEVEREAS
Certified Operations Center Operator	

## Operations Center Operator Review

Signature: [Signature] Date: 11-04-14

Required Reading for this Surveillance has been completed.

## Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
M. DRESA	[Signature]	11/3/14
K. BARBERY	[Signature]	11/3/14

Comments: Completed on 11/3/14


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

(Page 1 of 3)

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

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

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 <i>mnt</i>
----------------	--	------------------------

Date: 11/03/14  
5.1[6][a]Photometer Cal. Expiration Date: 07/01/15  
5.1[6][b]Photometer Serial # 254308  
5.1[6][c]

## 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 $\Delta P$	.40 Inches wc
5.2[1][c]	Second-Stage HEPA Filter $\Delta P$	.35 Inches wc
5.2[2][d]	Third-Stage HEPA Filter $\Delta P$	.39 Inches wc

<b>\$ PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]</b>	
Follow the HEPA test procedure	
Cu = <u>34</u> ug/l(%) Final Stable Upstream Meter reading	Acceptance: $\geq 30$ meter reading
Stable Downstream (Cd%) Meter reading = <u>0.003</u> (%)	
Removal Efficiency (%) = $100\% - Cd\%$ = $100\% - \frac{0.003}{99.997} Cd\%$ = <u>99.997%</u> KGB 11.3.14	
Acceptance: $\geq 99.95\%$	Acceptable? (circle one) <u>YES</u> NO

<b>FIRST STAGE TEST [defense-in-depth]</b>	
Follow the HEPA test procedure	
Cu = <u>34</u> ug/l(%) Final Stable Upstream Meter reading	Acceptance: $\geq 30$ meter reading
Stable Downstream (Cd%) Meter reading = <u>0.007</u> (%)	
Removal Efficiency (%) = $100\% - Cd\%$ = $100\% - 0.007$ Cd% = <u>99.993%</u>	
Acceptance: $\geq 99.95\%$	Acceptable? (circle one) <u>YES</u> NO

## 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	<i>[Signature]</i>	<i>[Signature]</i>
V-852-AA	Closed	<i>[Signature]</i>	<i>[Signature]</i>
TP-852-1	Closed and Capped	<i>[Signature]</i>	<i>[Signature]</i>
TP-852-2	Closed and Capped	<i>[Signature]</i>	<i>[Signature]</i>
TP-852-3	Closed and Capped	<i>[Signature]</i>	<i>[Signature]</i>
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).	<u>SAT</u> UNSAT	<i>[Signature]</i> N/A

## Surveillance Test Procedure Acceptance

Date of Test:	11.3.14	(unless already listed elsewhere on the attachment)	
Test Results:	SATISFACTORY / UNSATISFACTORY (circle one)		
Surveillance Personnel:	<i>[Signature]</i> 183541 11/3/14 <i>[Signature]</i> 182658 11/03/14 Signature/Z#/date		
OC Operator:	<i>[Signature]</i> 11/3/14 Signature/Z#/Date	OC On-Duty Supervisor:	<i>[Signature]</i> 11/4/14 Signature/Z#/Date
Surveillance Test Results Review			
System Engineer:	<i>[Signature]</i> 182753 11/12/14 Signature/Z#/Date		
Comments	N/A		

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

(Page 1 of 3)

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

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

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 <i>mw</i>
----------------	--	-----------------------

Date: 11/23/14  
5.1[6][a]Photometer Cal. Expiration Date: 03/01/15  
5.1[6][b]Photometer Serial # 25430  
5.1[6][c]

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 $\Delta P$	.40	Inches wc
5.3[1][c]	Second-Stage HEPA Filter $\Delta P$	.40	Inches wc
5.3[1][d]	Third-Stage HEPA Filter $\Delta P$	.40	Inches wc

<b>\$ PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]</b>	
Follow the HEPA test procedure	
Cu = <u>33</u> ug/l(%) Final Stable Upstream Meter reading	Acceptance: $\geq 30$ meter reading
Stable Downstream (Cd%) Meter reading = <u>0.003</u> (%)	
Removal Efficiency (%) = $100\% - Cd\%$ = $100\% - \frac{0.003}{99.997} Cd\%$ = <u>99.997</u> % RGB 11.3.14	
Acceptance: $\geq 99.95\%$	Acceptable? (circle one) <u>YES</u> NO

<b>FIRST STAGE TEST [defense-in-depth]</b>	
Follow the HEPA test procedure	
Cu = <u>33</u> ug/l(%) Final Stable Upstream Meter reading	Acceptance: $\geq 30$ meter reading
Stable Downstream (Cd%) Meter reading = <u>0.004</u> (%)	
Removal Efficiency (%) = $100\% - Cd\%$ = $100\% - 0.004$ Cd% = <u>99.996</u> %	
Acceptance: $\geq 99.95\%$	Acceptable? (circle one) <u>YES</u> NO

## 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	<i>KESS</i>	<i>WMT</i>
V-852-AA	Closed	<i>KESS</i>	<i>WMT</i>
TP-853-1	Closed and Capped	<i>KESS</i>	<i>WMT</i>
TP-853-2	Closed and Capped	<i>KESS</i>	<i>WMT</i>
TP-853-3	Closed and Capped	<i>KESS</i>	<i>WMT</i>
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).	<input checked="" type="radio"/> SAT <input type="radio"/> UNSAT	<i>WMT</i>
			N/A

Surveillance Test Procedure Acceptance			
Date of Test:	11.3.14	(unless already listed elsewhere on the attachment)	
Test Results:	SATISFACTORY / UNSATISFACTORY (circle one)		
Surveillance Personnel:	<i>183541 11/3/14</i> <i>187803 11/03/14</i>		
	Signature/Z#/date		
OC Operator:	<i>11/3/14</i> <i>2/2/14</i>	OC On-Duty Supervisor:	<i>11/4/14</i> <i>187803</i>
	Signature / Z# / Date		Signature / Z# / Date
Surveillance Test Results Review			
System Engineer:	<i>182758 11/12/14</i>		
	Signature / Z# / Date		
Comments	<i>N/A</i>		

**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>mm</i>	V-855-J	Closed and Locked	<i>mm</i>
V-854-H	Closed	<i>mm</i>	V-855-D	Closed	<i>mm</i>
V-854-G	Closed	<i>mm</i>	V-855-C	Closed	<i>mm</i>
V-854-D	Closed	<i>mm</i>	V-855-B	Closed	<i>mm</i>
V-854-C	Closed	<i>mm</i>	V-855-A	Closed	<i>mm</i>
V-854-B	Closed	<i>mm</i>	V-855-8	Closed and Locked	<i>mm</i>
V-854-A	Closed	<i>mm</i>	V-859-7	Closed	<i>mm</i>
V-854-8	Closed and Locked	<i>mm</i>	V-859-5	Closed	<i>mm</i>
V-858-7	Closed	<i>mm</i>	V-859-3	Closed	<i>mm</i>
V-858-5	Closed	<i>mm</i>	V-859-2	Closed	<i>mm</i>
V-858-3	Closed	<i>mm</i>	V-859-1	Closed	<i>mm</i>
V-858-2	Closed	<i>mm</i>			
V-858-1	Closed	<i>mm</i>			
V-854-AA	Closed	<i>mm</i>			

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

<b>Step 3.4[7]</b>	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 <b>dogged shut</b> .	<b>Initials</b> <i>mm</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>mm</i>	Step 3.1[2]	Obtain current copy of STP	Initials <i>mm</i>
Step 5.1[2]	Plenum (Circle One) <u>SAT</u> UNSAT	Initial <i>mm</i>			

Date:

10/30/14  
5.1[4][a]

Photometer Cal.

Expiration Date: 07/01/15  
5.1[4][b]

Photometer

Serial # 102226  
5.1[4][c]

Step	Item	FF-854
5.2[1]	First-stage HEPA Filter ΔP	.10 Inches wc
5.2[2]	Second-Stage HEPA Filter ΔP	.11 Inches wc
5.2[3]	Third-Stage HEPA Filter ΔP	.10 Inches wc

\$	PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]	
Follow the HEPA test procedure		
Cu = <u>30</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)	<u>YES</u> NO

	FIRST STAGE TEST [defense-in-depth]	
Follow the HEPA test procedure		
Cu = <u>30</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)	<u>YES</u> NO

## 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>Wmt</i>	<i>Kgs</i>
V-854-AA	Closed	<i>Wmt</i>	<i>Kgs</i>
V-870A	Open	<i>Wmt</i>	<i>Kgs</i>
V-890	Open	<i>Wmt</i>	<i>Kgs</i>
TP-854-1	Closed and Capped	<i>Wmt</i>	<i>Kgs</i>
TP-854-2	Closed and Capped	<i>Wmt</i>	<i>Kgs</i>
TP-854-3	Closed and Capped	<i>Wmt</i>	<i>Kgs</i>
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).	<del>SAT</del> UNSAT	N/A

Surveillance Test Procedure Acceptance	
Date of Test:	10.30.14 (unless already listed elsewhere on the attachment)
Test Results:	<del>SATISFACTORY</del> UNSATISFACTORY (circle one)
Surveillance Personnel:	<i>[Signature]</i> 183541 10.30.14 <i>Wmt/Kgs</i> 10/30/14 Signature/Z#/date
OC Operator:	<i>[Signature]</i> 270997 10/30/14 Signature / Z# / Date
OC On-Duty Supervisor:	<i>[Signature]</i> 10/31/14 187803 Signature / Z# / Date
Surveillance Test Results Review	
System Engineer:	<i>[Signature]</i> 11-3-14 Signature / Z# / Date
Comments	None

## Attachment C, SRL Exhaust FF-858 Data Sheet

(Page 1 of 2)

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

Date:

6/30/14  
5.1[4][a]

Photometer Cal.

Expiration Date: 07/01/15  
5.1[4][b]

Photometer

Serial # 100026  
5.1[4][c]

Step	Item	FF-858
5.3[3]	First-stage HEPA Filter $\Delta P$	.08 Inches wc
5.3[4]	Second-Stage HEPA Filter $\Delta P$	.05 Inches wc
5.3[5]	Third-Stage HEPA Filter $\Delta P$	.05 Inches wc

<b>\$</b>	<b>PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]</b>
Follow the HEPA test procedure	
Cu = <u>42</u> ug/l(%) Final Stable Upstream Meter reading	Acceptance: $\geq 30$ meter reading
Stable Downstream (Cd%) Meter reading = <u>0.011</u> (%)	
Removal Efficiency (%) = $100\% - Cd\%$ = $100\% - 0.011$ Cd% = <u>99.989</u> %	
Acceptance: $\geq 99.95\%$	Acceptable? (circle one) <u>YES</u> NO

	<b>FIRST STAGE TEST [defense-in-depth]</b>
Follow the HEPA test procedure	
Cu = <u>42</u> ug/l(%) Final Stable Upstream Meter reading	Acceptance: $\geq 30$ meter reading
Stable Downstream (Cd%) Meter reading = <u>0.009</u> (%)	
Removal Efficiency (%) = $100\% - Cd\%$ = $100\% - 0.009$ Cd% = <u>99.991</u> %	
Acceptance: $\geq 99.95\%$	Acceptable? (circle one) <u>YES</u> NO

## 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>Wine</i>	<i>KPS</i>
V-854-AA	Closed	<i>Wine</i>	<i>KPS</i>
V-870A	Open	<i>Wine</i>	<i>KPS</i>
V-890	Open	<i>Wine</i>	<i>KPS</i>
TP-858-1	Closed and Capped	<i>Wine</i>	<i>KPS</i>
TP-858-2	Closed and Capped	<i>Wine</i>	<i>KPS</i>
TP-854-3	Closed and Capped	<i>Wine</i>	<i>KPS</i>
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).	<del>SAT</del> UNSAT	N/A

Surveillance Test Procedure Acceptance			
Date of Test:	(unless already listed elsewhere on the attachment)		
Test Results:	<u>SATISFACTORY</u> / UNSATISFACTORY (circle one)		
Surveillance Personnel:	<i>83541 10.30.14</i> Signature/Z#/date		
OC Operator:	<i>270997 10/30/14</i> Signature / Z# / Date	OC On-Duty Supervisor:	<i>181803 10/31/14</i> Signature / Z# / Date
Surveillance Test Results Review			
System Engineer:	<i>171532 11-3-14</i> Signature / Z# / Date		
Comments	<i>None</i>		

**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>mm</i>	Step 3.1[2]	Obtain current copy of STP	Initials <i>mm</i>
Step 5.1[2]	Plenum (Circle One) <b>SAT</b> UNSAT	Initial <i>mm</i>			

Date:

Photometer Cal. 07/04/15

Photometer

10/30/14

Expiration Date: 07/01/14

Serial # 100326

5.5[4][a]

5.5[4][b]

5.5[4][c]

Step	Item	FF-855
5.6[1]	First-stage HEPA Filter ΔP	.15 Inches wc
5.6[2]	Second-Stage HEPA Filter ΔP	.15 Inches wc
5.6[3]	Third-Stage HEPA Filter ΔP	.15 Inches wc

\$	<b>PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]</b>	
Follow the HEPA test procedure		
Cu = 37	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)	<b>YES</b> NO

<b>FIRST STAGE TEST [defense-in-depth]</b>		
Follow the HEPA test procedure		
Cu = 37	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)	<b>YES</b> NO

## 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>Wunt</i>	<i>Koff</i>
V-854-AA	Closed	<i>Wunt</i>	<i>Koff</i>
V-870B	Open	<i>Wunt</i>	<i>Koff</i>
V-891	Open	<i>Wunt</i>	<i>Koff</i>
TP-855-1	Closed and Capped	<i>Wunt</i>	<i>Koff</i>
TP-855-2	Closed and Capped	<i>Wunt</i>	<i>Koff</i>
TP-855-3	Closed and Capped	<i>Wunt</i>	<i>Koff</i>
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).	<i>SAT</i> <i>UNSAT</i>	<i>Koff</i>  N/A

Surveillance Test Procedure Acceptance	
Date of Test:	(unless already listed elsewhere on the attachment)
Test Results:	<u>SATISFACTORY</u> / UNSATISFACTORY (circle one)
Surveillance Personnel:	<i>W. P. D. 183541 10.30.14</i> <i>W. P. D. 183541 10/30/14</i> Signature/Z#/date
OC Operator:	<i>W. P. D. 27097 10/30/14</i> <i>W. P. D. 187803 10/31/14</i> Signature / Z# / Date
Surveillance Test Results Review	
System Engineer:	<i>W. P. D. 171532 10/31/14</i> Signature / Z# / Date
Comments	<i>None</i>

## Attachment E, SRL Exhaust FF-859 Data Sheet

(Page 1 of 2)

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

Date: 10/20/14 Photometer Cal. Expiration Date: 07/01/15 Photometer Serial # 10222  
 5.5[4][a] 5.5[4][b] 5.5[4][c]

Step	Item	FF-859
5.7[3]	First-stage HEPA Filter ΔP	<u>.05</u> Inches wc
5.7[4]	Second-Stage HEPA Filter ΔP	<u>.09</u> Inches wc
5.7[5]	Third-Stage HEPA Filter ΔP	<u>.04</u> Inches wc

<b>\$</b>	<b>PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]</b>
Follow the HEPA test procedure	
Cu = <u>3</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) <u>YES</u> NO

	<b>FIRST STAGE TEST [defense-in-depth]</b>
Follow the HEPA test procedure	
Cu = <u>3</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) <u>YES</u> NO

## 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>	<i>kgf</i>
V-854-AA	Closed	<i>mm</i>	<i>kgf</i>
V-870B	Open	<i>mm</i>	<i>kgf</i>
V-891	Open	<i>mm</i>	<i>kgf</i>
TP-859-1	Closed and Capped	<i>mm</i>	<i>kgf</i>
TP-859-2	Closed and Capped	<i>mm</i>	<i>kgf</i>
TP-855-3	Closed and Capped	<i>mm</i>	<i>kgf</i>
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>kgf</i>  N/A

Surveillance Test Procedure Acceptance			
Date of Test:	(unless already listed elsewhere on the attachment)		
Test Results:	SATISFACTORY / UNSATISFACTORY (circle one)		
Surveillance Personnel:	<i>kgf</i> 83541 10/30/14 <i>mm</i> 15280/10/30/14 Signature/Z#/date		
OC Operator:	<i>kgf</i> 270647 10/30/14 Signature / Z# / Date	OC On-Duty Supervisor:	<i>kgf</i> 10/31/14 152803 Signature / Z# / Date
Surveillance Test Results Review			
System Engineer:	<i>kgf</i> 171532 11-3-14 Signature / Z# / Date		
Comments	<i>kgf</i> None		



# **ATTACHMENT A707.C.c**

Beryllium

TA-55-PF4 HEPA Filtration Differential Pressure  
Readings

## Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004 R17
Date of issue:	07-01-14
Working copy issued to:	J SMELTZ
Working copy issued by:	B CHANCE
	Certified Operations Center Operator

### Operations Center Operator Review

8/5/14  
 Signature Date

Required Reading for this Surveillance has been completed.

### Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R BRISCOE	BC	07-01-14
B CHANCE	BC	07-01-14
D DUNLAVY	BC	07-01-14
A DUNSEITH	BC	07-01-14
J LOVATO	BC	07-01-14
R LUM	BC	07-01-14
A ORTIZ	BC	07-01-14
F SEIBERT	BC	07-01-14
J SMELTZ	BC	07-01-14
M WITTMAN	BC	07-01-14

Comments:


[illegible]

## 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:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
	Weekday:														
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Initials:														
SRS	Description	Gauge		Acceptance		SURVEILLANCE RESULTS (in. wc)									
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤ 1.0 in. wc <sup>1</sup>												
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤ 1.0 in. wc <sup>1</sup>												
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤ 1.0 in. wc <sup>1</sup>												
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤ 1.0 in. wc <sup>1</sup>												
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤ 0.05 in. wc <sup>1</sup>												
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤ 0.05 in. wc <sup>1</sup>												
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤ 0.05 in. wc <sup>1</sup>												
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤ 0.05 in. wc <sup>1</sup>												
4.1.1.3 4.1.2.3 <sup>2</sup>	IFIT Facility ΔP	PDI-865-4 or PDI-865-5	≤ 0.05 in. wc												
	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc												
	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc												
	IRT Tunnel ΔP	PDI-901 or PDI-901	< 0.00 in. wc												



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

(Page 2 of 3)

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:	Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.					
		Shift:	Initials:	AM		PM		AM		PM		AM		PM		AM		PM			
				Acceptance Criteria	Readings	SURVEILLANCE RESULTS															
						Sat. / Unsat. (circle one)															
4.1.1.6	Description	Acceptance Criteria	Readings	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
					Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
					Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
					Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
4.1.1.6	Description	Acceptance Criteria	Readings	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
					Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
					Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
					Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
4.1.1.6	Description	Acceptance Criteria	Readings	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
					Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
					Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
					Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
4.1.1.6	Description	Acceptance Criteria	Readings	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
					Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
					Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
					Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
4.1.1.6	Description	Acceptance Criteria	Readings	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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
					Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
					Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
					Sat	Sat	Sat	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)

Note		Date:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.		Weekday:														
		Shift:	AM		PM		AM		PM		AM		PM		AM	
		Initials:														
4.1.1.4	Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400	Acceptance Criteria	SURVEILLANCE RESULTS													
		Gauge	Sat. / Unsat. (circle one)													
		Area														
		Description														
		PDI-814-2 PDI-803-2 PDI-804-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
PDI-820-2 PDI-802-2 PDI-804-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
PDI-870-2 PDI-853-2 PDI-854-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
PDI-864-2 PDI-852-2 PDI-854-2	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
Completion Time																

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: R. J. Jones Date: 7/14/14 Time: 1924 Reviewed by: R. J. Jones Date: 7/14/14 Time: 1825

On-duty Supervisor

Comments:



(Page 1 of 4)

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

SR	Description / Gauge	Date:	Mon.	Tue.	7/2/14	7/3/14	7/4/14	7/4/14	7/4/14	7/4/14
		Weekday:			Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:		gm	221	gm				
		Acceptance Criteria								
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) (LCD Reading) (LED Reading)	Record Calculated Value		0.0	0.0	0.0	0.0	0.0	0.0	0.0
		$\geq -0.1$ ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:		6815	0757	0720	0755	0740	0752	

## 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.
				Weekday:	Initials:	Initials:	Initials:	Initials:	Initials:	Initials:
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	$\leq 0.0$ & $> 0^1$ in. wc			7/11/14	7/12/14	7/13/14	7/14/14	7/15/14
		PDI-894-2	$\leq 0.0$ & $> 0^1$ in. wc							
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc			7/11/14	7/12/14	7/13/14	7/14/14	7/15/14
		PDI-895-2	$\leq 0.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	$\leq 0.0$ & $> 0^1$ in. wc			7/11/14	7/12/14	7/13/14	7/14/14	7/15/14
		PDI-817-2	$\leq 0.0$ & $> 0^1$ in. wc							
		PDI-817-4	$\leq 0.0$ & $> 0^1$ in. wc							
		PDI-817-5	$\leq 0.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	$\leq 0.0$ & $> 0^1$ in. wc			7/11/14	7/12/14	7/13/14	7/14/14	7/15/14
		PDI-819-3	$\leq 0.0$ & $> 0^1$ in. wc							
		PDI-819-4	$\leq 0.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-1	$\leq 0.0$ & $> 0^1$ in. wc			7/11/14	7/12/14	7/13/14	7/14/14	7/15/14
		PDI-818-2	$\leq 0.0$ & $> 0^1$ in. wc							
		PDI-818-4	$\leq 0.0$ & $> 0^1$ in. wc							
		PDI-818-5	$\leq 0.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	$\leq 0.0$ & $> 0^1$ in. wc			7/11/14	7/12/14	7/13/14	7/14/14	7/15/14
		PDI-821-3	$\leq 0.0$ & $> 0^1$ in. wc							
		PDI-821-4	$\leq 0.0$ & $> 0^1$ in. wc							



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

(Page 3 of 4)

SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)									
			Date:									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
Acceptance Criteria												
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	PDI-822-1	≤.0 &gt; 0 <sup>1</sup> in. wc		.80	.81	.81	.82	.82	.82		
		PDI-822-2	≤.0 &gt; 0 <sup>1</sup> in. wc		.57	.56	.56	.56	.56	.55		
		PDI-822-4	≤.0 &gt; 0 <sup>1</sup> in. wc		.49	.48	.48	.48	.48	.48		
		PDI-822-5	≤.0 &gt; 0 <sup>1</sup> in. wc		.51	.51	.51	.51	.51	.51		
		PDI-823-1	≤.0 &gt; 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	PDI-823-2	≤.0 &gt; 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-823-4	≤.0 &gt; 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-823-5	≤.0 &gt; 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	PDI-830-1	≤.0 &gt; 0 <sup>1</sup> in. wc		.57	.57	.57	.58	.58	.58		
		PDI-830-2	≤.0 &gt; 0 <sup>1</sup> in. wc		.31	.31	.31	.30	.31	.30		
		PDI-830-3	≤.0 &gt; 0 <sup>1</sup> in. wc		.28	.28	.28	.28	.28	.28		
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	PDI-836-1	≤.0 &gt; 0 <sup>1</sup> in. wc		.96	.96	.96	.96	.96	.96		
		PDI-836-2	≤.0 &gt; 0 <sup>1</sup> in. wc		.57	.56	.56	.57	.57	.58		
		PDI-836-3	≤.0 &gt; 0 <sup>1</sup> in. wc		.55	.55	.55	.56	.55	.55		
		PDI-837-1	≤.0 &gt; 0 <sup>1</sup> in. wc		.51	.51	.51	.51	.51	.51		
		PDI-837-2	≤.0 &gt; 0 <sup>1</sup> in. wc		.41	.41	.41	.41	.41	.41		
PDI-837-3	≤.0 &gt; 0 <sup>1</sup> in. wc		.39	.39	.39	.39	.39	.39				

(Page 4 of 4)

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

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

Date: 7/9/14 Time: 1826

On-duty Supervisor

## Comments

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) ΔP	PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.1.7	400 area re-circulation filter plenum (HVP-808) ΔP	PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	PDI-811-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-811-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-811-3	≤2.0 & > 0 <sup>1</sup> in. wc									
			Completion Time									
OC Operator Review and Page Count Complete (initials)												

(Page 1 of 4)

[illegible]



## 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) ΔP	PDI-829-1	≤2.0 & > 0 <sup>1</sup> in. wc			.10	.10	.10	.10			7/6/14
		PDI-829-2	≤2.0 & > 0 <sup>1</sup> in. wc		.29	.30	.30	.30	.29	.28		7/5/14
		PDI-829-3	≤2.0 & > 0 <sup>1</sup> in. wc		.12	.12	.12	.12	.11	.11		7/4/14
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	PDI-833-1	≤2.0 & > 0 <sup>1</sup> in. wc		.97	.97	.98	.97	.98	.97		
		PDI-833-2	≤2.0 & > 0 <sup>1</sup> in. wc		.48	.48	.49	.48	.48	.48		
		PDI-833-3	≤2.0 & > 0 <sup>1</sup> in. wc		.45	.46	.46	.46	.47	.46		
	PDI-835-1	≤2.0 & > 0 <sup>1</sup> in. wc		.15	.15	.15	.15	.14	.15			
	PDI-835-2	≤2.0 & > 0 <sup>1</sup> in. wc		.44	.44	.44	.44	.44	.44			
4.1.3.4	100 area re-circulation filter plenum (HVP-804) ΔP	PDI-835-3	≤2.0 & > 0 <sup>1</sup> in. wc		.41	.41	.40	.41	.40	.41		
		PDI-815-1	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-815-2	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY		
	PDI-815-4	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY			
	PDI-815-5	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY			
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	PDI-816-1	≤2.0 & > 0 <sup>1</sup> in. wc		.37	.37	.37	.37	.36	.37		
		PDI-816-2	≤2.0 & > 0 <sup>1</sup> in. wc		.42	.42	.42	.42	.43	.42		
		PDI-816-4	≤2.0 & > 0 <sup>1</sup> in. wc		.42	.42	.41	.42	.42	.42		
		PDI-816-5	≤2.0 & > 0 <sup>1</sup> in. wc		.45	.45	.44	.44	.44	.44		

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

(Page 3 of 4)

SRs	Description	Gauge	Date:									
			Weekday:									
			Initials:									
			Acceptance Criteria									
			SURVEILLANCE RESULTS (in. wc)									
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤.0 & > 0' in. wc									
		PDI-812-2	≤.0 & > 0' in. wc									
		PDI-812-3	≤.0 & > 0' in. wc									
		PDI-812-4	≤.0 & > 0' in. wc									
		PDI-812-5	≤.0 & > 0' in. wc									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤.0 & > 0' in. wc									
		PDI-813-2	≤.0 & > 0' in. wc									
		PDI-813-3	≤.0 & > 0' in. wc									
		PDI-813-4	≤.0 & > 0' in. wc									
		PDI-813-5	≤.0 & > 0' in. wc									
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤.0 & > 0' in. wc									
		PDI-865-2	≤.0 & > 0' in. wc									
		PDI-865-3	≤.0 & > 0' in. wc									
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤.0 & > 0' in. wc									
		PDI-863-2	≤.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.		
				Weekday:	Initials:							
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0 <sup>1</sup> in. wc			gn	gn	gn	gn	gn	gn	gn
		PDI-857-2	≤ 2.0 & > 0 <sup>1</sup> in. wc			gn	gn	gn	gn	gn	gn	gn
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0 <sup>1</sup> in. wc			gn	gn	gn	gn	gn	gn	gn
		PDI-856-2	≤ 2.0 & > 0 <sup>1</sup> in. wc			gn	gn	gn	gn	gn	gn	gn
1 <sup>1</sup> NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>2</sup> combustibles in designated exclusion area (within 15 feet of fans)			gn	gn	gn	gn	gn	gn	gn
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>2</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less			gn	gn	gn	gn	gn	gn	gn
Completion time						0843	0825	0737	0810	0742	0812	
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: Serene M. Date 7/6/14 Time 0810 Reviewed by: BBS Date: 7/14/14 Time: 1826

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:		7/2/14		7/8/14		7/9/14		7/10/14		7/11/14		7/12/14		7/13/14		
	Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
	Shift:		AM PM		AM PM		AM PM		AM PM		AM PM		AM PM		AM PM		
	Initials:		u h		h		h		h		h		h		h		
SRS	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)													
		PDI-814-1 or PDI-814-2	≤ 1.0 in. wc <sup>1</sup>	-1.95	-1.94	-1.92	-1.95	-1.95	-1.95	-1.96	-1.95	-1.97	-1.93	-1.96	-1.92	-1.94	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤ 1.0 in. wc <sup>1</sup>	-1.92	-1.94	-1.93	-1.94	-1.94	-1.93	-1.93	-1.94	-1.94	-1.93	-1.92	-1.94	-1.94	
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤ 1.0 in. wc <sup>1</sup>	-1.98	-1.98	-1.98	-1.98	-1.97	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤ 1.0 in. wc <sup>1</sup>	-1.97	-1.94	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	
	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤ 0.05 in. wc <sup>1</sup>	-0.20	-0.20	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤ 0.05 in. wc <sup>1</sup>	-0.23	-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 ΔP	PDI-853-1 or PDI-853-2	≤ 0.05 in. wc <sup>1</sup>	-0.18	-0.22	-0.22	-0.23	-0.23	-0.22	-0.22	-0.22	-0.23	-0.23	-0.22	-0.22	-0.22	
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤ 0.05 in. wc <sup>1</sup>	-0.18	-0.19	-0.19	-0.20	-0.20	-0.19	-0.19	-0.19	-0.19	-0.20	-0.21	-0.21	-0.21	
	IFTT Facility ΔP	PDI-865-4 or PDI-865-5	≤ 0.05 in. wc	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	
4.1.1.3 4.1.2.3 <sup>2</sup>	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	
	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-0.12	-0.11	-0.12	-0.13	-0.13	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	
	IRT Tunnel ΔP	PDI-901 or PDI-901	< 0.00 in. wc	-0.136	-0.139	-0.139	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	



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

(Page 2 of 3)

Note	Date:	7/7/14		7/8/14		7/9/14		7/10/14		7/11/14		7/12/14		7/13/14	
		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
SRs	Description	Weekday:		Weekday:		Weekday:		Weekday:		Weekday:		Weekday:		Weekday:	
		Shift:		Shift:		Shift:		Shift:		Shift:		Shift:		Shift:	
SRs	Description	Initials:		Initials:		Initials:		Initials:		Initials:		Initials:		Initials:	
		Acceptance Criteria		Acceptance Criteria		Acceptance Criteria		Acceptance Criteria		Acceptance Criteria		Acceptance Criteria		Acceptance Criteria	
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 $\Delta P > .050$ or FR-802 Icon red and PDT-832 $\Delta P > .050$	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 $\Delta P > .050$ or FR-804 Icon red and PDT-835 $\Delta P > .050$	At least one fan/plenum is in service	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 $\Delta P > .050$ or FR-806 Icon red and PDT-837 $\Delta P > .050$	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	400 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 $\Delta P > .050$ or FR-808 Icon red and PDT-839 $\Delta P > .050$	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 $\Delta P > .050$ or FR-812 Icon red and PDT-841 $\Delta P > .050$	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	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)

Note		Date:	7/7/14	7/8/14	7/9/14	7/10/14	7/11/14	7/12/14	7/13/14	
Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	
		Initials:	u	h	h	h	h	h	h	
SRs	Description	Area	Gauge	SURVEILLANCE RESULTS						
4.1.1.4	Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-803-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-820-2	Sat	Sat	Sat	Sat	Sat	Sat	
	100 Area	PDI-802-2	Sat	Sat	Sat	Sat	Sat	Sat		
		PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
		PDI-870-2	Sat	Sat	Sat	Sat	Sat	Sat		
		PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
	300 Area	PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat		
		PDI-864-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
		PDI-852-2	Sat	Sat	Sat	Sat	Sat	Sat		
		PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
	400 Area	PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat		
		PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
		PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat		
		PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
Completion Time			0734	1931	0731	1943	0727	1930	0737	1930

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: ad Date: 7/13/14 Time: 1930Reviewed by: BBJ Date: 7/15/14 Time: 0730

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

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

SR	Description / Gauge  Flammable Gas Channel Check  DET-305-3 (LCD Reading)  CP-305-H (LED Reading)  (DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Date:	7/7/14	7/8/14	7-9-14	7/10/14	7/11/14	7-12-14	7-13-14	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	gm	ST	PT		gm	RU	PT	PT
		SURVEILLANCE RESULTS (percentage)								
4.4.1.1	Acceptance Criteria	NA								
			0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Record Calculated Value  ≥ -0.1; ≤ +0.1	Sat / Unsat.	Sat. / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.		
		Sat / Unsat.	Sat. / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.		
		0725	0840	0750	0800	0825	0820	0720		



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

(Page 2 of 4)

				Date:	7/7/14	7/8/14	7-9-14	7/10/14	7/11/14	7-12-14	7-13-14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	gm	RH	PT	gm	RH	PT	PT
				Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
SRs	Description	Gauge									
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	.10	.11	.10	.10	.10	.10	.11	.11
		PDI-894-2	≤2.0 & > 0' in. wc	.55	.54	.54	.54	.54	.52	.52	.51
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc	.21	.21	.21	.21	.21	.21	.21	.21
		PDI-895-2	≤2.0 & > 0' in. wc	.62	.62	.62	.62	.62	.68	.68	.68
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		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
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-1	≤2.0 & > 0' in. wc	.25	.26	.26	.26	.25	.26	.26	.26
		PDI-818-2	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-818-4	≤2.0 & > 0' in. wc	.39	.32	.32	.32	.32	.32	.32	.32
		PDI-818-5	≤2.0 & > 0' in. wc	.32	.30	.29	.29	.29	.29	.29	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.39	.40	.40	.40
		PDI-821-3	≤2.0 & > 0' in. wc	.34	.45	.42	.44	.45	.43	.43	.43
		PDI-821-4	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	7/7/14	7/8/14	7-9-14	7/10/14	7/11/14	7-12-14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Initials:	gm	2H	PT	gm	2H	PT
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	PDI-822-1	≤2.0 & > 0 <sup>1</sup> in. wc		.80	.83	.81	.81	.83	.82
		PDI-822-2	≤2.0 & > 0 <sup>1</sup> in. wc		.56	.56	.55	.56	.56	.55
		PDI-822-4	≤2.0 & > 0 <sup>1</sup> in. wc		.48	.49	.48	.48	.49	.49
		PDI-822-5	≤2.0 & > 0 <sup>1</sup> in. wc		.51	.51	.51	.51	.51	.51
		PDI-823-1	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	PDI-823-2	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-830-1	≤2.0 & > 0 <sup>1</sup> in. wc		.57	.57	.57	.57	.58	.58
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	PDI-830-2	≤2.0 & > 0 <sup>1</sup> in. wc		.31	.30	.30	.30	.30	.30
		PDI-830-3	≤2.0 & > 0 <sup>1</sup> in. wc		.78	.78	.78	.78	.78	.78
		PDI-836-1	≤2.0 & > 0 <sup>1</sup> in. wc		.96	.97	.97	.96	.96	.96
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	PDI-836-2	≤2.0 & > 0 <sup>1</sup> in. wc		.56	.58	.58	.56	.58	.58
		PDI-836-3	≤2.0 & > 0 <sup>1</sup> in. wc		.55	.56	.55	.55	.56	.57
		PDI-837-1	≤2.0 & > 0 <sup>1</sup> in. wc		.51	.51	.51	.51	.51	.51
	300 area re-circulation filter plenum (HVP-806) ΔP	PDI-837-2	≤2.0 & > 0 <sup>1</sup> in. wc		.41	.41	.41	.41	.41	.41
		PDI-837-3	≤2.0 & > 0 <sup>1</sup> in. wc		.39	.39	.39	.39	.39	.39



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

(Page 4 of 4)

		Date:	7/7/14	7/8/14	7-9-14	7/10/14	7/11/14	7-12-14	7-13-14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	gr	DL	DT	gr	DL	DT	DT
SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	PDI-838-1	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	.41	.41	.41	.41	.41	.41	.41
		PDI-838-3	.39	.39	.39	.39	.39	.39	.39
	400 area re-circulation filter plenum (HVP-808) ΔP	PDI-839-1	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	.41	.41	.41	.41	.41	.41	.41
		PDI-839-3	.42	.42	.42	.42	.41	.41	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	PDI-810-1	.16	.16	.16	.16	.15	.15	.15
		PDI-810-2	.49	.49	.49	.49	.49	.49	.49
		PDI-810-3	.48	.48	.48	.48	.48	.48	.48
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	PDI-811-1	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		Completion Time	0824	0922	0805	0816	0815	0818	0728
OC Operator Review and Page Count Complete (initials)									
			gr	DL	DT	gr	DL	DT	DT

Non TSR requirement:

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

Completed by: Paul Angille Date 7-13-14 Time 0727 Reviewed by: RB.D Date: 7-15-14 Time: 0731

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:	7/7/14	7/8/14	7/9/14	7-10-14	7/11/14	7-12-14	7-13-14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Initials:											
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤ 0.0 & > 0 <sup>1</sup> in. wc	.16	.16	.16	.16	.16	.16	.16	
		PDI-840-2	≤ 0.0 & > 0 <sup>1</sup> in. wc	.51	.52	.52	.52	.52	.52	.52	
		PDI-840-3	≤ 0.0 & > 0 <sup>1</sup> in. wc	.42	.42	.42	.42	.41	.41	.41	
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤ 0.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-841-2	≤ 0.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-841-3	≤ 0.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤ 0.0 & > 0 <sup>1</sup> in. wc	.33	.33	.33	.33	.33	.33	.33	
		PDI-831-2	≤ 0.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41	
		PDI-831-3	≤ 0.0 & > 0 <sup>1</sup> in. wc	.37	.37	.37	.37	.37	.38	.38	
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤ 0.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.32		
	PDI-832-2	≤ 0.0 & > 0 <sup>1</sup> in. wc	.60	.60	.60	.60	.60	.60	.60		
	PDI-832-3	≤ 0.0 & > 0 <sup>1</sup> in. wc	.54	.54	.54	.54	.55	.55	.55		
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤ 0.0 & > 0 <sup>1</sup> in. wc	.11	.11	.11	.11	.11	.11	.11	
		PDI-807-2	≤ 0.0 & > 0 <sup>1</sup> in. wc	.48	.48	.47	.48	.47	.48	.48	
		PDI-807-3	≤ 0.0 & > 0 <sup>1</sup> in. wc	.44	.44	.44	.44	.44	.44	.44	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤ 0.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	≤ 0.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤ 0.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	



(Page 2 of 4)

July - December 2014  
TA-55-PF4 HEPA Filtration Differential Pressure Readings

[illegible]

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

(Page 3 of 4)

SRs	Description	Gauge	Date:									
			Weekday:							Initials:		
			Acceptance Criteria			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			SURVEILLANCE RESULTS (in. wc)									
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-2	≤.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-3	≤.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-4	≤.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-5	≤.0 &gt; 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤.0 &gt; 0 <sup>1</sup> in. wc	.77	.76	.46	.48	.63	.84	.84	.84	
		PDI-813-2	≤.0 &gt; 0 <sup>1</sup> in. wc	.31	.31	.22	.22	.31	.31	.31	.31	
		PDI-813-3	≤.0 &gt; 0 <sup>1</sup> in. wc	.32	.32	.25	.25	.31	.32	.32	.32	
		PDI-813-4	≤.0 &gt; 0 <sup>1</sup> in. wc	.31	.31	.25	.25	.33	.32	.32	.32	
		PDI-813-5	≤.0 &gt; 0 <sup>1</sup> in. wc	.28	.28	.22	.22	.29	.28	.28	.28	
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤.0 &gt; 0 <sup>1</sup> in. wc	.03	.03	.03	.03	.03	.03	.03	.03	
		PDI-865-2	≤.0 &gt; 0 <sup>1</sup> in. wc	.32	.28	.30	.31	.31	.31	.31	.31	
		PDI-865-3	≤.0 &gt; 0 <sup>1</sup> in. wc	.40	.31	.38	.39	.39	.39	.39	.39	
4.1.3.4	IFTT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤.0 &gt; 0 <sup>1</sup> in. wc	.07	.07	.07	.07	.07	.07	.07	.07	
		PDI-863-2	≤.0 &gt; 0 <sup>1</sup> in. wc	.29	.29	.29	.29	.29	.29	.29	.29	



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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:						
				Weekday:						
				Initials:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				gm	gm	gm	PT	PT	PT	PT
SURVEILLANCE RESULTS										
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.20	.20	.20	.20	.20	.20	.20
		PDI-857-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.51	.51	.50	.50	.50	.50	.50
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.23	.23	.23	.23	.24	.24	.24
		PDI-856-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.75	.75	.61	.61	.72	.72	.72
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time				0814	0912	0806	0819	0810	0827	0738
OC Operator Review and Page Count Complete (initials)				gm	gm	gm	gm	gm	gm	gm

<sup>1</sup> Non TSR requirement

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

Completed by: Paul Trujillo Date 7-13-14 Time 0738 Reviewed by: BBB Date: 7/15/14 Time: 0732

On-duty Supervisor

Comments:

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

(Page 1 of 3)

[illegible]





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

(Page 3 of 3)

Note		Date:	7/14/14		7/15/14		7/16/14		7/17/14		7/18/14		7/19/14		7/20/14	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	BC		BC		BC		BC		BC		BC		BC	
SRs	Description	Area	Gauge	SURVEILLANCE RESULTS												
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-803-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		100 Area	PDI-820-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-802-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
300 Area	PDI-870-2	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		
400 Area	PDI-864-2	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		
		Completion Time		0700	1921	0725	1925	0731	1940	0730	1940	0715	1918	0719	1920	1927

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: [Signature] Date: 7/21/14 Time: 1927 Reviewed by: [Signature] Date: 7/21/14 Time: 1606

On-duty Supervisor

Comments:



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

(Page 1 of 4)

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

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

Description / Gauge	Date:	7/14/14	7/15/14	7/16/14	7/17/14	7-18-14	7/19/14	7/20/14
		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
SR	Initials:	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4.4.1.1	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
	Flammable Gas Channel Check							
	DET-305-3 (LCD Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Record Calculated Value							
	$\geq -0.1$ ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Completion Time:	08/2	0846	0745	0856	0704	0808	0744

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	jm	zht	jm	PL	nm	z	nm							07/20/14
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc	.20	.20	.20	.20	.22									06
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc	.66	.67	.66	.67	.66									67
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY									29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-817-3	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY									31
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY									32
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY									30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY									41
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY									41
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-3	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY									41
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY									41
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY									41
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.40	.40	.40									41
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-821-2	$\leq 2.0$ & $> 0^1$ in. wc	.42	.42	.42	.42	.42									41
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39									41
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39									41



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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
				7/14/14	7/15/14	7/16/14	7/17/14	7/18/14	7/19/14	7/20/14							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				for	EB	for	EB	nm	for	nm							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	PDI-822-1	≤ 0.0 & > 0.1 in. wc	.82	.84	.82	.83	.83	.83	.84							
		PDI-822-2	≤ 0.0 & > 0.1 in. wc	.57	.57	.57	.57	.56	.56	.57							
		PDI-822-4	≤ 0.0 & > 0.1 in. wc	.48	.49	.48	.48	.48	.48	.48							
		PDI-822-5	≤ 0.0 & > 0.1 in. wc	.51	.51	.51	.51	.51	.51	.52							
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	PDI-823-1	≤ 0.0 & > 0.1 in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-823-2	≤ 0.0 & > 0.1 in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-823-4	≤ 0.0 & > 0.1 in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-823-5	≤ 0.0 & > 0.1 in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	PDI-830-1	≤ 0.0 & > 0.1 in. wc	.56	.59	.57	.59	.59	.58	.58							
		PDI-830-2	≤ 0.0 & > 0.1 in. wc	.30	.30	.30	.30	.30	.30	.30							
		PDI-830-3	≤ 0.0 & > 0.1 in. wc	.28	.28	.28	.28	.28	.28	.28							
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	PDI-836-1	≤ 0.0 & > 0.1 in. wc	.96	.97	.96	.94	.96	.96	.96							
		PDI-836-2	≤ 0.0 & > 0.1 in. wc	.57	.58	.57	.58	.58	.58	.57							
		PDI-836-3	≤ 0.0 & > 0.1 in. wc	.55	.54	.56	.54	.56	.55	.55							
	300 area re-circulation filter plenum (HVP-806) ΔP	PDI-837-1	≤ 0.0 & > 0.1 in. wc	.51	.51	.51	.51	.51	.51	.51							
		PDI-837-2	≤ 0.0 & > 0.1 in. wc	.41	.41	.41	.41	.41	.41	.41							
		PDI-837-3	≤ 0.0 & > 0.1 in. wc	.39	.39	.39	.39	.39	.39	.39							

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

(Page 4 of 4)

SKs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	7/14/14	7/15/14	7/16/14	7/17/14	7-18-14	7/19/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:	gm	zob	gm	zob	mm	zob	mm
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.41	.41	.41	.41	.40	.42
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc	.39	.39	.39	.39	.39	.39	.38
	400 area re-circulation filter plenum (HVP-808) ΔP	PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.42	.42	.41	.41	.40
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc	.15	.14	.15	.15	.15	.16	.16
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc	.48	.49	.48	.49	.49	.48	.48
	South Bleed off filter plenum (FF-822B) ΔP	PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc	.46	.48	.47	.47	.48	.48	.48
		PDI-811-1	≤2.0 & > 0 <sup>1</sup> in. wc	off	off	off	off	off	off	off
PDI-811-2		≤2.0 & > 0 <sup>1</sup> in. wc	off	off	off	off	off	off	off	
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	PDI-811-3	≤2.0 & > 0 <sup>1</sup> in. wc	off	off	off	off	off	off	off
		Completion Time	0955	0918	0800	0851	0712	0757	0757	
OC Operator Review and Page Count Complete (initials)				zob	zob	zob	zob	zob	zob	zob

Non TSR requirement:

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

Completed by: Michael Irish Date: 7/20/14 Time: 0757 Reviewed by: [Signature] Date: 7/21/14 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	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
					Weekday:							
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-840-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-840-3	≤2.0 & > 0 <sup>1</sup> in. wc									
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-841-3	≤2.0 & > 0 <sup>1</sup> in. wc									
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-831-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-831-3	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-832-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-832-3	≤2.0 & > 0 <sup>1</sup> in. wc									
	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-807-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-807-3	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-809-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-809-3	≤2.0 & > 0 <sup>1</sup> in. wc									

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	PDI-829-1	≤2.0 & >0 <sup>1</sup> in. wc	7/14/14	7/15/14	7-16-14	7/17/14	7-18-14	7/19/14	7/20/14
		PDI-829-2	≤2.0 & >0 <sup>1</sup> in. wc							
		PDI-829-3	≤2.0 & >0 <sup>1</sup> in. wc							
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	PDI-833-1	≤2.0 & >0 <sup>1</sup> in. wc							
		PDI-833-2	≤2.0 & >0 <sup>1</sup> in. wc							
		PDI-833-3	≤2.0 & >0 <sup>1</sup> in. wc							
4.1.3.4	100 area re-circulation filter plenum (HVP-804) ΔP	PDI-835-1	≤2.0 & >0 <sup>1</sup> in. wc							
		PDI-835-2	≤2.0 & >0 <sup>1</sup> in. wc							
		PDI-835-3	≤2.0 & >0 <sup>1</sup> in. wc							
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	PDI-815-1	≤2.0 & >0 <sup>1</sup> in. wc							
		PDI-815-2	≤2.0 & >0 <sup>1</sup> in. wc							
		PDI-815-4	≤2.0 & >0 <sup>1</sup> in. wc							
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-815-5	≤2.0 & >0 <sup>1</sup> in. wc							
		PDI-816-1	≤2.0 & >0 <sup>1</sup> in. wc							
		PDI-816-2	≤2.0 & >0 <sup>1</sup> in. wc							
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-816-4	≤2.0 & >0 <sup>1</sup> in. wc							
		PDI-816-5	≤2.0 & >0 <sup>1</sup> in. wc							



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

(Page 3 of 4)

SRs	Description	Gauge	Date:									
			Weekday:									
			Initials:									
			Acceptance Criteria									
SURVEILLANCE RESULTS (in. wc)												
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	STBY	STBY	.16	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	STBY	STBY	.39	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	STBY	STBY	.39	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	STBY	STBY	.35	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	STBY	STBY	.32	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	.84	.84	STBY	.83	.84	.83	.84	.63	.83	.83
		PDI-813-2	.31	.31	STBY	.31	STBY	.31	.31	.32	.32	.32
		PDI-813-3	.31	.31	STBY	.31	STBY	.31	.31	.32	.32	.32
		PDI-813-4	.32	.32	STBY	.32	STBY	.32	.32	.33	.33	.33
		PDI-813-5	.28	.28	STBY	.28	STBY	.28	.28	.28	.28	.28
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03
		PDI-865-2	.31	.31	.31	.31	.31	.31	.31	.31	.31	.32
		PDI-865-3	.40	.42	.39	.40	.39	.39	.39	.39	.39	.39
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	.07	.06	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-863-2	.29	.27	.27	.26	.25	.25	.25	.25	.25	.25

(Page 4 of 4)

July - December 2014

### **I Non TSR requirement**

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

Completed by: Michael Inch Date 7/20/14 Time 0814 Reviewed by: \_\_\_\_\_

Date: 7/2/14 Time: 1:00

On-duty Supervisor

Comments:

2/15/14 Ray 201 combustible loading in combustible excavation area. One fiberglass ladder and one aluminum ladder with rubber pads on legs. Notified OPS at 0850

2/15/14 combustible loading used; i now clear of combustibles 0910



## 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:	7-14-14		7/15/14						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	<sup>1</sup> PDI-857-1	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-857-2	≤ 2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	<sup>1</sup> PDI-856-1	≤ 2.0 & > 0 <sup>1</sup> in. wc									
		PDI-856-2	≤ 2.0 & > 0 <sup>1</sup> 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 <sup>2</sup> combustibles in designated exclusion area (within 15 feet of fans)									
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>2</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less									
				Completion time	1042							
				OC Operator Review and Page Count Complete (initials)	<i>[Signature]</i>							

<sup>1</sup> Non TSR requirement

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

Completed by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Reviewed by: \_\_\_\_\_ Date: 7/21/14 Time: 1600

On-duty Supervisor

Comments: Combustibles removed from red line area in Rm 207

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

(Page 1 of 3)

Note	Date:	7/21/14		7/22/14		7/23/14		7/24/14		7/25/14		7/26/14		7/27/14	
		Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:		AM		PM		AM		PM		AM		PM	
		Initials:		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.	Gauge Acceptance Criteria	PDI-814-1 or PDI-814-2		≤ 1.0 in. wc <sup>1</sup>		-1.96		-1.95		-1.96		-1.98		-1.95	
		PDI-820-1 or PDI-820-2		≤ 1.0 in. wc <sup>1</sup>		-1.93		-1.92		-1.93		-1.94		-1.93	
		PDI-870-1 or PDI-870-2		≤ 1.0 in. wc <sup>1</sup>		-1.98		-1.98		-1.98		-1.98		-1.98	
		PDI-864-1 or PDI-864-2		≤ 1.0 in. wc <sup>1</sup>		-1.97		-1.97		-1.97		-1.97		-1.97	
		PDI-803-1 or PDI-803-2		≤ 0.05 in. wc <sup>1</sup>		-2.00		-2.00		-2.00		-2.00		-2.00	
		PDI-802-1 or PDI-802-2		≤ 0.05 in. wc <sup>1</sup>		-2.22		-2.22		-2.22		-2.22		-2.22	
		PDI-853-1 or PDI-853-2		≤ 0.05 in. wc <sup>1</sup>		-2.22		-2.22		-2.22		-2.22		-2.22	
		PDI-852-1 or PDI-852-2		≤ 0.05 in. wc <sup>1</sup>		-2.00		-2.00		-2.00		-2.00		-2.00	
		PDI-865-4 or PDI-865-5		≤ 0.05 in. wc		-1.99		-1.99		-1.99		-1.99		-1.99	
		PDI-804-1 or PDI-804-2		< 0.00 in. wc		-1.10		-1.10		-1.10		-1.10		-1.10	
4.1.1.3 4.1.2.3 <sup>2</sup>	North basement AP	PDI-854-1 or PDI-854-2		< 0.00 in. wc		-1.10		-1.10		-1.10		-1.10		-1.10	
		PDI-901 or PDI-901		< 0.00 in. wc		-1.05		-1.05		-1.05		-1.05		-1.05	
		PDI-901 or PDI-901		< 0.00 in. wc		-1.05		-1.05		-1.05		-1.05		-1.05	

SURVEILLANCE RESULTS  
(in. wc)



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

(Page 2 of 3)

Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.	Date:	7/21/14	7/22/14	7/23/14	7/24/14	7/25/14	7/26/14	7/27/14						
	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM					
	Initials:	000	u	p. 21	u	u	000	u	u					
SRs	Description	Readings	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)											
		Acceptance Criteria												
	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	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FR-803 Icon red and PDT-833 ΔP >.050 or FR-804 Icon red and PDT-835 ΔP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 ΔP >.050 or FR-806 Icon red and PDT-837 ΔP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		FR-807 Icon red and PDT-838 ΔP >.050 or FR-808 Icon red and PDT-839 ΔP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 ΔP >.050 or FR-812 Icon red and PDT-841 ΔP >.050	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:	7/21/14		7/22/14		7/23/14		7/24/14		7/25/14		7/26/14		7/27/14			
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
		Initials:	P		K		P		P		P		K		K			
4.1.1.4	Description Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			PDI-803-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-804-2	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		
		100 Area	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	
			PDI-870-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		300 Area	PDI-854-2	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	
			PDI-852-2	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	
		400 Area	PDI-864-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-852-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
			PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
			Completion Time	0723	0740	0741	0741	0741	0741	0741	0741	0741	0741	0741	0741	0741	0741	0741

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: REY PAUL Date 7/21/14 Time 1436Reviewed by: REY PAUL Date: 7/21/14 Time: 0735

On-duty Supervisor

Comments:



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

(Page 1 of 4)

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

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

SR	Description / Gauge  Flammable Gas Channel Check DET-305-3 (LCD Reading)  CP-305-H (LED Reading)  (DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Date:	7/21/14	7/22/14	7-23-14	7/24/14	7-25-14	7-26-14	7-27-14	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	AM	AM	PT		AM	PT	PT	PT
		SURVEILLANCE RESULTS (percentage)								
4.4.1.1	Acceptance Criteria									
		NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Record Calculated Value ≥ -0.1; ≤ +0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		(Sat) / Unsat.	(Sat) / Unsat.	(Sat) / Unsat.	(Sat) / Unsat.	(Sat) / Unsat.	(Sat) / Unsat.	(Sat) / Unsat.		
	Completion Time:	0751	0757	0805	0758	0753	0703	0640		

## 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:	7/21/14	7/22/14	7-23-14	7/24/14	7-25-14	7-26-14	7-27-14						
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
				Initials:	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	.05	.06		.06	.06	.06	.06	.06						
		PDI-894-2	≤2.0 & > 0' in. wc	.51	.51		.51	.51	.51	.51	.51						
4.1.3.4	South Corridor supply (HVP-810) ΔP	'PDI-895-1	≤2.0 & > 0' in. wc	.06	.06		.06	.06	.06	.07	.07						
		PDI-895-2	≤2.0 & > 0' in. wc	.67	.66		.68	.67	.68	.68	.68						
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	'PDI-817-1	≤2.0 & > 0' in. wc	.29	.29		.30	.30	.30	.30	.30						
		PDI-817-2	≤2.0 & > 0' in. wc	.31	.31		.31	.31	.31	.31	.31						
		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	.31	.30	.30	.31						
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & > 0' in. wc	.41	.41		.41	.41	.41	.41	.41						
		PDI-819-3	≤2.0 & > 0' in. wc	.41	.41		.41	.41	.41	.41	.41						
		PDI-819-4	≤2.0 & > 0' in. wc	.34	.34		.34	.34	.34	.34	.34						
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	'PDI-818-1	≤2.0 & > 0' in. wc	.57	.57		.57	.57	.57	.57	.57						
		PDI-818-2	≤2.0 & > 0' in. wc	.57	.57		.57	.57	.57	.57	.57						
		PDI-818-4	≤2.0 & > 0' in. wc	.57	.57		.57	.57	.57	.57	.57						
		PDI-818-5	≤2.0 & > 0' in. wc	.57	.57		.57	.57	.57	.57	.57						
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc	.57	.57		.57	.57	.57	.57	.57						
		PDI-821-3	≤2.0 & > 0' in. wc	.57	.57		.57	.57	.57	.57	.57						
		PDI-821-4	≤2.0 & > 0' in. wc	.57	.57		.57	.57	.57	.57	.57						



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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
				7/21/14	7/22/14	7/23/14	7/24/14	7/25/14	7/26/14	7/27/14							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				pm	qm	PT	qm	PT	PT	26							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	PDI-822-1	≤2.0 & > 0 <sup>1</sup> in. wc	.83	.84	.83	.83	.83	.83	.77							
		PDI-822-2	≤2.0 & > 0 <sup>1</sup> in. wc	.56	.56	.57	.56	.56	.56	.50							
		PDI-822-4	≤2.0 & > 0 <sup>1</sup> in. wc	.48	.48	.49	.48	.48	.48	.42							
		PDI-822-5	≤2.0 & > 0 <sup>1</sup> in. wc	.51	.51	.51	.51	.51	.51	.50							
		PDI-823-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	PDI-823-2	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-823-5	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-830-1	≤2.0 & > 0 <sup>1</sup> in. wc	.57	.57	.58	.57	.57	.57	.60							
		PDI-830-2	≤2.0 & > 0 <sup>1</sup> in. wc	.30	.30	.30	.30	.30	.30	.30							
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	PDI-830-3	≤2.0 & > 0 <sup>1</sup> in. wc	.28	.27	.28	.27	.28	.28	.28							
		PDI-836-1	≤2.0 & > 0 <sup>1</sup> in. wc	.96	.96	.96	.96	.96	.97	.97							
		PDI-836-2	≤2.0 & > 0 <sup>1</sup> in. wc	.56	.56	.58	.56	.57	.58	.58							
		PDI-836-3	≤2.0 & > 0 <sup>1</sup> in. wc	.55	.54	.55	.54	.54	.55	.55							
		PDI-837-1	≤2.0 & > 0 <sup>1</sup> in. wc	.51	.53	.51	.51	.51	.51	.51							
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	PDI-837-2	≤2.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41							
		PDI-837-3	≤2.0 & > 0 <sup>1</sup> in. wc	.39	.39	.39	.39	.39	.39	.39							

## 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:							7-27-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				Weekday:							Sun.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Initials:				Mon.							Tue.							Wed.							Thu.							Fri.							Sat.							Sun.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.3

Non TSR requirement:

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

Completed by: *per* Date: 7/27/14 Time: 0820Reviewed by: *per* Date: 7/27/14 Time: 1119

On-duty 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)							Initials:	Date:						
				Weekday:								Sun.						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.									
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	PDI-829-1	≤2.0 & > 0 <sup>1</sup> in. wc	.11	.10	.11	.11	.11	.10	.15	gn	7-22-14	7-23-14	7-24-14	7-25-14	07-26-14	7-27-14	
		PDI-829-2	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.29	.31	.30	.31	.30	.39								
		PDI-829-3	≤2.0 & > 0 <sup>1</sup> in. wc	.16	.11	.16	.12	.16	.15	.21								
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	PDI-833-1	≤2.0 & > 0 <sup>1</sup> in. wc	.98	.99	.99	.99	.99	.99	.99	gn	7-22-14	7-23-14	7-24-14	7-25-14	07-26-14	7-27-14	
		PDI-833-2	≤2.0 & > 0 <sup>1</sup> in. wc	.46	.45	.46	.47	.46	.45	.46								
		PDI-833-3	≤2.0 & > 0 <sup>1</sup> in. wc	.44	.44	.44	.44	.44	.44	.44								
4.1.3.4	100 area re-circulation filter plenum (HVP-804) ΔP	PDI-835-1	≤2.0 & > 0 <sup>1</sup> in. wc	.15	.15	.15	.15	.15	.15	.15	gn	7-22-14	7-23-14	7-24-14	7-25-14	07-26-14	7-27-14	
		PDI-835-2	≤2.0 & > 0 <sup>1</sup> in. wc	.43	.43	.43	.43	.43	.43	.43								
		PDI-835-3	≤2.0 & > 0 <sup>1</sup> in. wc	.40	.40	.40	.40	.40	.40	.40								
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	PDI-815-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	gn	7-22-14	7-23-14	7-24-14	7-25-14	07-26-14	7-27-14	
		PDI-815-2	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY								
		PDI-815-4	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY								
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-815-5	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	gn	7-22-14	7-23-14	7-24-14	7-25-14	07-26-14	7-27-14	
		PDI-816-1	≤2.0 & > 0 <sup>1</sup> in. wc	.35	.34	.35	.34	.35	.35	.35								
		PDI-816-2	≤2.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41								
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-816-4	≤2.0 & > 0 <sup>1</sup> in. wc	.40	.40	.40	.40	.40	.40	.40	gn	7-22-14	7-23-14	7-24-14	7-25-14	07-26-14	7-27-14	
		PDI-816-5	≤2.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41								



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

(Page 3 of 4)

SRs	Description	Gauge	Date:		7/21/14		7-22-14		7/23/14		7-24-14		7/25/14		07/26/14 MON		7/27/14		
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.									
			Initials:	SURVEILLANCE RESULTS															
			Acceptance Criteria	(in. wc)															
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤0.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-812-2	≤0.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-812-3	≤0.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-812-4	≤0.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-812-5	≤0.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤0.0 & > 0 <sup>1</sup> in. wc	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83		
		PDI-813-2	≤0.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31		
		PDI-813-3	≤0.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31		
		PDI-813-4	≤0.0 & > 0 <sup>1</sup> in. wc	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32		
		PDI-813-5	≤0.0 & > 0 <sup>1</sup> in. wc	.28	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29		
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤0.0 & > 0 <sup>1</sup> in. wc	.03	.04	.04	.03	.04	.03	.03	.03	.03	.03	.03	.03	.03			
		PDI-865-2	≤0.0 & > 0 <sup>1</sup> in. wc	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32		
		PDI-865-3	≤0.0 & > 0 <sup>1</sup> in. wc	.40	.40	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39		
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤0.0 & > 0 <sup>1</sup> in. wc	<del>.32</del> .05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05			
		PDI-863-2	≤0.0 & > 0 <sup>1</sup> in. wc	.27	.27	.27	.27	.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:	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		7/21/14	7/22/14	7/23/14	7/24/14	7/25/14	07/26/14	7/27/14
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	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								
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-2	≤ 2.0 & > 0' in. wc								
4.3.2.2	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less								
Completion time											
OC Operator Review and Page Count Complete (initials)											

## Non TSR requirement

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

Completed by: BBB Date 7/22/14 Time 0740 Reviewed by: BBB Date 7/27/14 Time 1117

On-duty supervisor

Comments:



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

(Page 1 of 3)

Note	Date:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Weekday:		Shift:		Initials:		Gauge Acceptance Criteria		Description		SRs		SURVEILLANCE RESULTS (in. wc)	
		PDI-814-1 or PDI-814-2		PDI-820-1 or PDI-820-2		PDI-870-1 or PDI-870-2		PDI-864-1 or PDI-864-2		PDI-803-1 or PDI-803-2		PDI-802-1 or PDI-802-2		PDI-853-1 or PDI-853-2	
		PDI-852-1 or PDI-852-2		PDI-865-4 or PDI-865-5		PDI-804-1 or PDI-804-2		PDI-854-1 or PDI-854-2		PDI-901 or PDI-901		PDI-901 or PDI-901		PDI-901 or PDI-901	
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	4.1.1.1	1.94	1.91	1.92	1.94	1.91	1.93	1.94	1.93	1.94	1.93	1.94	1.93	1.94	1.93
	4.1.2.1 <sup>2</sup>	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
		1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	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
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>		2.20	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
		2.23	2.21	2.22	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21
		2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
		2.20	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21
4.1.1.3 4.1.2.3 <sup>2</sup>		2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
		2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
		2.12	2.13	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
		2.07	2.15	2.17	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11

(Page 2 of 3)

[illegible]



## 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.		Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Initials:																	
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS											
						Sat. / Unsat. (circle one)											
						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
						200 Area	100 Area	300 Area	400 Area								
		Completion Time		0721	1918	0712	1923	0710	1930	0730	1944						

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: at Date 7-24-14 Time 1944 Reviewed by: [Signature] Date: 8/4/14 Time: 0700

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

SR	Description / Gauge	Date:	7/28/14	7/29/14	7/30/14	7-31-14				
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	AM	AM	AM	37				
		SURVEILLANCE RESULTS (percentage)								
4.4.1.1	Acceptance Criteria									
	Flammable Gas Channel Check									
	DET-305-3 (LCD Reading)	NA	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)	$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	
	Completion Time:	0803	0807	0815	0800					



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

(Page 2 of 4)

SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)						
			Date:	7/28/14	7/29/14	7/30/14	7-31-14		
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:	for	for	for	PT		
			Acceptance Criteria						
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0 <sup>1</sup> in. wc	.66	.07	.07	.07		
		PDI-894-2	≤2.0 & > 0 <sup>1</sup> in. wc	.51	.51	.51	.51		
		PDI-895-1	≤2.0 & > 0 <sup>1</sup> in. wc	.07	.07	.07	.07		
		PDI-895-2	≤2.0 & > 0 <sup>1</sup> in. wc	.61	.60	.60	.60		
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	STBY	STBY	STBY		
		PDI-817-2	≤2.0 & > 0 <sup>1</sup> in. wc	.32	STBY	STBY	STBY		
		PDI-817-4	≤2.0 & > 0 <sup>1</sup> in. wc	.31	STBY	STBY	STBY		
		PDI-817-5	≤2.0 & > 0 <sup>1</sup> in. wc	.31	STBY	STBY	STBY		
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & > 0 <sup>1</sup> in. wc	.41	STBY	STBY	STBY		
		PDI-819-3	≤2.0 & > 0 <sup>1</sup> in. wc	.41	STBY	STBY	STBY		
		PDI-819-4	≤2.0 & > 0 <sup>1</sup> in. wc	.32	STBY	STBY	STBY		
		PDI-818-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	.26	.26	.26		
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	.31	.31	.31		
		PDI-818-4	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	.32	.32	.32		
		PDI-818-5	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	.29	.29	.29		
		PDI-821-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	.40	.40	.39		
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-3	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	.42	.42	.42		
		PDI-821-4	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	.39	.39	.39		

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	7/28/14	7/29/14	7/30/14	7-31-14		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Initials:	<i>gm</i>	<i>gm</i>	<i>gm</i>	<i>PT</i>		
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	<sup>1</sup> PDI-822-1	≤ 2.0 & > 0 <sup>1</sup> in. wc		.94	STBY	STBY	STBY		
		PDI-822-2	≤ 2.0 & > 0 <sup>1</sup> in. wc		.55	STBY	STBY	STBY		
		PDI-822-4	≤ 2.0 & > 0 <sup>1</sup> in. wc		.47	STBY	STBY	STBY		
		PDI-822-5	≤ 2.0 & > 0 <sup>1</sup> in. wc		.52	STBY	STBY	STBY		
		<sup>1</sup> PDI-823-1	≤ 2.0 & > 0 <sup>1</sup> in. wc		STBY	.24	.24	.24		
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	PDI-823-2	≤ 2.0 & > 0 <sup>1</sup> in. wc		STBY	.49	.49	.49		
		PDI-823-4	≤ 2.0 & > 0 <sup>1</sup> in. wc		STBY	.50	.50	.50		
		PDI-823-5	≤ 2.0 & > 0 <sup>1</sup> in. wc		STBY	.51	.51	.51		
		<sup>1</sup> PDI-830-1	≤ 2.0 & > 0 <sup>1</sup> in. wc		.58	.59	.59	.60		
		PDI-830-2	≤ 2.0 & > 0 <sup>1</sup> in. wc		.31	.31	.31	.21		
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	PDI-830-3	≤ 2.0 & > 0 <sup>1</sup> in. wc		.28	.28	.28	.29		
		<sup>1</sup> PDI-836-1	≤ 2.0 & > 0 <sup>1</sup> in. wc		.97	.97	.97	.97		
		PDI-836-2	≤ 2.0 & > 0 <sup>1</sup> in. wc		.56	.57	.57	.58		
		PDI-836-3	≤ 2.0 & > 0 <sup>1</sup> in. wc		.56	.56	.54	.54		
		<sup>1</sup> PDI-837-1	≤ 2.0 & > 0 <sup>1</sup> in. wc		.50	.50	.50	.50		
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	PDI-837-2	≤ 2.0 & > 0 <sup>1</sup> in. wc		.41	.41	.42	.41		
		PDI-837-3	≤ 2.0 & > 0 <sup>1</sup> in. wc		.39	.39	.39	.40		



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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Weekday:	Initials:					
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	$\leq 0.0$ & $> 0.1$ in. wc	7/28/14	7/29/14	7/30/14	7-31-14			
		PDI-838-2	$\leq 0.0$ & $> 0.1$ in. wc							
		PDI-838-3	$\leq 0.0$ & $> 0.1$ in. wc							
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	$\leq 0.0$ & $> 0.1$ in. wc							
		PDI-839-2	$\leq 0.0$ & $> 0.1$ in. wc							
		PDI-839-3	$\leq 0.0$ & $> 0.1$ in. wc							
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	$\leq 0.0$ & $> 0.1$ in. wc							
		PDI-810-2	$\leq 0.0$ & $> 0.1$ in. wc							
		PDI-810-3	$\leq 0.0$ & $> 0.1$ in. wc							
	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	$\leq 0.0$ & $> 0.1$ in. wc							
		PDI-811-2	$\leq 0.0$ & $> 0.1$ in. wc							
		PDI-811-3	$\leq 0.0$ & $> 0.1$ in. wc							
			Completion Time							
OC Operator Review and Page Count Complete (initials)										

Non TSR requirement:

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

Completed by: Paul Fajardo Date 7.31.14 Time 0841 Reviewed by: \_\_\_\_\_Date: 7/31/14 Time: 1030

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.
				Weekday:	Initials:					
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	<sup>1</sup> PDI-840-1	≤ 0.0 & > 0 <sup>1</sup> in. wc	7/29/14	7/29/14	7/30/14	7/31/14			
		PDI-840-2	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-840-3	≤ 0.0 & > 0 <sup>1</sup> in. wc							
	Vault re-circulation filter plenum (HVP-812) ΔP	<sup>1</sup> PDI-841-1	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-841-2	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-841-3	≤ 0.0 & > 0 <sup>1</sup> in. wc							
	200 area re-circulation filter plenum (HVP-801) ΔP	<sup>1</sup> PDI-831-1	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-831-2	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-831-3	≤ 0.0 & > 0 <sup>1</sup> in. wc							
4.1.3.4	200 area re-circulation filter plenum (HVP-802) ΔP	<sup>1</sup> PDI-832-1	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-832-2	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-832-3	≤ 0.0 & > 0 <sup>1</sup> in. wc							
	North Bleed off filter plenum (FF-820A) ΔP	<sup>1</sup> PDI-807-1	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-807-2	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-807-3	≤ 0.0 & > 0 <sup>1</sup> in. wc							
	North Bleed off filter plenum (FF-820B) ΔP	<sup>1</sup> PDI-809-1	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-809-2	≤ 0.0 & > 0 <sup>1</sup> in. wc							
		PDI-809-3	≤ 0.0 & > 0 <sup>1</sup> 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:	7/28/14	7/29/14	7/30/14	7-31-14			
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
			Initials:		PH	PH	PH	PT			
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	$\leq 2.0$ & $> 0^1$ in. wc	.11	.11	.11	.11	.11			
		PDI-829-2	$\leq 2.0$ & $> 0^1$ in. wc	.30	.30	.30	.30	.30			
		PDI-829-3	$\leq 2.0$ & $> 0^1$ in. wc	.15	.12	.12	.12	.12			
	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	$\leq 2.0$ & $> 0^1$ in. wc	.99	.99	.99	.99	.99			
		PDI-833-2	$\leq 2.0$ & $> 0^1$ in. wc	.44	.47	.47	.47	.47			
4.1.1.7	100 area re-circulation filter plenum (HVP-804) AP	PDI-833-3	$\leq 2.0$ & $> 0^1$ in. wc	.44	.47	.47	.47	.47			
		PDI-835-1	$\leq 2.0$ & $> 0^1$ in. wc	.15	.15	.15	.15	.15			
		PDI-835-2	$\leq 2.0$ & $> 0^1$ in. wc	.44	.44	.44	.44	.44			
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	$\leq 2.0$ & $> 0^1$ in. wc	.40	.41	.41	.41	.41			
		PDI-815-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY			
		PDI-815-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY			
		PDI-815-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY			
		PDI-815-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY			
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	$\leq 2.0$ & $> 0^1$ in. wc	.35	.36	.36	.36	.36			
		PDI-816-2	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	.41	.41			
		PDI-816-4	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	.41	.40			
		PDI-816-5	$\leq 2.0$ & $> 0^1$ in. wc	.42	.42	.42	.42	.41			

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

(Page 3 of 4)

SRs	Description	Gauge	Date:	7/28/14	7/29/14	7/30/14	7-31-14	Fri.	Sat.	Sun.	
			Weekday:	Mon.	Tue.	Wed.	Thu.				
			Initials:	JH	JH	JH	PT				
			Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	<del>.92</del>	STBY	STBY	STBY				
		PDI-812-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	<del>.31</del>	STBY	STBY	STBY	STBY			
		PDI-812-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	<del>.31</del>	STBY	STBY	STBY	STBY			
		PDI-812-4	≤ 2.0 & > 0 <sup>1</sup> in. wc	<del>.31</del>	STBY	STBY	STBY	STBY			
		PDI-812-5	≤ 2.0 & > 0 <sup>1</sup> in. wc	<del>.31</del>	STBY	STBY	STBY	STBY			
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.92	.82	.82	.83				
		PDI-813-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31				
		PDI-813-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31				
		PDI-813-4	≤ 2.0 & > 0 <sup>1</sup> in. wc	.32	.32	.32	.32				
		PDI-813-5	≤ 2.0 & > 0 <sup>1</sup> in. wc	.28	.28	.28	.29				
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.03	.03	.03	.04				
		PDI-865-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.32	.32				
		PDI-865-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	.40	.40	.41	.41				
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.05	.05	.05	.05				
		PDI-863-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.26	.26	.27	.27				



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

(Page 4 of 4)

			Date:	7/28/14	7/29/14	7/30/14	7-31-14			
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	<del>SA</del>	<del>SA</del>	<del>SA</del>	<del>SA</del>			
			Acceptance Criteria	SURVEILLANCE RESULTS						
SRs	Description	Gauge								
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	.14	.14	.13	.13				
		PDI-857-2	.50	.49	.49	.49				
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	.06	.06	.06	.06	.06			
		PDI-856-2	.50	.54	.55	.55				
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		SAT	SAT	SAT	SAT	SAT			
4.3.2.2	Rooms 201, 204, 206, & 207	0 lb/ft <sup>2</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT			
			Completion time							
			0847	0822	1001	0847	0847			
			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 Engle Date 7-31-14 Time 0847 Reviewed by: [Signature] Date: 7/31/14 Time: 1030

Comments:

On-duty Supervisor

# 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.	1:25	7/2/14	HA
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.	1:25	7/2/14	HA
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.	1:15	7/2/14	HA
*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.	13:52	7/2/14	SH
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.  4.5 Seconds	Sat / Unsat.	13:54	7/2/14	SH
				Sat / Unsat.	13:54	7/2/14	SH

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OE Order 420.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANL Building TA55-4 (PF-4); Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANL-DOE-ORDER-420.1B-EQ-2013-001

## ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [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.  7 Seconds	<input checked="" type="radio"/> Sat. <input type="radio"/> Unsat.	14:03	7/2/14	ZA
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.	14:05	7/2/14	ZA
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.	11:30	7/7/14	NA
				<input checked="" type="radio"/> Sat. <input type="radio"/> Unsat.	12:35	7/7/14	HA
OC Operator Review and Page Count Complete							

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: ATERO Date: 7/7/14 Time: 1:45 Reviewed by: [Signature] Date: 7/7/14 Time: 1:02

On-duty Supervisor Comments:



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

(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1415	7-30-14	mm
4.1.3.2	Confinement Door DR-344	Southeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1417	7-30-14	mm
4.1.3.2	Confinement Door DR-149	Northeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1340	7-30-14	mm
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1344 <del>1345</del> mm 7-30-14	7-30-14	mm
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.	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1346	7-30-14	mm
			4.97 Seconds	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1348	7-30-14	mm

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OE Order 420.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANL Building TA55-4 (PF-4): Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANL-DOE-ORDER-420.1B-EQ-2013-001

## ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [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. 6.97 Seconds	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1351	7-30-14	mm
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1353	7-30-14	mm
4.1.3.2	Confinement Door DR-90	South Basement Door (Tunnel)	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1404	7-30-14	mm
OC Operator Review and Page Count Complete							090

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: Robert M. Stacey Date: 7-30-14 Time: 1418 Reviewed by: RB Date: 7-30-14 Time: 1422

On-duty Supervisor Comments:

Comments:

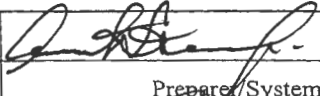
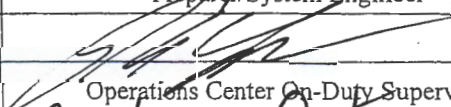
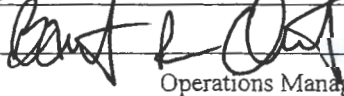


Attachment A, Surveillance Due Date Change Request

SI/STP/ISI #	Scheduled Due Date	Proposed Due Date	Maximum Allowable Extension of Due Date
STP-00400	7/2/14	7-8-14	7/18/14

Justification:

Lack of man power

Prepared by:		7-2-14
	Prepared/System Engineer	Date
Reviewed by:		7/2/14
	Operations Center On-Duty Supervisor	Date
Approved by:		7-2-14
	Operations Manager	Date

July - December 2014  
TA-55-PF4 HEPA Filtration Differential Pressure Readings

**Attachment B, Surveillance Training Checklist**

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROOMS
Procedure no.:	TA55-STP-004 R17
Date of issue:	8-1-14
Working copy issued to:	B CHANCE
Working copy issued by:	A ORTIZ
	Certified Operations Center Operator

**Operations Center Operator Review**

 Signature  
Date 8/5/14

Required Reading for this Surveillance has been completed.

**Training Checklist**

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R BRISCOE	R	8-1-14
B CHANCE	B	8-1-14
D DUNLAUV	D	8-1-14
A DUNSEITH	A	8-1-14
J LOVATU	J	8-1-14
R LUM	R	8-1-14
A ORTIZ	A	8-1-14
F SAYBERT	F	8-1-14
J SMILETZ	J	8-1-14
A WITTMAN	A	8-1-14

Comments:




[illegible]

## 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:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.						
	Weekday:																				
	Shift:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
	Initials:																				
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)																	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤ 1.0 in. wc <sup>1</sup>												-1.94	-1.94	-1.93	-1.94	-1.93		
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤ 1.0 in. wc <sup>1</sup>													-1.93	-1.94	-1.92	-1.93	-1.91	
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤ 1.0 in. wc <sup>1</sup>														-1.99	-1.99	-1.98	-1.98	-1.96
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤ 1.0 in. wc <sup>1</sup>														-1.98	-1.97	-1.98	-1.97	-1.97
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤ 0.05 in. wc <sup>1</sup>														-1.19	-1.19	-1.19	-1.19	-1.19
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤ 0.05 in. wc <sup>1</sup>														-1.22	-1.21	-1.21	-1.22	-1.21
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤ 0.05 in. wc <sup>1</sup>														-1.23	-1.22	-1.22	-1.22	-1.22
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤ 0.05 in. wc <sup>1</sup>														-1.21	-1.20	-1.20	-1.21	-1.21
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility ΔP	PDI-865-4 or PDI-865-5	≤ 0.05 in. wc														-1.19	-1.19	-1.19	-1.19	-1.19
	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc														-1.10	-1.10	-1.10	-1.10	-1.10
	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc														-1.12	-1.12	-1.12	-1.12	-1.12
	IRT Tunnel ΔP	PDI-901 or PDI-901	< 0.00 in. wc														-1.09	-1.09	-1.09	-1.09	-1.09

(Page 2 of 3)

08-03-14	Sun.	M	PM
----------	------	---	----

1

Sat	Uns
Sat	Uns

Sat	insat
sat	insat

Sat	at
Insat	sat

Sat	Sat
Sat	Sat





## 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.		Weekday:															
		Shift:	AM		PM		AM		PM		AM		PM		AM		
		Initials:															
SRs	Description	Area	Gauge	Acceptance Criteria		SURVEILLANCE RESULTS											
4.1.1.4	Glovebox exhaust header $\Delta$ P's < laboratory $\Delta$ P's < basement $\Delta$ P'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		0123 1921 0713 1924 0715 1924													

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

Date: 8/14/14

Reviewed by: 

Date: 8/14/14

Time: 0700

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

SR	Description / Gauge Flammable Gas Channel Check DET-305-3 (LCD Reading) CP-305-H (LED Reading) (DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Weekday:								
		Initials:								
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
4.4.1.1		NA					0.0	0.0	0.0	
							0.0	0.0	0.0	
	Record Calculated Value						0.0	0.0	0.0	
	≥ -0.1; ≤ +0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	
	Completion Time:						0807	0815	0755	

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:			Mon.										
				Initials:													
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤ 2.0 & > 0' in. wc												8-1-14	8-2-14	8-3-14
		PDI-894-2	≤ 2.0 & > 0' in. wc													Sat.	Sun.
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤ 2.0 & > 0' in. wc												PT	PT	PT
		PDI-895-2	≤ 2.0 & > 0' in. wc														
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤ 2.0 & > 0' in. wc														
		PDI-817-2	≤ 2.0 & > 0' in. wc														
		PDI-817-4	≤ 2.0 & > 0' in. wc														
		PDI-817-5	≤ 2.0 & > 0' in. wc														
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤ 2.0 & > 0' in. wc														
		PDI-819-3	≤ 2.0 & > 0' in. wc														
		PDI-819-4	≤ 2.0 & > 0' in. wc														
		PDI-818-1	≤ 2.0 & > 0' in. wc														
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤ 2.0 & > 0' in. wc														
		PDI-818-4	≤ 2.0 & > 0' in. wc														
		PDI-818-5	≤ 2.0 & > 0' in. wc														
		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 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
				Weekday:							
				Initials:							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	PDI-822-1	≤ 2.0 & > 0 <sup>1</sup> in. wc						8-1-14	8-2-14	8-3-14
		PDI-822-2	≤ 2.0 & > 0 <sup>1</sup> in. wc						PT	PT	PT
		PDI-822-4	≤ 2.0 & > 0 <sup>1</sup> in. wc						PT	PT	PT
		PDI-822-5	≤ 2.0 & > 0 <sup>1</sup> in. wc						PT	PT	PT
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	PDI-823-1	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
		PDI-823-2	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
		PDI-823-4	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
		PDI-823-5	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	PDI-830-1	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
		PDI-830-2	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
		PDI-830-3	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
		PDI-836-1	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	PDI-836-2	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
		PDI-836-3	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
		PDI-837-1	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
		PDI-837-2	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
4.1.1.7	300 area re-circulation filter plenum ( HVP-806) ΔP	PDI-837-3	≤ 2.0 & > 0 <sup>1</sup> in. wc						STBY	STBY	STBY
									STBY	STBY	STBY
									STBY	STBY	STBY
									STBY	STBY	STBY

## 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) ΔP	PDI-838-1	$\leq 0.0$ & $> 0.1$ in. wc						8-1-14	8-2-14	8-3-14	
		PDI-838-2	$\leq 0.0$ & $> 0.1$ in. wc									
		PDI-838-3	$\leq 0.0$ & $> 0.1$ in. wc									
	400 area re-circulation filter plenum (HVP-808) ΔP	PDI-839-1	$\leq 0.0$ & $> 0.1$ in. wc									
PDI-839-2		$\leq 0.0$ & $> 0.1$ in. wc										
PDI-839-3		$\leq 0.0$ & $> 0.1$ in. wc										
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	PDI-810-1	$\leq 0.0$ & $> 0.1$ in. wc									
		PDI-810-2	$\leq 0.0$ & $> 0.1$ in. wc									
		PDI-810-3	$\leq 0.0$ & $> 0.1$ in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	PDI-811-1	$\leq 0.0$ & $> 0.1$ in. wc									
		PDI-811-2	$\leq 0.0$ & $> 0.1$ in. wc									
		PDI-811-3	$\leq 0.0$ & $> 0.1$ in. wc									
			Completion Time									
OC Operator Review and Page Count Complete (initials)												

Non TSR requirement:

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

Completed by: Paul Tringali Date: 8-3-14 Time: 0741 Reviewed by: [Signature] Date: 8/4/14 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	Date:							SURVEILLANCE RESULTS (in. wc)		
				Weekday:									
				Initials:									
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤ 2.0 & > 0 <sup>1</sup> in. wc							8-1-14	8-2-14	8-3-14	
		PDI-840-2	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-840-3	≤ 2.0 & > 0 <sup>1</sup> in. wc										
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-841-2	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-841-3	≤ 2.0 & > 0 <sup>1</sup> in. wc										
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-831-2	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-831-3	≤ 2.0 & > 0 <sup>1</sup> in. wc										
4.1.3.4	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-832-2	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-832-3	≤ 2.0 & > 0 <sup>1</sup> in. wc										
	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-807-2	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-807-3	≤ 2.0 & > 0 <sup>1</sup> in. wc										
	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-809-2	≤ 2.0 & > 0 <sup>1</sup> in. wc										
		PDI-809-3	≤ 2.0 & > 0 <sup>1</sup> in. wc										

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:								
				Weekday:								
				Initials:								
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	PDI-829-1	≤ 2.0 & > 0' in. wc						8-1-14	08-02-14	8-3-14	
		PDI-829-2	≤ 2.0 & > 0' in. wc									Sun.
		PDI-829-3	≤ 2.0 & > 0' in. wc						PT	BC	PT	
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	PDI-833-1	≤ 2.0 & > 0' in. wc									
		PDI-833-2	≤ 2.0 & > 0' in. wc									
		PDI-833-3	≤ 2.0 & > 0' in. wc									
	100 area re-circulation filter plenum (HVP-804) ΔP	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 (FF852) ΔP	PDI-815-1	≤ 2.0 & > 0' in. wc									
		PDI-815-2	≤ 2.0 & > 0' in. wc									
		PDI-815-4	≤ 2.0 & > 0' in. wc									
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-815-5	≤ 2.0 & > 0' in. wc									
		PDI-816-1	≤ 2.0 & > 0' in. wc									
		PDI-816-2	≤ 2.0 & > 0' in. wc									
		PDI-816-4	≤ 2.0 & > 0' in. wc									
		PDI-816-5	≤ 2.0 & > 0' in. wc									





(Page 4 of 4)

### **<sup>1</sup> Non TSR requirement**

Completed by: Paul Thy'illo Date 8.3.14 Time 0758 Reviewed by:

**Comments:**

Date: 8/4/14 Time: 0700

On-duty Supervisor

## 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:	8/4/14		8/5/14		8/6/14		8/7/14		8/8/14		8/9/14		8/10/14	
	Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		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:	GAO	U	GAO	U	GAO	U	GAO	U	GAO	U	GAO	U	GAO	U	
SRs	Description	SURVEILLANCE RESULTS (in. wc)													
		Gauge Acceptance Criteria													
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤1.0 in. wc <sup>1</sup>	1.93	1.93	1.92	1.92	1.94	1.94	1.93	1.93	1.94	1.94	1.95	1.94
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤1.0 in. wc <sup>1</sup>	1.92	1.92	1.91	1.91	1.94	1.94	1.93	1.93	1.92	1.92	1.93	1.93
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤1.0 in. wc <sup>1</sup>	1.91	1.91	1.91	1.91	1.98	1.98	1.96	1.96	1.98	1.98	1.99	1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤1.0 in. wc <sup>1</sup>	1.91	1.91	1.91	1.91	1.98	1.98	1.96	1.96	1.98	1.98	1.97	1.98
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤0.05 in. wc <sup>1</sup>	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤0.05 in. wc <sup>1</sup>	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤0.05 in. wc <sup>1</sup>	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤0.05 in. wc <sup>1</sup>	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility ΔP	PDI-865-4 or PDI-865-5	≤0.05 in. wc	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
	North basement ΔP	PDI-804-1 or PDI-804-2	<0.00 in. wc	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
	South basement ΔP	PDI-854-1 or PDI-854-2	<0.00 in. wc	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
	IRT Tunnel ΔP	PDI-901 or PDI-901	<0.00 in. wc	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91

(Page 2 of 3)

[illegible]



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

(Page 3 of 3)

Note		Date:	8/4/14		8/5/14		8/6/14		8/7/14		8/8/14		8/9/14		8/10/14		
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		Initials:	U		C		B		B		U		U		U		
SRs	Description	Area	Gauge	SURVEILLANCE RESULTS													
4.1.1.4	Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-803-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		100 Area	PDI-820-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-802-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
300 Area	PDI-870-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
	PDI-853-2	Unsat	Unsat	Unsat	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	Sat	Sat	Sat	
	PDI-852-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
Completion Time			0730	1431	0705	1706	0729	1912	0700	1928	0718	1934	0725	1928	0725	1926	

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: Rocky Peck Date: 8/10/14 Time: 1926

Reviewed by:

Date: 8/11/14 Time: 1626

On-call Supervisor

Comments:

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

(Page 1 of 4)

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

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

SR	Description / Gauge	Date:	8/4/14	8/5/14	8-6-14	8-7-14	8-8-14	8/9/14	8/10/14	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	gjm	gjk	PT	PT	PT	PT	WNT	WNT
		SURVEILLANCE RESULTS (percentage)								
4.4.1.1	Acceptance Criteria									
	Flammable Gas Channel Check	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)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(LCD Reading) (LED Reading)	$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	
	Completion Time:	0740	0806	0807	0815	0937	0910	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:	8/5/14	8-6-14	8-7-14	8-8-14	8-9-14	8/10/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Initials:	DS	JW	PT	PT	PT	MW
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤ 2.0 & > 0' in. wc	.68	.06	.06	.06	.06	.06	.05
		PDI-894-2	≤ 2.0 & > 0' in. wc	.52	.52	.52	.52	.52	.52	.52
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤ 2.0 & > 0' in. wc	.06	.06	.06	.07	.07	.07	.07
		PDI-895-2	≤ 2.0 & > 0' in. wc	.60	.66	.66	.60	.61	.61	.66
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤ 2.0 & > 0' in. wc	.30	.31	.31	.30	.30	.30	.30
		PDI-817-2	≤ 2.0 & > 0' in. wc	.32	.32	.32	.32	.32	.32	.31
		PDI-817-4	≤ 2.0 & > 0' in. wc	.33	.32	.32	.32	.32	.32	.32
		PDI-817-5	≤ 2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-819-1	≤ 2.0 & > 0' in. wc	.40	.40	.40	.41	.41	.41	.40
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-3	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤ 2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33	.32
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	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
		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-821-3	≤ 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 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	8-4-14	8-5-14	8-6-14	8-7-14	8-8-14	8-10-14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:		ds	gn	PT	PT	PT	mm
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	PDI-822-1	≤2.0 & > 0' in. wc		.83	.82	.84	.84	.82	.83
		PDI-822-2	≤2.0 & > 0' in. wc		.55	.55	.55	.55	.55	.55
		PDI-822-4	≤2.0 & > 0' in. wc		.48	.48	.49	.48	.48	.48
		PDI-822-5	≤2.0 & > 0' in. wc		.52	.52	.52	.52	.51	.52
		PDI-823-1	≤2.0 & > 0' in. wc		STOP	STOP	STOP	STOP	STOP	STOP
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	PDI-823-2	≤2.0 & > 0' in. wc		STOP	STOP	STOP	STOP	STOP	STOP
		PDI-823-4	≤2.0 & > 0' in. wc		STOP	STOP	STOP	STOP	STOP	STOP
		PDI-823-5	≤2.0 & > 0' in. wc		STOP	STOP	STOP	STOP	STOP	STOP
		PDI-830-1	≤2.0 & > 0' in. wc		.60	.60	.60	.59	.60	.60
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	PDI-830-2	≤2.0 & > 0' in. wc		.31	.31	.31	.30	.30	.30
		PDI-830-3	≤2.0 & > 0' in. wc		.28	.28	.28	.28	.29	.28
		PDI-836-1	≤2.0 & > 0' in. wc		.97	.97	.97	.97	.97	.96
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	PDI-836-2	≤2.0 & > 0' in. wc		.55	.56	.58	.59	.58	.55
		PDI-836-3	≤2.0 & > 0' in. wc		.55	.55	.55	.55	.55	.55
		PDI-837-1	≤2.0 & > 0' in. wc		.50	.50	.50	.49	.49	.50
	300 area re-circulation filter plenum (HVP-806) ΔP	PDI-837-2	≤2.0 & > 0' in. wc		.42	.42	.42	.41	.41	.41
		PDI-837-3	≤2.0 & > 0' in. wc		.39	.39	.39	.39	.37	.40



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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)											
				Date: 8-4-14 8/5/14 8-6-14 8-7-14 8-8-14 8-9/10/14 8/10/14											
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.					
Initials:				PT PT PT PT PT PT											
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	PDI-838-1	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31		
		PDI-838-2	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41		
		PDI-838-3	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39		
	400 area re-circulation filter plenum (HVP-808) ΔP	PDI-839-1	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31		
		PDI-839-2	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45		
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	PDI-839-3	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45		
		PDI-810-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
		PDI-810-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	South Bleed off filter plenum (FF-822B) ΔP	PDI-810-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
		PDI-811-1	≤2.0 & > 0' in. wc	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11		
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	PDI-811-2	≤2.0 & > 0' in. wc	.48	.48	.49	.49	.49	.49	.49	.49	.49	.49		
		PDI-811-3	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49		
		Completion Time	0822	0820	0821	0855	0803	0838	0840						
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: DDX Date: 6/10/14 Time: 0840  
Reviewed by:

Date: 8/10/14 Time: 1629

On-duty Supervisor

### Comments

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

(Page 1 of 4)

[illegible]

## 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:	8/14/14	8-5-14	8-7-14	8-8-14	8-9-14	8/10/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:		pm	PT	pm	PT	PT	0000
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	PDI-829-1	≤2.0 & > 0' in. wc		.10	.10	.10	.14	.15	.15
		PDI-829-2	≤2.0 & > 0' in. wc		.29	.29	.30	.32	.39	.40
		PDI-829-3	≤2.0 & > 0' in. wc		.12	.12	.14	.18	.21	.20
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	PDI-833-1	≤2.0 & > 0' in. wc		.98	.99	.99	.99	.99	.99
		PDI-833-2	≤2.0 & > 0' in. wc		.48	.48	.48	.48	.48	.48
		PDI-833-3	≤2.0 & > 0' in. wc		.48	.48	.48	.48	.48	.48
	100 area re-circulation filter plenum (HVP-804) ΔP	PDI-835-1	≤2.0 & > 0' in. wc		.15	.15	.15	.15	.15	.15
		PDI-835-2	≤2.0 & > 0' in. wc		.44	.44	.44	.44	.44	.44
		PDI-835-3	≤2.0 & > 0' in. wc		.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	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 (FF853) ΔP	PDI-815-5	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-1	≤2.0 & > 0' in. wc		.35	.35	.35	.35	.35	.35
		PDI-816-2	≤2.0 & > 0' in. wc		.41	.41	.41	.41	.41	.41
		PDI-816-4	≤2.0 & > 0' in. wc		.41	.41	.41	.41	.41	.41
		PDI-816-5	≤2.0 & > 0' in. wc		.42	.42	.42	.42	.42	.42

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

(Page 3 of 4)

SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)						
			Acceptance Criteria						
			Initials:						
			Weekday:						
Date:	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	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0' in. wc	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	.82	.84	.83	.80	.53	STBY
		PDI-813-2	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.28	STBY
		PDI-813-3	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.28	STBY
		PDI-813-4	≤2.0 & > 0' in. wc	.32	.32	.32	.32	.29	STBY
		PDI-813-5	≤2.0 & > 0' in. wc	.28	.28	.28	.28	.22	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	.03	.03	.03	.04	.04	.04
		PDI-865-2	≤2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.32
		PDI-865-3	≤2.0 & > 0' in. wc	.42	.40	.40	.41	.41	.40
		PDI-863-1	≤2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-2	≤2.0 & > 0' in. wc	.72	.29	.22	.22	.27	.28



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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date: 8/14/14						
				Weekday: Mon. Tue. Wed. Thu. Fri. Sat. Sun.						
				Initials: Jm PT PT PT PT PT						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0' in. wc	.13	.12	.13	.13	.13	.13	.15
		PDI-857-2	≤ 2.0 & > 0' in. wc	.49	.49	.49	.50	.49	.50	.50
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0' in. wc	.06	.06	.06	.06	.06	.06	.05
		PDI-856-2	≤ 2.0 & > 0' in. wc	.55	.55	.55	.51	.51	.50	.50
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207			SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time				0800	0833	0811	0951	0950	0945	0850
OC Operator Review and Page Count Complete (initials)				Jm	Jm	Jm	Jm	Jm	Jm	Jm

Non TSR requirement

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

Completed by: 2222 Date: 8/14/14 Time: 0850

Reviewed by:

Date: 8/14/14 Time: 1620

On-duty Supervisor

Comments:

(Page 1 of 3)

[illegible]

## 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 PDTs may be used if FCS is unavailable.	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)													
					Date:	Weekday:	Shift:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 $\Delta P > .050$ or FR-802 Icon red and PDT-832 $\Delta P > .050$	FR-801 Icon red and PDT-831 $\Delta P > .050$ or FR-802 Icon red and PDT-832 $\Delta P > .050$	At least one fan/plenum is in service	08-11-14	08-12-14	8/13/14	08-14-14	08-15-14	08-16-14	08-17-14							
		FR-803 Icon red and PDT-833 $\Delta P > .050$ or FR-804 Icon red and PDT-835 $\Delta P > .050$	FR-803 Icon red and PDT-833 $\Delta P > .050$ or FR-804 Icon red and PDT-835 $\Delta P > .050$	At least one fan/plenum is in service														
		FR-805 Icon red and PDT-836 $\Delta P > .050$ or FR-806 Icon red and PDT-837 $\Delta P > .050$	FR-805 Icon red and PDT-836 $\Delta P > .050$ or FR-806 Icon red and PDT-837 $\Delta P > .050$	At least one fan/plenum is in service														
		FR-807 Icon red and PDT-838 $\Delta P > .050$ or FR-808 Icon red and PDT-839 $\Delta P > .050$	FR-807 Icon red and PDT-838 $\Delta P > .050$ or FR-808 Icon red and PDT-839 $\Delta P > .050$	At least one fan/plenum is in service														
		FR-811 Icon red and PDT-840 $\Delta P > .050$ or FR-812 Icon red and PDT-841 $\Delta P > .050$	FR-811 Icon red and PDT-840 $\Delta P > .050$ or FR-812 Icon red and PDT-841 $\Delta P > .050$	At least one fan/plenum is in service														

## 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.		Weekday:															
		Shift:	AM		PM		AM		PM		AM		PM		AM		
		Initials:	B. J.		B. J.		B. J.		B. J.		B. J.		B. J.		B. J.		
SRs	Description	Area	Gauge	SURVEILLANCE RESULTS													
4.1.1.4	Glovebox exhaust header APs < laboratory APs for < basement APs for areas 100, 200, 300 and 400	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat. / Unsat. (circle one)													
		PDI-803-2		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		PDI-804-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		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
		100 Area	PDI-802-2	PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		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	
		400 Area	PDI-852-2	PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
Completion Time				0723	1924	0718	1923	0721	1927	0724	1927	0726	1923	0726	1912		

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: B. J. Date: 8/19/14 Time: 1924Reviewed by: B. J.Date: 8/19/14 Time: 0741

On-duty Supervisor

Comments:



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

(Page 1 of 4)

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

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

SR	Description / Gauge  Flammable Gas Channel Check DET-305-3 (LCD Reading)  CP-305-H (LED Reading)  (DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Date:	8-11-14	8/12/14	8/13/14	8/14/14	8/15/14	8/16/14	8/17/14								
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.								
		Initials:	WS	JA	JA	JA	JA	JA	JA	JA							
		SURVEILLANCE RESULTS (percentage)															
4.4.1.1	Acceptance Criteria	NA															
			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
			Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
	Completion Time:	0807	0811	0725	0740	0731	0809	0840									
										0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
										0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
										Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

(Page 2 of 4)

			Date:	8-11-14	8/12/14	8/13/14	8/14/14	8/15/14	8/16/14	8/17/14
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	bj	jn	nm	al	jn	BA	BA
			SURVEILLANCE RESULTS (in. wc)							
SRS	Description	Gauge	Acceptance Criteria							
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤2.0 & > 0' in. wc	.06	.06	.06	.06	.06	.06	.07
		PDI-894-2	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	South Corridor supply (HVP-810) ΔP	'PDI-895-1	≤2.0 & > 0' in. wc	.06	.06	.07	.07	.08	.07	.07
		PDI-895-2	≤2.0 & > 0' in. wc	.62	.62	.62	.62	.62	.61	.61
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	'PDI-817-1	≤2.0 & > 0' in. wc	.29	.30	.30	.30	.30	.30	.30
		PDI-817-2	≤2.0 & > 0' in. wc	.32	.32	.32	.32	.32	.32	.32
		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	.31	.31	.30	.31	.31
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-1	≤2.0 & > 0' in. wc	.41	.41	.40	.41	.41	.41	.41
		PDI-819-3	≤2.0 & > 0' in. wc	.41	.40	.40	.41	.41	.41	.40
		PDI-819-4	≤2.0 & > 0' in. wc	.33	.32	.32	.32	.33	.32	.32
		'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-818-4	≤2.0 & > 0' in. wc	STBy	STBY	STBY	STBy	STBY	STBy	STBy
		PDI-818-5	≤2.0 & > 0' in. wc	STAY	STBY	STBY	STBy	STBY	STBy	STBy
		PDI-821-1	≤2.0 & > 0' in. wc	STAY	STBY	STBY	STBy	STBY	STBy	STBy
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-3	≤2.0 & > 0' in. wc	STAY	STBY	STBY	STBy	STBY	STBy	STBy
		PDI-821-4	≤2.0 & > 0' in. wc	STAY	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:	8/11/14	8/12/14	8/13/14	8/14/14	8/15/14	8/16/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Initials:	AS	JA	nm	RL	N	RL
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	PDI-822-1	≤2.0 & > 0' in. wc	.f3	.83	.83	.83	.82	.82	.82
		PDI-822-2	≤2.0 & > 0' in. wc	.56	.55	.55	.54	.54	.55	.55
		PDI-822-4	≤2.0 & > 0' in. wc	.48	.48	.48	.47	.47	.47	.47
		PDI-822-5	≤2.0 & > 0' in. wc	.51	.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) ΔP	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	.60	.60	.60	.60	.60	.60	.60
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	PDI-830-2	≤2.0 & > 0' in. wc	.31	.31	.31	.30	.30	.31	.30
		PDI-830-3	≤2.0 & > 0' in. wc	.28	.28	.28	.28	.29	.29	.28
		PDI-836-1	≤2.0 & > 0' in. wc	.95	.95	.95	.96	.96	.95	.97
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	PDI-836-2	≤2.0 & > 0' in. wc	.57	.56	.56	.57	.57	.56	.58
		PDI-836-3	≤2.0 & > 0' in. wc	.54	.54	.54	.55	.55	.54	.54
		PDI-837-1	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.50
		PDI-837-2	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.40
		PDI-837-3	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39

## 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:	8-11-14	8/12/14	8/13/14	8/14/14	8/15/14	8/16/14	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
			Initials:	DS	DS	DS	DS	DS	DS	DS	DS
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	PDI-838-1	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0' in. wc	.41	.41	.40	.40	.40	.40	.40	
		PDI-838-3	≤2.0 & > 0' in. wc	.38	.38	.38	.39	.38	.39	.39	
	400 area re-circulation filter plenum (HVP-808) ΔP	PDI-839-1	≤2.0 & > 0' in. wc	.31	.31	.32	.31	.31	.31	.31	
		PDI-839-2	≤2.0 & > 0' in. wc	.45	.44	.44	.45	.44	.43	.42	
		PDI-839-3	≤2.0 & > 0' in. wc	.44	.44	.44	.44	.44	.43	.42	
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	PDI-810-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	PDI-811-1	≤2.0 & > 0' in. wc	.11	.11	.11	.11	.11	.11	.12	
		PDI-811-2	≤2.0 & > 0' in. wc	.49	.49	.48	.49	.49	.49	.49	
		PDI-811-3	≤2.0 & > 0' in. wc	.49	.49	.49	.48	.49	.49	.49	
			Completion Time	08:51:06	08:23	08:03	08:04	08:50	08:52	09:17	
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 4.1.1.3 X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Completed by: Roy D. DavisDate: 8/17/14Time: 0917Reviewed by: DSDate: 8/19/14Time: 0641

On-duty Supervisor

Comments



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

(Page 1 of 4)

[illegible]

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:							
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	PDI-829-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.13	.13	.13	.12	.12	.12	.12
		PDI-829-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.32	.32	.31	.32	.32	.32	.32
		PDI-829-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	.18	.17	.17	.18	.18	.18	.18
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	PDI-833-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.99	.99	.99	.99	.99	.99	.99
		PDI-833-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.46	.48	.48	.48	.47	.47	.47
		PDI-833-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	.46	.48	.47	.49	.47	.48	.47
	100 area re-circulation filter plenum (HVP-804) ΔP	PDI-835-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.15	.15	.15	.15	.15	.15	.15
		PDI-835-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.45	.45	.45	.44	.44	.44	.44
		PDI-835-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	PDI-815-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-5	≤ 2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-816-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.35	.35	.36	.35	.35	.35	.35
		PDI-816-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.42	.41	.42	.42	.42
		PDI-816-4	≤ 2.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-816-5	≤ 2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.42	.42	.42	.42	.42

(Page 3 of 4)

[illegible]

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Date: 8-11-14						
				Weekday: Mon. Tue. Wed. Thu. Fri. Sat. Sun.						
				Initials: AS						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 &gt; 0' in. wc	.13	.13	.12	.12	.14	.14	.14
		PDI-857-2	≤ 2.0 &gt; 0' in. wc	.49	.49	.49	.49	.50	.50	.50
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 &gt; 0' in. wc	.07	.07	.06	.06	.06	.06	.05
		PDI-856-2	≤ 2.0 &gt; 0' in. wc	.51	.51	.51	.51	.51	.51	.51
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time				0955	0945	0950	0818	0730	0852	0914
OC Operator Review and Page Count Complete (initials)				AS	AS	AS	AS	AS	AS	AS

Non TSR requirement

Note: SR 4 applies during mode 1 and mode 2.

Completed by: Long Dean Date: 8/17/14 Time: 0914 Reviewed by: AS Date: 8/17/14 Time: 0641

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 PDIs are used.	Date: Weekday: Shift: Initials:	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
				Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	08/18/14	≤ -1.0 in. wc <sup>1</sup>	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
	100 area glovebox exhaust header AP	08/18/14	≤ -1.0 in. wc <sup>1</sup>	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
	300 area glovebox exhaust header AP	08/18/14	≤ -1.0 in. wc <sup>1</sup>	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
	400 area glovebox exhaust header AP	08/18/14	≤ -1.0 in. wc <sup>1</sup>	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
	200 area laboratory header AP	08/18/14	≤ -0.05 in. wc <sup>1</sup>	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	100 area laboratory header AP	08/18/14	≤ -0.05 in. wc <sup>1</sup>	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
	300 area laboratory header AP	08/18/14	≤ -0.05 in. wc <sup>1</sup>	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
	400 area laboratory header AP	08/18/14	≤ -0.05 in. wc <sup>1</sup>	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
	IFTT Facility AP	08/18/14	≤ -0.05 in. wc	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
	North basement AP	08/18/14	< 0.00 in. wc	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	08/18/14	< 0.00 in. wc	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U
	IRT Tunnel AP	08/18/14	< 0.00 in. wc	EC	U	U	U	EC	U	U	U	U	U	U	U	U	U

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

(Page 2 of 3)

Note	Date:	8/18/14		8/19/14		8/20/14		8/21/14		8/22/14		8/23/14		8/24/14	
	Weekday:	Mon.	PM	AM	PM	Wed.	PM	AM	PM	Fri.	PM	Sat.	PM	Sun.	PM
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	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-802 Icon red and PDI-832 AP > 050		Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	100 area re-circulation fan/plenum	FR-803 Icon red and PDI-833 AP > 050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-804 Icon red and PDI-835 AP > 050		Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	300 area re-circulation fan/plenum	FR-805 Icon red and PDI-836 AP > 050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-806 Icon red and PDI-837 AP > 050		Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	400 area re-circulation fan/plenum	FR-807 Icon red and PDI-838 AP > 050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-808 Icon red and PDI-839 AP > 050		Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	Vault re-circulation fan/plenum	FR-811 Icon red and PDI-840 AP > 050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-812 Icon red and PDI-841 AP > 050		Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat

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

(Page 3 of 3)

Note		Date:	8/18/14		8/19/14		08/20/14		08/21/14		8/22/14		8/23/14		8/24/14	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	BC	CR	CR	CR	BC	BC	BC	BC	CR	CR	CR	CR	CR	CR
SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS											
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
			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	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
	100 Area	PDI-802-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		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	Unsat	
		PDI-870-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
	300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		PDI-853-2	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	
		PDI-864-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
	400 Area	PDI-852-2	PDI-864-2 < PDI-852-2 < PDI-854-2	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	
		PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		Completion Time	0632	1929	0732	1932	0732	1932	0732	1932	0732	1937	0730	1928	0730	1928

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with I.CO 3.1.2.Completed by: [Signature]Date: 8-22-14 Time: 1928Reviewed by: [Signature]Date: 8/25/14 Time: 0645

On-duty Supervisor

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

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

(Page 1 of 4)

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

		Date:	8/18/14	8/19/14	8-20-14	8-21-14	8-22-14	8-23-14	8-24-14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	<del>PT</del>	<del>PT</del>	PT	PT	PT	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	0.0
	Record Calculated Value		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	$\geq -0.1$ ; $\leq +0.1$		Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
	Completion Time:	0825	0733	0732	0845	0758	0800	0807	



## 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:	8/18/14	8/19/14	8/20/14	8-21-14	8-22-14	8-23-14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:		EH	for	PT	EH	nm	PT
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	.06	.07	.07	.07	.07	.07	.07
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc	.51	.51	.51	.51	.51	.51	.51
	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc	.08	.08	.08	.08	.08	.07	.08
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc	.62	.62	.62	.66	.66	.63	.62
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc	.30	.30	.30	.30	.30	.29	.29
		PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc	.32	.32	.32	.32	.32	.31	.31
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc	.32	.33	.33	.32	.32	.32	.31
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc	.30	.30	.30	.30	.31	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.40	.41	.40	.40	.41
		PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.40	.41	.41	.41	.41
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.33	.33	.33	.33
		PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.33	.33	.33	.33
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.33	.33	.33	.33
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.33	.33	.33	.33
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.33	.33	.33	.33
		PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.33	.33	.33	.33
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.33	.33	.33	.33
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.33	.33	.33	.33
		PDI-821-5	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.33	.33	.33	.33
		PDI-821-6	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.33	.33	.33	.33

## 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:	8/18/14	8/19/14	8/20/14	8/21/14	8/22/14	8/23/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Initials:	RLT	RL	PT	RL	nm	PT
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc	.81	.82	.82	.82	.83	.67	.70
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc	.52	.55	.55	.54	.54	.50	.50
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc	.48	.48	.48	.48	.47	.40	.41
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc	.51	.51	.51	.51	.51	.47	.45
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc	<del>.60</del>	<del>.59</del>	<del>.59</del>	<del>.59</del>	<del>.60</del>	<del>.61</del>	<del>.61</del>
		PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc	<del>.60</del>	<del>.59</del>	<del>.59</del>	<del>.59</del>	<del>.60</del>	<del>.61</del>	<del>.61</del>
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc	<del>.60</del>	<del>.59</del>	<del>.59</del>	<del>.59</del>	<del>.60</del>	<del>.61</del>	<del>.61</del>
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc	<del>.60</del>	<del>.59</del>	<del>.59</del>	<del>.59</del>	<del>.60</del>	<del>.61</del>	<del>.61</del>
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc	.30	.30	.30	.30	.30	.30	.30
		PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc	.28	.28	.28	.28	.28	.27	.28
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc	.97	.96	.96	.97	.97	.97	.97
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc	.58	.57	.57	.58	.58	.56	.58
		PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc	.54	.54	.54	.54	.54	.56	.55
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc	.50	.49	.49	.50	.50	.50	.50
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc	.40	.41	.41	.41	.40	.41	.41
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39	.38	.39
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc							

(Page 4 of 4)

July - December 2014

<sup>1</sup>Non 'TSR requirement.

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

Completed by: Paul Truillo Date 8-24-11 Time 0801 Reviewed by:

Date: 8/25/14 Time: 0645

On-duty Supervisor

On-duty Supervisor  
✓  
Comments 8/19/14 4:34 combustible still in room 42. Sampling results, closer than 3 feet of lab door. Notified cps.

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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date: 8/8/14 8/19/14 8/20/14 8/21/14 8/22/14 8/23/14 8/24/14						
					Weekday: Mon. Tue. Wed. Thu. Fri. Sat. Sun.						
					Surveillance Results (in. wc)						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0 <sup>1</sup> in. wc		.16	.16	.16	.16	.16	.16	.16
		PDI-840-2	≤2.0 & > 0 <sup>1</sup> in. wc		.57	.57	.57	.57	.57	.57	.57
		PDI-840-3	≤2.0 & > 0 <sup>1</sup> in. wc		.41	.41	.41	.41	.41	.41	.41
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0 <sup>1</sup> in. wc		.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0 <sup>1</sup> in. wc		.41	.41	.41	.41	.41	.41	.41
		PDI-831-3	≤2.0 & > 0 <sup>1</sup> in. wc		.38	.38	.38	.38	.38	.38	.38
4.1.3.4	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0 <sup>1</sup> in. wc		.31	.31	.31	.31	.31	.31	.31
		PDI-832-2	≤2.0 & > 0 <sup>1</sup> in. wc		.60	.60	.60	.60	.60	.60	.60
		PDI-832-3	≤2.0 & > 0 <sup>1</sup> in. wc		.55	.55	.55	.55	.55	.55	.55
	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0 <sup>1</sup> in. wc		OFF	OFF	OFF	OFF	.11	.11	.11
		PDI-807-2	≤2.0 & > 0 <sup>1</sup> in. wc		OFF	OFF	OFF	OFF	.49	.49	.49
		PDI-807-3	≤2.0 & > 0 <sup>1</sup> in. wc		OFF	OFF	OFF	OFF	.41	.43	.44
	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0 <sup>1</sup> in. wc		.07	.07	.07	.07	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0 <sup>1</sup> in. wc		.49	.49	.49	.47	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0 <sup>1</sup> in. wc		.41	.41	.41	.41	OFF	OFF	OFF



(Page 2 of 4)

July - December 2014

[illegible]

(Page 3 of 4)

July - December 2014

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)													
					Date: 8/18/14							Date: 8/19/14						
					Weekday:							Weekday:						
					Acceptance Criteria							Acceptance Criteria						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) AP	'PDI-812-1	$\leq 2.0$ & $> 0^1$ in. wc	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17			
			$\leq 2.0$ & $> 0^1$ in. wc	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38		
			$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39		
			$\leq 2.0$ & $> 0^1$ in. wc	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36		
			$\leq 2.0$ & $> 0^1$ in. wc	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32		
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) AP	'PDI-813-1	$\leq 2.0$ & $> 0^1$ in. wc	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738				
			$\leq 2.0$ & $> 0^1$ in. wc	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738			
			$\leq 2.0$ & $> 0^1$ in. wc	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738			
			$\leq 2.0$ & $> 0^1$ in. wc	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738			
			$\leq 2.0$ & $> 0^1$ in. wc	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738	.5738			
4.1.3.4	IFTT exhaust filter plenum (FF-865) AP	'PDI-865-1	$\leq 2.0$ & $> 0^1$ in. wc	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03				
			$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31			
			$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40			
			$\leq 2.0$ & $> 0^1$ in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05			
			$\leq 2.0$ & $> 0^1$ in. wc	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27			
4.1.3.4	IFTT supply filter plenum (IIVP-863) AP	'PDI-863-1	$\leq 2.0$ & $> 0^1$ in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05				
			$\leq 2.0$ & $> 0^1$ in. wc	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27			
			$\leq 2.0$ & $> 0^1$ in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05			
			$\leq 2.0$ & $> 0^1$ in. wc	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27			
			$\leq 2.0$ & $> 0^1$ in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05			

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:						
				Weekday:						
				Initials:						
				8/18/14	8/19/14	8/20/14	8/21/14	8/22/14	8/23/14	8/24/14
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				ju	ju	PT	RAH	PT	PT	PT
SURVEILLANCE RESULTS										
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	.15	.17	.15	.16	.11	.15	.15
		PDI-857-2	≤ 2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.49	.50
	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	.06	.06	.06	.06	.06	.06	.06
		PDI-856-2	≤ 2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.51
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)							
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less							
Completion time				0908	0840	0941	0845	0824	0812	0813
OC Operator Review and Page Count Complete (initials)				ju	ju	ju	ju	ju	ju	ju

## Non TSR requirement

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

Completed by: Paul Zugello Date 8/24/14 Time 0813

Reviewed by:

On-duty Supervisor

Date: 8/25/14 Time: 0645

Comments: 8/19/14 4.1.3.4 Combustibles still in room 4. Awaiting test results.

## 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:	8/25/14 8/26/14 8/27/14 8/28/14 8/29/14 8/30/14 8/31/14															
	Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	Initials:	BCE		BCE		BCE		BCE		BCE		BCE		BCE			
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)													
		PDI-814-1 or PDI-814-2	<-1.0 in. wc <sup>1</sup>	-1.99	-1.98	-1.98	-1.99	-1.92	-1.95	-1.95	-1.94	-1.95	-1.95	-1.94	-1.95	-1.93	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP <sup>1</sup>	PDI-820-1 or PDI-820-2	<-1.0 in. wc <sup>1</sup>	-1.94	-1.94	-1.93	-1.93	-1.90	-1.92	-1.92	-1.91	-1.92	-1.92	-1.92	-1.92	-1.93	
	300 area glovebox exhaust header AP <sup>1</sup>	PDI-870-1 or PDI-870-2	<-1.0 in. wc <sup>1</sup>	-1.99	-1.99	-2.02	-1.97	-2.00	-1.99	-1.96	-1.99	-1.98	-1.98	-1.97	-1.96	-1.98	
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	400 area glovebox exhaust header AP <sup>1</sup>	PDI-864-1 or PDI-864-2	<-1.0 in. wc <sup>1</sup>	-2.00	-2.00	-2.01	-1.97	-1.99	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	
	200 area laboratory header AP <sup>1</sup>	PDI-803-1 or PDI-803-2	<-0.05 in. wc <sup>1</sup>	-2.20	-2.20	-2.20	-2.20	-2.17	-2.20	-2.19	-2.19	-2.19	-2.19	-2.19	-2.20	-2.20	
	100 area laboratory header AP <sup>1</sup>	PDI-802-1 or PDI-802-2	<-0.05 in. wc <sup>1</sup>	-2.22	-2.22	-2.23	-2.23	-2.20	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.23	
	300 area laboratory header AP <sup>1</sup>	PDI-853-1 or PDI-853-2	<-0.05 in. wc <sup>1</sup>	-2.22	-2.22	-2.22	-2.22	-2.20	-2.22	-2.19	-2.22	-2.22	-2.22	-2.22	-2.22	-2.20	
4.1.1.3 4.1.2.3 <sup>2</sup>	400 area laboratory header AP <sup>1</sup>	PDI-852-1 or PDI-852-2	<-0.05 in. wc <sup>1</sup>	-2.20	-2.20	-2.20	-2.20	-2.19	-2.20	-2.18	-2.20	-2.20	-2.20	-2.20	-2.21	-2.20	
	IFTT Facility AP <sup>1</sup>	PDI-865-4 or PDI-865-5	<-0.05 in. wc	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.8	
	North basement AP <sup>1</sup>	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	-1.09	
	South basement AP <sup>1</sup>	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	
4.1.1.3 4.1.2.3 <sup>2</sup>	IRT Tunnel AP <sup>1</sup>	PDI-901 or PDI-901	< 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	-1.14	



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

(Page 2 of 3)

SRs	Note	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 PDTs 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	Mon. 8/25/14	Tue. 8/26/14	Wed. 8/27/14	Thu. 8/28/14	Fri. 8/29/14	Sat. 8/30/14	Sun. 8/31/14							
		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)

Note		Date:	Mon.		Tue		Wed		Thu		Fri		Sat.		Sun.		
Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.		Weekday:															
		Shift:	AM		PM		AM		PM		AM		PM		AM		
		Initials:	080		080		080		080		080		080		080		
SRs	Description	Area	Gauge	Acceptance Criteria		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-814-2 < PDI-803-2 < PDI-804-2		Sat. / Unsat. (circle one)											
		100 Area	PDI-820-2 PDI-802-2 PDI-804-2	PDI-820-2 < PDI-802-2 < PDI-804-2													
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2													
		400 Area	PDI-864-2 PDI-852-2 PDI-854-2	PDI-864-2 < PDI-852-2 < PDI-854-2													
		Completion Time															

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: [Signature] Date: 8/22/14 Time: 1923 Reviewed by: [Signature] Date: 9/3/14 Time: 0700

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

SR	Description / Gauge	Date:	8/25/14	8/26/14	8-27-14	8-28-14	8-29-14	8/31/14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
		Initials:	for	gh	gr	gh	gh	gh
		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
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value ≥ -0.1; ≤ +0.1	0.0	0.0	0.0	0.0	0.0	0.0
	Completion Time:	0137	0153	0349	0803	0739	0846	0748

## 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:	8/25/14	8/26/14	8-27-14	8/28/14	08/29/14	08/30/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:		gr	gr	PT	gr	mw	mw
										Sun.
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	.07	.07	.07	.07	.07	.07	.06
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc	.51	.51	.51	.51	.51	.51	.51
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc	.08	.08	.08	.08	.08	.08	.08
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc	.62	.61	.61	.61	.61	.61	.62
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc	.19	.29	.29	STBY	STBY	STBY	STBY
		PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	STBY	STBY	STBY	STBY
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc	.30	.31	.31	STBY	STBY	STBY	STBY
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc	.32	.30	.30	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	STBY	STBY	STBY	STBY
		PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	STBY	STBY	STBY	STBY
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc	.34	.34	.34	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc	.27BY	.27BY	.27BY	.25	.25	.26	.26
		PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc	.27BY	.27BY	.27BY	.30	.30	.30	.30
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc	.27BY	.27BY	.27BY	.31	.31	.32	.32
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc	.27BY	.27BY	.27BY	.29	.29	.29	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc	.27BY	.27BY	.27BY	.39	.39	.39	.39
		PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc	.27BY	.27BY	.27BY	.43	.43	.43	.45
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc	.27BY	.27BY	.27BY	.39	.39	.39	.39



(Page 3 of 4)

July - December 2014

		Date:	8-25/14	8-26/14	8-27-14	8-28/14	08-29/14	08-30/14	08-31/14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	JR	AP	PT	GR	MGB	MNT	MST
SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)						
		Acceptance Criteria							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0 <sup>1</sup> in. wc	.71	.73	STBY	STBY	STBY	STBY
		PDI-822-2	≤2.0 & > 0 <sup>1</sup> in. wc	.50	.51	STBY	STBY	STBY	STBY
		PDI-822-4	≤2.0 & > 0 <sup>1</sup> in. wc	.41	.41	STBY	STBY	STBY	STBY
		PDI-822-5	≤2.0 & > 0 <sup>1</sup> in. wc	.45	.48	STBY	STBY	STBY	STBY
		'PDI-823-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	.09	.10	.09	.09
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	.42	.43	.43	.43
		PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	.49	.49	.49	.49
		PDI-823-5	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	.49	.50	.49	.49
		'PDI-830-1	≤2.0 & > 0 <sup>1</sup> in. wc	.60	.61	.61	.62	.61	.61
		PDI-830-2	≤2.0 & > 0 <sup>1</sup> in. wc	.30	.31	.30	.30	.30	.30
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-3	≤2.0 & > 0 <sup>1</sup> in. wc	.26	.27	.28	.28	.28	.28
		'PDI-836-1	≤2.0 & > 0 <sup>1</sup> in. wc	.95	.95	.97	.96	.97	.97
		PDI-836-2	≤2.0 & > 0 <sup>1</sup> in. wc	.57	.56	.58	.58	.58	.57
		PDI-836-3	≤2.0 & > 0 <sup>1</sup> in. wc	.56	.56	.57	.57	.57	.57
		'PDI-837-1	≤2.0 & > 0 <sup>1</sup> in. wc	.50	.50	.50	.50	.50	.50
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-837-2	≤2.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.40
		PDI-837-3	≤2.0 & > 0 <sup>1</sup> in. wc	.39	.39	.39	.39	.38	.38
		300 area re-circulation filter plenum (IIVP-806) AP							

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

(Page 4 of 4)

		Date:		8/13/14	8/14/14	8-27-14	8/28/14	8/29/14	8/30/14	8/31/14
		Weekday:		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		pm	pm	PT	pm	mon	mon	mon
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc	.41	.42	.42	.42	.41	.41	.41
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc	.39	.39	.39	.39	.39	.39	.39
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.30	.50	.30	.31
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & > 0 <sup>1</sup> in. wc	.11	.11	.12	.12	.12	.12	.12
		PDI-811-2	≤2.0 & > 0 <sup>1</sup> in. wc	.49	.49	.49	.50	.49	.49	.49
		PDI-811-3	≤2.0 & > 0 <sup>1</sup> in. wc	.50	.50	.50	.50	.50	.50	.50
			Completion Time	0808	0812	0810	0852	0913	0828	0806
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 H. Tash Date: 8/13/14 Time: 0806 Reviewed by: 0806Date: 8/14/14 Time: 0805

Operator Supervisor

Comments

(Page 1 of 4)

[illegible]

(Page 2 of 4)

July - December 2014

		Date:	8/25/14	8-26-14	8/27/14	8/28/14	8-29-14	08/30/14	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
		Initials:	per	PT	pr	gr	ph	mwt	
SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)						
		Acceptance Criteria							
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc	.15	.14	.12	.15	.15	.14
		PDI-829-2	≤2.0 & > 0' in. wc	.39	.39	.24	.38	.39	.38
		PDI-829-3	≤2.0 & > 0' in. wc	.20	.20	.18	.20	.20	.20
	100 area re-circulation filter plenum (HVP-803) AP	'PDI-833-1	≤2.0 & > 0' in. wc	.99	.99	.99	.99	.99	1.00
		PDI-833-2	≤2.0 & > 0' in. wc	.48	.48	.48	.46	.48	.47
		PDI-833-3	≤2.0 & > 0' in. wc	.47	.48	.47	.46	.47	.47
4.1.1.7	100 area re-circulation filter plenum (HVP-804) AP	'PDI-835-1	≤2.0 & > 0' in. wc	.15	.15	.15	.15	.15	.15
		PDI-835-2	≤2.0 & > 0' in. wc	.44	.44	.44	.45	.43	.43
		PDI-835-3	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	'PDI-815-1	≤2.0 & > 0' in. wc	STBY	STBY	.20	.18	.20	.20
		PDI-815-2	≤2.0 & > 0' in. wc	STBY	STBY	.42	.45	.40	.40
		PDI-815-4	≤2.0 & > 0' in. wc	STBY	STBY	.35	.34	.34	.34
	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-5	≤2.0 & > 0' in. wc	STBY	STBY	.39	.39	.39	.39
		'PDI-816-1	≤2.0 & > 0' in. wc	.36	.34	STBY	STBY	STBY	STBY
		PDI-816-2	≤2.0 & > 0' in. wc	.41	.41	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	.46	.40	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	.41	.41	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:	Date:							SURVEILLANCE RESULTS (in. wc)						
					Weekday:													
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
					8/25/14	8-26-14	8/27/14	8/28/14	8-29-14	8/30/14								

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

(Page 4 of 4)

SURVEILLANCE RESULTS											
SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:						
					Weekday:	8/25/14	8/26/14	8/27/14	8/28/14	8/29/14	8/30/14
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					for	PT	for	for	for	for	for
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc		.15	.15	.13	.14	.13	.15	.15
		PDI-857-2	≤ 2.0 & > 0' in. wc		.50	.50	.49	.49	.50	.50	.50
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc		.06	.06	.06	.06	.06	.06	.05
		PDI-856-2	≤ 2.0 & > 0' in. wc		.51	.51	.51	.50	.50	.50	.50
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)		SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less		SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time					0757	0815	0920	0856	0935	0843	0824
OC Operator Review and Page Count Complete (initials)					0800	0800	0800	0800	0800	0800	0800

Date: 7/13/14 Time: 07:25

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

(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	0949	8-27-14	mm
4.1.3.2	Confinement Door DR-344	Southeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	0951	8-27-14	mm
4.1.3.2	Confinement Door DR-149	Northeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	0916	8-27-14	mm
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	0922	8-27-14	mm
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.	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	0924	8-27-14	mm
			4.5 Seconds	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	0925	8-27-14	mm

\*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 L&NL Building TA55-4 (PF-4): Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANI-DOE-ORDER-420 1B-EO-2013-001

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

(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).  AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is $\leq$ 30 seconds.  6.8 Seconds	<input checked="" type="checkbox"/> Sat / <input type="checkbox"/> Unsat.	0929	8-27-14	nm
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="checkbox"/> Sat / <input type="checkbox"/> Unsat.	0930	8-27-14	nm
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.	0944 <del>0937</del> nm 8-27-14	8-27-14	nm
				<input checked="" type="checkbox"/> Sat / <input type="checkbox"/> Unsat.	0937	8-27-14	nm
OC Operator Review and Page Count Complete							

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: nm mclary Date: 8-27-14 Time: 0953 Reviewed by: BB Date: 8/27/14 Time: 0954

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

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

Completed by: AS AS Date 8-1-14 Time 0510

Reviewed by: [Signature] Date 8/4/14 Time 0700  
On-duty Supervisor

Comments:

TA55-STP-002, R11.1

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

Page 20 of 29

**Attachment B, Surveillance Training Checklist**

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004 R17
Date of issue:	9-1-2014
Working copy issued to:	A. ORTIZ
Working copy issued by:	JOHN SMELTZ
	Certified Operations Center Operator

**Operations Center Operator Review**




 Signature 10/1/14 Date

Required Reading for this Surveillance has been completed.  
Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R. BRISCOE	JOS	9-1-14
B. CHANCE	JOS	9-1-2014
D. DUNLAUV	JOS	9-1-2014
A. DUNSELT	JOS	9-1-14
J. LOVATO	JOS	9-1-14
R. LUM	JOS	9-1-14
A. ORTIZ	JOS	9-1-14
F. SEYBERT	JOS	9-1-14
J. SMELTZ	JOS	9-1-14
J. MARTINEZ	JOS	9-1-2014

Comments:


[illegible]

Prepared by:		9/23/14
	Preparer/System Engineer	Date
Reviewed by:		9/23/14
	Operations Center On-Duty Supervisor	Date
Approved by:		9-23-14
	Operations Manager	Date



## 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:		9/1/14		9/2/14		9/3/14		9/4/14		9/5/14		9/6/14		9/7/14		
	Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
	Shift:		AM		PM		AM		PM		AM		PM		AM		
	Initials:		u		u		u		u		u		u		u		
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)													
		PDI-814-1 or PDI-814-2	≤ -1.0 in. wc <sup>1</sup>	-1.95	-1.95	-1.94	-1.93	-1.94	-1.93	-1.91	-1.94	-1.95	-1.96	-1.94	-1.93	-1.97	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc <sup>1</sup>	-1.95	-1.95	-1.94	-1.93	-1.94	-1.93	-1.91	-1.94	-1.95	-1.96	-1.94	-1.93	-1.97	
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc <sup>1</sup>	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.91	-1.93	-1.93	-1.92	-1.93	-1.92	-1.92	
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc <sup>1</sup>	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.99	-1.98	-1.99	-1.98	-1.99	-1.99	
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc <sup>1</sup>	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc <sup>1</sup>	-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	
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc <sup>1</sup>	-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	≤ -0.05 in. wc <sup>1</sup>	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc <sup>1</sup>	-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	
4.1.1.3 4.1.2.3 <sup>2</sup>	IRTT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	-1.15	

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

(Page 2 of 3)

Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.	Date:	9/1/14		9/2/14		9/3/14		9/4/14		9/5/14		9/6/14		9/7/14	
		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
SRs	Description	Readings		Acceptance Criteria		SURVEILLANCE RESULTS									
				At least one fan/plenum is in service	Sat. / Unsat. (circle one)	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDTI-831 AP > 050 or FR-802 Icon red and PDTI-832 AP > 050	FR-803 Icon red and PDTI-833 AP > 050 or FR-804 Icon red and PDTI-835 AP > 050			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	100 area re-circulation fan/plenum	FR-805 Icon red and PDTI-836 AP > 050 or FR-806 Icon red and PDTI-837 AP > 050	FR-807 Icon red and PDTI-838 AP > 050 or FR-808 Icon red and PDTI-839 AP > 050			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	300 area re-circulation fan/plenum	FR-809 Icon red and PDTI-840 AP > 050 or FR-810 Icon red and PDTI-841 AP > 050	FR-811 Icon red and PDTI-842 AP > 050 or FR-812 Icon red and PDTI-843 AP > 050			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	400 area re-circulation fan/plenum	FR-813 Icon red and PDTI-844 AP > 050 or FR-814 Icon red and PDTI-845 AP > 050	FR-815 Icon red and PDTI-846 AP > 050 or FR-816 Icon red and PDTI-847 AP > 050			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	Vault re-circulation fan/plenum	FR-817 Icon red and PDTI-848 AP > 050 or FR-818 Icon red and PDTI-849 AP > 050	FR-819 Icon red and PDTI-850 AP > 050 or FR-820 Icon red and PDTI-851 AP > 050			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-821 Icon red and PDTI-852 AP > 050 or FR-822 Icon red and PDTI-853 AP > 050	FR-823 Icon red and PDTI-854 AP > 050 or FR-824 Icon red and PDTI-855 AP > 050			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-825 Icon red and PDTI-856 AP > 050 or FR-826 Icon red and PDTI-857 AP > 050	FR-827 Icon red and PDTI-858 AP > 050 or FR-828 Icon red and PDTI-859 AP > 050			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-829 Icon red and PDTI-860 AP > 050 or FR-830 Icon red and PDTI-861 AP > 050	FR-831 Icon red and PDTI-862 AP > 050 or FR-832 Icon red and PDTI-863 AP > 050			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-833 Icon red and PDTI-864 AP > 050 or FR-834 Icon red and PDTI-865 AP > 050	FR-835 Icon red and PDTI-866 AP > 050 or FR-836 Icon red and PDTI-867 AP > 050			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
		FR-837 Icon red and PDTI-868 AP > 050 or FR-838 Icon red and PDTI-869 AP > 050	FR-839 Icon red and PDTI-870 AP > 050 or FR-840 Icon red and PDTI-871 AP > 050			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat

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

(Page 3 of 3)

Note		Date:	9/1/14		9/2/14		9/3/14		9/4/14		9/5/14		9/6/14		9/7/14			
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
		Shift:	AM PM		AM PM		AM PM		AM PM		AM PM		AM PM		AM PM			
		Initials:	u r		u r		u r		u r		u r		u r		u r			
SRs	Description	Area	Gauge	SURVEILLANCE RESULTS														
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	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
			PDI-820-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		100 Area	PDI-802-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
			PDI-870-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		300 Area	PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-864-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
			PDI-852-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		Completion Time		0701	1930	0720	1930	0731	1933	0731	1930	0725	1930	0725	1930			

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4 1.2 x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: af Date: 9-7-14 Time: 1930Reviewed by: [Signature] Date: 9-8-14 Time: 0725  
On-duty Supervisor

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

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

(Page 1 of 4)

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

SR	Description / Gauge	Date:	9/1/14	9/2/14	9/3/14	9/4/14	9/5/14	9/6/14	9/7/14	
		Weekday:	Mon.	Tue.	Wed.	Thü.	Fri.	Sat.	Sun.	
		Initials:	JA	JA	JA	JA	JA	JA	JA	JA
		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) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		$\geq -0.1;$ $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	
		Completion Time:	0724	0735	0814	0847	0809	0704	0741	



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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
			Initials:	gn	gn	gn	gn	gn	gn	gn							
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	.08	.07	.08	.08	.07	.07	.07							
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc	.51	.52	.52	.52	.52	.51	.51							
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc	.08	.08	.09	.08	.09	.09	.08							
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc	.61	.61	.62	.61	.62	.62	.61							
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc	.25	.26	.24	.26	.24	.24	.26							
		PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31							
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc	.32	.32	.32	.32	.32	.32	.32							
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc	.29	.29	.29	.29	.29	.29	.29							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.40	.40	.40	.40	.40							
		PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc	.42	.42	.43	.43	.43	.43	.43							
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39	.39	.39							

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

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	9/1/14	9/2/14	9/3/14	9/4/14	9/5/14	9/6/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤ 2.0 & > 0' in. wc	Initials:	pm	pm	RL	pm	RL	RL
		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			.09	.09	.09	.09	.09
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & > 0' in. wc			.43	.45	.44	.45	.46
		PDI-823-4	≤ 2.0 & > 0' in. wc			.48	.48	.48	.48	.49
		PDI-823-5	≤ 2.0 & > 0' in. wc			.49	.50	.50	.50	.50
		PDI-830-1	≤ 2.0 & > 0' in. wc			.61	.62	.61	.62	.63
		PDI-830-2	≤ 2.0 & > 0' in. wc			.31	.30	.31	.30	.30
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-3	≤ 2.0 & > 0' in. wc			.27	.28	.27	.29	.29
		PDI-836-1	≤ 2.0 & > 0' in. wc			.97	.97	.97	.97	.97
		PDI-836-2	≤ 2.0 & > 0' in. wc			pm 9/1/14	.57	.57	.58	.58
		PDI-836-3	≤ 2.0 & > 0' in. wc			pm 9/1/14	.56	.56	.56	.56
		PDI-837-1	≤ 2.0 & > 0' in. wc			pm 9/1/14	.50	.50	.50	.50
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-837-2	≤ 2.0 & > 0' in. wc			.41	.41	.41	.41	.41
		PDI-837-3	≤ 2.0 & > 0' in. wc			.39	.39	.39	.39	.39

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

(Page 4 of 4)

				Date:	9/1/14	9/2/14	9/3/14	9/4/14	9/5/14	9/6/14	9/7/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	for	for	for	for	for	for	for
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	for 9/1/14 .31	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	.41	.41	.41	.41	.41	.41	.41	
		PDI-838-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	.39	.39	.39	.39	.39	.39	.39	
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	.31	.31	.31	.31	.31	.31	.31	
		PDI-839-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	.41	.41	.41	.41	.41	.41	.41	
		PDI-839-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	.41	.41	.41	.41	.41	.41	.41	
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	.12	.12	.12	.12	.12	.12	.12	
		PDI-811-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	.49	.49	.49	.49	.49	.49	.49	
		PDI-811-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	.50	.50	.50	.50	.50	.50	.50	
			Completion Time	0800	0802	0841	0856	0856	0738	0825	
OC Operator Review and Page Count Complete (initials)				a	a	a	a	a	a	a	a

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: James Date 9/1/14 Time 0825 Reviewed by: Bob Date 9-8-14 Time 0727

On-duty Supervisor

Comments

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Initials:				9/1/14	9/2/14	9/3/14	9/4/14	9/5/14	9/6/14	9/7/14
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	'PDI-841-1	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.41	.51	
	PDI-841-2	≤2.0 & > 0' in. wc	.56	.56	.56	.54	.57	.57	.57	
	PDI-841-3	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.57	.51	
	'PDI-831-1	≤2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33	.33	
	PDI-831-2	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	
	PDI-831-3	≤2.0 & > 0' in. wc	.38	.38	.38	.38	.37	.38	.38	
	'PDI-832-1	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	
4.1.3.4	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-2	≤2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.60	.60
		PDI-832-3	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.55	.55	.55
		'PDI-807-1	≤2.0 & > 0' in. wc	.11	.11	.11	.11	.11	.11	.11
	PDI-807-2	≤2.0 & > 0' in. wc	.48	.48	.48	.48	.49	.48	.48	
	PDI-807-3	≤2.0 & > 0' in. wc	.55	.55	.55	.45	.45	.49	.48	
	'PDI-809-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	.06	
	PDI-809-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	.48	
	PDI-809-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	.47	



(Page 2 of 4)

[illegible]

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

(Page 3 of 4)

SRs	Description	Gauge	Date:								
			Weekday:								
			Initials:								
			Acceptance Criteria								
SURVEILLANCE RESULTS (in. wc)											
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	<2.0 & >0' in. wc	.16	.16	.16	.14	.16	.16	STBY	
		PDI-812-2	<2.0 & >0' in. wc	.37	.36	.37	.37	.37	.37	STBY	
		PDI-812-3	<2.0 & >0' in. wc	.38	.38	.38	.38	.38	.38	STBY	
		PDI-812-4	<2.0 & >0' in. wc	.35	.35	.35	.35	.35	.36	STBY	
		PDI-812-5	<2.0 & >0' in. wc	.31	.31	.31	.31	.31	.31	STBY	
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	.29	
		PDI-813-2	<2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	.31
		PDI-813-3	<2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	.29
		PDI-813-4	<2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	.33
		PDI-813-5	<2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	.22
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	<2.0 & >0' in. wc	.03	.03	.03	.03	.03	.03	.03	
		PDI-865-2	<2.0 & >0' in. wc	.32	.32	.32	.31	.31	.31	.31	
		PDI-865-3	<2.0 & >0' in. wc	.40	.42	.40	.39	.39	.40	.40	
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	<2.0 & >0' in. wc	.06	.06	.06	.06	.06	.06	.06	
		PDI-863-2	<2.0 & >0' in. wc	.28	.28	.28	.28	.28	.28	.28	

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

(Page 4 of 4)

		Date:	9/1/14	9/2/14	9/3/14	9/4/14	9/5/14	9/6/14	9/7/14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
SRs	Description	Gauge	SURVEILLANCE RESULTS						
			Acceptance Criteria						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	.13	.13	.14	.13	.13	.13
		PDI-857-2	≤ 2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	.06	.06	.06	.05	.06	.06
		PDI-856-2	≤ 2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)						
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less						
			Completion time						
			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>

## Non TSR requirement

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

Completed by: *[Signature]* Date: 9/7/14 Time: 0817Reviewed by: *[Signature]*

Date: 9-8-14 Time: 0730

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.:	039744	V-701 Thermistor File No.:	042253
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:	6/26/15
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040375	V-704 Thermistor File No.:	040373
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:	6/26/15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature																					
Daily (September through April only)																					
Date:	9/1/14	9/2/14	9/3/14	9/4/14	9/5/14	9/6/14	9/7/14														
Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.														
Initials:	U	B.F.	AK	YL	YL	YL	YL														
SR	Description	Acceptance Criteria	Calibration dates have not elapsed	Calibration dates have	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT								
														≥ 42.1 F	68.8	69.1	69.9	70.1	70.1	69.5	68.8
														≥ 42.1 F	71.2	71.6	71.9	72.2	72.1	71.5	70.9
														≥ 50.1 F	75.8	75.4	75.1	74.8	73.5	70.0	69.0
														≥ 50.1 F	74.6	75.0	75.6	75.0	73.0	70.6	68.9
Completion Time:													0849	0814	0933	0857	0841	0935	0810		
OC Operator Review and Page Count Complete (Initials)														U	U	U	U	U	U	U	U

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

Completed by: W. L. Pickett Date: 9/7/14 Time: 0810

Reviewed by: W. L. Pickett Date: 9-8-14 Time: 0733








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:	9/8/14		9/9/14		9/10/14		9/11/14		9/12/14		9/13/14		9/14/14			
		Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:															
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc'	1.94	1.94	1.93	1.93	1.95	-1.94	1.94	-1.95	1.94	-1.96	1.96	-1.95		
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc'	1.91	1.92	1.94	1.94	1.92	-1.92	1.92	-1.93	1.92	-1.93	1.92	-1.92		
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc'	1.90	1.90	1.91	1.91	1.91	-1.99	1.91	-1.99	1.91	-1.99	1.91	-1.99		
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc'	1.96	1.98	1.95	1.98	1.98	-1.98	1.97	-1.98	1.97	-1.98	1.97	-1.98		
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc'	0.20	0.20	0.21	0.20	0.20	-0.20	0.20	-0.20	0.20	-0.20	0.20	-0.20		
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc'	0.13	0.13	0.13	0.13	0.13	-0.23	0.13	-0.23	0.13	-0.23	0.13	-0.23		
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc'	0.21	0.22	0.21	0.21	0.21	-0.21	0.21	-0.21	0.21	-0.21	0.21	-0.21		
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc'	0.22	0.22	0.21	0.21	0.21	-0.20	0.21	-0.21	0.21	-0.20	0.21	-0.21		
4.1.1.3 4.1.2.3 <sup>2</sup>	IFT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	0.19	0.19	0.19	0.19	0.19	-0.19	0.19	-0.19	0.19	-0.19	0.19	-0.19		
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	0.10	0.10	0.10	0.10	0.10	-0.10	0.10	-0.10	0.10	-0.10	0.10	-0.10		
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	0.11	0.11	0.11	0.11	0.11	-0.11	0.11	-0.11	0.11	-0.11	0.11	-0.11		
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	0.14	0.14	0.14	0.14	0.14	-0.14	0.14	-0.14	0.14	-0.14	0.14	-0.14		

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

(Page 2 of 3)

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: Weekday: Shift: Initials:	9/8/14		9/9/14		9/10/14		9/11/14		9/12/14		9/13/14		9/14/14	
		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
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	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 AP > 050 or FR-804 Icon red and PDT-835 AP > 050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	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
	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
	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

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

(Page 3 of 3)

Note		Date:	9/8/14		9/9/14		9/10/14		9/11/14		9/12/14		9/13/14		9/14/14							
		Weekday:	Mon		Tue		Wed		Thu		Fri		Sat		Sun							
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM						
Initials:																						
4.1.1.4	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.	Description Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	Area 200 Area 100 Area 300 Area 400 Area	Gauge PDI-814-2 PDI-803-2 PDI-804-2 PDI-820-2 PDI-802-2 PDI-804-2 PDI-870-2 PDI-853-2 PDI-854-2 PDI-864-2 PDI-852-2 PDI-854-2	Acceptance Criteria PDI-814-2 < PDI-803-2 < PDI-804-2 PDI-820-2 < PDI-802-2 < PDI-804-2 PDI-870-2 < PDI-853-2 < PDI-854-2 PDI-864-2 < PDI-852-2 < PDI-854-2	SURVEILLANCE RESULTS																
						Sat. / Unsat. (circle one)																
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	
						Completion Time		0715	0720	0730	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2 x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: Rafael P. Davis Date: 9/14/14 Time: 1921 Reviewed by: [Signature] Date: 9/14/14 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 ( $\geq -0.1$ ;  $\leq 0.1$ ).

SR	Description / Gauge	Date:	9/8/14	9/9/14	9/10/14	9/11/14	9/12/14	9/13-14	9-14-14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	ZH	ZH	JH	ZH	ZH	ZH	ZH
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	0.0
			≥ -0.1; ≤ +0.1	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0825	0750	0801	0811	0818	0926	0809



## 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.
				Weekday:	Initials:					
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	9/8/14	RA	05	9/10/14	RA	9/12/14	9-13-14
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc							9-14-14
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-821-4	$\leq 2.0$ & $> 0^1$ 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.
				Weekdays:	Initials:					
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc	9/8/14	MS	9/9/14	9/10/14	9/11/14	9/12/14	9/13/14
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc							

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:			Initials:										
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				9/8/14	9-9-14	9/10/14	9/11/14	9/12/14	9-13-14	9-14-14							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				RA	AS	JA	RA	RA	PT	PT							
4.1.1.7	400 area re-circulation filter plenum ( HVP-807) AP	PDI-838-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31		
		PDI-838-2	$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40		
		PDI-838-3	$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39		
	400 area re-circulation filter plenum ( HVP-808) AP	PDI-839-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31		
		PDI-839-2	$\leq 2.0$ & $> 0^1$ in. wc	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47		
		PDI-839-3	$\leq 2.0$ & $> 0^1$ in. wc	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42		
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	PDI-810-1	$\leq 2.0$ & $> 0^1$ in. wc	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16			
		PDI-810-2	$\leq 2.0$ & $> 0^1$ in. wc	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49			
		PDI-810-3	$\leq 2.0$ & $> 0^1$ in. wc	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49			
4.1.3.4	South Bleed off filter plenum ( FF-822B) AP	PDI -811 - 1	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF			
		PDI -811 -2	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF			
		PDI -811 -3	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF			
			Completion Time	0825	0814	0835	0837	0904	0840	0738							
OC Operator Review and Page Count Complete (initials)																	

'Non TSR requirement:

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

Completed by: Paul Angelle Date 9-14-14 Time 0738 Reviewed by:

Date: 9/14/14 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	Initials:	Date:							SURVEILLANCE RESULTS (in. wc)						
					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 <sup>1</sup> in. wc	BA	9/9/14	9/9/14	9/10/14	9/11/14	9/12/14	9-13-14	9-14-14	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-840-2	≤2.0 & > 0 <sup>1</sup> in. wc										STBY	STBY	STBY	STBY	STBY	
		PDI-840-3	≤2.0 & > 0 <sup>1</sup> in. wc										STBY	STBY	STBY	STBY	STBY	
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0 <sup>1</sup> in. wc										.44	.45	.45	.45	.45	
		PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc										.53	.55	.56	.57	.58	
		PDI-841-3	≤2.0 & > 0 <sup>1</sup> in. wc										.50	.50	.51	.50	.51	
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0 <sup>1</sup> in. wc										.33	.33	.33	.33	.33	
		PDI-831-2	≤2.0 & > 0 <sup>1</sup> in. wc										.40	.40	.40	.40	.40	
		PDI-831-3	≤2.0 & > 0 <sup>1</sup> in. wc										.35	.36	.36	.36	.37	
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0 <sup>1</sup> in. wc										.31	.31	.31	.31	.31		
	PDI-832-2	≤2.0 & > 0 <sup>1</sup> in. wc										.60	.60	.60	.60	.60		
	PDI-832-3	≤2.0 & > 0 <sup>1</sup> in. wc										.54	.56	.56	.55	.55		
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0 <sup>1</sup> in. wc									OFF	OFF	OFF	OFF	OFF		
		PDI-807-2	≤2.0 & > 0 <sup>1</sup> in. wc										OFF	OFF	OFF	OFF	OFF	
		PDI-807-3	≤2.0 & > 0 <sup>1</sup> in. wc										OFF	OFF	OFF	OFF	OFF	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0 <sup>1</sup> in. wc									.06	.06	.06	.06	.07		
		PDI-809-2	≤2.0 & > 0 <sup>1</sup> in. wc										.49	.49	.49	.49	.49	
		PDI-809-3	≤2.0 & > 0 <sup>1</sup> in. wc										.41	.41	.41	.42	.42	



(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Mon.						
				Initials:	24	RTT	pm	pm	RT		
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.13	.11	.13	.13	.13	.15	.15	
		PDI-829-2	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.31	.31	.36	.35	.35	.39	.39	
		PDI-829-3	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.27	.27	.28	.28	.28	.31	.30	
	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.99	.99	.99	.99	1.0	1.0	1.0	
		PDI-833-2	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.48	.48	.48	.48	.48	.48	.48	
4.1.1.7	100 area re-circulation filter plenum (HVP-804) AP	PDI-833-3	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.43	.44	.44	.44	.44	.44	.44	
		PDI-835-1	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.15	.15	.15	.15	.15	.15	.15	
		PDI-835-2	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.44	.44	.44	.44	.44	.44	.44	
	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-3	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41	
		PDI-815-1	≤2.0 & ≥ 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	.19	.19	.19	
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & ≥ 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	.40	.40	.40	
		PDI-815-4	≤2.0 & ≥ 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	.35	.35	.35	
		PDI-815-5	≤2.0 & ≥ 0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	.39	.39	.39	
	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.34	.35	.34	.34	STBY	STBY	STBY	
		PDI-816-2	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.41	.42	.42	.42	STBY	STBY	STBY	
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.41	.41	.41	.41	STBY	STBY	STBY	
		100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-5	≤2.0 & ≥ 0 <sup>1</sup> in. wc	.42	.42	.42	.42	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:	9/8/14	9/9/14	9/10/14	9/11/14	9/12/14	9-13-14	9-14-14	
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
					RAH	RAH	RAH	RAH	RAH	RAH	PT	PT	PT
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	.17	.17	.17	.17	.17	.17	.17	.17
		PDI-812-2	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	.38	.38	.38	.38	.38	.38	.38	.38
		PDI-812-3	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	.38	.38	.38	.38	.38	.38	.38	.38
		PDI-812-4	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	.36	.36	.36	.36	.36	.36	.36	.36
		PDI-812-5	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY	.31	.31	.31	.31	.31	.31	.31	.31
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0 <sup>1</sup> in. wc	.80	.79	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.32	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0 <sup>1</sup> in. wc	.30	.30	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0 <sup>1</sup> in. wc	.32	.32	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0 <sup>1</sup> in. wc	.24	.24	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 <sup>1</sup> in. wc	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03
		PDI-865-2	≤2.0 & > 0 <sup>1</sup> in. wc	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32
		PDI-865-3	≤2.0 & > 0 <sup>1</sup> in. wc	.40	.39	.39	.39	.40	.40	.40	.40	.40	.40
4.1.3.4	IFTT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0 <sup>1</sup> in. wc	.04	.04	.06	.06	.06	.06	.06	.06	.06	.06
		PDI-863-2	≤2.0 & > 0 <sup>1</sup> in. wc	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29

(Page 4 of 4)

Non TSR requirement

Completed by: Paul Zingillo Date 9-14-14 Time 0805 Reviewed by:

Date: 9/14/14 Time: 1600

On-duty Supervisor

Comments:

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

039746 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											
Daily (September through April only)			Date:	9-8-2014	9-9-2014	9-10-14	9-11-14	9-12-14	9-13-14	9-14-14	
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	B.F.	B.F.	B.F.	B.F.	B.F.	B.F.	B.F.	
			Acceptance Criteria								
SR	Description	Calibration dates have not elapsed.	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.	≥ 42.1 F	68.53	68.74	68.82	68.35	68.1	66.6	67.4		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	70.70	70.91	71.12	70.65	70.4	68.91	66.2		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 50.1 F	70.97	72.75	72.54	68.41	70.4	63.2	68.8		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	70.50	71.92	72.19	70.47	70.1	64.9	67.8		
4.3.1.3'	RECORD PF-11 room temperature	Completion Time:	0855	0755	0805	0742	0840	0855	0850		
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).

5F.9-9-2014

Completed by: BRAND

Reviewed by: BRAND

On-duty Supervisor

Comments:

Date: 9/8/2014 Time: 0835

Date: 9/16/14 Time: 1600



## 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:		9/15/14		9-16-14		9/17/14		9/18/14		9-20-14		9-21-14			
	Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.			
	Shift:		AM PM		AM PM		AM PM		AM PM		AM PM		AM PM			
	Initials:		K B		C D		G H		I J		K L		M N			
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)												
		PDI-814-1 or PDI-814-2	≤-1.0 in. wc <sup>1</sup>	-1.74	-1.94	-1.97	-1.94	-1.95	-1.96	-1.95	-1.96	-1.97	-1.93	-1.92	-1.92	-1.96
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc <sup>1</sup>	-1.72	-1.92	-1.92	-1.92	-1.93	-1.92	-1.92	-1.92	-1.92	-1.92	-1.93	-1.92	-1.92
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc <sup>1</sup>	-1.74	-1.94	-1.99	-1.99	-1.98	-1.97	-1.96	-1.96	-1.99	-1.99	-1.99	-1.96	-1.98
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc <sup>1</sup>	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.97	-1.98	-1.98	-1.97	-1.98	-1.98
	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc <sup>1</sup>	-2.0	-1.9	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc <sup>1</sup>	-2.0	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc <sup>1</sup>	-2.1	-2.1	-2.2	-2.2	-2.1	-2.1	-2.1	-2.2	-2.1	-2.1	-2.1	-2.1	-2.1
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc <sup>1</sup>	-2.0	-2.0	-2.0	-2.1	-2.1	-2.1	-2.1	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0
	IFTT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9
4.1.1.3 4.1.2.3 <sup>2</sup>	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-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
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	-1.09	-1.08	-1.12	-1.12	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.13	-1.10

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

(Page 2 of 3)

Note	SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat. / Unsat. (circle one)													
					Date:	Weekday:	Shift:	Initials:	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 PDTs may be used if FCS is unavailable.	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	9/15/14	9-16-14	9/17/14	9/18/14								9-21-14		
		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)

Note		Date:	9/15/14		9/16/14		9/17/14		9/18/14		9/19/14		9/20/14		9/21/14		
		Weekday:			Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		Initials:	K D		000		000		000		000		000		000		
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	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
			PDI-804-2	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
	100 Area	PDI-802-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		PDI-870-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	300 Area	PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		PDI-864-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		PDI-852-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	400 Area	PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
Completion Time			0740	1930	0730	1930	0730	1930	0730	1930	0730	1930	0730	1930	0730	1930	

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2 x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: REBECCA PERC Date 9/22/14 Time 1920 Reviewed by: RBB Date: 9/23/14 Time: 1347

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

SR  4.4.1.1	Description / Gauge  Flammable Gas Channel Check DET-305-3 (LCD Reading)	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
	CP-305-H (LED Reading)  (DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	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
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
Completion Time:	0824	0834	0853	0750	0848	0858	0752		
Date:	9/15/14	9/16/14	9/17/14	9/18/14	9/19/14	9/20/14	9/21/14		
Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
Initials:	for	for	for	for	for	for	for		



## 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:	9/15/14	9/16/14	9/17/14	9/18/14	9/19/14	9/20/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
Initials:				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	

## 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:	9/15/14	9/16/14	9/17/14	9/18/14	9/19/14	9/20/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Initials:	gm	gm	gm	gm	gm	gm
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc		.69	.70	.70	.70	.70	.70
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc		.50	.50	.50	.50	.50	.49
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc		.41	.41	.41	.41	.41	.41
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc		.41	.42	.42	.43	.43	.43
		PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc		.62	.63	.63	.64	.64	.64
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc		.30	.31	.31	.30	.30	.30
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc		.28	.28	.28	.29	.29	.28
		PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc		.97	.97	.97	.97	.97	.97
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc		.56	.56	.56	.58	.58	.57
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc		.56	.57	.57	.57	.57	.57
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc		.50	.50	.50	.50	.50	.50
	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc		.41	.41	.41	.40	.40	.40
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc		.39	.39	.39	.38	.38	.38

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

(Page 4 of 4)

				Date:	9/15/14	9/16/14	9/17/14	9/18/14	9/19/14	9/20/14	9/21/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	fu	fu	fu	fu	fu	fu	fu
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	$\leq 2.0 \text{ in. wc}$	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	$\leq 2.0 \text{ in. wc}$	fu 9/18/14 2.41	.41	.41	.40	.40	.40	.40	
		PDI-838-3	$\leq 2.0 \text{ in. wc}$	.38	.38	.39	.39	.39	.39	.39	
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	$\leq 2.0 \text{ in. wc}$	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	$\leq 2.0 \text{ in. wc}$	.47	.47	.47	.47	.47	.47	.47	.47
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-839-3	$\leq 2.0 \text{ in. wc}$	.42	.42	.42	.42	.42	.42	.42	.42
		PDI-810-1	$\leq 2.0 \text{ in. wc}$	.16	.15	.15	.16	.16	.15	.15	
		PDI-810-2	$\leq 2.0 \text{ in. wc}$	.48	.48	.48	.49	.49	.49	.48	
	PDI-810-3	$\leq 2.0 \text{ in. wc}$	.48	.47	.47	.48	.48	.48	.46		
	4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	$\leq 2.0 \text{ in. wc}$	off	off	off	off	off	off	off
PDI-811-2			$\leq 2.0 \text{ in. wc}$	off	off	off	off	off	off	off	
PDI-811-3			$\leq 2.0 \text{ in. wc}$	off	off	off	off	off	off	off	
			Completion Time	0903	0904	0805	0823	0919	0904	0900	
OC Operator Review and Page Count Complete (initials)				cap	af	af	af	af	af	af	af

Non TSR requirement:

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

Completed by: Michael Irish Date: 9/20/14 Time: 1349 Reviewed by: RSB Date: 9/20/14 Time: 1349

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:	9/15/14	9/16/14	9/17-14	9/18/14	9/19/14	9/20/14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			Initials:	BT	BT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT



## 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:	9/15/14	9/16/14	9/17/14	9/18/14	9/19/14	9/20/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
Initials:	Initials:	Initials:	Initials:	Initials:	Initials:	Initials:	Initials:			
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	$\leq 2.0$ & $> 0.1$ in. wc	.14	.15	.14	.14	.14	.14	.14
		PDI-829-2	$\leq 2.0$ & $> 0.1$ in. wc	.38	.38	.39	.38	.38	.38	.37
		PDI-829-3	$\leq 2.0$ & $> 0.1$ in. wc	.30	.30	.30	.30	.30	.30	.30
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	$\leq 2.0$ & $> 0.1$ in. wc	1.0	1.0	1.0	.99	.99	1.0	1.0
		PDI-833-2	$\leq 2.0$ & $> 0.1$ in. wc	.48	.47	.48	.47	.47	.47	.47
		PDI-833-3	$\leq 2.0$ & $> 0.1$ in. wc	.43	.43	.43	.43	.43	.43	.43
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1	$\leq 2.0$ & $> 0.1$ in. wc	.15	.15	.15	.15	.15	.15	.15
		PDI-835-2	$\leq 2.0$ & $> 0.1$ in. wc	.44	.44	.44	.44	.44	.44	.44
		PDI-835-3	$\leq 2.0$ & $> 0.1$ in. wc	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	$\leq 2.0$ & $> 0.1$ in. wc	.19	.19	.19	.19	.19	.19	.19
		PDI-815-2	$\leq 2.0$ & $> 0.1$ in. wc	.39	.39	.39	.40	.40	.39	.39
		PDI-815-4	$\leq 2.0$ & $> 0.1$ in. wc	.33	.34	.32	.33	.33	.33	.33
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-5	$\leq 2.0$ & $> 0.1$ in. wc	.38	.38	.38	.38	.38	.38	.38
		PDI-816-1	$\leq 2.0$ & $> 0.1$ in. wc	.38	.38	.38	.38	.38	.38	.38
		PDI-816-2	$\leq 2.0$ & $> 0.1$ in. wc	.38	.38	.38	.38	.38	.38	.38
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0$ & $> 0.1$ in. wc	.38	.38	.38	.38	.38	.38	.38
		PDI-816-5	$\leq 2.0$ & $> 0.1$ in. wc	.38	.38	.38	.38	.38	.38	.38

(Page 3 of 4)

SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)							Date:	Weekday:	Initials:	Acceptance Criteria
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
			9/15/14	9/16/14	9/17-14	9/18/14	9/19/14	09/20/14	09/21/14				
			RAH	RAH	PT	W							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16
		PDI-812-2	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36
		PDI-812-3	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35
		PDI-812-4	.37	.38	.38	.37	.37	.37	.37	.37	.37	.37	.37
		PDI-812-5	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-813-2	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-813-3	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-813-4	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-813-5	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03
		PDI-865-2	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-865-3	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-863-2	.27	.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	Initials:	Date: 9/15/14 9/16/14 9-17-14 9/18/14 9/19/14 9/20/14 9/21/14						
					Weekday: Mon. Tue. Wed. Thu. Fri. Sat. Sun.						
					SURVEILLANCE RESULTS						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0' in. wc	.16	.16	.15	.16	.16	.16	.16	.16
		PDI-857-2	≤ 2.0 & > 0' in. wc	.50	.50	.50	.49	.49	.49	.49	.49
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0' in. wc	.04	.04	.06	.06	.06	.06	.06	.06
		PDI-856-2	≤ 2.0 & > 0' in. wc	.50	.50	.50	.51	.51	.51	.51	.51
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time					11:15	10:11	08:22	08:55	09:19	08:48	08:50
OC Operator Review and Page Count Complete (initials)					mg	ad	mg	mg	mg	mg	mg

## Non TSR requirement

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

Completed by: Michael Ina Date: 9/21/14 Time: 0831Reviewed by: RBBDate: 9/23/14 Time: 1350

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.:	042253	V-701 Thermistor File No.:
	Calibration Expiration Date:	6.17.15	Calibration Expiration Date:	6.26.15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:
	Calibration Expiration Date:	6.17.15	Calibration Expiration Date:	6.26.15	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature												
Daily (September through April only)												
SR		Description		Date:		Weekday:		Initials:		Acceptance Criteria		
NA		ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.		Date:		Weekday:		Initials:		Acceptance Criteria		
4.3.1.1'		RECORD fire water storage tank V-701 temperature		Date:		Weekday:		Initials:		Acceptance Criteria		
4.3.1.1'		RECORD fire water storage tank V-704 temperature		Date:		Weekday:		Initials:		Acceptance Criteria		
4.3.1.3'		RECORD PF-10 room temperature		Date:		Weekday:		Initials:		Acceptance Criteria		
4.3.1.3'		RECORD PF-11 room temperature		Date:		Weekday:		Initials:		Acceptance Criteria		
		Completion Time:		Date:		Weekday:		Initials:		Acceptance Criteria		
		OC Operator Review and Page Count Complete (initials)		Date:		Weekday:		Initials:		Acceptance Criteria		

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

Completed by: Rick Papp Date: 9/23/14 Time: 0356

Reviewed by: RSB Date: 9/23/14 Time: 1351

On-duty Supervisor

Comments:



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

(Page 1 of 3)

Note	Date:	09-22-14		09-23-14		09-24-14		09-25-14		09-26-14		09-27-14	
		Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.	
		Shift:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
SRs	Description	Gauge Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)									
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc'	-1.94	-1.93	-1.93	-1.94	-1.93	-1.95	-1.94	-1.92	-1.95	-1.95
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc'	-1.92	-1.91	-1.93	-1.92	-1.92	-1.92	-1.93	-1.92	-1.92	-1.92
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc'	-1.98	-1.97	-1.99	-1.99	-1.98	-1.99	-1.98	-1.98	-1.98	-1.98
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc'	-1.98	-1.98	-1.98	-1.99	-1.97	-1.98	-1.97	-1.97	-1.97	-1.98
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc'	-2.00	-1.99	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc'	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-2.24
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc'	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc'	-2.21	-2.21	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20	-2.20
4.1.1.3 4.1.2.3 <sup>2</sup>	1FTT Facility ΔP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	-2.19	-2.19	-2.18	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19
	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-2.10	-2.10	-2.08	-2.10	-2.09	-2.10	-2.10	-2.10	-2.10	-2.10
	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-2.10	-2.10	-2.09	-2.09	-2.09	-2.10	-2.10	-2.10	-2.10	-2.10
	IRT Tunnel ΔP	PDI-901 or PDI-901	< 0.00 in. wc	-2.07	-2.07	-2.06	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07	-2.07

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

(Page 2 of 3)

Note	Date:	09-22-14		09-23-14		1/24/14		09-25-14		09-26-14		09-27-14	
		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.					
Readings should be taken using FCS screens	Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
FMT#151,152,201LD and 202LD. Field verification and local plenum PDI's may be used if FCS is unavailable.	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Initials:	[Handwritten initials]											
	Acceptance Criteria	SURVEILLANCE RESULTS											
	Readings	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	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	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	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	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	Sat	Sat	Sat	Sat

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

(Page 3 of 3)

Note Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.		Date: 09-22-14	09-23-14	1/24/14	09-25-14	09-26-14	09-27-14	09-28-14				
Weekday:		Mon	Tue	Wed	Thu	Fri	Sat	Sun				
Shift:		AM	PM	AM	PM	AM	PM	AM				
Initials:		[Handwritten initials]										
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	Acceptance Criteria PDI-814-2 < PDI-803-2 < PDI-804-2	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)				[Handwritten initials]			
					Sat	Sat	Sat	Sat		Sat	Sat	Sat
					Unsat	Unsat	Unsat	Unsat		Unsat	Unsat	Unsat
					Sat	Sat	Sat	Sat		Sat	Sat	Sat
	100 Area	PDI-820-2 PDI-802-2 PDI-804-2	Acceptance Criteria PDI-820-2 < PDI-802-2 < PDI-804-2	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)				[Handwritten initials]				
				Sat	Sat	Sat	Sat		Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat		Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat		Sat	Sat	Sat	
	300 Area	PDI-870-2 PDI-853-2 PDI-854-2	Acceptance Criteria PDI-870-2 < PDI-853-2 < PDI-854-2	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)				[Handwritten initials]				
				Sat	Sat	Sat	Sat		Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat		Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat		Sat	Sat	Sat	
	400 Area	PDI-864-2 PDI-852-2 PDI-854-2	Acceptance Criteria PDI-864-2 < PDI-852-2 < PDI-854-2	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)				[Handwritten initials]				
				Sat	Sat	Sat	Sat		Sat	Sat	Sat	
				Unsat	Unsat	Unsat	Unsat		Unsat	Unsat	Unsat	
				Sat	Sat	Sat	Sat		Sat	Sat	Sat	
Completion Time		0727	0719	0731	0730	0722	0717	0722				

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

Completed by: [Signature] Date: 9/24/14 Time: 1402

Reviewed by: [Signature] Date: 9/24/14 Time: 0630

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

		Date:	9/22/14	9/23/14	9/24/14	9/25/14	9/26/14	9/27/14	9/28/14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	RA	RA	RA	RA	RA	RA	RA
SR 4.4.1.1	Description / Gauge	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
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
Completion Time:			0852	0919	0808	0807	0818	0700	0845



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

(Page 2 of 4)

			Date:	9/22/14	9/23/14	9/24/14	9/25/14	9/26/14	9/27/14	9/28/14
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	pr	pr	pr	Est	pr	pr	gdc
SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.06
		PDI-894-2	≤2.0 & > 0' in. wc	.51	.51	.51	.51	.51	.51	.50
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤2.0 & > 0' in. wc	.08	.08	.08	.08	.08	.08	.09
		PDI-895-2	≤2.0 & > 0' in. wc	.62	.62	.63	.43	.63	.63	.63
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-1	≤2.0 & > 0' in. wc	.24	.25	.24	.24	.24	.24	.24
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30
		PDI-818-4	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30
		PDI-818-5	≤2.0 & > 0' in. wc	.27	.26	.27	.28	.27	.27	.28
		PDI-821-1	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.38
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	≤2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42
		PDI-821-4	≤2.0 & > 0' in. wc	.38	.38	.38	.38	.38	.38	.38

9/28/14

30.8

.24

.30

.30

.28

.38

.38

.39

.42

.38

.38

.39

.42

.38

.38

.39

.42

.38

.38

.39

.42

.38

.38

.39

.42

.38

.38

.39

.42

.38

.38

.39

.42

.38

.38

.39

.42

.38

.38

.39

.42

.38

.38

.39

.42

.38

## 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:	9/22/14	9/23/14	9/24/14	9/25/14	9/26/14	9/28/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Initials:	gm	gm	gm	Det	gm	gm
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.68	.68	.69	.70	.69	.67
		PDI-822-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.49	.49	.49	.49	.49	.49
		PDI-822-4	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.41	.41	.41	.41	.41	.41
		PDI-822-5	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.42	.43	.43	.43	.43	.43
		PDI-823-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-830-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.63	.64	.67	.65	.67	.64
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.30	.30	.30	.30	.30	.30
		PDI-830-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.28	.28	.27	.29	.27	.28
		PDI-836-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.97	.97	.97	.97	.97	.96
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.51	.57	.57	.58	.57	.56
		PDI-836-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.56	.56	.56	.57	.56	.57
		PDI-837-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.50	.50	.50	.50	.50	.50
	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.41	.41	.41	.41	.41	.41
		PDI-837-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		.39	.39	.39	.39	.39	.38

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
4.1.1.7	400 area re-circulation filter plenum ( IIVP-807) AP	PDI-838-1	$\leq 2.0 \& > 0^1$ in. wc	9/22/14	9/23/14	9/24/14	9/25/14	9/26/14	9/27/14	9/28/14	9/29/14	9/30/14	10/1/14	10/2/14	10/3/14		
		PDI-838-2	$\leq 2.0 \& > 0^1$ in. wc														
		PDI-838-3	$\leq 2.0 \& > 0^1$ in. wc														
	PDI-839-1	$\leq 2.0 \& > 0^1$ in. wc															
	PDI-839-2	$\leq 2.0 \& > 0^1$ in. wc															
	PDI-839-3	$\leq 2.0 \& > 0^1$ in. wc															
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	PDI-810-1	$\leq 2.0 \& > 0^1$ in. wc														
		PDI-810-2	$\leq 2.0 \& > 0^1$ in. wc														
		PDI-810-3	$\leq 2.0 \& > 0^1$ in. wc														
4.1.3.4	South Bleed off filter plenum ( FF-822B) AP	PDI-811-1	$\leq 2.0 \& > 0^1$ in. wc														
		PDI-811-2	$\leq 2.0 \& > 0^1$ in. wc														
		PDI-811-3	$\leq 2.0 \& > 0^1$ in. wc														
			Completion Time	0940	0935	0830	0837	0904	0720	0905							
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: [Signature] Date: 9/28/14 Time: 0905 Reviewed by: [Signature] Date: 9/28/14 Time: 0630

On-duty Supervisor

Comments

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	9/22/14	9/23/14	9/24/14	9/25/14	9/26/14	9/28/14
				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	RH	JR	JR	JR	JR	JR	JR
		PDI-840-2	≤ 2.0 & > 0' in. wc	SBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤ 2.0 & > 0' in. wc	SBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-1	≤ 2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45
		PDI-841-2	≤ 2.0 & > 0' in. wc	.58	.57	.57	.57	.57	.57	.57
		PDI-841-3	≤ 2.0 & > 0' in. wc	.50	.51	.51	.51	.51	.51	.51
		PDI-831-1	≤ 2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	≤ 2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40
		PDI-831-3	≤ 2.0 & > 0' in. wc	.34	.37	.37	.37	.36	.36	.36
4.1.3.4	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-832-1	≤ 2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-832-2	≤ 2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.60	.60
		PDI-832-3	≤ 2.0 & > 0' in. wc	.55	.55	.55	.55	.55	.55	.55
		PDI-807-1	≤ 2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-2	≤ 2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-3	≤ 2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-1	≤ 2.0 & > 0' in. wc	.04	.06	.06	.06	.06	.06	.06
		PDI-809-2	≤ 2.0 & > 0' in. wc	.50	.50	.49	.49	.49	.49	.49
		PDI-809-3	≤ 2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42



## 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:							Initials:						
				Weekday:							Initials:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.15	.14	.14	.15	.15	.15	.15	.15	.15	.15	.15	.14		
		PDI-829-2	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38		
		PDI-829-3	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.30	.29	.30	.30	.30	.30	.30	.30	.30	.30	.30	.29		
		PDI-833-1	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	1.0	1.0	.99	1.0	1.0	1.0	1.0	1.0	.99	.99	.99	.99		
		PDI-833-2	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.48	.48	.48	.48	.48	.48	.48	.48	.47	.47	.47	.47		
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.43	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44		
		PDI-835-1	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.16	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15		
		PDI-835-2	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45		
		PDI-835-3	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41		
		PDI-815-1	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19		
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.39	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40		
		PDI-815-4	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.32	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33		
		PDI-815-5	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	.38	.38	.37	.37	.37	.37	.37	.37	.37	.37	.37	.38		
		PDI-816-1	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-816-2	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-816-5	$\leq 2.0 \text{ \&gt; } 0^1 \text{ in. wc}$	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	9/22/14	9/23/14	9/24/14	9/25/14	9/26/14	9/27/14	9/28/14
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
						for	for	for	for	for	for	for
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	STBY	STBY	STBY	STBY	
		PDI-812-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-3	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-812-5	≤ 2.0 & > 0' 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' in. wc	.77	.76	.77	.78	.78	.78	.78	.78	
		PDI-813-2	≤ 2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-813-3	≤ 2.0 & > 0' in. wc	.30	.30	.29	.31	.31	.31	.31	.31	
		PDI-813-4	≤ 2.0 & > 0' in. wc	.31	.32	.32	.32	.32	.32	.32	.32	
		PDI-813-5	≤ 2.0 & > 0' in. wc	.28	.28	.28	.28	.28	.30	.28	.28	
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤ 2.0 & > 0' in. wc	.03	.03	.03	.03	.03	.03	.03	.03	
		PDI-865-2	≤ 2.0 & > 0' in. wc	.30	.31	.35	.32	.31	.31	.31	.31	
		PDI-865-3	≤ 2.0 & > 0' in. wc	.49	.49	.40	.40	.39	.40	.40	.40	
4.1.3.4	IFTT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤ 2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	.07	
		PDI-863-2	≤ 2.0 & > 0' in. wc	.29	.29	.29	.29	.29	.29	.29	.29	

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

(Page 4 of 4)

			Date:	9/22/14	9/23/14	9/24/14	9/25/14	9/26/14	9/27/14	9/28/14
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	BA	gr	gr	gr	gr	gr	gr
SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0' in. wc	.15	.14	.14	.14	.14	.14	.14
		PDI-857-2	≤ 2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.49	
	4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0' in. wc	.04	.06	.06	.06	.06	.06
PDI-856-2			≤ 2.0 & > 0' in. wc	.50	.50	.51	.51	.50	.51	
NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0950	0902	0920	0906	0900	0740	0906
			OC Operator Review and Page Count Complete (initials)	gr	gr	gr	gr	gr	gr	gr

## Non TSR requirement

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

Completed by: gr Date: 9/28/14 Time: 0920 Reviewed by: gr Date: 9/30/14 Time: 0930

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.:	042253	V-701 Thermistor File No.:	039744
	Calibration Expiration Date:	6-17-15	Calibration Expiration Date:	6-26-15	Calibration Expiration Date:	6-26-15
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:	040375
	Calibration Expiration Date:	6-17-15	Calibration Expiration Date:	6-26-15	Calibration Expiration Date:	6-26-15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature												
Daily (September through April only)		Date:	9-22-14	9-23-14	9-24-14	9-25-14	9-26-14	9-27-14	9-28-14			
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
		Initials:	WJ	BF	BF	BF	JK	JK	BC			
SR	Description	Acceptance Criteria	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.	66.8	66.74	66.71	66.92	66.7	66.7	66.3			
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	68.9	68.39	68.46	68.72	68.6	68.7	68.2			
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	70.0	69.07	70.36	71.58	69.8	71.0	67.9			
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	69.7	68.29	69.47	70.95	69.2	68.6	65.4			
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	1000	0851	0850	0805	0832	0937	1008			
		Completion Time:										
		OC Operator Review and Page Count Complete (initials)	BC	JK	JK	JK	JK	JK	JK	JK	JK	JK

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 09-28-14 Time 1008

Reviewed by: [Signature] Date 9/30/14 Time: 0630

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:	9-29-14		9/30/14													
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
			Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:	D K		B B										
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc <sup>1</sup>	-1.90	-1.76	-1.56	-1.77										
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc <sup>1</sup>	-1.91	-1.72	-1.52	-1.92										
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc <sup>1</sup>	-1.98	-1.91	-1.88	-1.99										
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc <sup>1</sup>	-1.98	-1.97	-1.97	-1.98										
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc <sup>1</sup>	-1.19	-1.19	-1.20	-1.20										
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc <sup>1</sup>	-1.22	-1.23	-1.23	-1.24										
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc <sup>1</sup>	-1.21	-1.21	-1.22	-1.22										
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc <sup>1</sup>	-1.21	-1.20	-1.21	-1.21										
4.1.1.3 4.1.2.3 <sup>2</sup>	IFT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	-1.19	-1.19	-1.19	-1.19										
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-1.10	-1.09	-1.09	-1.10										
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-1.10	-1.09	-1.09	-1.10										
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	-1.10	-1.09	-1.09	-1.11										

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

(Page 2 of 3)

Note		Date:	9-29-14 9/30/14													
Readings should be taken using FCS screens		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
FMT#151, 152, 201LD and 202LD. Field verification and local plenum PDI's may be used if FCS is unavailable.		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	K		K											
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		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050	At least one fan/plenum is in service		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050	At least one fan/plenum is in service		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	400 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	At least one fan/plenum is in service		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat

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

(Page 3 of 3)

Note		Date:	9/29/14		9/30/14													
		Weekday:	Mon		Tue		Wed		Thu		Fri		Sat		Sun			
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
		Initials:	IL		IL													
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	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	
			PDI-804-2	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		
		100 Area	PDI-802-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-802-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
			PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		300 Area	PDI-870-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
			PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-854-2	Unsat	Unsat	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	Sat	Sat	Sat		
	PDI-852-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
	PDI-852-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
		Completion Time		0730	1405	2120	1424											

Note: Mode 2 acceptance criteria is &lt; 0.00 in. wc

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

Completed by: PLC Date: 9/30/14 Time: 1924Reviewed by: [Signature] Date: 10/1/14 Time: 0630

Comments:

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

(Page 1 of 4)

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

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

		Date:	9-29-14	9-30-14					
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	PT					
SR 4.4.1.1	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
	Flammable Gas Channel Check	NA	0.0	0.0					
	DET-305-3 (LCD Reading)		0.0	0.0					
	CP-305-H (LED Reading)		0.0	0.0					
	(DET-305-3) - (CP-305H)	Record Calculated Value	0.0	0.0					
	(LCD Reading) (LED Reading)	$\geq -0.1$ ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
	Completion Time:		0730	0752					



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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)												
				Date:												
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.					
			Initials:	PT	PT											
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & > 0' in. wc	.07		.07										
		PDI-894-2	≤2.0 & > 0' in. wc	.51		.51										
		PDI-895-1	≤2.0 & > 0' in. wc	.10		.10										
		PDI-895-2	≤2.0 & > 0' in. wc	.62		.62										
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤2.0 & > 0' in. wc	STBY		STBY										
		PDI-817-2	≤2.0 & > 0' in. wc	STBY		STBY										
		PDI-817-4	≤2.0 & > 0' in. wc	STBY		STBY										
		PDI-817-5	≤2.0 & > 0' in. wc	STBY		STBY										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤2.0 & > 0' in. wc	STBY		STBY										
		PDI-819-3	≤2.0 & > 0' in. wc	STBY		STBY										
		PDI-819-4	≤2.0 & > 0' in. wc	STBY		STBY										
		PDI-818-1	≤2.0 & > 0' in. wc	.24		.24										
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤2.0 & > 0' in. wc	.30		.30										
		PDI-818-4	≤2.0 & > 0' in. wc	.30		.30										
		PDI-818-5	≤2.0 & > 0' in. wc	.28		.28										
		PDI-821-1	≤2.0 & > 0' in. wc	.39		.39										
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	≤2.0 & > 0' in. wc	.41		.41										
		PDI-821-4	≤2.0 & > 0' in. wc	.39		.39										

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Weekday:	Initials:					
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	7-29-14	PT	93014				
		PDI-822-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.69	.70			
		PDI-822-4	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.50	.50			
		PDI-822-5	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.41	.41			
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.42	.42			
		PDI-823-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			STBY	STBY			
		PDI-823-4	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			STBY	STBY			
		PDI-823-5	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			STBY	STBY			
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.64	.64			
		PDI-830-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.30	.30			
		PDI-830-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.28	.28			
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-836-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.97	.97			
		PDI-836-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.59	.59			
		PDI-836-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.58	.58			
		PDI-837-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.50	.50			
4.1.1.7	300 area re-circulation filter plenum (IIVP-806) AP	PDI-837-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.41	.41			
		PDI-837-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$			.39	.39			

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

(Page 4 of 4)

				Date:	9-29-14	9-30-14						
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sum.	
				Initials:	PT	PT						
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
4.1.1.7	400 area re-circulation filter plenum ( HVP-807) AP	PDI-838-1	$\leq 2.0 \ \& \ > 0^1$ in. wc	.31	.31							
		PDI-838-2	$\leq 2.0 \ \& \ > 0^1$ in. wc	.40	.40							
		PDI-838-3	$\leq 2.0 \ \& \ > 0^1$ in. wc	.39	.39							
	400 area re-circulation filter plenum ( HVP-808) AP	PDI-839-1	$\leq 2.0 \ \& \ > 0^1$ in. wc	.31	.31							
		PDI-839-2	$\leq 2.0 \ \& \ > 0^1$ in. wc	.48	.48							
		PDI-839-3	$\leq 2.0 \ \& \ > 0^1$ in. wc	.42	.42							
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	PDI-810-1	$\leq 2.0 \ \& \ > 0^1$ in. wc	.13	.17							
		PDI-810-2	$\leq 2.0 \ \& \ > 0^1$ in. wc	.49	.50							
		PDI-810-3	$\leq 2.0 \ \& \ > 0^1$ in. wc	.48	.49							
4.1.3.4	South Bleed off filter plenum ( FF-822B) AP	PDI -811 - 1	$\leq 2.0 \ \& \ > 0^1$ in. wc	OFF	OFF							
		PDI -811 -2	$\leq 2.0 \ \& \ > 0^1$ in. wc	OFF	OFF							
		PDI -811 -3	$\leq 2.0 \ \& \ > 0^1$ in. wc	OFF	OFF							
			Completion Time	0814	0827							
OC Operator Review and Page Count Complete (initials)				000	0	040						

Non TSR requirement:

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

Completed by: Paul Trevillo Date: 9/30/14 Time: 0827 Reviewed by: BBP Date: 9/30/14 Time: 1038

On-duty Supervisor

Comments

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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date: 7-29-14 7-30-14							SURVEILLANCE RESULTS (in. wc)						
				Weekday:			Initials:										
											Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
											PT	PT					
4.1.3.7	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					
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc							.45	.45	.45					
		PDI-841-2	≤2.0 & > 0' in. wc							.58	.58	.58					
		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							.40	.40	.40					
		PDI-831-3	≤2.0 & > 0' in. wc							.38	.38	.38					
4.1.3.4	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc							.31	.31	.31					
		PDI-832-2	≤2.0 & > 0' in. wc							.60	.60	.60					
		PDI-832-3	≤2.0 & > 0' in. wc							.55	.55	.55					
	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc							OFF	OFF	OFF					
		PDI-807-2	≤2.0 & > 0' in. wc							OFF	OFF	OFF					
		PDI-807-3	≤2.0 & > 0' in. wc							OFF	OFF	OFF					
	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc							.06	.07	.07					
		PDI-809-2	≤2.0 & > 0' in. wc							.49	.49	.49					
		PDI-809-3	≤2.0 & > 0' in. wc							.42	.42	.42					



(Page 2 of 4)

[illegible]

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

(Page 3 of 4)

SRs	Description	Gauge	Date:	9-29-14	9-30-14	Wed.	Thu.	Fri.	Sat.	Sun.
			Weekday:	Mon.	Tue.					
			Initials:	PT	PT					
			Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY					
		PDI-812-2	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY					
		PDI-812-3	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY					
		PDI-812-4	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY					
		PDI-812-5	≤2.0 & > 0 <sup>1</sup> in. wc	STBY	STBY					
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0 <sup>1</sup> in. wc	.78	.79					
		PDI-813-2	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31					
		PDI-813-3	≤2.0 & > 0 <sup>1</sup> in. wc	.30	.30					
		PDI-813-4	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31					
		PDI-813-5	≤2.0 & > 0 <sup>1</sup> in. wc	.27	.29					
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 <sup>1</sup> in. wc	.04	.04					
		PDI-865-2	≤2.0 & > 0 <sup>1</sup> in. wc	.32	.32					
		PDI-865-3	≤2.0 & > 0 <sup>1</sup> in. wc	.40	.40					
4.1.3.4	IFT supply filter plenum (IVP-863) ΔP	PDI-863-1	≤2.0 & > 0 <sup>1</sup> in. wc	.07	.07					
		PDI-863-2	≤2.0 & > 0 <sup>1</sup> in. wc	.29	.29					

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	$\leq 2.0$ & $> 0^1$ in. wc	9-29-14	PT	9-30-14						
		PDI-857-2	$\leq 2.0$ & $> 0^1$ in. wc			.12						
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1	$\leq 2.0$ & $> 0^1$ in. wc			.50						
		PDI-856-2	$\leq 2.0$ & $> 0^1$ in. wc			.06						
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)			.50						
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less			SAT SAT						
Completion time						SAT						
OC Operator Review and Page Count Complete (initials)				0812	0817	0800						
Non TSR requirement												

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

Completed by: Paul Trujillo Date 9-30-14 Time 0817

Reviewed by: [Signature] Date: 9/30/14 Time: 1036

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:	6/17/15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:
	V-701 Thermistor File No.:	042253	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:
	V-704 Thermistor File No.:	040373	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
Daily (September through April only)		Date:	9.29.14	9.30.14							
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
		Initials:	BF	BF							
SR	Description	Acceptance Criteria									
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.									
4.3.1.1'	RECORD fire water storage tank V-701 temperature	SAT/UNSAT 65.66 64.41									
4.3.1.1'	RECORD fire water storage tank V-704 temperature	SAT/UNSAT 67.55 66.25									
4.3.1.3'	RECORD PF-10 room temperature	SAT/UNSAT 67.29 62.75									
4.3.1.3'	RECORD PF-11 room temperature	SAT/UNSAT 65.54 65.68									
		Completion Time:	0830 0845								
		OC Operator Review and Page Count Complete (initials)	200 P 080 P								

Temperatures should be recorded using Reference Thermometer FLUKE Model 1554 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: B. FORDHAM Date: 9.30.2014 Time: 0845

Reviewed by: BB.S Date: 9/30/14 Time: 1040

On-duty Supervisor

Comments:



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

(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat. / <input type="radio"/> Unsat.	0936	9/23/14	RL
4.1.3.2	Confinement Door DR-344	Southeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat. / <input type="radio"/> Unsat.	0936	9/23/14	RL
4.1.3.2	Confinement Door DR-149	Northeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat. / <input type="radio"/> Unsat.	0925	9/23/14	RL
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat. / <input type="radio"/> Unsat.	12:38	9/23/14	RL
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.	<input checked="" type="radio"/> Sat. / <input type="radio"/> Unsat.	12:35	9/23/14	RL
			4.4 _____ Seconds	<input checked="" type="radio"/> Sat. / <input type="radio"/> Unsat.	12:38	9/23/14	RL

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OF Order 420.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANI, Building TA55-4 (PF-4); Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANI-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 $\leq 30$ seconds.  6.8 Seconds	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	13:09	9/23/14	ZH
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.	13:09	9/23/14	ZH
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.	12:00	9/23/14	ZH
					14:20	9/23/14	ZH
OC Operator Review and Page Count Complete							

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: [Signature] Date: 9/23/14 Time: 14:51 Reviewed by: [Signature] Date: 9/23/14 Time: 1446

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

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

Completed by: John Smeltz Date 9/1/14 Time 0649

Reviewed by: [Signature] Date 9/1/14 Time 0700  
On-duty Supervisor

Comments:

**Attachment B, Surveillance Training Checklist**

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004 R 17
Date of issue:	10-1-14
Working copy issued to:	PRIN
Working copy issued by:	R PRICE
	Certified Operations Center Operator

**Operations Center Operator Review**

Signature

Date

Required Reading for this Surveillance has been completed.

**Training Checklist**

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R BRISCOE	u	10/1/14
B CHANCE	u	10/1/14
D DUVALNY	u	10/1/14
A DUNSEITH	u	10/1/14
J LOVATO	u	10/1/14
R LUM	u	10/1/14
A ORTIZ	u	10/1/14
F SEYBERT	u	10/1/14
J SHELTER	u	10/1/14
J MARTINEZ	u	10/1/14

Comments:




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

## 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:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Weekday:													
		Shift:		AM		PM		AM		PM		AM		PM	
		Initials:													
SRs	Description	SURVEILLANCE RESULTS (in. wc)													
		Gauge Acceptance Criteria													
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc <sup>1</sup>												
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc <sup>1</sup>												
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc <sup>1</sup>												
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc <sup>1</sup>												
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc <sup>1</sup>												
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc <sup>1</sup>												
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc <sup>1</sup>												
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc <sup>1</sup>												
4.1.1.3 4.1.2.3 <sup>2</sup>	IFT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc												
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc												
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc												
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc												

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

(Page 2 of 3)

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.	SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)															
					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:																				
4.1.1.6	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				
			Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	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	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
			Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 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	Sat			
			Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
		FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
	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	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	

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

(Page 3 of 3)

Note		Date:	Tue		Wed		Thu		Fri		Sat		Sun		
Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.		Weekday:	Mon	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		Initials:													
SRs	Description	Area	Gauge	Acceptance Criteria		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-814-2 < PDI-803-2 < PDI-804-2		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	
		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	
		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	
		Completion Time													

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2 x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: Wh-paces Date 10/5/14 Time 1725Reviewed by: [Signature]

On-duty Supervisor

Date: 10/6/14 Time: 1600

Comments:



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

(Page 1 of 4)

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

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

		Date:											
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
		Initials:			PT	GR	RT						
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)										
SR  4.4.1.1	Description / Gauge	NA											
	Flammable Gas Channel Check												
	DET-305-3 (LCD Reading)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)				0.0	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	0.0	0.0
		$\geq -0.1$ ; $\leq +0.1$			Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:			0739	0750	0740	0806	0759				

## 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.
				Weekday:	Initials:					
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	10-1-14			10-2-14	10-2-14	10-3-14	10-4-14
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc	Wed.			10-2-14	10-2-14	10-3-14	10-5-14
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc				PT	PT	PT	PT
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc				PT	PT	PT	PT
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc				.07	.07	.08	.08
		PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc				.51	.51	.51	.51
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc				.09	.08	.08	.10
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc				.62	.63	.64	.65
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc				STRY	STRY	STRY	STRY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc				STRY	STRY	STRY	STRY
		PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc				STRY	STRY	STRY	STRY
		PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc				STRY	STRY	STRY	STRY
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc				STRY	STRY	STRY	STRY
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc				STRY	STRY	STRY	STRY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc				.24	.24	.24	.24
		PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc				.30	.30	.30	.30
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc				.30	.31	.30	.30
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc				.28	.28	.28	.28
		PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc				.39	.39	.40	.39
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc				.42	.42	.43	.42
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc				.39	.39	.39	.39

(Page 3 of 4)

July - December 2014

SRs		Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:	Initials:						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0 <sup>1</sup> in. wc				.69	.69	.70	.70	.70	
		PDI-822-2	≤2.0 & > 0 <sup>1</sup> in. wc				.50	.50	.50	.50	.50	.50
		PDI-822-4	≤2.0 & > 0 <sup>1</sup> in. wc				.41	.41	.40	.41	.41	.41
		PDI-822-5	≤2.0 & > 0 <sup>1</sup> in. wc				.42	.43	.42	.42	.42	.42
		'PDI-823-1	≤2.0 & > 0 <sup>1</sup> in. wc				STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0 <sup>1</sup> in. wc				STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0 <sup>1</sup> in. wc				STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0 <sup>1</sup> in. wc				STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-830-1	≤2.0 & > 0 <sup>1</sup> in. wc				.64	.63	.65	.64	.64	.64
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0 <sup>1</sup> in. wc				.30	.30	.30	.30	.30	.30
		PDI-830-3	≤2.0 & > 0 <sup>1</sup> in. wc				.28	.28	.28	.28	.28	.28
		'PDI-836-1	≤2.0 & > 0 <sup>1</sup> in. wc				.97	.97	.97	.97	.97	.97
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-836-2	≤2.0 & > 0 <sup>1</sup> in. wc				.59	.57	.59	.58	.59	.59
		PDI-836-3	≤2.0 & > 0 <sup>1</sup> in. wc				.57	.56	.57	.58	.58	.58
		'PDI-837-1	≤2.0 & > 0 <sup>1</sup> in. wc				.50	.50	.50	.50	.50	.50
		PDI-837-2	≤2.0 & > 0 <sup>1</sup> in. wc				.41	.41	.40	.41	.41	.41
		PDI-837-3	≤2.0 & > 0 <sup>1</sup> in. wc				.39	.39	.39	.39	.39	.39

(Page 4 of 4)

July - December 2014  
TA-55-PF4 HEPA Filtration Differential Pressure Readings

			Date:				10-1-14	10/2/14	10/3/14	10-4-14	10-5-14
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:			PT	JN	RA	PT	PT	
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
4.1.1.7	400 area re-circulation filter plenum ( HVP-807) AP	'PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc			.31	.31	.31	.31	.31	
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc			.41	.41	.40	.41	.41	
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc			.39	.39	.39	.39	.39	
	400 area re-circulation filter plenum ( HVP-808) AP	'PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc			.31	.31	.31	.31	.31	
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc			.48	.48	.47	.48	.48	
		PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc			.42	.42	.42	.42	.42	
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	'PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc			.17	.17	.17	.17	.17	
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc			.50	.50	.50	.50	.50	
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc			.49	.49	.50	.49	.49	
4.1.3.4	South Bleed off filter plenum ( FF-822B) AP	'PDI-811-1	≤2.0 & > 0 <sup>1</sup> in. wc			OFF	OFF	OFF	OFF	OFF	
		PDI-811-2	≤2.0 & > 0 <sup>1</sup> in. wc			OFF	OFF	OFF	OFF	OFF	
		PDI-811-3	≤2.0 & > 0 <sup>1</sup> in. wc			OFF	OFF	OFF	OFF	OFF	
			Completion Time								
OC Operator Review and Page Count Complete (initials)											

**Non-TSR requirement:**

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

Completed by: Paul Trujillo Date: 10-5-18 Time: 0745  
Reviewed by: [Signature] Date: 10/6/18 Time: 1100  
On-duty Supervisor

## Comments



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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:	SURVEILLANCE RESULTS (in. wc)						
					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 <sup>1</sup> in. wc				10-1-14 PT	10-2-14 PT	10-3-14 BL	10-4-14 PT	10-5-14 Sun.
		PDI-840-2	≤2.0 & > 0 <sup>1</sup> in. wc				STBY	STBY	.17	.16	.16
		PDI-840-3	≤2.0 & > 0 <sup>1</sup> in. wc				STBY	STBY	.57	.58	.58
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0 <sup>1</sup> in. wc				STBY	STBY	.50	.50	.50
		PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc				.45	.45	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0 <sup>1</sup> in. wc				.58	.58	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0 <sup>1</sup> in. wc				.51	.51	STBY	STBY	STBY
		PDI-831-2	≤2.0 & > 0 <sup>1</sup> in. wc				.33	.33	.33	.33	.33
		PDI-831-3	≤2.0 & > 0 <sup>1</sup> in. wc				.40	.40	.40	.40	.40
	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0 <sup>1</sup> in. wc				.37	.37	.37	.37	.37
		PDI-832-2	≤2.0 & > 0 <sup>1</sup> in. wc				.31	.31	.31	.31	.31
		PDI-832-3	≤2.0 & > 0 <sup>1</sup> in. wc				.60	.60	.60	.60	.60
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0 <sup>1</sup> in. wc				.55	.55	.55	.55	.55
		PDI-807-2	≤2.0 & > 0 <sup>1</sup> in. wc				OFF	OFF	OFF	OFF	OFF
		PDI-807-3	≤2.0 & > 0 <sup>1</sup> in. wc				OFF	OFF	OFF	OFF	OFF
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0 <sup>1</sup> in. wc				.07	.07	.07	.07	.07
		PDI-809-2	≤2.0 & > 0 <sup>1</sup> in. wc				.50	.50	.50	.50	.50
		PDI-809-3	≤2.0 & > 0 <sup>1</sup> in. wc				.42	.42	.42	.42	.42

(Page 2 of 4)

July - December 2014

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Initials:									
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			

(Page 3 of 4)

July - December 2014

[illegible]

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS						
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
					Weekday:						
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc					10-1-14	10-2-14	10-3-14	10-4-14
		PDI-857-2	≤ 2.0 & > 0' in. wc								10-5-14
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc						PT	PT	
		PDI-856-2	≤ 2.0 & > 0' in. wc								PT
NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less								
OC Operator Review and Page Count Complete (initials)					Completion time						
Non TSR requirement											
Note: SR 4.1.3.4 applies during mode 1 and mode 2.											
Completed by: Paul Trujillo					Date: 10-5-14	Time: 0807	Reviewed by:				
Comments:											

Date: 10/14/14 Time: 1620

On-duty Supervisor

1154 10/1/14 Rm 206 3.3.2 entry of comb in part of 68270 resolved. C. Trujillo

4.3.2.2 10/3/14 Rm 204, 206 Step Ladder inside Non Combustible Storage Area. PT

4.3.2.2 10/3/14 Rm 204, 206 Non Combustible Storage Areas cleared of all combustibles. PT



## 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.:	042253	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
Daily (September through April only)		Date:									
		Weekday:									
		Initials:									
SR	Description	Acceptance Criteria	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									
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)											

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

Completed by: David Dwyer Date: 10/5/14 Time: 1008

Reviewed by: [Signature] Date: 10/10/14 Time: 1600

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:	10-06-14		10-07-14		10-08-14		10-09-14		10-10-14		10-11-14		10-12-14	
		Mon.		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 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc'	-1.95	-1.96	-1.97	-1.98	-1.99	-1.99	-1.99	-1.99	-1.98	-1.94	-1.95	-1.98
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc'	-1.92	-1.92	-1.93	-1.93	-1.93	-1.93	-1.92	-1.93	-1.93	-1.93	-1.93	-1.92
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc'	-1.98	-1.98	-1.98	-1.98	-1.99	-1.99	-1.98	-1.98	-1.99	-1.99	-1.98	-1.98
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc'	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc'	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc'	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc'	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc'	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	-1.09	-1.10	-1.10	-1.10	-1.10	-1.10	-1.07	-1.05	-1.05	-1.05	-1.05	-1.05

## 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 PDTs may be used if FCS is unavailable.	Date:	10-06-14		10-07-14		10-08-14		10-09-14		10-10-14		10-11-14		10-12-14	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Initials:		BCZD BCZD														

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

(Page 3 of 3)

Note		Date:	10-06-14		10-07-14		10-08-14		10-09-14		10-10-14		10-11-14		10-12-14		
Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		Shift:	AM PM		AM PM		AM PM		AM PM		AM PM		AM PM		AM PM		
		Initials:	BC		BC		BC		a		BC		BC		BC		
SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS												
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's for basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2 PDI-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		0726		1922		0723		1917		0724		1922		0720	

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2 x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: [Signature] Date: 10/12/14 Time: 1921Reviewed by: [Signature] Date: 10/15/14 Time: 0638

On-duty Supervisor

Comments:



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

(Page 1 of 4)

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

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

SR	Description / Gauge	Date:	10/6/14	10/7/14	10/8/14	10/9/14	10-10-14	10/11/14	10/12/14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	for	for	for	for	for	for	for
		SURVEILLANCE RESULTS (percentage)							
4.4.1.1	Flammable Gas Channel Check	Acceptance Criteria	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	0.0
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
		Completion Time:	0825	0910	0755	0929	0803	0817	0915

## 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:	10/6/14	10/7/14	10/8/14	10/9/14	10/10/14	10/11/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:		gvr	RH	gvr	RH	PT	mwr
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc		.07	.08	.07	.07	.07	.07
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc		.55	.52	.52	.50	.50	.50
		PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc		.11	.11	.11	.10	.10	.10
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc		.65	.64	.65	.66	.66	.66
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc		.24	.24	.24	.24	.24	.24
		PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc		.30	.30	.30	.30	.30	.30
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc		.31	.36	.31	.30	.30	.30
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc		.27	.28	.28	.28	.28	.28
		PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc		.40	.40	.40	.40	.40	.40
		PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc		.42	.43	.42	.42	.42	.42
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc		.38	.39	.38	.39	.39	.39

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	10/6/14	10/7/14	10/8/14	10/9/14	10/10/14	10/11/14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:		gm	BH	gm	BT	BT	mm
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc		.70	.70	.70	.70	.71	.70
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc		.49	.49	.49	.49	.50	.49
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc		.41	.41	.41	.40	.41	.40
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc		.43	.42	.42	.43	.42	.42
		PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	STBY
		PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc		.64	.65	.64	.65	.64	.65
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc		.30	.30	.30	.30	.30	.30
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc		.29	.29	.28	.29	.28	.28
		PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc		.97	.97	.97	.97	.97	.97
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc		.57	.58	.58	.58	.59	.57
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc		.56	.56	.56	.56	.57	.57
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc		.50	.50	.50	.50	.50	.50
		PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc		.40	.40	.41	.40	.41	.41
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc		.39	.38	.38	.38	.38	.36

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)										
				Date:										
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
Initials:														
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-838-3	$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	$\leq 2.0$ & $> 0^1$ in. wc	.45	.46	.47	.47	.47	.47	.47	.47	.47	.47	.47
		PDI-839-3	$\leq 2.0$ & $> 0^1$ in. wc	.43	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	$\leq 2.0$ & $> 0^1$ in. wc	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	
		PDI-810-2	$\leq 2.0$ & $> 0^1$ in. wc	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	
		PDI-810-3	$\leq 2.0$ & $> 0^1$ in. wc	.48	.49	.49	.49	.49	.49	.49	.49	.49	.49	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-811-2	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-811-3	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
Completion Time				0905	0945	0830	0924	0850	0840	0838	0838			
OC Operator Review and Page Count Complete (initials)				for BL	for BL	for BL	for BL	for BL	for BL	for BL	for BL	for BL	for BL	

'Non TSR requirement:

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

Completed by: Michael M. Tash Date: 10/10/14 Time: 0938 Reviewed by: [Signature]Date: 10/10/14 Time: 0638

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:	Date:							Surveillance Results (in. wc)		
					Weekday:									
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
					10/6/14	10/7/14	10/8/14	10/9/14	10-10-14	10/11/14	10/12/14			
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
					qn	qn	qn	24	PT	mon	mon			
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0 <sup>1</sup> in. wc		.16	.16	.16	.16	.16	.16	.16			
		PDI-840-2	≤2.0 & > 0 <sup>1</sup> in. wc		.55	.56	.56	.57	.57	.57	.57			
		PDI-840-3	≤2.0 & > 0 <sup>1</sup> in. wc		.49	.50	.50	.50	.50	.50	.50			
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0 <sup>1</sup> in. wc		.50	.50	.50	.50	.50	.50	.50			
		PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc		.50	.50	.50	.50	.50	.50	.50			
		PDI-841-3	≤2.0 & > 0 <sup>1</sup> in. wc		.50	.50	.50	.50	.50	.50	.50			
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0 <sup>1</sup> in. wc		.33	.33	.33	.33	.33	.33	.33			
		PDI-831-2	≤2.0 & > 0 <sup>1</sup> in. wc		.40	.40	.40	.40	.40	.40	.40			
		PDI-831-3	≤2.0 & > 0 <sup>1</sup> in. wc		.37	.37	.37	.37	.37	.37	.37			
	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0 <sup>1</sup> in. wc		.31	.31	.31	.31	.31	.31	.31			
		PDI-832-2	≤2.0 & > 0 <sup>1</sup> in. wc		.60	.60	.60	.60	.60	.60	.60			
		PDI-832-3	≤2.0 & > 0 <sup>1</sup> in. wc		.55	.55	.55	.55	.55	.55	.55			
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0 <sup>1</sup> in. wc		off	off	off	off	off	off	off			
		PDI-807-2	≤2.0 & > 0 <sup>1</sup> in. wc		off	off	off	off	off	off	off			
		PDI-807-3	≤2.0 & > 0 <sup>1</sup> in. wc		off	off	off	off	off	off	off			
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0 <sup>1</sup> in. wc		.07	.07	.07	.07	.07	.07	.07			
		PDI-809-2	≤2.0 & > 0 <sup>1</sup> in. wc		.49	.49	.49	.50	.50	.50	.50			
		PDI-809-3	≤2.0 & > 0 <sup>1</sup> in. wc		.42	.42	.42	.42	.42	.42	.42			

(Page 2 of 4)

[illegible]

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

(Page 3 of 4)

SRs	Description	Gauge	Date:							SURVEILLANCE RESULTS						
			Weekday:							(in. wc)						
			Initials:							Acceptance Criteria						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	10/6/14	10/7/14	10/8/14	10/9/14	10/10/14	10/11/14	10/12/14	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	10/6/14	10/7/14	10/8/14	10/9/14	10/10/14	10/11/14	10/12/14	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	10/6/14	10/7/14	10/8/14	10/9/14	10/10/14	10/11/14	10/12/14	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-865-2	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-865-3	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFTT supply filter plenum (IIVP-863) ΔP	PDI-863-1	10/6/14	10/7/14	10/8/14	10/9/14	10/10/14	10/11/14	10/12/14	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-863-2	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:						
				Weekday:						
				Initials:						
				10/6/14	10/6/14	10/8/14	10/9/14	10-10-14	10/11/14	10/12/14
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:						
				Acceptance Criteria						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	.17	.15	.15	.15	.15	.15	.15
		PDI-857-2	≤ 2.0 & > 0' in. wc	.49	.49	.50	.30	.49	.49	.49
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07
		PDI-856-2	≤ 2.0 & > 0' in. wc	.51	.51	.51	.50	.50	.50	.50
NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
				0850	0940	0815	0929	0855	0859	0945
				gob	PC	gob	gob	gob	gob	gob
				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: Michael D. Jubb Date: 10/12/14 Time: 0945 Reviewed by: [Signature]Date: 10/15/14 Time: 0638

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.:	042253	V-701 Thermistor File No.:	039744
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:	6/26/15
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:	040375
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:	6/26/15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
Daily (September through April only)											
SR	Description	Acceptance Criteria	Date: 10-6-14 10-7-14 10-8-14 10-9-14 10-10-14 10-11-14 10-12-14								
			Weekday: Mon. Tue. Wed. Thu. Fri. Sat. Sun.								
			Initials: BF BF BF BF BF BF BF BF BF BF BF								
			Calibration dates have not elapsed.								
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	61.39	61.39	61.4	61.84	60.86	59.5	58.8		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	63.80	63.88	63.9	63.45	62.25	60.6	60.2		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	66.10	70.50	67.2	65.63	62.03	59.1	60.5		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	65.13	65.48	66.1	65.75	60.77	59.1	59.0		
Completion Time:			0800	0847	0832	0824	0830	1027	0847		
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: [Signature] Date: 10-12-14 Time: 0847

Reviewed by: [Signature] Date: 10-16-14 Time: 0638

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:	10/13/14		10/14/14		10/15/14		10/16/14		10/17/14		10/18/14	
	Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.	
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Initials:	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc	-1.94	-1.98	-1.94	-1.96	-1.94	-1.91	-1.94	-1.93	-1.96	-1.93
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc	-1.92	-1.93	-1.92	-1.93	-1.93	-1.93	-1.92	-1.92	-1.92	-1.92
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc	-1.98	-1.98	-1.98	-1.98	-1.99	-1.97	-1.98	-1.98	-1.98	-1.99
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc	-1.98	-1.98	-1.98	-1.98	-1.97	-1.97	-1.98	-1.97	-1.96	-1.98
	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2
	IFTT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2

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

(Page 2 of 3)

Note		Date:	10/13/14		10/14/14		10/15/14		10/16/14		10/17/14		10/18/14		10/19/14		
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:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
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	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 AP > .050 or FR-804 Icon red and PDT-835 AP > .050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 AP > .050 or FR-806 Icon red and PDT-837 AP > .050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	400 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 AP > .050 or FR-808 Icon red and PDT-839 AP > .050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat
	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat

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

(Page 3 of 3)

Note		Date:	10/13/14		10/14/14		10/15/14		10/16/14		10/17/14		10/18/14		10/19/14		
Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		Initials:	[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		
SRs	Description	Area	Gauge	Acceptance Criteria	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-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		0730	1408	0728	1925	0731	1207	1934	0740	1927	0732	1927	0730	1421	

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

Completed by: PP-CC Date 10/19/14 Time 1921

Reviewed by: [Signature] Date: 10/29/14 Time: 1515

On-duty Supervisor

Comments:



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

(Page 1 of 4)

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

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

SR	Description / Gauge	Date:	10/13/14	10/14/14	10-15-14	10-16-14	10-17-14	10/18/14	10/19/14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	JA	HA	mm	PT	PT	JA	JA
		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)	$\geq -0.1$ ; $\leq +0.1$	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.	Sat/ Unsat.
	Completion Time:	0845	0115	0740	0753	0756	0816	0820	

(Page 2 of 4)

July - December 2014

SRs	Description	Gauge	Acceptance Criteria	Date:	10/13/14	10/14/14	10-15-14	10-16-14	10-17-14	10-18/14	10-19-14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	JW	HGA	nm	PT	PT		
				SURVEILLANCE RESULTS (in. wc)							
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	≤2.0 & > 0' in. wc	.06	.06	.06	.07	.07	.07	.07	.07
	PDI-894-2	≤2.0 & > 0' in. wc	.50	.50	.50	.51	.51	.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	.65	.65	.65	.65	.66	.65	.65	.65	
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	'PDI-818-1	≤2.0 & > 0' in. wc	.24	.24	.25	.24	.24	.24	.24	.24
		PDI-818-2	≤2.0 & > 0' in. wc	.30	.30	.31	.30	.30	.30	.30	.30
		PDI-818-4	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-818-5	≤2.0 & > 0' in. wc	.22	.27	.27	.27	.27	.28	.28	.28
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & > 0' in. wc	.40	.40	.39	.39	.39	.40	.40	.40
		PDI-821-3	≤2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42	.42
		PDI-821-4	≤2.0 & > 0' in. wc	.38	.38	.38	.39	.39	.39	.39	.39

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Weekday:	Initials:					
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc	10/13/14	10/14/14	10-15-14	10-16-14	10-17-14	10/18/14	10-19-14
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				g	HB	nm	PT	PT	DBD	D
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc							

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

(Page 4 of 4)

			Date:	10/13/14	10/14/14	10-15-14	10-16-14	10-17-14	10/18/14	10-19-14
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	gpc	HA	nm	PT	PT	0800	0
			Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
SRs	Description	Gauge								
4.1.1.7	400 area re-circulation filter plenum ( HVP-807) AP	'PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc	.40	.40	.41	.41	.41	.40	.40
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc	.39	.37	.38	.39	.39	.40	.40
	400 area re-circulation filter plenum ( HVP-808) AP	'PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc	.46	.46	.47	.48	.48	.48	.48
		PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc	.44	.42	.42	.42	.42	.45	.45
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	'PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc	.17	.17	.17	.17	.17	.16	.16
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc	.50	.50	.49	.49	.49	.48	.48
4.1.3.4	South Bleed off filter plenum ( FF-822B) AP	'PDI-811-1	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			Completion Time	0820	0810	0832	0832	0851	0830	0800
OC Operator Review and Page Count Complete (initials)			gpc	nm	HA	nm	PT	PT	0800	0

Non TSR requirement:

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

Completed by: AL Date 10-19-14 Time 0845 Reviewed by: AL Date 10/20/14 Time 0850

Comments



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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:							SURVEILLANCE RESULTS (in. wc)							
					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				.16	.16	.16	.16	.16								
		PDI-840-2	≤2.0 & > 0' in. wc				.56	.56	.56	.56	.56								
		PDI-840-3	≤2.0 & > 0' in. wc				.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								
		PDI-841-2	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY								
		PDI-841-3	≤2.0 & > 0' in. wc				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								
		PDI-831-2	≤2.0 & > 0' in. wc				.40	.40	.40	.40	.40								
		PDI-831-3	≤2.0 & > 0' in. wc				.36	.36	.37	.37	.37								
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc				.31	.31	.31	.31	.31									
	PDI-832-2	≤2.0 & > 0' in. wc				.60	.60	.59	.60	.60									
	PDI-832-3	≤2.0 & > 0' in. wc				.55	.55	.55	.55	.55									
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc				OFF	OFF	OFF	OFF	OFF								
		PDI-807-2	≤2.0 & > 0' in. wc				OFF	OFF	OFF	OFF	OFF								
		PDI-807-3	≤2.0 & > 0' in. wc				OFF	OFF	OFF	OFF	OFF								
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc				.07	.07	.07	.07	.07								
		PDI-809-2	≤2.0 & > 0' in. wc				.50	.50	.50	.50	.50								
		PDI-809-3	≤2.0 & > 0' in. wc				.42	.42	.43	.42	.42								

(Page 2 of 4)

[illegible]

(Page 3 of 4)

July - December 2014

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 <sup>1</sup> in. wc	10/13/14	10/14/14	10/15/14	10/16/14	10/17/14	10/18/14	10/19/14		
		PDI-812-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-812-3	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-812-4	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-812-5	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-813-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-813-3	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-813-4	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-813-5	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-865-2	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-865-3	≤2.0 & > 0 <sup>1</sup> in. wc									
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0 <sup>1</sup> in. wc									
		PDI-863-2	≤2.0 & > 0 <sup>1</sup> in. wc									

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

(Page 4 of 4)

SRs	Description	Gauge	Date:							
			Weekday:							Sun.
			Initials:							
			Acceptance Criteria							
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	10/13/14	10/14/14	10/15/14	10-16-14	10-17-14	10/18/14	
		PDI-857-2	≤ 2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	10/13/14	10/14/14	10/15/14	10-16-14	10-17-14	10/18/14	
		PDI-856-2	≤ 2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	10/13/14	10/14/14	10/15/14	10-16-14	10-17-14	10/18/14	
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	10/13/14	10/14/14	10/15/14	10-16-14	10-17-14	10/18/14	
			Completion time	0846	0856	10:00	0930	0902	0835	
			OC Operator Review and Page Count Complete (initials)	BAO	BAO	BAO	BAO	BAO	BAO	

## Non TSR requirement

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

Completed by: [Signature] Date 10/19/14 Time 0855 Reviewed by: [Signature] Date 10/20/14 Time 1500

On-duty Supervisor

Comments: Test in RM 207 no shielding SAT according to OAS center.480 welding cord in south basement combustible area short metal w/ water performing welding.



## 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.: 042253		V-701 Thermistor File No.: 03744
	Calibration Expiration Date: 6/17/15		Calibration Expiration Date: 6/26/15		Calibration Expiration Date: 6/26/15
	PF-11 Thermometer File No.: 042252		PF-11 Thermistor File No.: 040373		V-704 Thermistor File No.: 040375
	Calibration Expiration Date: 6/17/15		Calibration Expiration Date: 6/26/15		Calibration Expiration Date: 6/26/15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
Daily (September through April only)											
SR	Description	Acceptance Criteria	Date:	10/13/14	10/14/14	10/15/14	10/16/14	10/17/14	10/18/14	10/19/14	
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	DAD	BF	BF	BF	BF	BF	DAD	
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.		SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	57.1	56.86	56.72	57.03	57.33	57.2	56.9		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	58.9	58.22	58.18	58.78	59.40	59.3	59.1		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	57.1	58.11	60.84	63.60	64.46	62.2	60.9		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	58.8	58.58	59.44	62.34	63.71	61.5	59.8		
Completion Time:			1020	0836	0755	0750	0800	0945	0906		
OC Operator Review and Page Count Complete (initials)											
			DAD	DAD	DAD	DAD	DAD	DAD	DAD		

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

Completed by: David Dugan Date: 10/19/14 Time: 0956

Reviewed by: [Signature] Date: 10/20/14 Time: 1330

On-duty Supervisor: \_\_\_\_\_

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

(Page 1 of 3)

[illegible]

(Page 2 of 3)

[illegible]

## 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.		Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Initials:		<div style="display: flex; justify-content: space-between;"> <div> <p>Acceptance Criteria</p> <p>Gauge</p> <p>Area</p> <p>Description</p> <p>SRs</p> </div> <div> <p>4.1.1.4</p> <p>Glovebox exhaust header AP's &lt; laboratory AP's &lt; basement AP's for areas 100, 200, 300 and 400</p> <p>200 Area</p> <p>100 Area</p> <p>300 Area</p> <p>400 Area</p> </div> <div> <p>PDI-814-2 &lt; PDI-803-2 &lt; PDI-804-2</p> <p>PDI-820-2 &lt; PDI-802-2 &lt; PDI-804-2</p> <p>PDI-870-2 &lt; PDI-853-2 &lt; PDI-854-2</p> <p>PDI-864-2 &lt; PDI-852-2 &lt; PDI-854-2</p> </div> <div> <p>Completion Time</p> </div> </div>															
			0733	1936	0721	1921	0726	1909	0734	1921	0727	1921	0724	1920	0721	1921	

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2 x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: Timothy Dancer Date: 10/24/14 Time: 1921 Reviewed by: [Signature] Date: 10/23/14 Time: 0700

On-duty Supervisor

Comments:



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

(Page 1 of 4)

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

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

SR	Description / Gauge	Date:	10-20-14	10-21-14	10-22-14	10-23-14	10-24-14	10-25-14	10-26-14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	DS	PT	Je	PT	dh	PT	PT
4.4.1.1	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
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
		Completion Time:	0740	0758	0740	0758	0746	0805	0800

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

(Page 2 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Weekday:	Initials:					
4.1.3.4	South basement supply filter plenum (IIVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	10-20-14	es	PT	10/22/14	10/23/14	10-24-14	10-25-14
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc							Sun.
4.1.3.4	South Corridor supply (IIVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc							

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

(Page 3 of 4)

SRs	Description	Gauge	Date:							SURVEILLANCE RESULTS (in. wc)						
			Weekday:		Initials:		Mon.		Tue.		Wed.		Thu.		Fri.	
			Acceptance Criteria				10-20-14		10-21-14		10-22-14		10-23-14		10-24-14	
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc	.70												
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc	.50												
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc	.41												
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc	.44												
		PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY												
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY												
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY												
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY												
		PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc	.65												
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc	.30												
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc	.27												
		PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc	.97												
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc	.59												
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc	.55												
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc	.50												
		PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc	.41												
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc	.38												

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

(Page 4 of 4)

				Date:		10-20-14							10-21-14							10-22-14							10-23-14							10-24-14							10-25-14							10-26-14						
				Weekday:		Mon.							Tue.							Wed.							Thu.							Fri.							Sat.							Sun.						
				Initials:		WS							PT							JW							JW							JW							PT							PT						
				Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)																																																
SRs				Description		Gauge																																																
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP			PDI-838-1		$\leq 2.0$ & $> 0^1$ in. wc		.31							.31							.31							.31							.31							.31											
				PDI-838-2		$\leq 2.0$ & $> 0^1$ in. wc		.41							.41							.41							.41							.41							.41											
				PDI-838-3		$\leq 2.0$ & $> 0^1$ in. wc		.39							.39							.39							.39							.39							.39											
	400 area re-circulation filter plenum (HVP-808) AP			PDI-839-1		$\leq 2.0$ & $> 0^1$ in. wc		.31							.31							.31							.31							.31							.31											
				PDI-839-2		$\leq 2.0$ & $> 0^1$ in. wc		.48							.48							.48							.48							.48							.48											
				PDI-839-3		$\leq 2.0$ & $> 0^1$ in. wc		.43							.43							.43							.43							.43							.43											
4.1.3.4	South Bleed off filter plenum (FF-822A) AP			PDI-810-1		$\leq 2.0$ & $> 0^1$ in. wc		.15							.15							.15							.15							.15							.15											
				PDI-810-2		$\leq 2.0$ & $> 0^1$ in. wc		.49							.49							.49							.49							.49							.49											
				PDI-810-3		$\leq 2.0$ & $> 0^1$ in. wc		.49							.49							.49							.49							.49							.49											
	South Bleed off filter plenum (FF-822B) AP			PDI-811-1		$\leq 2.0$ & $> 0^1$ in. wc		OFF							OFF							OFF							OFF							OFF							OFF											
				PDI-811-2		$\leq 2.0$ & $> 0^1$ in. wc		OFF							OFF							OFF							OFF							OFF							OFF											
				PDI-811-3		$\leq 2.0$ & $> 0^1$ in. wc		OFF							OFF							OFF							OFF							OFF							OFF											
				Completion Time		0826		0819							0750							0907							0821							0754							0753											
OC Operator Review and Page Count Complete (initials)				<div>WS PT JW</div>																																																		

Non TSR requirement:

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

Completed by: Paul Zingales Date 10-26-14 Time 0754 Reviewed by: [Signature] Date 10/26/14 Time: 0700

On-duty Supervisor

Comments



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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:						
					Weekday:						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					10/20/14	10/21/14	10/22/14	10/23/14	10/24/14	10/25/14	10/26/14
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0 <sup>1</sup> in. wc		.16	.16	.16	.16	.16	.16	.16
		PDI-840-2	≤2.0 & > 0 <sup>1</sup> in. wc		.56	.56	.57	.58	.57	.58	.59
		PDI-840-3	≤2.0 & > 0 <sup>1</sup> in. wc		.50	.50	.50	.50	.50	.50	.50
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0 <sup>1</sup> in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0 <sup>1</sup> in. wc		.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0 <sup>1</sup> in. wc		.40	.40	.40	.40	.40	.40	.40
		PDI-831-3	≤2.0 & > 0 <sup>1</sup> in. wc		.37	.34	.34	.34	.33	.33	.33
4.1.3.4	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0 <sup>1</sup> in. wc		.31	.31	.31	.31	.31	.31	.31
		PDI-832-2	≤2.0 & > 0 <sup>1</sup> in. wc		.60	.60	.60	.60	.60	.60	.60
		PDI-832-3	≤2.0 & > 0 <sup>1</sup> in. wc		.54	.54	.54	.54	.55	.54	.54
	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0 <sup>1</sup> in. wc		OFF	.11	.11	.11	.11	.11	.11
		PDI-807-2	≤2.0 & > 0 <sup>1</sup> in. wc		OFF	.48	.49	.49	.40	.49	.49
		PDI-807-3	≤2.0 & > 0 <sup>1</sup> in. wc		OFF	.47	.48	.48	.46	.47	.46
	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0 <sup>1</sup> in. wc		.02	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	≤2.0 & > 0 <sup>1</sup> in. wc		.50	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	≤2.0 & > 0 <sup>1</sup> in. wc		.41	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)							Fri.	Sat.	Sun.
					Date:	Mon.	Tue.	Wed.	Thu.					
					Weekday:									
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0 <sup>1</sup> in. wc	gm	10/20/14	10/21/14	10/22/14	10/23/14	10/24/14	10/25/14	10/26/14			
		PDI-829-2	≤2.0 & > 0 <sup>1</sup> in. wc	gm										
		PDI-829-3	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-833-1	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-833-2	≤2.0 & > 0 <sup>1</sup> in. wc											
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-835-1	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-835-2	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-835-3	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-815-1	≤2.0 & > 0 <sup>1</sup> in. wc											
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-815-4	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-815-5	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-816-1	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-816-2	≤2.0 & > 0 <sup>1</sup> in. wc											
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0 <sup>1</sup> in. wc											
		PDI-816-5	≤2.0 & > 0 <sup>1</sup> in. wc											

(Page 3 of 4)

July - December 2014

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 <sup>1</sup> in. wc	gn	10/20/14	10/21/14	10-22-14	10-23-14	10-24-14	10-25-14	10-26-14	
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:	gn	gn	PT	PT	PT	PT	PT		
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-812-2	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-812-3	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-812-4	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-812-5	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-1	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-2	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-3	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-4	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-5	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	'PDI-865-1	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	'PDI-865-2	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	'PDI-863-1	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	'PDI-863-2	≤2.0 & > 0 <sup>1</sup> in. wc									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									

## 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 &gt; 0 <sup>1</sup> in. wc		10/22/14	Mon.	10/21/14	Tue.	10/22/14	Wed.	10/23/14	Thu.	10/24/14	Fri.	10/25/14	Sat.	10/26/14	Sun.
		PDI-857-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc															
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 &gt; 0 <sup>1</sup> in. wc															
		PDI-856-2	≤ 2.0 &gt; 0 <sup>1</sup> in. wc															
NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>2</sup> combustibles in designated exclusion area (within 15 feet of fans)															
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>2</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less															
Completion time					0825	0811	0810	0815	0927	0800	0806							
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 Engle Date 10-26-14 Time 0806 Reviewed by: [Signature]Date: 10/26/14 Time: 0700

On-duty Supervisor

Comments: 10/26/14 LFE-13T is on in Vault Recirculation plenum. Notified ops. [Signature]



## 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.:	042253	V-701 Thermistor File No.:	039744
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:	6/26/15
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:	040375
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:	6/26/15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature												
SR		Description	Date:		10/20/14	10/21/14	10/22/14	10/23/14	10/24/14	10/25/14	10/26/14	
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:	BF	BF	BF	BF	BF	PL			
			Acceptance Criteria									
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	56.66	56.83	56.30	56.57	56.9	58.8	57.47			
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	58.76	58.84	58.32	58.30	58.4	56.9	59.33			
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	61.26	62.34	60.89	62.01	62.5	61.2	62.24			
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	59.84	60.71	59.36	60.64	60.2	68.1	66.75			
		Completion Time:	0811	0840	0815	0841	0809	0845	0850			
		OC Operator Review and Page Count Complete (initials)	[Signature]									

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

Completed by: [Signature]

Date: 10/26/14 Time: 0910

Reviewed by: [Signature]  
On-duty Supervisor

Date: 10/28/14 Time: 0700

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:		10/27/14		10/28/14		10/29/14		10/30/14		10/31/14			
	Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.			
	Shift:		AM PM		AM PM		AM PM		AM PM		AM PM			
	Initials:		a b		c d		e f		g h		i j			
SRs	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)											
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP <sup>1</sup>	PDI-814-1 or PDI-814-2	-1.96	-1.93	-1.47	-1.93	-1.92	-1.93	-1.95	-1.98	-1.92	-1.95		
	100 area glovebox exhaust header AP <sup>1</sup>	PDI-820-1 or PDI-820-2	-1.92	-1.92	-1.92	-1.93	-1.91	-1.93	-1.93	-1.92	-1.92	-1.92		
	300 area glovebox exhaust header AP <sup>1</sup>	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		
	400 area glovebox exhaust header AP <sup>1</sup>	PDI-864-1 or PDI-864-2	-1.97	-1.97	-1.97	-1.98	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97		
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP <sup>1</sup>	PDI-803-1 or PDI-803-2	-2.1	-1.9	-1.8	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.8		
	100 area laboratory header AP <sup>1</sup>	PDI-802-1 or PDI-802-2	-2.2	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1		
	300 area laboratory header AP <sup>1</sup>	PDI-853-1 or PDI-853-2	-2.1	-2.2	-2.2	-2.3	-2.1	-2.1	-2.1	-2.1	-2.2	-2.2		
	400 area laboratory header AP <sup>1</sup>	PDI-852-1 or PDI-852-2	-1.9	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.1	-2.1		
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility AP <sup>1</sup>	PDI-865-4 or PDI-865-5	-1.9	-1.9	-1.4	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9		
	North basement AP <sup>1</sup>	PDI-804-1 or PDI-804-2	-1.0	-1.0	-1.0	-1.8	-1.0	-1.0	-1.0	-1.1	-1.0	-1.0		
	South basement AP <sup>1</sup>	PDI-854-1 or PDI-854-2	-1.2	-1.2	-1.1	-1.6	-1.1	-1.1	-1.1	-1.3	-1.2	-1.1		
	IRT Tunnel AP <sup>1</sup>	PDI-901 or PDI-901	-1.07	-1.03	-1.12	-1.19	-1.03	-1.03	-1.03	-1.03	-1.10	-1.03		

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

(Page 2 of 3)

Note	SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS											
					Sat. / Unsat. (circle one)											
Date:	10-27-14		10/28/14		10/29/14		10/30/14		10/31/14							
	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 PDTs may be used if FCS is unavailable.		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
		Initials:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			Weekday:	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 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		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			4.1.1.6	300 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
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
4.1.1.6	400 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
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			4.1.1.6	Vault 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
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	Sat	Sat				Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
At least one fan/plenum is in service	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
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		

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

(Page 3 of 3)

Note		Date:	10-27-14		10-28-14		10-29-14		10-30-14		10-31-14		
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		Initials:	C		K		K		K		K		
SRs	Description	Area	Gauge	Acceptance Criteria									
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's for < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2 PDI-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
		300 Area	PDI-870-2 PDI-853-2 PDI-854-2	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
	Completion Time		0727		0735		0730		0729		0735		
			1930		1930		1929		1932		1930		
			RS		RS		RS		RS		RS		
			RS		RS		RS		RS		RS		
			RS		RS		RS		RS		RS		

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2 x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: AB Date: 10-31-14 Time: 1930 Reviewed by: BB Date: 11-3-14 Time: 0841

On-duty Supervisor

Comments:



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

(Page 1 of 4)

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

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

SR  4.4.1.1	Description / Gauge  Flammable Gas Channel Check DET-305-3 (LCD Reading)  CP-305-H (LED Reading)  (DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)	Date: 10-27-14	10/28/14	10/29/14	10/30/14	10/31/14		
		Weekday: Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials: [Signature]	[Signature]	[Signature]	16A	RH		
		SURVEILLANCE RESULTS (percentage)						
Acceptance Criteria	NA	0.0	0.0	0.0	0.0	0.0		
		0.0	0.0	0.0	0.0	0.0		
		0.0	0.0	0.0	0.0	0.0		
		Record Calculated Value						
Completion Time: 0754	≥ -0.1; ≤ +0.1	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		0754	0803	0749	0815	0750		

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	10/27/14	10/28/14	10/29/14	10/30/14	10/31/14	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Initials:	ms	gn	gn	HA	RA	
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc		.07	.07	.07	.07	.08	
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc		.51	.51	.51	.51	.51	
	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc		.11	.10	.10	.10	.08	
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc		.60	.56	.54	.54	.54	
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc		.29	.29	.30	.30	.30	
		PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc		.32	.33	.33	.33	.33	
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc		.35	.32	.34	.34	.33	
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc		.32	.31	.31	.31	.31	
		PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc		.41	.41	.41	.41	.41	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc		.42	.41	.41	.41	.41	
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc		.38	.37	.37	.37	.34	
		PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	
		PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	
		PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	
		PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc		STBY	STBY	STBY	STBY	STBY	

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:			Initials:										
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				10-27-14	10-28-14	10-29-14	10-30-14	10-31-14									
				AS	gm	gm	HA	RA									
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤ 2.0 & > 0' in. wc	.77	STBY	STBY	STBY	STBY									
		PDI-822-2	≤ 2.0 & > 0' in. wc	.51	STBY	STBY	STBY	STBY									
		PDI-822-4	≤ 2.0 & > 0' in. wc	.42	STBY	STBY	STBY	STBY									
		PDI-822-5	≤ 2.0 & > 0' in. wc	.48	STBY	STBY	STBY	STBY									
		PDI-823-1	≤ 2.0 & > 0' in. wc	STBY	.10	.09	.09	.10									
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & > 0' in. wc	STBY	.45	.45	.45	.45									
		PDI-823-4	≤ 2.0 & > 0' in. wc	STBY	.47	.47	.47	.47									
		PDI-823-5	≤ 2.0 & > 0' in. wc	STBY	.09	.50	.50	.50									
		PDI-830-1	≤ 2.0 & > 0' in. wc	.65	.66	.66	.66	.66									
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤ 2.0 & > 0' in. wc	.30	.31	.31	.31	.31									
		PDI-830-3	≤ 2.0 & > 0' in. wc	.28	.28	.28	.28	.28									
		PDI-836-1	≤ 2.0 & > 0' in. wc	.97	.97	.97	.97	.97									
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤ 2.0 & > 0' in. wc	.58	.57	.57	.57	.57									
		PDI-836-3	≤ 2.0 & > 0' in. wc	.55	.55	.55	.55	.55									
		PDI-837-1	≤ 2.0 & > 0' in. wc	.51	.51	.51	.51	.51									
		PDI-837-2	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41									
		PDI-837-3	≤ 2.0 & > 0' in. wc	.38	.38	.39	.39	.39									

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

(Page 4 of 4)

				Date:	10/27/14	10/28/14	10/29/14	10/30/14	10/31/14		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:	MS	JS	JS	MSA	MS		
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31		
		PDI-838-2	$\leq 2.0$ & $> 0^1$ in. wc	.40	.41	.41	.41	.41	.41		
		PDI-838-3	$\leq 2.0$ & $> 0^1$ in. wc	.38	.38	.38	.38	.38	.38		
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31		
		PDI-839-2	$\leq 2.0$ & $> 0^1$ in. wc	.45	.47	.47	.47	.47	.47		
PDI-839-3		$\leq 2.0$ & $> 0^1$ in. wc	.42	.42	.42	.42	.42	.42			
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	$\leq 2.0$ & $> 0^1$ in. wc	.15	OFF	OFF	OFF	OFF	OFF		
		PDI-810-2	$\leq 2.0$ & $> 0^1$ in. wc	.45	OFF	OFF	OFF	OFF	OFF		
		PDI-810-3	$\leq 2.0$ & $> 0^1$ in. wc	.45	OFF	OFF	OFF	OFF	OFF		
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	$\leq 2.0$ & $> 0^1$ in. wc	.058	.11	.11	.11	.11	.11		
		PDI-811-2	$\leq 2.0$ & $> 0^1$ in. wc	OFF	.47	.47	.47	.47	.47		
		PDI-811-3	$\leq 2.0$ & $> 0^1$ in. wc	OFF	.48	.48	.48	.48	.48		
			Completion Time	0845	0900	0826	0904	0854			
OC Operator Review and Page Count Complete (initials)				MS	MS	MS	MS	MS	MS		

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: 10/31/14 Time: 0913 Reviewed by: [Signature] Date: 10/31/14 Time: 0918

On-duty Supervisor

Comments



(Page 1 of 4)

July - December 2014

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Initials:									
				Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				10-27-14	10-28-14	10-29-14	10-30-14	10-31-14					
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	.16	.14	.16	.16	.16					
		PDI-840-2	≤2.0 & > 0 in' wc	.55	.57	.57	.57	.57					
		PDI-840-3	≤2.0 & > 0' in. wc	.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					
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY					
		PDI-841-3	≤2.0 & > 0' in. wc	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					
		PDI-831-2	≤2.0 & > 0' in. wc	.39	.40	.40	.40	.40					
		PDI-831-3	≤2.0 & > 0' in. wc	.32	.32	.32	.32	.32					
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31						
	PDI-832-2	≤2.0 & > 0' in. wc	.60	.60	.60	.60	.60						
	PDI-832-3	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.55						
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					
		PDI-807-2	≤2.0 & > 0' in. wc	.48	OFF	OFF	OFF	OFF					
		PDI-807-3	≤2.0 & > 0' in. wc	.45	OFF	OFF	OFF	OFF					
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	OFF	.07	.07	.07	.07					
		PDI-809-2	≤2.0 & > 0' in. wc	OFF	.50	.50	.50	.50					
		PDI-809-3	≤2.0 & > 0' in. wc	OFF	.43	.43	.43	.43					

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
				10-27-14	10-28-14	10-29-14	10-30-14	10-31-14									
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				MS	EH	JK	GA	RH									
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	$\leq 2.0$ & $> 0.1$ in. wc	.13	.14	.13	.13	.13									
		PDI-829-2	$\leq 2.0$ & $> 0.1$ in. wc	.32	.34	.33	.37	.34									
		PDI-829-3	$\leq 2.0$ & $> 0.1$ in. wc	.27	.29	.28	.28	.29									
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	$\leq 2.0$ & $> 0.1$ in. wc	1.0	1.0	1.0	1.0	1.0									
		PDI-833-2	$\leq 2.0$ & $> 0.1$ in. wc	.45	.45	.45	.45	.45									
	100 area re-circulation filter plenum (HVP-804) AP	PDI-833-3	$\leq 2.0$ & $> 0.1$ in. wc	.44	.43	.44	.44	.43									
		PDI-835-1	$\leq 2.0$ & $> 0.1$ in. wc	.15	.15	.15	.15	.15									
		PDI-835-2	$\leq 2.0$ & $> 0.1$ in. wc	.45	.45	.45	.45	.45									
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	$\leq 2.0$ & $> 0.1$ in. wc	.40	.40	.41	.41	.40									
		PDI-815-1	$\leq 2.0$ & $> 0.1$ in. wc	STBY	STBY	STBY	STBY	STBY									
		PDI-815-2	$\leq 2.0$ & $> 0.1$ in. wc	STBY	STBY	STBY	STBY	STBY									
		PDI-815-4	$\leq 2.0$ & $> 0.1$ in. wc	STBY	STBY	STBY	STBY	STBY									
		PDI-815-5	$\leq 2.0$ & $> 0.1$ in. wc	STBY	STBY	STBY	STBY	STBY									
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	$\leq 2.0$ & $> 0.1$ in. wc	.35	.33	.34	.34	.31									
		PDI-816-2	$\leq 2.0$ & $> 0.1$ in. wc	.42	.41	.41	.41	.40									
		PDI-816-4	$\leq 2.0$ & $> 0.1$ in. wc	.41	.41	.41	.41	.40									
		PDI-816-5	$\leq 2.0$ & $> 0.1$ in. wc	.42	.42	.42	.42	.41									

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
4.1.3.4	200 area glovebox exhaust filter plenum (FF-850) ΔP	PDI-812-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-812-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-812-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-812-4	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-812-5	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
4.1.3.4	200 area glovebox exhaust filter plenum (FF-851) ΔP	PDI-813-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-813-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-813-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-813-4	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-813-5	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
4.1.3.4	HIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-865-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-865-3	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
4.1.3.4	HIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		
		PDI-863-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	10-27-14	Mon.	10/28/14	Tue.	10/29/14	Wed.	10/30/14	Thu.	10/31/14	Fri.	Sat.	Sun.		

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

(Page 4 of 4)

		Date:	10-27-14	10/28/14	10/29/14	10/30/14	10/31/14		
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	WS	RST	JF	167	RH		
SRs	Description	Gauge	SURVEILLANCE RESULTS						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	.15	.14	.15	.15	.15	
		PDI-857-2	≤ 2.0 & > 0' in. wc	.49	.48	.48	.48	.48	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	.07	.07	.07	.07	.07	
		PDI-856-2	≤ 2.0 & > 0' in. wc	.50	.51	.52	.51	.52	
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT		SAT		
4.3.2.2	Rooms 201, 204, 206, & 207	SAT	0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT		SAT		
		Completion time		0856	0905	0812	0910	0849	
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: RST Date: 10/31/14 Time: 0912Reviewed by: RST

On-duty Supervisor

Date: 10/31/14 Time: 0916

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.:	042853	V-701 Thermistor File No.:	039744
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:	6/26/15
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:	040375
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:	6/26/15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	10/27/2014	10/28/2014	10/29/14	10/30/2014	10/31/14		
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	BF	BF	REH	BF			
		Acceptance Criteria							
SR	Description								
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT
4.3.1.1'	RECORD fire water storage tank V-701 temperature	57.38	56.95	54.2	56.26	56.3			
4.3.1.1'	RECORD fire water storage tank V-704 temperature	59.24	58.83	58.1	58.08	57.7			
4.3.1.3'	RECORD PF-10 room temperature	63.53	59.95	59.5	60.54	59.1			
4.3.1.3'	RECORD PF-11 room temperature	61.07	60.95	58.1	62.80	64.5			
Completion Time:		0840	0811	0835	0901	0822			
OC Operator Review and Page Count Complete (initials)		SK	W	20	SK	SK			

Temperatures should be recorded using Reference Thermometer FLUKE Model 4524 connected to Thermistor Probe Fluke Model 5610-9 (or approved engineered equivalent).

Completed by: 7. [Signature] Date: 10/31/14 Time: 0822

Reviewed by: [Signature] Date: 10/31/14 Time: 0720

On-duty Supervisor

Comments:

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

(Page 1 of 2)

July - December 2014  
TA-55-PF4 HEPA Filtration Differential Pressure Readings

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.	1502	10-22-14	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.	1505	10-22-14	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.	1455	10-22-14	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.	1520	10-22-14	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. Unsat.	1528	10-22-14	PT
			4.66 Seconds	Sat. Unsat.	1528	10-22-14	PT

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OE Order 420.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANL Building TA55-1 (PF-4); Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANL-DOE-ORDER-420.1B-EQ-2013-001

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

(Page 2 of 2)

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.	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1520	10-22-14	PT
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	7 Seconds 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.	1520	10-22-14	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="radio"/> Sat <input type="radio"/> Unsat.	1550	10-22-14	PT
					1539	10-22-14	PT
OC Operator Review and Page Count Complete							000

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: Paul Angello Date: 10-22-14 Time: 1557 Reviewed by: RSB Date: 11-20-13 Time: 1613

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

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

Completed by: PRU Date 10/1/14 Time 0400

Reviewed by: BBO Date 10/1/14 Time 0650  
On-duty Supervisor

Comments:

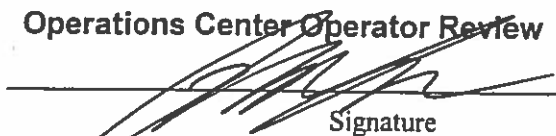


## Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	Surveillance Rounds
Procedure no.:	TA55-STP-004, R17
Date of issue:	11/1/14
Working copy issued to:	D Dunaway
Working copy issued by:	D Dunaway
	Certified Operations Center Operator

### Operations Center Operator Review

 Signature  
12/1/14 Date

Required Reading for this Surveillance has been completed.

### Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R Briscoe	ABD	11/1/14
B Chance	ABD	↑
D Dunaway	ABD	
A Dunsoth	ABD	
J Lovato	ABD	
R Lum	ABD	
A Ortiz	ABD	
F Seybart	ABD	
J Smeltz	ABD	↓
R Price	ABD	11/1/14

Comments:


[illegible]

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

(Page 1 of 3)

Note	Date:	SURVEILLANCE RESULTS (in. wc)													
		Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.	
		Shift:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:													
SRs	Description	Gauge Acceptance Criteria													
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc <sup>1</sup>											-1.98	-1.94
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc <sup>1</sup>											-1.93	-1.93
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc <sup>1</sup>											-1.98	-1.99
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc <sup>1</sup>											-1.97	-1.98
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc <sup>1</sup>											-1.19	-1.19
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc <sup>1</sup>											-1.21	-1.21
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc <sup>1</sup>											-1.23	-1.22
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc <sup>1</sup>											-1.21	-1.20
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc											-1.19	-1.19
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc											-1.10	-1.10
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc											-1.12	-1.12
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc											-1.13	-1.13

## 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 PDIs may be used if FCS is unavailable.	Date: Weekday: Shift: Initials:	SURVEILLANCE RESULTS													
			Acceptance Criteria	Readings	Sat. / Unsat. (circle one)											
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.					
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 AP > .050 or FR-804 Icon red and PDT-835 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 AP > .050 or FR-806 Icon red and PDT-837 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	400 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 AP > .050 or FR-808 Icon red and PDT-839 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat



## 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.		Weekday:		AM		PM		AM		PM		AM		PM		AM	
Initials:																	
SRs	Description	Area	Gauge	SURVEILLANCE RESULTS													
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's for basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2 PDI-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			0725 1930 0725 1930														

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: ad Date 11-2-14 Time 1930 Reviewed by: BBQ Date: 11/3/14 Time: 0848

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

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

		Date:								
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:						KL		11/1/14
	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)								
SR 4.4.1.1	Description / Gauge	NA								
	Flammable Gas Channel Check DET-305-3 (LCD Reading)							0.0	0.0	
	CP-305-H (LED Reading)							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	
	Completion Time:							Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
								0845	0813	



(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	$\leq 2.0$ & $> 0^1$ in. wc							11.1.14	11.2.14	
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc								Sat.	Sun.
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc									
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc									
		'PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc									
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc									
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc									
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc									
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	'PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc									
		PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc									
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc									
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	'PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc									
		PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc									
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc									
		'PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc									
		PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc									
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc									

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:									
Initials:													
4.1.1.7	400 area re-circulation filter plenum ( HVP-807) AP	'PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc								11/1/14	11-2-14	
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc								Sat.	Sun.	
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc								11	11	
	400 area re-circulation filter plenum ( HVP-808) AP	'PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc										
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	'PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc								11/1/14	11-2-14	
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc										
	South Bleed off filter plenum ( FF-822B) AP	'PDI -811 - 1	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI -811 -2	≤2.0 & > 0 <sup>1</sup> in. wc										
		PDI -811 -3	≤2.0 & > 0 <sup>1</sup> in. wc										
Completion Time													
OC Operator Review and Page Count Complete (initials)													

Non TSR requirement:

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

Completed by: CR Date: 11/3/14 Time: 0851 Reviewed by: BBS Date: 11/3/14 Time: 0851  
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.	Sun.	
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc						11/08/14	11/02/14	
		PDI-840-2	≤2.0 & > 0 in' wc							Sat.	Sun.
		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								
4.1.3.4	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								
	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								

(Page 2 of 4)

July - December 2014

[illegible]

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

(Page 3 of 4)

SRs	Description	Gauge	Date:							SURVEILLANCE RESULTS		
			Weekday:							(in. wc)		
			Initials:							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									11/22/14
		PDI-812-2	≤ 2.0 & > 0' in. wc									11/22/14
		PDI-812-3	≤ 2.0 & > 0' in. wc									11/22/14
		PDI-812-4	≤ 2.0 & > 0' in. wc									11/22/14
		PDI-812-5	≤ 2.0 & > 0' in. wc									11/22/14
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤ 2.0 & > 0' in. wc									11/22/14
		PDI-813-2	≤ 2.0 & > 0' in. wc									11/22/14
		PDI-813-3	≤ 2.0 & > 0' in. wc									11/22/14
		PDI-813-4	≤ 2.0 & > 0' in. wc									11/22/14
		PDI-813-5	≤ 2.0 & > 0' in. wc									11/22/14
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤ 2.0 & > 0' in. wc									11/22/14
		PDI-865-2	≤ 2.0 & > 0' in. wc									11/22/14
		PDI-865-3	≤ 2.0 & > 0' in. wc									11/22/14
4.1.3.4	IFT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤ 2.0 & > 0' in. wc									11/22/14
		PDI-863-2	≤ 2.0 & > 0' in. wc									11/22/14

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

(Page 4 of 4)

SRs	Description	Gauge	SURVEILLANCE RESULTS								
			Initials:								
			Dates:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1								11/02/14	11/02/14
		PDI-857-2								Sat.	Sun.
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1									
		PDI-856-2									
1A	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	0 lb/ft <sup>2</sup> combustibles in designated exclusion area (within 15 feet of fans)									Sat
4.3.2.2	Rooms 201, 204, 206, & 207	0 lb/ft <sup>2</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less									Sat
OC Operator Review and Page Count Complete (initials)										0908	0838
Completion time										11/02/14	11/02/14

## Non TSR requirement

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

Completed by: Michael T. Smith Date 11/2/14 Time 0637 Reviewed by: B.B. J. Date: 11/3/14 Time: 0853

On-duty Supervisor

Comments: 4.1.1.7 PDI-833-1 Exceeds gauge range. Not pegged 11/01/14 min4.1.1.7 PDI-833-1 Exceeds gauge range. Not pegged 11/02/14 min

## 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:	6-17-15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:
	Calibration Expiration Date:	6-17-15	Calibration Expiration Date:
			V-701 Thermistor File No.:
			Calibration Expiration Date:
			V-704 Thermistor File No.:
			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:			
			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.										11-1-14	11/2/14
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)												

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

Completed by: PRC Date: 11/2/14 Time: 0917

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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:	11/3/14		11/4/14		11/5/14		11/6/14		11/7/14		11/8/14		11/9/14	
	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>	
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)											
		PDI-814-1 or PDI-814-2	PDI-820-1 or PDI-820-2	PDI-870-1 or PDI-870-2	PDI-864-1 or PDI-864-2	PDI-803-1 or PDI-803-2	PDI-802-1 or PDI-802-2	PDI-853-1 or PDI-853-2	PDI-852-1 or PDI-852-2	PDI-865-4 or PDI-865-5	PDI-804-1 or PDI-804-2	PDI-854-1 or PDI-854-2	PDI-901 or PDI-901		
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	≤-1.0 in. wc	1.97	-1.96	-1.94	-1.92	-1.90	-1.92	-1.95	-1.97	-1.96	-1.96	-1.94	-1.94	
	100 area glovebox exhaust header AP	≤-1.0 in. wc	1.94	-1.92	-1.91	-1.93	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	
	300 area glovebox exhaust header AP	≤-1.0 in. wc	1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	
	400 area glovebox exhaust header AP	≤-1.0 in. wc	1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	≤-0.05 in. wc	0.9	-1.18	-1.14	-0.88	-0.9	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	
	100 area laboratory header AP	≤-0.05 in. wc	0.21	-2.20	-2.22	-2.20	-2.21	-2.21	-2.21	-2.22	-2.22	-2.22	-2.22	-2.21	
	300 area laboratory header AP	≤-0.05 in. wc	0.22	-2.22	-2.22	-2.22	-2.22	-2.23	-2.23	-2.23	-2.22	-2.22	-2.22	-2.22	
	400 area laboratory header AP	≤-0.05 in. wc	0.21	-2.20	-2.20	-2.21	-2.21	-2.22	-2.22	-2.21	-2.20	-2.21	-2.21	-2.20	
4.1.1.3 4.1.2.3 <sup>2</sup>	IFT Facility AP	≤-0.05 in. wc	0.10	-1.19	-1.19	-0.91	-0.91	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	
	North basement AP	< 0.00 in. wc	0.10	-1.10	-1.08	-0.10	-0.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	
	South basement AP	< 0.00 in. wc	0.11	-1.11	-1.10	-0.11	-0.12	-1.12	-1.12	-1.12	-1.12	-1.12	-1.12	-1.12	
	IRT Tunnel AP	< 0.00 in. wc	0.120	-1.12	-1.10	-0.17	-0.15	-1.23	-1.23	-1.21	-1.17	-1.17	-1.17	-1.19	

## 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.	Date: Weekday:	Shift:	Initials:	11/3/14	11/4/14	11/5/14	11/6/14	11/7/14	11/8/14	11/9/14						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
	200 area re-circulation fan/plenum	FR-801 Icon red and PDI-831 $\Delta P > .050$ or FR-802 Icon red and PDI-832 $\Delta P > .050$	At least one fan/plenum is in service	[Signature]	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	100 area re-circulation fan/plenum	FR-803 Icon red and PDI-833 $\Delta P > .050$ or FR-804 Icon red and PDI-835 $\Delta P > .050$	At least one fan/plenum is in service	[Signature]	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	300 area re-circulation fan/plenum	FR-805 Icon red and PDI-836 $\Delta P > .050$ or FR-806 Icon red and PDI-837 $\Delta P > .050$	At least one fan/plenum is in service	[Signature]	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	400 area re-circulation fan/plenum	FR-807 Icon red and PDI-838 $\Delta P > .050$ or FR-808 Icon red and PDI-839 $\Delta P > .050$	At least one fan/plenum is in service	[Signature]	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	Vault re-circulation fan/plenum	FR-811 Icon red and PDI-840 $\Delta P > .050$ or FR-812 Icon red and PDI-841 $\Delta P > .050$	At least one fan/plenum is in service	[Signature]	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.		Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Initials:		Shift:	AM		PM		AM		PM		AM		PM		AM	
4.1.1.4		Acceptance Criteria	PDI-814-2 < PDI-803-2 < PDI-804-2		PDI-814-2 < PDI-803-2 < PDI-804-2		PDI-814-2 < PDI-803-2 < PDI-804-2		PDI-814-2 < PDI-803-2 < PDI-804-2		PDI-814-2 < PDI-803-2 < PDI-804-2		PDI-814-2 < PDI-803-2 < PDI-804-2		PDI-814-2 < PDI-803-2 < PDI-804-2	
Glovebox exhaust header AP's < laboratory AP's for basement AP's for areas 100, 200, 300 and 400		Gauge	PDI-814-2		PDI-814-2		PDI-814-2		PDI-814-2		PDI-814-2		PDI-814-2		PDI-814-2	
		Area	200 Area		200 Area		200 Area		200 Area		200 Area		200 Area		200 Area	
		Description	PDI-803-2		PDI-803-2		PDI-803-2		PDI-803-2		PDI-803-2		PDI-803-2		PDI-803-2	
			PDI-804-2		PDI-804-2		PDI-804-2		PDI-804-2		PDI-804-2		PDI-804-2		PDI-804-2	
			PDI-820-2		PDI-820-2		PDI-820-2		PDI-820-2		PDI-820-2		PDI-820-2		PDI-820-2	
			PDI-802-2		PDI-802-2		PDI-802-2		PDI-802-2		PDI-802-2		PDI-802-2		PDI-802-2	
			PDI-804-2		PDI-804-2		PDI-804-2		PDI-804-2		PDI-804-2		PDI-804-2		PDI-804-2	
			PDI-870-2		PDI-870-2		PDI-870-2		PDI-870-2		PDI-870-2		PDI-870-2		PDI-870-2	
			PDI-853-2		PDI-853-2		PDI-853-2		PDI-853-2		PDI-853-2		PDI-853-2		PDI-853-2	
			PDI-854-2		PDI-854-2		PDI-854-2		PDI-854-2		PDI-854-2		PDI-854-2		PDI-854-2	
			PDI-864-2		PDI-864-2		PDI-864-2		PDI-864-2		PDI-864-2		PDI-864-2		PDI-864-2	
			PDI-852-2		PDI-852-2		PDI-852-2		PDI-852-2		PDI-852-2		PDI-852-2		PDI-852-2	
			PDI-854-2		PDI-854-2		PDI-854-2		PDI-854-2		PDI-854-2		PDI-854-2		PDI-854-2	
		Completion Time	1919		1919		1938		1938		1924		1925		1924	

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: [Signature] Date: 11/19/14 Time: 1924 Reviewed by: [Signature] Date: 11/19/14 Time: 0830

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

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

SR	Description / Gauge	Date:	11-3-14	11-4-14	11-5-14	11-6-14	11-7-14	11-8-14	11-9-14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	ws	gh	pt	pt	qh	pt	gh
4.4.1.1	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
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		$\geq -0.1$ ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:	0910	0800	0821	0800	0720	0750	0820

## 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.
				Weekday:	Initials:					
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	11/3/14	11/4/14	11-5-14	11-6-14	11-7-14	11/8/14	11/9/14
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc							
	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc							
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc							



(Page 3 of 4)

July - December 2014

	Date:	11/3/14	11/4/14	11-5-14	11-6-14	11-7-14	11/8/14	11/9/14
	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
	Initials:	Jm	TL	PT	PT	AL	PB	Jr
SRs	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)					
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0' in. wc	STBY	STBY	.80	.78	.77
		PDI-822-2	≤2.0 & > 0' in. wc	STBY	STBY	.50	.52	.51
		PDI-822-4	≤2.0 & > 0' in. wc	STBY	STBY	.42	.42	.43
		PDI-822-5	≤2.0 & > 0' in. wc	STBY	STBY	.48	.46	.48
		'PDI-823-1	≤2.0 & > 0' in. wc	.10	.09	.10	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	.43	.42	.45	STBY	STBY
		PDI-823-4	≤2.0 & > 0' in. wc	.49	.49	.49	STBY	STBY
		PDI-823-5	≤2.0 & > 0' in. wc	.50	.50	.50	STBY	STBY
		'PDI-830-1	≤2.0 & > 0' in. wc	.65	.65	.65	.65	.65
		PDI-830-2	≤2.0 & > 0' in. wc	.31	.30	.31	.30	.31
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-3	≤2.0 & > 0' in. wc	.28	.28	.28	.29	.28
		'PDI-836-1	≤2.0 & > 0' in. wc	.97	.97	.97	.97	.97
		PDI-836-2	≤2.0 & > 0' in. wc	.57	.58	.59	.58	.57
		PDI-836-3	≤2.0 & > 0' in. wc	.56	.56	.57	.57	.56
		'PDI-837-1	≤2.0 & > 0' in. wc	.50	.51	.51	.51	.51
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-837-2	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41
		PDI-837-3	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39

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

(Page 4 of 4)

		Date: 11/13/14	11/14/14	11/15/14	11-5-14	11-6-14	11-7-14	11/8/14	11/9/14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	gr	gr	PT	PT	gr	gr	gr
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)					
4.1.1.7	400 area re-circulation filter plenum ( HVP-807) AP	'PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc	.39	.39	.39	.39	.39	.39
	400 area re-circulation filter plenum ( HVP-808) AP	'PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc	.41	.32	.32	.30	.31	.31
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc	.46	.46	.47	.40	.46	.46
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.42	.42	.42	.42
		'PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF
	South Bleed off filter plenum ( FF-822B) AP	PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF
		'PDI -811 - 1	≤2.0 & > 0 <sup>1</sup> in. wc	.11	.11	.11	.11	.11	.11
PDI -811 - 2		≤2.0 & > 0 <sup>1</sup> in. wc	.48	.48	.49	.48	.48	.48	
4.1.3.4		PDI -811 - 3	≤2.0 & > 0 <sup>1</sup> in. wc	.48	.49	.49	.49	.48	.48
			Completion Time	.0945	.0816	.0841	.0834	.0751	.0821
		OC Operator Review and Page Count Complete (initials)							

'Non TSR requirement:

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

Completed by: Seamus Alke Date 11/19/14 Time 0845 Reviewed by: [Signature] Date 11/13/14 Time 0832

On-duty Supervisor

Comments

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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date: 11/3/14 11-4-14 11/5/14 11-6-14 11/7/14 11/8/14 11/9/14						
				Weekday: Mon. Tue. Wed. Thu. Fri. Sat. Sun.						
				Initials: Jm PT Jm						
				SURVEILLANCE RESULTS (in. wc)						
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
		PDI-840-2	≤2.0 & > 0' in. wc	.57	.58	.57	.58	.57	.56	.56
		PDI-840-3	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.49	.50
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	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	.40	.40	.40	.40	.40	.40	.40
		PDI-831-3	≤2.0 & > 0' in. wc	.34	.34	.34	.34	.33	.33	.33
4.1.3.4	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	.11	.31	.31	.31	.31	.31	.31
		PDI-832-2	≤2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.60	.60
		PDI-832-3	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.55	.55	.55
	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07
		PDI-809-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-809-3	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.44	.43	.44

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:						
					Weekday:						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					gm	PT	gm	PT	RU	PT	g
SURVEILLANCE RESULTS (in. wc)											
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	$\leq 2.0$ & $> 0^1$ in. wc		.14	.12	.14	.14	.14	.14	.14
		PDI-829-2	$\leq 2.0$ & $> 0^1$ in. wc		.35	.32	.35	.37	.38	.37	.38
		PDI-829-3	$\leq 2.0$ & $> 0^1$ in. wc		.29	.28	.29	.30	.30	.29	.29
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	$\leq 2.0$ & $> 0^1$ in. wc		1.0	1.0	1.0	1.0	1.0	1.0	1.0
		PDI-833-2	$\leq 2.0$ & $> 0^1$ in. wc		.45	.45	.45	.45	.45	.45	.45
		PDI-833-3	$\leq 2.0$ & $> 0^1$ in. wc		.43	.43	.43	.43	.43	.43	.43
	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1	$\leq 2.0$ & $> 0^1$ in. wc		.15	.15	.15	.15	.15	.15	.15
		PDI-835-2	$\leq 2.0$ & $> 0^1$ in. wc		.44	.44	.44	.44	.44	.45	.44
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	$\leq 2.0$ & $> 0^1$ in. wc		.41	.41	.41	.41	.40	.40	.41
		PDI-815-1	$\leq 2.0$ & $> 0^1$ in. wc		STBY	.19	.19	.19	.19	.20	.19
		PDI-815-2	$\leq 2.0$ & $> 0^1$ in. wc		STBY	.40	.40	.40	.40	.40	.40
		PDI-815-4	$\leq 2.0$ & $> 0^1$ in. wc		STBY	.32	.33	.32	.32	.32	.32
		PDI-815-5	$\leq 2.0$ & $> 0^1$ in. wc		STBY	.38	.38	.38	.39	.38	.38
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	$\leq 2.0$ & $> 0^1$ in. wc		.33	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-2	$\leq 2.0$ & $> 0^1$ in. wc		.40	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-4	$\leq 2.0$ & $> 0^1$ in. wc		.40	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	$\leq 2.0$ & $> 0^1$ in. wc		.41	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.
					11/27/14	11/28/14	11/29/14	11/30/14	12/1/14	12/2/14	12/3/14
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	gm	PT	gm	STBY	STBY	STBY	STBY	STBY
		PDI-812-2	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0' in. wc				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	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-865-2	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-865-3	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-863-2	≤2.0 & > 0' in. wc				STBY	STBY	STBY	STBY	STBY



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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.12	.13	.12	.12	.13	.12	.13
		PDI-857-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.46	.46	.46	.47	.48	.46	.48
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	.07	.07	.07	.07	.08	.08	.08
		PDI-856-2	≤ 2.0 & > 0 <sup>1</sup> in. wc	.52	.52	.52	.52	.52	.52	.52
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time				0930	0827	0912	0846	0830	0808	0835
OC Operator Review and Page Count Complete (initials)				[Signature]						

Non TSR requirement

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

Completed by: [Signature] Date 11/14/14 Time 0855

Reviewed by: [Signature] Date 11/13/14 Time 0834

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.:	0422-53	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
Daily (September through April only)		Date:	11/3/2014	11/4/14	11/5/2014	11/6/14	11/7/14	11/8/14	11/9/14		
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
		Initials:	BF	PH	BF	PH	TH	TH	TH		
		Acceptance Criteria									
SR	Description	Calibration dates have not elapsed.	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.	≥ 42.1 F	53.98	53.0	52.07	51.5	51.3	51.7	51.3		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	55.18	54.6	53.41	53.1	52.9	53.2	52.9		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	52.74	56.0	55.28	54.4	57.1	61.6	62.3		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	63.95	41.1	60.51	60.3	62.0	63.2	63.0		
		Completion Time:	0840	0851	0910	0834	0750	0823	0940		
OC Operator Review and Page Count Complete (initials) <i>BF</i>											

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

Completed by: *[Signature]* Date: 11/9/14 Time: 0940

Reviewed by: *[Signature]* Date: 11/13/14 Time: 0835

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:	11/10/14		11/11/14		11/12/14		11/13/14		11/14/14		11/15/14		11/16/14		
	Weekday:	Mon.		Tue.		Wed.		Thul.		Fri.		Sat.		Sun.		
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	Initials:	U		U	U	J. B.		J. B.		U		U		U		U
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)												
		PDI-814-1 or PDI-814-2	≤-1.0 in. wc <sup>1</sup>	-1.97	-1.95	-1.96	-1.97	-1.98	-1.95	-1.93	-1.93	-1.98	-1.94	-1.96	-1.94	-1.96
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤-1.0 in. wc <sup>1</sup>	-1.97	-1.95	-1.96	-1.97	-1.98	-1.95	-1.93	-1.93	-1.98	-1.94	-1.96	-1.94	-1.96
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤-1.0 in. wc <sup>1</sup>	-1.92	-1.92	-1.92	-1.93	-1.94	-1.93	-1.93	-1.92	-1.92	-1.93	-1.92	-1.92	-1.92
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤-1.0 in. wc <sup>1</sup>	-1.98	-1.98	-1.97	-1.98	-1.99	-1.98	-1.97	-1.98	-1.99	-1.98	-1.98	-1.97	-1.97
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤-1.0 in. wc <sup>1</sup>	-1.97	-1.97	-1.97	-1.97	-1.97	-1.96	-1.97	-1.98	-1.98	-1.98	-1.97	-1.97	-1.97
	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤-0.05 in. wc <sup>1</sup>	-1.18	-1.19	-1.19	-1.19	-1.18	-1.17	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	-1.18
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤-0.05 in. wc <sup>1</sup>	-2.20	-2.20	-2.22	-2.21	-2.19	-2.19	-2.22	-2.21	-2.23	-2.22	-2.21	-2.22	-2.21
4.1.1.3 4.1.2.3 <sup>2</sup>	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤-0.05 in. wc <sup>1</sup>	-2.21	-2.21	-2.23	-2.22	-2.19	-2.21	-2.23	-2.23	-2.25	-2.23	-2.22	-2.22	-2.22
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤-0.05 in. wc <sup>1</sup>	-2.20	-2.19	-2.21	-2.21	-2.17	-2.20	-2.22	-2.22	-2.21	-2.21	-2.21	-2.21	-2.20
	IFIT Facility AP	PDI-865-4 or PDI-865-5	≤-0.05 in. wc	-2.14	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-2.10	-2.09	-2.10	-2.10	-2.05	-2.09	-2.08	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-2.12	-2.11	-2.11	-2.11	-2.09	-2.11	-2.11	-2.10	-2.11	-2.10	-2.10	-2.11	-2.11
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	-2.120	-2.110	-2.117	-2.116	-2.101	-2.111	-2.103	-2.103	-2.104	-2.103	-2.104	-2.103	-2.106

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

(Page 2 of 3)

Note	SRs	Description	Readings	Acceptance Criteria	Date: 11/10/14												
					Mon. 11-10-14		Tue. 11-11-14		Wed. 11-12-14		Thu. 11-13-14		Fri. 11-14-14		Sat. 11-15-14		Sun. 11-16-14
Weekday:	Shift:	Initials:			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.	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	Sat	Sat	Sat	
			FR-802 Icon red and PDT-832 AP > .050	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	
		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	Sat	Sat	Sat
			FR-804 Icon red and PDT-835 AP > .050	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	
		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	Sat	Sat	Sat
			FR-806 Icon red and PDT-837 AP > .050	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	
		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	Sat	Sat	Sat
			FR-808 Icon red and PDT-839 AP > .050	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	
		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	Sat	Sat	Sat
			FR-812 Icon red and PDT-841 AP > .050	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	



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

(Page 3 of 3)

Note		Date:	11/10/14		11/11/14		11/12/14		11/13/14		11/14/14		11/15/14		11/16/14			
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
		Initials:	U	P	C	P	P	P	P	P	P	P	P	P	P	P		
SRs	Description	Area	Gauge	SURVEILLANCE RESULTS														
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	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
			PDI-820-2	Sat	Sat	Sat	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	Unsat	Unsat
			PDI-804-2	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
			PDI-853-2	Unsat	Unsat	Unsat	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	Unsat	Unsat	Unsat
			PDI-864-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-852-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
			PDI-854-2	Unsat	Unsat	Unsat	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	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	0736	0721	0730	0731	0729	0740	0730	0730	0730	0730	0730	0730	0730	0730	0730

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: at Date 11-16-14 Time 1930 Reviewed by: 1830 Date: 0635 Time: 11/18/14

On-duty Supervisor

Comments:



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

(Page 1 of 4)

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

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

		Date:	11-10-14	11-11-14	11-12-14	11-13-14	11-14-14	11-15-14	11-16-14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	<i>[Signature]</i>	PT	PH	PH	PH	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)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
Completion Time:		0702	0757	0914	0843	0758	0730	0802	

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)											
				Date:											
				Weekday:											
				Initials:											
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.					
				pm	PT	PT	PT	PT	PT	PT					
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & >0 <sup>1</sup> in. wc	.07	.07	.07	.07	.07	.07	.07	.09				
		PDI-894-2	≤2.0 & >0 <sup>1</sup> in. wc	.51	.51	.51	.51	.51	.51	.51	.51				
		PDI-895-1	≤2.0 & >0 <sup>1</sup> in. wc	.10	.10	.10	.10	.10	.10	.10	.10	.11			
		PDI-895-2	≤2.0 & >0 <sup>1</sup> in. wc	.59	.59	.53	.53	.53	.53	.53	.53	.53			
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤2.0 & >0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31	.31				
		PDI-817-2	≤2.0 & >0 <sup>1</sup> in. wc	.32	.33	.33	.33	.33	.33	.33	.33	.33			
		PDI-817-4	≤2.0 & >0 <sup>1</sup> in. wc	.33	.33	.33	.34	.33	.33	.33	.33	.33			
		PDI-817-5	≤2.0 & >0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31			
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-81 9-1	≤2.0 & >0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41	.41				
		PDI-81 9-3	≤2.0 & >0 <sup>1</sup> in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41			
		PDI-819-4	≤2.0 & >0 <sup>1</sup> in. wc	.35	.35	.35	.35	.35	.35	.35	.35	.35			
		PDI-818-1	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY			
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY				
		PDI-818-4	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY			
		PDI-818-5	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY			
		PDI-821-1	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY			
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	≤2.0 & >0 <sup>1</sup> in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY				
		PDI-821-4	≤2.0 & >0 <sup>1</sup> 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 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	11-11-14	11-12-14	11-13-14	11-14-14	11-15-14	11-16-14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:		gpr	PT	PT	PT	PT	PT
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc	.77	.77	.77	.77	.78	.79	.79
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc	.42	.42	.42	.43	.44	.43	.42
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc	.48	.48	.48	.48	.48	.48	.49
		PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc	.65	.65	.65	.65	.65	.66	.66
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc	.31	.30	.30	.30	.30	.30	.31
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc	.29	.28	.28	.28	.29	.29	.29
		PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc	.97	.97	.97	.97	.97	.97	.97
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc	.57	.58	.58	.58	.58	.58	.58
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc	.56	.57	.57	.57	.57	.57	.57
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc	.50	.51	.51	.50	.50	.50	.50
	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	.41	.40	.40	.41
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39	.39	.39

(Page 4 of 4)

**Non-TSR requirement:**

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

Completed by: Paul Trujillo Date 11-16-14 Time 0748 Reviewed by: [Signature] Date: 11/13/14 Time: 0637  
On-duty Supervisor

### Comments





(Page 2 of 4)

July - December 2014

[illegible]

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:						
					Weekday:						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	✓	11-10-14	11-11-14	11-12-14	11-13-14	11-14-14	11-15-14	11-16-14
		PDI-812-2	≤2.0 & > 0' in. wc								
		PDI-812-3	≤2.0 & > 0' in. wc								
		PDI-812-4	≤2.0 & > 0' in. wc								
		PDI-812-5	≤2.0 & > 0' in. wc								
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc								
		PDI-813-2	≤2.0 & > 0' in. wc								
		PDI-813-3	≤2.0 & > 0' in. wc								
		PDI-813-4	≤2.0 & > 0' in. wc								
		PDI-813-5	≤2.0 & > 0' in. wc								
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc								
		PDI-865-2	≤2.0 & > 0' in. wc								
		PDI-865-3	≤2.0 & > 0' in. wc								
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc								
		PDI-863-2	≤2.0 & > 0' in. wc								

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS						
					Date:	11-10-14	11-11-14	11-12-14	11-13-14	11-14-14	11-15-14
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0 <sup>1</sup> in. wc	<i>[Signature]</i>							
		PDI-857-2	≤ 2.0 & > 0 <sup>1</sup> in. wc			.14	.14	.14	.13	.14	.15
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0 <sup>1</sup> in. wc			.48	.48	.45	.48	.48	.48
		PDI-856-2	≤ 2.0 & > 0 <sup>1</sup> in. wc			.08	.08	.08	.08	.08	.08
4.3.2.2	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>2</sup> combustibles in designated exclusion area (within 15 feet of fans)			.50	.52	.51	.51	.51	.51
	Rooms 201, 204, 206, & 207		0 lb/ft <sup>2</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less								
Completion time						SAT	SAT	SAT	SAT	SAT	SAT
OC Operator Review and Page Count Complete (initials)						0724	0902	0914	0910	0926	0905
Non TSR requirement						<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

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

Completed by: *Paul Trigg* Date: *11-16-14* Time: *0805* Reviewed by: *RSB* Date: *11/18/14* Time: *0639*

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:	6/17/15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:
		042253	V-701 Thermistor File No.:
		6/26/15	Calibration Expiration Date:
		040373	V-704 Thermistor File No.:
		6/26/15	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature									
Daily (September through April only)		Date:	11/10/14	11/11/14	11/12/2014	11/13/2014	11/14/14	11/15/14	11/16/14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	BF	U	BF	BF	U	U	U
SR	Description	Acceptance Criteria							
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.							
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	51.07	51.01	49.69	47.16	45.9	46.9	46.9
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	52.82	52.81	51.38	48.46	47.2	46.8	46.3
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	61.99	60.77	58.88	56.90	59.6	60.4	59.3
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	67.17	65.82	64.13	59.57	63.7	65.4	65.5
		Completion Time:	0800	0846	0900	0845	0849	0810	1030
		OC Operator Review and Page Count Complete (initials)	U						

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

Completed by: BBB

Date: 11-16-14

Time: 1030

Reviewed by: BBB

Date: 11/18/14

Time: 0639

On-duty Supervisor

Comments:

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

(Page 1 of 3)

Note	Date:	11-17-14		11-18-14		11-19-14		11-20-14		11-21-14		11-22-14		11-23-14	
		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
SRs	Description	Initials:		Initials:		Initials:		Initials:		Initials:		Initials:		Initials:	
		Gauge Acceptance Criteria		Gauge Acceptance Criteria		Gauge Acceptance Criteria		Gauge Acceptance Criteria		Gauge Acceptance Criteria		Gauge Acceptance Criteria		Gauge Acceptance Criteria	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc	1.99	1.98	-1.97	1.98	-1.97	1.98	-1.97	1.98	-1.97	1.98	-1.97	1.98
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc	1.94	1.93	-1.93	1.92	-1.92	1.93	-1.93	1.93	-1.93	1.93	-1.92	1.93
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc	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	≤ -1.0 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
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc	1.19	1.18	-1.18	1.20	-1.21	1.19	-1.21	1.21	-1.21	1.20	-1.21	1.19
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc	1.21	1.21	-1.21	1.23	-1.25	1.21	-1.24	1.23	-1.23	1.23	-1.23	1.22
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc	1.23	1.23	-1.23	1.22	-1.24	1.22	-1.24	1.22	-1.22	1.22	-1.21	1.23
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc	1.21	1.20	-1.20	1.20	-1.22	1.21	-1.22	1.21	-1.21	1.20	-1.20	1.23
4.1.1.3 4.1.2.3 <sup>2</sup>	IFTT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	1.19	1.19	-1.19	1.19	-1.19	1.19	-1.19	1.19	-1.19	1.19	-1.19	1.22
	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	1.12
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	1.11	1.11	-1.11	1.11	-1.11	1.11	-1.11	1.11	-1.11	1.11	-1.11	1.12
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	1.110	1.108	-1.104	1.108	-1.114	1.107	-1.118	1.114	-1.111	1.108	-1.114	1.131



(Page 2 of 3)

[illegible]

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

(Page 3 of 3)

Note		Date:	11-17-14		11-18-14		11-19-14		11-20-14		11-21-14		11-22-14		11-23-14		
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		Initials:	BCJ		BCJ		BCJ		BCJ		BCJ		BCJ		BCJ		
SRs	Description	Area	Gauge	Acceptance Criteria	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-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		0725	0724	0725	0722	0730	0727	0724	0726	0716	0714	0714	0714	1926	

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: BCJDate: 11/23/14Time: 1926Reviewed by: BCJDate: 11/23/14Time: 1925

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

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

SR	Description / Gauge	Date:	11-17-14	11-18-14	11-19-14	11-20-14	11-21-14	11-22-14	11-23-14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	PT	RL	PT	RL	BL	SL
		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)								
	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
		$\geq -0.1$ ; $\leq +0.1$	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.	(Sat.) / Unsat.
		Completion Time:	0726	0835	0815	0754	0819	0847	0824

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				PT	PT	PT	PT	PT	PT	PT							
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	.07	.07	.07	.09	.07	.07	.05							
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc	.51	.51	.51	.51	.51	.51	.51							
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc	.11	.11	.11	.11	.11	.11	.11							
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc	.52	.52	.52	.52	.52	.52	.52							
		PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31							
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc	.32	.32	.32	.32	.32	.32	.32							
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc	.32	.32	.32	.32	.32	.32	.32							
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31							
		PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	.41	.41	.41	.41							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	.41	.41	.41	.41							
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc	.33	.34	.35	.35	.35	.35	.35							
		PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc	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.
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				Initials:	PT	PT	BL	PT	BL	BL
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0.1$ in. wc		.79	.79	.79	.79	STBY	STBY
		PDI-822-2	$\leq 2.0$ & $> 0.1$ in. wc		.51	.51	.51	.51	STBY	STBY
		PDI-822-4	$\leq 2.0$ & $> 0.1$ in. wc		.42	.42	.43	.43	STBY	STBY
		PDI-822-5	$\leq 2.0$ & $> 0.1$ in. wc		.48	.48	.48	.49	STBY	STBY
		PDI-823-1	$\leq 2.0$ & $> 0.1$ in. wc		STBY	STBY	STBY	STBY	.10	.09
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0.1$ in. wc		STBY	STBY	STBY	STBY	.47	.46
		PDI-823-4	$\leq 2.0$ & $> 0.1$ in. wc		STBY	STBY	STBY	STBY	.49	.50
		PDI-823-5	$\leq 2.0$ & $> 0.1$ in. wc		STBY	STBY	STBY	STBY	.50	.50
		PDI-830-1	$\leq 2.0$ & $> 0.1$ in. wc		.66	.66	.66	.66	.65	.64
		PDI-830-2	$\leq 2.0$ & $> 0.1$ in. wc		.31	.31	.31	.31	.31	.30
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-3	$\leq 2.0$ & $> 0.1$ in. wc		.29	.29	.29	.29	.29	.28
		PDI-836-1	$\leq 2.0$ & $> 0.1$ in. wc		.97	.97	.97	.97	.97	.97
		PDI-836-2	$\leq 2.0$ & $> 0.1$ in. wc		.58	.58	.59	.59	.57	.58
		PDI-836-3	$\leq 2.0$ & $> 0.1$ in. wc		.58	.58	.58	.58	.56	.54
		PDI-837-1	$\leq 2.0$ & $> 0.1$ in. wc		.51	.51	.50	.51	.50	.51
4.1.1.7	300 area re-circulation filter plenum (IIVP-805) AP	PDI-837-2	$\leq 2.0$ & $> 0.1$ in. wc		.41	.41	.41	.41	.41	.41
		PDI-837-3	$\leq 2.0$ & $> 0.1$ in. wc		.39	.39	.39	.39	.39	.39



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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
				Weekday:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				Initials:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
4.1.1.7	400 area re-circulation filter plenum ( HVP-807) AP	'PDI-838-1	$\leq 2.0$ & $> 0^1$ in. wc	11-17-14	11-18-14	11-19-14	11-20-14	11-21-14	11-22-14	11-23-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		PDI-838-2	$\leq 2.0$ & $> 0^1$ in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		PDI-838-3	$\leq 2.0$ & $> 0^1$ in. wc	PT	PT	PT	PT	PT	PT	PT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	400 area re-circulation filter plenum ( HVP-808) AP	'PDI-839-1	$\leq 2.0$ & $> 0^1$ in. wc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		PDI-839-2	$\leq 2.0$ & $> 0^1$ in. wc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		PDI-839-3	$\leq 2.0$ & $> 0^1$ in. wc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	'PDI-810-1	$\leq 2.0$ & $> 0^1$ in. wc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		PDI-810-2	$\leq 2.0$ & $> 0^1$ in. wc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		PDI-810-3	$\leq 2.0$ & $> 0^1$ in. wc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
4.1.3.4	South Bleed off filter plenum ( FF-822B) AP	'PDI-811-1	$\leq 2.0$ & $> 0^1$ in. wc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		PDI-811-2	$\leq 2.0$ & $> 0^1$ in. wc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		PDI-811-3	$\leq 2.0$ & $> 0^1$ in. wc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			Completion Time	0744	0847	0831	0822	0751	0904	0845																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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: [Signature] Date: 11-23-14 Time: 0547 Reviewed by: BB.D Date: 11-24-14 Time: 1427

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.
					11-17-14	11-18-14	11-19-14	11-20-14	11-21-14	11-22-14	11-23-14
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					HA	BA	PT	RL		mm	mm
4.1.1.7	Vault re-circulation filter plenum (IIVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	.19	.16	.15	.14	.15	.16	.15	
		PDI-840-2	≤2.0 & > 0' in. wc	.53	.57	.57	.57	.57	.56	.56	
		PDI-840-3	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	
	Vault re-circulation filter plenum (IIVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (IIVP-801) ΔP	PDI-831-1	≤2.0 & > 0' in. wc	.32	.33	.33	.33	.31	.32	.32	
		PDI-831-2	≤2.0 & > 0' in. wc	.39	.40	.40	.40	.40	.40	.39	
		PDI-831-3	≤2.0 & > 0' in. wc	.42	.43	.34	.33	.33	.35	.33	
200 area re-circulation filter plenum (IIVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	.31	.31	.32	.31	.31	.31	.31		
	PDI-832-2	≤2.0 & > 0' in. wc	.58	.60	.60	.60	.60	.60	.60		
	PDI-832-3	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.53	.53	.53		
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	.10	.10	.10	
		PDI-807-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	.45	.47	.47	
		PDI-807-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	.43	.43	.43	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	.06	.07	.07	.07	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0' in. wc	.50	.50	.50	.50	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	.45	.45	.42	.44	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.					
					64	24	PT	24	PK							
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤ 2.0 & > 0' in. wc	.14	.16	.14	.13	.15		.12						
		PDI-829-2	≤ 2.0 & > 0' in. wc	.35	.34	.38	.35	.38		.38						
		PDI-829-3	≤ 2.0 & > 0' in. wc	.30	.30	.30	.29	.30		.30						
		PDI-833-1	≤ 2.0 & > 0' in. wc	.99	1.0	1.0	1.0	1.0		1.00						
		PDI-833-2	≤ 2.0 & > 0' in. wc	.47	.46	.46	.45	.45		.43						
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤ 2.0 & > 0' in. wc	.45	.43	.43	.42	.44		.43						
		PDI-835-1	≤ 2.0 & > 0' in. wc	.25	.15	.15	.15	.15		.15						
		PDI-835-2	≤ 2.0 & > 0' in. wc	.45	.45	.45	.44	.44		.43						
		PDI-835-3	≤ 2.0 & > 0' in. wc	.40	.40	.40	.40	.40		.40						
		PDI-815-1	≤ 2.0 & > 0' in. wc	.19	.18	.19	.19	STBY		STBY						
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤ 2.0 & > 0' in. wc	.40	.39	.40	.40	STBY		STBY						
		PDI-815-4	≤ 2.0 & > 0' in. wc	.31	.32	.32	.32	STBY		STBY						
		PDI-815-5	≤ 2.0 & > 0' in. wc	.35	.37	.37	.38	STBY		STBY						
		PDI-816-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	.31		STBY						
		PDI-816-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	.41		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	.41		STBY						
		PDI-816-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	.41		STBY						

1/2/14 (Page 3 of 4)

July - December 2014

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)								
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					11/17/14	11/18/14	11-19-14	11-20-14	11-21-14	11/22/14	11/23/14		
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	6A	2H	PT	2H	OK					
		PDI-812-2	≤2.0 & > 0' in. wc	.31	.16	.16	.16	.16	.16	.16	.16	.16	
		PDI-812-3	≤2.0 & > 0' in. wc	.39	.37	.38	.37	.37	.37	.37	.37	.37	
		PDI-812-4	≤2.0 & > 0' in. wc	.38	.35	.39	.37	.37	.37	.37	.37	.37	
		PDI-812-5	≤2.0 & > 0' in. wc	.39	.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	.31	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-813-2	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-813-3	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-813-4	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-813-5	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	.04	.03	.03	.03	.03	.03	.03	.03	.03	
		PDI-865-2	≤2.0 & > 0' in. wc	.34	.31	.35	.32	.32	.32	.32	.32	.32	
		PDI-865-3	≤2.0 & > 0' in. wc	.40	.40	.41	.40	.40	.40	.40	.40	.40	
4.1.3.4	IFTT supply filter plenum (IHP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05	
		PDI-863-2	≤2.0 & > 0' in. wc	.25	.25	.25	.24	.24	.24	.24	.24	.24	

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Initials:						
				Date: Weekday:						
				11-17-14 Mon.	11-18-14 Tue.	11-19-14 Wed.	11-20-14 Thu.	11-21-14 Fri.	11-22-14 Sat.	11-23-14 Sun.
				HA	SAT	PT	BH	PH	MW	MW
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	.15	.14	.13	.15	.16	.13	.10
		PDI-857-2	≤ 2.0 & > 0' in. wc	.46	.47	.48	.49	.48	.47	.47
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	.10	.08	.08	.08	.07	.05	.05
		PDI-856-2	≤ 2.0 & > 0' in. wc	.52	.52	.49	.51	.50	.49	.49
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>2</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>2</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time				0835	0857	0845	0825	0827	0807	0838
OC Operator Review and Page Count Complete (initials)				PH, HA, PH, PH, PH, PH, PH, PH, PH, PH, PH, PH	PH, HA, PH, PH, PH, PH, PH, PH, PH, PH, PH, PH	PH, HA, PH, PH, PH, PH, PH, PH, PH, PH, PH, PH	PH, HA, PH, PH, PH, PH, PH, PH, PH, PH, PH, PH	PH, HA, PH, PH, PH, PH, PH, PH, PH, PH, PH, PH	PH, HA, PH, PH, PH, PH, PH, PH, PH, PH, PH, PH	PH, HA, PH, PH, PH, PH, PH, PH, PH, PH, PH, PH

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

Completed by: Michael M. J. Date 11/23/14 Time 0838 Reviewed by: RBQ Date: 11/24/14 Time: 1430

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.:	042253	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature												
Daily (September through April only)			Date:	11/17/2014	11/18/2014	11/19/2014	11/20/2014	11/21/14	11/22/14	11/23/14		
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:	B.F.	B.F.	B.F.	B.F.	FL	FL	FL		
			Acceptance Criteria									
SR	Description	Calibration dates have not elapsed.	(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.	≥ 42.1 F	45.82	46.48	46.40	46.92	46.5	46.8	46.0	45.7		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	46.41	45.91	46.44	46.95	46.8	47.2	46.3	46.1		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	58.72	58.24	58.85	59.58	59.9	60.3	60.2	60.2		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	65.32	64.98	64.63	64.69	65.5	61.5	62.7	62.7		
Completion Time:			0815	0855	0845	0841	0834	1021	0930			
OC Operator Review and Page Count Complete (initials)			FL	FL	FL	FL	FL	FL	FL	FL		

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

Completed by: FL Date: 11/23/14 Time: 0830

Reviewed by: FL Date: 11/24/14 Time: 1431

On-duty Supervisor

Comments:

(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:	11-24-14	11-25-14	11-26-14	11-27-14	11-28-14	11-29-14	11-30-14																	
	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.																	
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM																
	Initials:	AL	AL	AL	BC	AL	AL	AL	AL																
SRs	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																						
			PDI-814-1 or PDI-814-2		PDI-820-1 or PDI-820-2		PDI-870-1 or PDI-870-2		PDI-864-1 or PDI-864-2		PDI-803-1 or PDI-803-2		PDI-802-1 or PDI-802-2		PDI-853-1 or PDI-853-2		PDI-852-1 or PDI-852-2		IFT Facility AP		North basement AP		South basement AP		IRT Tunnel AP
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	≤-1.0 in. wc <sup>1</sup>	-1.97	-1.94	-1.96	-1.98	-1.97	-1.93	-1.96	-1.97	-1.96	-1.97	-1.96	-1.97	-1.96	-1.97	-1.96	-1.97	-1.96	-1.97	-1.96	-1.97	-1.96	-1.97	-1.96
	100 area glovebox exhaust header AP	≤-1.0 in. wc <sup>1</sup>	-1.93	-1.93	-1.93	-1.92	-1.93	-1.93	-1.92	-1.94	-1.92	-1.93	-1.93	-1.92	-1.94	-1.93	-1.92	-1.94	-1.93	-1.92	-1.94	-1.93	-1.92	-1.93	-1.92
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area glovebox exhaust header AP	≤-1.0 in. wc <sup>1</sup>	-1.94	-1.97	-1.98	-1.97	-1.97	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98
	400 area glovebox exhaust header AP	≤-1.0 in. wc <sup>1</sup>	-1.97	-1.96	-1.98	-1.98	-1.97	-1.97	-1.97	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98
4.1.1.3 4.1.2.3 <sup>2</sup>	200 area laboratory header AP	≤-0.05 in. wc <sup>1</sup>	-2.21	-2.25	-2.20	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21
	100 area laboratory header AP	≤-0.05 in. wc <sup>1</sup>	-2.23	-2.22	-2.22	-2.23	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	300 area laboratory header AP	≤-0.05 in. wc <sup>1</sup>	-2.23	-2.22	-2.22	-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	-2.23	-2.23	-2.23	-2.23	-2.23
	400 area laboratory header AP	≤-0.05 in. wc <sup>1</sup>	-2.21	-2.20	-2.20	-2.21	-2.20	-2.21	-2.20	-2.21	-2.20	-2.21	-2.20	-2.21	-2.20	-2.21	-2.20	-2.21	-2.20	-2.21	-2.20	-2.21	-2.20	-2.21	-2.20
4.1.1.3 4.1.2.3 <sup>2</sup>	IFT Facility AP	≤-0.05 in. wc	-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	-1.19	-1.19	-1.19
	North basement AP	< 0.00 in. wc	-1.10	-1.09	-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	-1.10	-1.10
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	< 0.00 in. wc	-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	-1.10	-1.10
	IRT Tunnel AP	< 0.00 in. wc	-1.15	-1.04	-1.09	-1.14	-1.07	-1.07	-1.13	-1.10	-1.09	-1.07	-1.06	-1.07	-1.08	-1.07	-1.08	-1.07	-1.08	-1.07	-1.08	-1.07	-1.08	-1.07	-1.08

(Page 2 of 3)

[illegible]

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

(Page 3 of 3)

Note		Date:	11-24-14		11-26-14		11-27-14		11-28-14		11-29-14		11-30-14	
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.	
		Shift:	AM PM		AM PM		AM PM		AM PM		AM PM		AM PM	
		Initials:	U D		U D		U D		U D		U D		U D	
SRs	Description	Area	Gauge	Acceptance Criteria	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-814-2 < PDI-803-2 < PDI-804-2	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
		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
		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
		Completion Time		0130 1430		0130 0722		1924 0717		0730 1925		1227 1430		

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: PLC Date: 11/30/14 Time: 1930 Reviewed by: [Signature] Date: 12/1/14 Time: 0700

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

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

SR	Description / Gauge	Date:	11-24-14	11-25-14	11-26-14	11-27-14	11-28-14	11-29-14	11-30-14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	nm	Adh	nm	EC	gn	Dr	gn
		SURVEILLANCE RESULTS (percentage)							
4.4.1.1	Flammable Gas Channel Check	Acceptance Criteria	NA						
	DET-305-3 (LCD Reading)	Record Calculated Value ≥ -0.1; ≤ +0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) – (CP-305H) (LCD Reading) (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Completion Time:	0753	0757	0748	0746	0747	0740	0743



## 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:			
				11-24-14	11-25-14	11-26-14	11-27-14	11-28-14	11-29-14	11-30-14	
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				nm	Rk	nm	Bc	DAO	P	0.00	
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	≤ 2.0 & > 0' in. wc	.05	.06	.06	.06	.06	.06	.05	
		PDI-894-2	≤ 2.0 & > 0' in. wc	.50	.51	.50	.51	.50	.50	.50	
	South Corridor supply (HVP-810) AP	'PDI-895-1	≤ 2.0 & > 0' in. wc	.05	.05	.05	.05	.05	.05	.05	
		PDI-895-2	≤ 2.0 & > 0' in. wc	.60	.59	.59	.60	.60	.60	.60	
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1	≤ 2.0 & > 0' in. wc	STBY	.30	.30	.30	.30	.30	.30	
		PDI-817-2	≤ 2.0 & > 0' in. wc	STBY	.32	.34	.34	.33	.32	.33	
		PDI-817-4	≤ 2.0 & > 0' in. wc	STBY	.32	.32	.33	.33	.35	.33	
		PDI-817-5	≤ 2.0 & > 0' in. wc	STBY	.31	.31	.31	.31	.31	.31	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-81 9-1	≤ 2.0 & > 0' in. wc	STBY	.41	.41	.41	.40	.40	.41	
		PDI-81 9-3	≤ 2.0 & > 0' in. wc	STBY	.41	.41	.41	.41	.41	.41	
		PDI-819-4	≤ 2.0 & > 0' in. wc	STBY	.35	.35	.35	.35	.37	.36	
		'PDI-818-1	≤ 2.0 & > 0' in. wc	.26	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	.31	STBY	STAY	STBY	STBY	STBY	STBY	
		PDI-818-4	≤ 2.0 & > 0' in. wc	.31	STAY	STAY	STBY	STBY	STBY	STBY	
		PDI-818-5	≤ 2.0 & > 0' in. wc	.30	STAY	STAY	STBY	STBY	STBY	STBY	
		PDI-821-1	≤ 2.0 & > 0' in. wc	.40	STAY	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	.45	STAY	STBY	STBY	STBY	STBY	STBY	
		PDI-821-4	≤ 2.0 & > 0' in. wc	.39	STBY	STAY	STBY	STBY	STBY	STBY	

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)		
				Weekday:									
				Initials:									
				11-24-14	11-25-14	11-26-14	11-27-14	11-28-14	11-29-14	11-30-14			
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
				mm	ph	mm	BC	BAH	0	BAH			
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	.80	.80	.79	.79	.79	.80			
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	.51	.51	.51	.52	.52	.52			
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	.46	.44	.44	.44	.45	.45			
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	.48	.48	.48	.48	.48	.48			
		PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc	.10	STBY	STBY	STBY	STBY	STBY	STBY			
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc	.47	STBY	STBY	STBY	STBY	STBY	STBY			
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc	.49	STBY	STBY	STBY	STBY	STBY	STBY			
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc	.50	STBY	STBY	STBY	STBY	STBY	STBY			
		PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc	.65	.65	.65	.65	.65	.65	.65			
		PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc	.30	.30	.30	.31	.31	.30	.30			
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc	.28	.28	.28	.28	.28	.28	.28			
		PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc	.97	.97	.97	.97	.97	.97	.97			
		PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc	.57	.58	.57	.57	.58	.58	.58			
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc	.55	.56	.55	.55	.55	.55	.55			
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc	.51	.50	.51	.51	.50	.50	.50			
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	.41	.40	.40	.40			
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc	.49	.39	.38	.38	.39	.35	.38			

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

(Page 4 of 4)

				Date:	11-24-14	11-25-14	11-26-14	11-27-14	11-28-14	11-29-14	11-30-14	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	nm	ph	nm	ph	nm	ph	nm	
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
4.1.1.7	400 area re-circulation filter plenum ( HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-838-2	≤2.0 & > 0' in. wc	.40	.41	.40	.40	.40	.40	.40	.40	
		PDI-838-3	≤2.0 & > 0' in. wc	.38	.39	.38	.39	.39	.39	.39	.39	
	400 area re-circulation filter plenum ( HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.30	.30	.30	
		PDI-839-2	≤2.0 & > 0' in. wc	.47	.48	.47	.47	.47	.48	.48	.48	
		PDI-839-3	≤2.0 & > 0' in. wc	.42	.42	.42	.42	.42	.42	.42	.42	
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc	.17	.17	.16	.16	.16	.16	.16	.16	
		PDI-810-2	≤2.0 & > 0' in. wc	.50	.50	.49	.49	.49	.50	.50	.50	
		PDI-810-3	≤2.0 & > 0' in. wc	.50	.50	.49	.49	.49	.50	.50	.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
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
			Completion Time	0820	0749	0740	0806	0819	0802	0804	0800	
OC Operator Review and Page Count Complete (initials)				0800	0800	0800	0800	0800	0800	0800	0800	

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: W.D.D. Date: 11/30/14 Time: 0804 Reviewed by: [Signature] Date: 12/1/14 Time: 0700

On-Shift Supervisor

Comments

(Page 1 of 4)

[illegible]

(Page 2 of 4)

[illegible]



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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date: Weekday: Initials:	SURVEILLANCE RESULTS (in. wc)						
					Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Sun.
					rk	nm	rk	rk	rk	rk	rk
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc		STBY	.16	.15	.16	.16	.16	.16
		PDI-812-2	≤2.0 & > 0' in. wc		STBY	.37	.38	.38	.38	.37	.37
		PDI-812-3	≤2.0 & > 0' in. wc		STBY	.37	.37	.38	.38	.38	.38
		PDI-812-4	≤2.0 & > 0' in. wc		STBY	.38	.39	.38	.39	.38	.38
		PDI-812-5	≤2.0 & > 0' in. wc		STBY	.32	.32	.32	.32	.32	.32
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc		.79	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & > 0' in. wc		.32	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0' in. wc		.30	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0' in. wc		.32	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0' in. wc		.28	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc		.04	.03	.02	.03	.03	.03	.03
		PDI-865-2	≤2.0 & > 0' in. wc		.32	.34	.31	.31	.31	.31	.31
		PDI-865-3	≤2.0 & > 0' in. wc		.40	.40	.37	.39	.39	.39	.39
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc		.05	.05	.05	.05	.05	.05	.05
		PDI-863-2	≤2.0 & > 0' in. wc		.25	.24	.23	.23	.23	.23	.23

## 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 (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0.1 in. wc	11	.11	.11	.13	.13	.13	.13	.13
		PDI-857-2	≤ 2.0 & > 0.1 in. wc	.49	.47	.48	.48	.48	.48	.48	.48
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0.1 in. wc	.10	.05	.05	.05	.05	.05	.05	.05
		PDI-856-2	≤ 2.0 & > 0.1 in. wc	.50	.50	.50	.50	.50	.50	.50	.50
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time					0807	0825	0752	0809	0811	0800	0801
OC Operator Review and Page Count Complete (initials)					R	0	BU	0	0	0	0

Non TSR requirement

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

Completed by: Scot McNa Date 11/29/14 Time 0801 Reviewed by: [Signature] Date: 12/1/14 Time: 0700

Comments:

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.:	042253	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
Daily (September through April only)											
SIR	Description	Acceptance Criteria	Date:	Weekday:	Initials:	11/24/14	11/25/2014	11/26/2014	11/27/14	11/28-14	11/29/14
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	47.7								
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	46.4								
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	57.8								
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	58.5								
Completion Time:			0807								
OC Operator Review and Page Count Complete (initials)			RS								
SAT/UNSAT			SAT	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT
47.2			47.2						47.0		47.7
47.7			47.2						47.5		61.9
63.4			60.1						60.3		0945
0945			64.4						66.9		0945
			0757						0935		0945
			0800						0800		0800
			0800						0800		0800

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: 11-30-14 Time: 0945

Reviewed by: [Signature] Date: 12/1/14 Time: 0755

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.			
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.	N		
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.		A	
*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.			
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. 4.06 Seconds	Sat. / Unsat.	17:35	11/19/14	211
				Sat. / Unsat.	17:37	11/19/14	211

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OE Order 420 11B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANI, Building TA55-4 (PE-4); Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANI-DOE-ORDER-420, IB-EO-2013-001

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

(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is $\leq 30$ seconds.	Sat. / Unsat.			
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Seconds Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	Sat. / Unsat.	N		
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.		A	
OC Operator Review and Page Count Complete							a

Note: SR 4.1.3.2 applies during mids 1 and 2.

Completed by: *[Signature]*

Date: 11/19/14 Time: 1802

Reviewed by: *[Signature]*

Date: 11/19/14 Time: 1805

On-duty Supervisor Comments:

Partial to return DR-102 to service



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

July - December 2014  
TA-55-PF4 HEPA Filtration Differential Pressure Readings

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	14:30	11/19/14	BA
4.1.3.2	Confinement Door DR-344	Southeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	16:35	11/19/14	DL
4.1.3.2	Confinement Door DR-149	Northeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1354	11-19-14	mm
*Note	Confinement DR-102	Northwest	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1410	11-19-14	mm
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.	14:19:14 <input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1411	11-19-14	mm
			4.15 Seconds	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	1413	11-19-14	mm

\*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to O.E. Order 420.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LONI. Building TA55-4 (PF-4). Installation of New Confinement Doors DR-102, DR-302, and DR-344 LONI-DOE-ORDER-420.1B-EO-2013-001

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

(Page 2 of 2)

SIRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).  AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is $\leq 30$ seconds.  7:35 Seconds	<input checked="" type="radio"/> Sat/ <input type="radio"/> Unsat.	1432	11-19-14	mm
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	<input checked="" type="radio"/> Sat/ <input type="radio"/> Unsat.	1434	11-19-14	mm
4.1.3.2	Confinement Door DR-90	South Basement Door (Tunnel)	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat/ <input type="radio"/> Unsat.	1519	11-19-14	mm
					1612	11/19/14	mm
OC Operator Review and Page Count Complete <i>JS</i>							

Note: SR 4.1.3 applies during mode 1 and 2.

Completed by: *[Signature]*

Date: 11/19/14 Time: 1500

Reviewed by: *[Signature]*

Date: 11/19/14 Time: 1804

On-duty Supervisor Comments: NOISEST CONFINEMENT DOOR DR-102 DID NOT LOCK VIA TWO AUTOMATIC DOOR CLOSURE. NOTIFIED OPSTHE DOOR WAS MANUALLY LOCKED BY P. TRAVILLA.

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

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

Completed by: DAD Date 11/1/14 Time 0435

Reviewed by: B.B.D. Date 11/3/14 Time 0845  
On-duty Supervisor

Comments:

TA55-STP-002, R11.1

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

Page 20 of 29

### Attachment B, Surveillance Training Checklist

(Page 1 of 2)

Procedure title:	SURVEILLANCE ROUNDS
Procedure no.:	TA55-STP-004, R17
Date of issue:	12/1/14
Working copy issued to:	R PRICE
Working copy issued by:	R PRICE
Certified Operations Center Operator	

#### Operations Center Operator Review

Signature

Date

Required Reading for this Surveillance has been completed.

#### Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R BRISCOE	u	12/1/14
B CHANCE	u	
D DUNLAVY	u	
A DUNSMITH	u	
J LOVATO	u	
R LUM	u	
A ORTIZ	u	
F SEYBERT	u	
J SMELTZ	u	
R PRICE	u	12/1/14

Comments:


Page 21 of 29



## 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:		12-01-14		12-02-14		12-03-14		12-04-14		12-05-14		12-06-14		12-07-14	
	Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
	Shift:		AM PM		AM PM		AM PM		AM PM		AM PM		AM PM		AM PM	
SRs	Description		Initials:													
	Gauge Acceptance Criteria															
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc	-1.98	1.96	1.98	1.97	1.96	1.99	-1.98	-1.96	-1.97	1.95	1.92	1.95	1.93
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc	-1.92	1.98	1.92	1.97	1.93	1.92	-1.93	-1.93	1.92	1.92	1.92	1.92	1.92
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc	-1.97	1.97	1.97	1.96	1.96	1.98	-1.99	-1.98	1.98	1.97	1.97	1.97	1.98
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc	-1.97	1.97	1.97	1.96	1.96	1.98	-1.98	-1.97	1.98	1.97	1.97	1.97	1.97
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc	1.21	0.21	0.21	0.21	0.21	0.21	-0.20	-0.20	0.21	0.20	0.20	0.20	0.20
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc	1.24	0.24	0.24	0.24	0.24	0.24	-0.21	-0.22	0.23	0.23	0.23	0.23	0.23
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc	1.23	0.23	0.23	0.23	0.23	0.23	-0.19	-0.18	0.20	0.19	0.20	0.20	0.20
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc	1.21	0.21	0.21	0.21	0.21	0.21	-0.19	-0.19	0.20	0.20	0.20	0.20	0.20
4.1.1.3 4.1.2.3 <sup>2</sup>	IFIT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	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
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	1.10	0.10	0.10	0.10	0.10	0.10	-0.08	-0.08	0.08	0.08	0.10	0.10	0.10
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	1.11	0.11	0.11	0.11	0.11	0.11	-0.08	-0.08	0.08	0.08	0.10	0.10	0.10
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	1.15	0.15	0.15	0.15	0.15	0.15	-0.06	-0.06	0.06	0.06	0.10	0.10	0.10

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

(Page 2 of 3)

Note	Date:	12-01-14		12-02-14		12-03-14		12-04-14		12-05-14		12-06-14		12-07-14	
	Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
SRs	Description	Shift:		Shift:		Shift:		Shift:		Shift:		Shift:		Shift:	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Readings	Acceptance Criteria	Initials:		Initials:		Initials:		Initials:		Initials:		Initials:		Initials:	
		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		FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .050		FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .050	
4.1.1.6	200 area re-circulation fan/plenum	Sat		Sat		Sat		Sat		Sat		Sat		Sat	
	100 area re-circulation fan/plenum	Sat		Sat		Sat		Sat		Sat		Sat		Sat	
	300 area re-circulation fan/plenum	Sat		Sat		Sat		Sat		Sat		Sat		Sat	
	400 area re-circulation fan/plenum	Sat		Sat		Sat		Sat		Sat		Sat		Sat	
	Vault re-circulation fan/plenum	Sat		Sat		Sat		Sat		Sat		Sat		Sat	

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

(Page 3 of 3)

Note		Date:	12-01-14		12-02-14		12-03-14		12-04-14		12-05-14		12-06-14		12-07-14		
Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
		Initials:	[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		
SRS	Description	Area	Gauge	Acceptance Criteria	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-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															
				0800	0729	0735	0730	0725	0730	0730	0730	0730	0730	0730	0730	0730	

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

Completed by: [Signature]

Date: 12/7/14 Time: 1935

Reviewed by: [Signature]

Date: 12-04-14 Time: 0720

On-duty Supervisor

Comments:

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

(Page 1 of 4)

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

SR	Description / Gauge	Date:	12-1-14	12-2-14	12-3-14	12-4-14	12-5-14	12-6-14	12-7-14	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	HA	mm	mm	mm	mm	PT	PT	PT
		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)	$\geq -0.1$ ; $\leq +0.1$	(Sat./Unsat.)	(Sat./Unsat.)	(Sat./Unsat.)	(Sat./Unsat.)	(Sat./Unsat.)	(Sat./Unsat.)	(Sat./Unsat.)	
Completion Time:		0743	0753	0745	0752	0825	0800	0800		



(Page 2 of 4)

[illegible]



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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)		
				Weekday:			Initials:						
				12-01-14	12-02-14	12-03-14	12-04-14	12-05-14	12-06-14	12-07-14			
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc	nm	nm	nm	nm	nm	nm	nm			
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc										
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc										
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc										
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc										
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc										

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

(Page 4 of 4)

		Date:		12-01-14	12-02-14	12-03-14	12-7-14	12-5-14	12-6-14	12-7-14
		Weekday:		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		mm	mm	mm	RTH	PT	PT	PT
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum ( HVP-807) AP	'PDI-838-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.40	.40	.40	.41	.40
		PDI-838-3	$\leq 2.0$ & $> 0^1$ in. wc	.39	.38	.38	.39	.39	.39	.39
	400 area re-circulation filter plenum ( HVP-808) AP	'PDI-839-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	$\leq 2.0$ & $> 0^1$ in. wc	.40	.47	.47	.47	.47	.48	.48
		PDI-839-3	$\leq 2.0$ & $> 0^1$ in. wc	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	'PDI-810-1	$\leq 2.0$ & $> 0^1$ in. wc	.17	.16	.15	.16	.14	.14	.14
		PDI-810-2	$\leq 2.0$ & $> 0^1$ in. wc	.50	.50	.48	.49	.47	.46	.46
		PDI-810-3	$\leq 2.0$ & $> 0^1$ in. wc	.49	.49	.48	.49	.42	.42	.42
4.1.3.4	South Bleed off filter plenum ( FF-822B) AP	'PDI-811-1	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			Completion Time	0820	0810	0820	0845	0911	0744	0748
OC Operator Review and Page Count Complete (initials)				AS	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.X apply during mode 1 and mode 2 as stated in LCO 3.1.3.

Completed by: Paul Fagella Date 12-7-14 Time 0748 Reviewed by: [Signature]

Date 12-8-14 Time: 0721

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:	12-1-14	12-2-14	12-3-14	12-4-14	12-5-14	12-6-14
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			Initials:		16A	mm	664	211	21	PT
4.1.1.7	Vault re-circulation filter plenum (IIVP-811) ΔP	PDI-840-1	<2.0 & >0' in. wc		.16	.16	.16	.14	.14	.16
		PDI-840-2	<2.0 & >0' in. wc	.53	.57	.57	.57	.57	.57	.57
		PDI-840-3	<2.0 & >0' in. wc	.50	.50	.50	.50	.50	.50	.50
	Vault re-circulation filter plenum (IIVP-812) ΔP	PDI-841-1	<2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	<2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	<2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (IIVP-801) ΔP	PDI-831-1	<2.0 & >0' in. wc	.32	.33	.33	.33	.33	.33	.33
		PDI-831-2	<2.0 & >0' in. wc	.39	.40	.40	.40	.40	.40	.40
		PDI-831-3	<2.0 & >0' in. wc	.35	.34	.34	.34	.33	.33	.32
4.1.3.4	200 area re-circulation filter plenum (IIVP-802) ΔP	PDI-832-1	<2.0 & >0' in. wc	.32	.31	.31	.32	.32	.32	.32
		PDI-832-2	<2.0 & >0' in. wc	.59	.60	.60	.60	.60	.60	.60
		PDI-832-3	<2.0 & >0' in. wc	.53	.55	.55	.55	.55	.55	.55
	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	<2.0 & >0' in. wc	.12	.11	.11	.11	.12	.11	.11
		PDI-807-2	<2.0 & >0' in. wc	.49	.49	.49	.49	.49	.49	.49
		PDI-807-3	<2.0 & >0' in. wc	.49	.48	.48	.48	.48	.48	.49
	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	<2.0 & >0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-2	<2.0 & >0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-809-3	<2.0 & >0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
			Initials:	16A		6A	EH	BA									
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	<2.0 & > 0' in. wc	.13	.18	.18	.15	.15	.15	.14							
		PDI-829-2	<2.0 & > 0' in. wc	.38	.38	.38	.39	.39	.39	.39							
		PDI-829-3	<2.0 & > 0' in. wc	.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	.45	.45	.45	.45	.45	.45	.45							
		PDI-833-2	<2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45							
		PDI-833-3	<2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45							
	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1	<2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45							
		PDI-835-2	<2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45							
		PDI-835-3	<2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45							
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	<2.0 & > 0' in. wc	.19	.18	.18	.18	.19	.19	.19							
		PDI-815-2	<2.0 & > 0' in. wc	.40	.39	.39	.39	.39	.39	.39							
		PDI-815-4	<2.0 & > 0' in. wc	.52	.32	.32	.32	.32	.32	.32							
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-5	<2.0 & > 0' in. wc	.35	.36	.36	.36	.38	.38	.38							
		PDI-816-1	<2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50							
		PDI-816-2	<2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50							
		PDI-816-4	<2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50							
		PDI-816-5	<2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50							

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

(Page 3 of 4)

SRs		Description	Gauge	Acceptance Criteria	Initials:	Date:						
						Weekday:						
						Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
						12-1-14	12-02-14	12-3-14	12-4-14	12-5-14	12-6-14	12-7-14
						Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
						164	nm	64	24	21	27	27
SURVEILLANCE RESULTS (In. wc)												
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) AP	PDI-812-1	<2.0 & > 0' in. wc	.15	.16	.17	.16	.16	.16	.16	.16	.16
		PDI-812-2	<2.0 & > 0' in. wc	.39	.38	.38	.38	.38	.38	.38	.38	.38
		PDI-812-3	<2.0 & > 0' in. wc	.40	.38	.38	.38	.38	.38	.38	.38	.38
		PDI-812-4	<2.0 & > 0' in. wc	.37	.39	.39	.39	.39	.39	.39	.39	.39
		PDI-812-5	<2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) AP	PDI-813-1	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-2	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-3	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-4	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-5	<2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	IFT exhaust filter plenum (FI-865) AP	PDI-865-1	<2.0 & > 0' in. wc	.03	.03	.03	.03	.03	.03	.03	.03	
		PDI-865-2	<2.0 & > 0' in. wc	.32	.32	.32	.32	.32	.32	.32	.32	
		PDI-865-3	<2.0 & > 0' in. wc	.37	.37	.37	.37	.37	.37	.37	.37	
4.1.3.4	IFT supply filter plenum (IIVP-863) AP	PDI-863-1	<2.0 & > 0' in. wc	.10	.05	.05	.05	.05	.05	.05	.05	
		PDI-863-2	<2.0 & > 0' in. wc	.25	.25	.25	.25	.25	.25	.25	.25	



## 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:	12-1-14	12-2-14	12-3-14	12-4-14	12-5-14	12-6-14	12-7-14				
4.1.3.4	North Basement supply filter plenum (HVP-840) AP	PDI-857-1	$\leq 2.0$ & $> 0$ in. wc	16A	Mon.	12-1-14	Tue.	12-2-14	Wed.	12-3-14	Thu.	12-4-14	Fri.	12-5-14	Sat.	12-6-14	Sun.
4.1.3.4	North corridor supply filter plenum (HVP-809) AP	PDI-857-2	$\leq 2.0$ & $> 0$ in. wc														
		PDI-856-1	$\leq 2.0$ & $> 0$ in. wc														
		PDI-856-2	$\leq 2.0$ & $> 0$ in. wc														
NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)														
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less														
OC Operator Review and Page Count Complete (initials)																	
Completion time					0930	0900	0900	0910	0910	0910	0910	0910	0910	0910	0910	0910	0910

Non TSR requirement

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

Completed by: Paul Ziegler Date 12-7-14 Time 0801 Reviewed by: [Signature] Date 12-8-14 Time 0722

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.:	042253	V-701 Thermistor File No.: 039744
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date: 6/26/15
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.: 040375
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date: 6/26/15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
Daily (September through April only)			Date:	12/1/2014	12/2/2014	12/3/2014	12/4/2014	12/5/14	12/6/14	12/7/14	
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	BF	BF	BF	BF	BF			
			Acceptance Criteria								
SR	Description	Calibration dates have not elapsed.	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.	≥ 42.1 F	46.70	46.37	46.24	46.27	45.6	47.0	47.4		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	47.15	46.96	46.72	47.02	46.9	46.6	46.3		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	60.66	60.47	61.13	61.72	60.2	60.7	60.8		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	67.70	66.32	53.51	67.33	66.1	66.5	63.7		
Completion Time:			0857	0845	0815	0805	0855	0834	0842		
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: Andrew SmithDate: 12/7/14Time: 0842Reviewed by: Robert C. SmithDate: 12-8-14Time: 0723

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:	12/8/14		12/9/14		12/10/14		12/11/14		12/12/14		12/13/14		12/14/14	
	Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Initials:	0940	K	0830	K	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)											
		PDI-814-1 or PDI-814-2	≤ -1.0 in. wc <sup>1</sup>	-1.95	-1.91	-1.93	-1.97	-1.94	-1.95	-1.94	-1.97	-1.92	-1.93	-1.97	-1.96
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc <sup>1</sup>	-1.99	-1.92	-1.92	-1.92	-1.93	-1.92	-1.92	-1.91	-1.92	-1.92	-1.93	-1.92
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc <sup>1</sup>	-2.00	-1.98	-1.97	-1.97	-1.98	-1.98	-1.97	-1.97	-1.98	-1.97	-1.98	-1.99
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc <sup>1</sup>	-1.97	-1.98	-1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97
	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc <sup>1</sup>	-2.00	-2.1	-2.0	-2.2	-2.0	-2.0	-2.2	-2.0	-2.0	-2.0	-2.0	-2.0
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc <sup>1</sup>	-2.03	-2.4	-2.3	-2.4	-2.4	-2.4	-2.4	-2.3	-2.3	-2.3	-2.2	-2.3
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc <sup>1</sup>	-1.9	-2.0	-1.9	-2.2	-2.2	-2.0	-2.2	-2.2	-2.0	-2.0	-2.0	-2.0
4.1.1.3 4.1.2.3 <sup>2</sup>	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc <sup>1</sup>	-2.0	-2.1	-2.0	-2.2	-2.2	-2.2	-2.2	-2.0	-2.0	-2.0	-2.0	-2.0
	IFT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	-1.9	-1.9	-1.9	-2.2	-2.2	-2.2	-2.2	-2.0	-2.0	-2.0	-2.0	-2.0
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-2.0	-2.0	-2.0	-2.1	-2.0	-2.0	-2.0	-2.1	-2.0	-2.0	-2.0	-2.0
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-2.0	-2.0	-2.0	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1
4.1.1.3 4.1.2.3 <sup>2</sup>	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	-1.95	-1.14	-1.05	-2.08	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17	-1.17

(Page 2 of 3)

[illegible]



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

(Page 3 of 3)

Note		Date:	12/8/14		12/9/14		12/10/14		12/11/14		12/12/14		12/13/14		12/14/14	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	000	U	000	U	000	U	000	U	000	U	000	U	000	U
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	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	
		100 Area	PDI-820-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-802-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
	300 Area	PDI-870-2	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		
	400 Area	PDI-864-2	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		
			Completion Time		0731	1927	0727	1937	0706	1924	0704	1925	0730	1935	0730	1951
					0731	1927	0727	1937	0706	1924	0704	1925	0730	1935	0730	1951

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: [Signature] Date 12/14/14 Time 1924 Reviewed by: [Signature] Date: 12/15/14 Time: 0700

On-duty Supervisor

Comments: 100, 200, VAULT RECIRC PLENUM UNSAT DUE TO ASBESTHOSIS SHUT DOWN



## 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:																
		Initials:																
		SURVEILLANCE RESULTS (in. wc)																
		Gauge Acceptance Criteria																
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc <sup>1</sup>															
	100 area glovebox exhaust header ΔP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc <sup>1</sup>															
	300 area glovebox exhaust header ΔP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc <sup>1</sup>															
	400 area glovebox exhaust header ΔP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc <sup>1</sup>															
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc <sup>1</sup>															
	100 area laboratory header ΔP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc <sup>1</sup>															
	300 area laboratory header ΔP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc <sup>1</sup>															
	400 area laboratory header ΔP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc <sup>1</sup>															
4.1.1.3 4.1.2.3 <sup>2</sup>	IFIT Facility ΔP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc															
	North basement ΔP	PDI-804-1 or PDI-804-2	< 0.00 in. wc															
	South basement ΔP	PDI-854-1 or PDI-854-2	< 0.00 in. wc															
	IRT Tunnel ΔP	PDT-901 or PDI-901	< 0.00 in. wc															

(Page 2 of 3)

[illegible]

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

(Page 3 of 3)

Note Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.				Date:	12/9/14		Tuc		Wed		Thu		Fri		Sat		Sun	
				Weekdays:														
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
				Initials:			K											
SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)													
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	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
			PDI-820-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		PDI-802-2	100 Area	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
		PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		PDI-870-2	300 Area	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	Unsat
		PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		PDI-864-2	400 Area	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	Unsat
		PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	Completion Time				201													

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: PLCDate: 12/9/14Time: 2031Reviewed by: [Signature]Date: 12/9/14Time: 0640

On duty Supervisor

Comments: PARTIAL DUE TO N.SIDE HARDWARE S/D

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

(Page 1 of 4)

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

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

SR	Description / Gauge	Date:	12-8-14	12-9-14	12-10-14	12-11-14	12-12-14	12-13-14	12-14-14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	PT	nm	PH	PH	nm	DAO
		SURVEILLANCE RESULTS (percentage)							
4.4.1.1	Flammable Gas Channel Check	Acceptance Criteria	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 ≥ -0.1; ≤ +0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Completion Time:		0741	0800	0746	0803	0758	0850	0912	

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
				12-B-14	12-9-14	12-10-14	12-11-14	12-12-14	12-13-14	12-14-14							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				PT	PT	mm	PT	Rh	mm	mm							
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	.06	.06	.06	.05	.06	.05	.05							
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc	.51	.51	.51	.51	.51	.51	.51							
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc	.05	.05	.05	.06	.06	.05	.06							
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc	.57	.58	.59	.59	.59	.58	.59							
		PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc	.30	.30	.30	.30	.30	.30	.30							
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc	.32	.32	.32	.32	.32	.32	.32							
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.32	.32	.32	.32	.32							
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc	.31	.30	.30	.31	.31	.31	.31							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	.41	.40	.40	.40							
		PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	.41	.41	.41	.41							
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc	.35	.35	.35	.35	.35	.35	.35							
		PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc	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	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
				12-8-14	12-9-14	12-10-14	12-11-14	12-12-14	12-13-14	12-14-14							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				PT	PT	nm	PT	dh	nm	nm							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc	.79	.79	.77	.81	.82	.80	.80							
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc	.51	.51	.51	.51	.51	.51	.51							
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc	.42	.42	.42	.42	.45	.43	.43							
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc	.48	.48	.47	.48	.48	.48	.48							
		PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc	.66	.66	.65	.65	.67	.67	.67							
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc	.30	.30	.30	.30	.30	.30	.30							
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc	.28	.28	.28	.28	.28	.28	.28							
		PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc	.97	.97	.97	.97	.96	.96	.96							
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc	.58	.58	.57	.58	.57	.57	.57							
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc	.53	.53	.53	.53	.54	.54	.54							
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc	.49	.49	.49	.49	.49	.49	.49							
		PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.40	.40	.40	.40	.40							
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc	.38	.39	.38	.38	.38	.38	.38							

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

(Page 4 of 4)

		Date:		12-8-14	12-9-14	12-10-14	12-11-14	12-12-14	12-13-14	12-14-14
		Weekday:		Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		PT	PT	mm	PT	pk	mm	mm
SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
4.1.1.7	400 area re-circulation filter plenum ( HVP-807) AP	'PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc	.40	.40	.39	.40	.40	.40	.40
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc	.39	.39	.39	.39	.38	.38	.38
	400 area re-circulation filter plenum ( HVP-808) AP	'PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.31	.31	.31	.31	.30
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc	.48	.48	.47	.48	.48	.47	.47
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.42	.42	.43	.43	.43
		'PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc	.16	.14	.16	.16	.15	.15	.15
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc	.47	.45	.46	.49	.49	.48	.48
	South Bleed off filter plenum ( FF-822B) AP	PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.47	.48	.48	.45	.47
		'PDI-811-1	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum ( FF-822B) AP	PDI-811-2	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		Completion Time		0802	0821	0822	0859	0837	0833	0833
		OC Operator Review and Page Count Complete (initials)		0802	0802	0802	0802	0802	0802	0802

'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 J. [Signature] Date: 12/14/14 Time: 0833 Reviewed by: [Signature] Date: 12/15/14 Time: 0700

On-duty Supervisor

Comments

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Initials:						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	12-08-14	12-09-14	12-10-14	12-11-14	12-12-14	12-13-14	12-14-14
		PDI-840-2	≤2.0 & > 0' in. wc							
		PDI-840-3	≤2.0 & > 0' in. wc							
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc							
		PDI-841-2	≤2.0 & > 0' in. wc							
		PDI-841-3	≤2.0 & > 0' in. wc							
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0' in. wc							
		PDI-831-2	≤2.0 & > 0' in. wc							
		PDI-831-3	≤2.0 & > 0' in. wc							
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc								
	PDI-832-2	≤2.0 & > 0' in. wc								
	PDI-832-3	≤2.0 & > 0' in. wc								
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc							
		PDI-807-2	≤2.0 & > 0' in. wc							
		PDI-807-3	≤2.0 & > 0' in. wc							
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc							
		PDI-809-2	≤2.0 & > 0' in. wc							
		PDI-809-3	≤2.0 & > 0' in. wc							

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				nm	RT	PT	RT	RT	RT	RT							
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	$\leq 2.0$ & $> 0^1$ in. wc	.14	.15	.14	.14	.14	.14	.14							
		PDI-829-2	$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39	.39	.39							
		PDI-829-3	$\leq 2.0$ & $> 0^1$ in. wc	.30	.30	.30	.30	.30	.30	.30							
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	$\leq 2.0$ & $> 0^1$ in. wc	1.0	1.0	1.0	1.0	1.0	1.0	1.0							
		PDI-833-2	$\leq 2.0$ & $> 0^1$ in. wc	.46	.44	.46	.45	.46	.46	.46							
		PDI-833-3	$\leq 2.0$ & $> 0^1$ in. wc	.45	.44	.43	.43	.43	.43	.43							
	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1	$\leq 2.0$ & $> 0^1$ in. wc	.15	.15	.15	.15	.15	.15	.15							
		PDI-835-2	$\leq 2.0$ & $> 0^1$ in. wc	.45	.44	.44	.44	.44	.44	.44							
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-835-3	$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.40	.40	.40	.40	.40							
		PDI-815-1	$\leq 2.0$ & $> 0^1$ in. wc	.18	.19	.19	.19	.19	.19	.19							
		PDI-815-2	$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39	.39	.39							
		PDI-815-4	$\leq 2.0$ & $> 0^1$ in. wc	.35	.35	.35	.37	.34	.37	.37							
		PDI-815-5	$\leq 2.0$ & $> 0^1$ in. wc	.36	.38	.38	.40	.40	.38	.38							
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-816-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-816-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-816-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:		Weekday:				
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					12-08-14	12-09-14	12-10-14	12-11-14	12-12-14	12-13-14	12-14-14
					mm	DL	PT	DL	24	0	260
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc		.17	.17	.17	.16	.16	.16	.16
		PDI-812-2	≤2.0 & > 0' in. wc		.37	.37	.37	.37	.37	.37	.38
		PDI-812-3	≤2.0 & > 0' in. wc		.37	.37	.39	.39	.37	.37	.38
		PDI-812-4	≤2.0 & > 0' in. wc		.38	.39	.39	.38	.39	.39	.39
		PDI-812-5	≤2.0 & > 0' in. wc		.32	.32	.31	.31	.31	.31	.32
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
		PDI-813-2	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc		.03	.03	.02	.03	.08	.08	.02
		PDI-865-2	≤2.0 & > 0' in. wc		.33	.31	.30	.30	.51	.51	.30
		PDI-865-3	≤2.0 & > 0' in. wc		.38	.38	.39	.35	.41	.61	.39
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc		.05	.05	.05	.05	.05	.05	.05
		PDI-863-2	≤2.0 & > 0' in. wc		.22	.24	.22	.23	.23	.22	.25



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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:						
				Weekday:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			Initials:	nm	RA	PT	RT	RL	0	000
SURVEILLANCE RESULTS										
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	.11	.11	.11	.11	.11	.11	.11
		PDI-857-2	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49
		PDI-856-1	≤ 2.0 & > 0' in. wc	.05	.05	.04	.05	.05	.05	.05
		PDI-856-2	≤ 2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time				0805	0930	0809	0901	0830	0930	0835
OC Operator Review and Page Count Complete (initials)				nm	0	000	000	0	000	0

## Non TSR requirement

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

Completed by: 221222 Date: 12/14/14 Time: 0835Reviewed by: [Signature] Date: 12/15/14 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.:	042253	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature																				
SR		Description	Date:		12/8/2014		12/9/14		12/10/2014		12/11/2014		12/12/14		12/13/14		12/14/14			
			Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
			Initials:		BF		TL		BF		BF		BF		TL		DD		TL	
			Acceptance Criteria																	
NA		ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.		SAT/UNSAT		SAT/UNSAT		SAT/UNSAT		SAT/UNSAT		SAT/UNSAT		SAT/UNSAT		SAT/UNSAT			
4.3.1.1'		RECORD fire water storage tank V-701 temperature	≥ 42.1 F		47.11		46.7		46.13		46.09		46.0		46.0		46.3			
4.3.1.1'		RECORD fire water storage tank V-704 temperature	≥ 42.1 F		46.28		46.0		45.77		47.15		47.1		47.1		46.4			
4.3.1.3'		RECORD PF-10 room temperature	≥ 50.1 F		60.40		60.5		60.00		65.77		60.7		61.1		65.0			
4.3.1.3'		RECORD PF-11 room temperature	≥ 50.1 F		63.77		64.8		63.93		62.52		65.8		64.2		59.5			
		Completion Time:			0754		0843		0815		0801		0812		1005		1045			
		OC Operator Review and Page Count Complete (initials)			DB		DB		DB		DB		DB		DB		DB			

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: ALJDate: 12-14-14Time: 1045Reviewed by: [Signature]

On-duty Supervisor

Date: 12/15/14Time: 0700

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:		12/15/14		12/16/14		12-17-14		12/18/14		12-19-14		12/20/14		12/21/14		
	Weekday:				Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
	Shift:				AM PM		AM PM		AM PM		AM PM		AM PM		AM PM		
	Initials:		BZ AS		BC		BC		a		a		BC		BC		
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)													
		PDI-814-1 or PDI-814-2	≤ -1.0 in. wc <sup>1</sup>	-1.97	-1.95	-1.94	-1.93	-1.97	-1.94	-1.96	-1.93	-1.98	-1.93	-1.96	-1.95	-1.94	
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP <sup>1</sup>	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc <sup>1</sup>	-1.92	-1.92	-1.92	-1.92	-1.94	-1.93	-1.93	-1.92	-1.92	-1.92	-1.92	-1.94	-1.95	
	300 area glovebox exhaust header AP <sup>1</sup>	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc <sup>1</sup>	-1.99	-1.98	-1.97	-1.97	-1.97	-1.97	-1.99	-1.98	-1.99	-1.99	-1.99	-1.99	-2.00	
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	400 area glovebox exhaust header AP <sup>1</sup>	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc <sup>1</sup>	-1.97	-1.97	-1.97	-1.97	-1.97	-1.95	-1.96	-1.97	-1.97	-1.97	-1.97	-1.96	-1.97	
	200 area laboratory header AP <sup>1</sup>	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc <sup>1</sup>	-2.20	-2.20	-2.20	-2.20	-2.22	-2.20	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	-2.21	
	100 area laboratory header AP <sup>1</sup>	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc <sup>1</sup>	-2.22	-2.22	-2.23	-2.23	-2.24	-2.23	-2.24	-2.24	-2.23	-2.23	-2.23	-2.24	-2.17	
	300 area laboratory header AP <sup>1</sup>	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc <sup>1</sup>	-2.18	-2.20	-2.20	-2.20	-2.21	-2.20	-2.19	-2.19	-2.18	-2.18	-2.17	-2.18	-2.21	
4.1.1.3 4.1.2.3 <sup>2</sup>	400 area laboratory header AP <sup>1</sup>	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc <sup>1</sup>	-2.18	-2.20	-2.21	-2.21	-2.21	-2.20	-2.20	-2.19	-2.19	-2.19	-2.19	-2.21	-2.21	
	IFTT Facility AP <sup>1</sup>	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	-2.19	-2.19	-2.18	-2.19	-2.19	-2.17	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	-2.19	
	North basement AP <sup>1</sup>	PDI-804-1 or PDI-804-2	< 0.00 in. wc	-2.09	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.08	-2.08	-2.07	-2.09	-2.08	-2.08	
	South basement AP <sup>1</sup>	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-2.09	-2.10	-2.10	-2.11	-2.11	-2.10	-2.10	-2.09	-2.09	-2.09	-2.10	-2.10	-2.09	
4.1.1.3 4.1.2.3 <sup>2</sup>	IRT Tunnel AP <sup>1</sup>	PDI-901 or PDI-901	< 0.00 in. wc	-2.08	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.08	-2.07	-2.07	-2.07	-2.07	-2.07	

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

(Page 2 of 3)

Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.	Date: Weekday:	12-15-14 12-16-14 12-17-14 12-18-14 12-19-14 12-20-14 12-21-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		Mon.		Tue.		Wed.	Thu.		Fri.	Sat.	Sun.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		AM PM		AM PM		AM PM	AM PM		AM PM	AM PM	AM PM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		Shift:		Shift:		Shift:	Shift:		Shift:	Shift:	Shift:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS Sat. / Unsat. (circle one)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				At least one fan/plenum is in service																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				At least one fan/plenum is in service																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				At least one fan/plenum is in service																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050	At least one fan/plenum is in service	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat



(Page 3 of 3)

## SURVEILLANCE RESULTS

Note: <sup>2</sup> SRs 4 I 2.x only apply during mode 2 in accordance with LCO 3 I 2.

Comments:



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

(Page 1 of 4)

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

Description / Gauge	Date: 12/15/14	12/16/14	12-17-14	12-18-14	12-19-14	12/21/14
	Weekday: Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
	Initials: RH	RA	PT	RA	RA	RA
SURVEILLANCE RESULTS (percentage)						
Acceptance Criteria						
SR 4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	0.0	0.0	0.0	0.0	0.0
Record Calculated Value						
$\geq -0.1$ ; $\leq +0.1$		Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
Completion Time:		0821	0815	0810	0752	0752

## 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:	12-18-14	12-19-14	12-20-14	12-21-14	12-22-14	12-23-14	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
				Initials:	ZH	ZH	PT	ZLT	ZH	gr	
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	.05	.04	.05	.04	.06	.06	.06	.06
	PDI-894-2		$\leq 2.0$ & $> 0^1$ in. wc	.50	.50	.50	.50	.50	.50	.50	.50
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc	.05	.05	.06	.05	.50	.50	.50	.06
	PDI-895-2		$\leq 2.0$ & $> 0^1$ in. wc	.60	.60	.60	.60	.60	.60	.61	.60
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc	.30	.31	.31	.31	.31	.31	.31	.31
		PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc	.32	.32	.32	.32	.32	.32	.32	.32
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc	.33	.33	.33	.34	.34	.34	.35	.35
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.32	.32	.32
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc	.35	.35	.35	.35	.35	.35	.35	.35
		PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc	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	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)			
				Weekday:										
				Initials:										
				12-15-14	12-16-14	12-17-14	12-18-14	12-19-14	12-20-14	12-21-14				
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
				PT	PT	PT	PT	PT	PT	PT				
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.82	.81	.80	.80	.80	.80				
		PDI-822-2	$\leq 2.0$ & $> 0^1$ in. wc	.51	.51	.51	.50	.50	.51	.51				
		PDI-822-4	$\leq 2.0$ & $> 0^1$ in. wc	.45	.43	.42	.43	.43	.44	.43				
		PDI-822-5	$\leq 2.0$ & $> 0^1$ in. wc	.49	.48	.48	.48	.48	.48	.48				
		PDI-823-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY				
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY				
		PDI-823-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY				
		PDI-823-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY				
		PDI-830-1	$\leq 2.0$ & $> 0^1$ in. wc	.44	.47	.46	.44	.66	.66	.66				
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	$\leq 2.0$ & $> 0^1$ in. wc	.30	.30	.30	.30	.31	.31	.31				
		PDI-830-3	$\leq 2.0$ & $> 0^1$ in. wc	.29	.29	.29	.29	.29	.29	.29				
		PDI-836-1	$\leq 2.0$ & $> 0^1$ in. wc	.96	.96	.96	.96	.96	.96	.96				
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	$\leq 2.0$ & $> 0^1$ in. wc	.58	.57	.58	.58	.58	.57	.57				
		PDI-836-3	$\leq 2.0$ & $> 0^1$ in. wc	.52	.52	.52	.52	.53	.54	.53				
		PDI-837-1	$\leq 2.0$ & $> 0^1$ in. wc	.50	.49	.49	.50	.49	.49	.49				
		PDI-837-2	$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.40	.40	.40	.40	.40				
		PDI-837-3	$\leq 2.0$ & $> 0^1$ in. wc	.38	.38	.38	.38	.38	.38	.38				

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				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	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-838-2	$\leq 2.0$ & $> 0^1$ in. wc	.40	.40	.41	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	
		PDI-838-3	$\leq 2.0$ & $> 0^1$ in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	
	400 area re-circulation filter plenum ( HVP-808) AP	'PDI-839-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-839-2	$\leq 2.0$ & $> 0^1$ in. wc	.46	.47	.48	.47	.48	.48	.48	.48	.48	.48	.48	.48	.48	
		PDI-839-3	$\leq 2.0$ & $> 0^1$ in. wc	.41	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	'PDI-810-1	$\leq 2.0$ & $> 0^1$ in. wc	.14	.14	.15	.14	.15	.15	.15	.15	.15	.15	.15	.15	.15	
		PDI-810-2	$\leq 2.0$ & $> 0^1$ in. wc	.49	.50	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	
		PDI-810-3	$\leq 2.0$ & $> 0^1$ in. wc	.49	.49	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	
	South Bleed off filter plenum ( FF-822B) AP	'PDI -811 - 1	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI -811 -2	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI -811 -3	$\leq 2.0$ & $> 0^1$ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
			Completion Time	0846	0834	0836	0859	0859	0909	0909	0909	0909	0909	0909	0909		
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: [Signature] Date: 12/21/14 Time: 0700 Reviewed by: [Signature] Date: 12/21/14 Time: 0700

On-Shift Supervisor

Comments

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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:							SURVEILLANCE RESULTS (In. wc)						
					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	EA	12/15/14	12-16-14	12-17-14	12-18-14	12-19-14	12/20/14	12/21/14	.16	.16	.16	.15	.16	.16	
		PDI-840-2	≤2.0 & > 0' in. wc									.54	.57	.58	.57	.56	.56	
		PDI-840-3	≤2.0 & > 0' in. wc									.50	.50	.50	.50	.60	.50	
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	STBY								STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-841-2	≤2.0 & > 0' in. wc	STBY								STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-841-3	≤2.0 & > 0' in. wc	STBY								STBY	STBY	STBY	STBY	STBY	STBY	
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0' in. wc	.32								.32	.33	.33	.32	.33	.32	
		PDI-831-2	≤2.0 & > 0' in. wc	.40								.40	.40	.40	.40	.40	.40	
		PDI-831-3	≤2.0 & > 0' in. wc	.32								.32	.32	.32	.32	.32	.32	
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	.32								.32	.32	.32	.31	.31	.31		
	PDI-832-2	≤2.0 & > 0' in. wc	.60								.60	.60	.60	.60	.60	.60		
	PDI-832-3	≤2.0 & > 0' in. wc	.53								.53	.53	.54	.54	.55	.55		
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	.11							.11	.11	.11	.11	.11	.11		
		PDI-807-2	≤2.0 & > 0' in. wc	.49								.49	.49	.49	.49	.50	.49	
		PDI-807-3	≤2.0 & > 0' in. wc	.48								.49	.49	.48	.48	.49	.48	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	OFF							OFF	OFF	OFF	OFF	OFF	OFF		
		PDI-809-2	≤2.0 & > 0' in. wc	OFF								OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc	OFF								OFF	OFF	OFF	OFF	OFF	OFF	



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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:							SURVEILLANCE RESULTS (in. wc)						
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.							
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	$\leq 2.0$ & $> 0^1$ in. wc	JH	12/15/14	.13	.14	.14	.13	.16	.13	.14						12/21/14
		PDI-829-2	$\leq 2.0$ & $> 0^1$ in. wc			.38	.38	.38	.38	.30	.37	.37						
		PDI-829-3	$\leq 2.0$ & $> 0^1$ in. wc			.30	.30	.30	.30	.30	.29	.29						
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	$\leq 2.0$ & $> 0^1$ in. wc	JH	12/16/14	> 1.0	> 1.0	> 1.0	> 1.0	> 1.0	> 1.0	> 1.0						12/21/14
		PDI-833-2	$\leq 2.0$ & $> 0^1$ in. wc			.46	.45	.45	.45	.46	.45	.45						
		PDI-833-3	$\leq 2.0$ & $> 0^1$ in. wc			.42	.42	.42	.42	.44	.44	.43						
4.1.3.4	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1	$\leq 2.0$ & $> 0^1$ in. wc	JH	12/17/14	.15	.15	.15	.15	.16	.15	.15						12/21/14
		PDI-835-2	$\leq 2.0$ & $> 0^1$ in. wc			.45	.44	.44	.44	.45	.44	.44						
		PDI-835-3	$\leq 2.0$ & $> 0^1$ in. wc			.40	.40	.41	.40	.40	.40	.40						
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	$\leq 2.0$ & $> 0^1$ in. wc	JH	12/18/14	.20	.20	.20	.20	.20	.18	.19						12/21/14
		PDI-815-2	$\leq 2.0$ & $> 0^1$ in. wc			.40	.40	.40	.40	.40	.41	.41						
		PDI-815-4	$\leq 2.0$ & $> 0^1$ in. wc			.36	.36	.36	.36	.36	.38	.37						
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-5	$\leq 2.0$ & $> 0^1$ in. wc	JH	12/19/14	.40	.39	.39	.40	.40	.40	.40						12/21/14
		PDI-816-1	$\leq 2.0$ & $> 0^1$ in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY						
		PDI-816-2	$\leq 2.0$ & $> 0^1$ in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY						
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	$\leq 2.0$ & $> 0^1$ in. wc	JH	12/20/14	STBY	STBY	STBY	STBY	STBY	STBY	STBY						12/21/14
		PDI-816-5	$\leq 2.0$ & $> 0^1$ in. wc			STBY	STBY	STBY	STBY	STBY	STBY	STBY						

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

(Page 3 of 4)

[illegible]

## 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 (HVP-840) ΔP	PDI-857-1	$\leq 2.0$ & $> 0^1$ in. wc	RA	PT	PT	RLT	RLT	RLT	RLT	RLT
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	$\leq 2.0$ & $> 0^1$ in. wc	.11	.49	.11	.49	.11	.48	.11	.48
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	$\leq 2.0$ & $> 0^1$ in. wc	.04	.04	.04	.04	.04	.04	.04	.04
		PDI-856-2	$\leq 2.0$ & $> 0^1$ in. wc	.50	.50	.50	.50	.50	.50	.50	.50
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	unsat	SAT	SAT
OC Operator Review and Page Count Complete (initials)				0906	0837	0840	0900	0753	0906	0813	

## Non TSR requirement

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

Completed by: Seamus H. Date: 12/14/14 Time: 0813 Reviewed by: [Signature] Date: 12/14/14 Time: 0700

On-duty Supervisor

Comments: 4.3.2.2 Red light, RLT would not allow access into 204. No checks were made. 12.19.14STEP LEADER AND SWAYAT MUST WITHIN COMBUSTIBLE AREA. NOTIFIED OPSRoom 204 removed combustible. was 204 now Sat @ 11:15 on 12.19.14

## 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.:	042253	V-701 Thermistor File No.:	039744
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:	6/26/15
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.:	040375
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:	6/26/15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature												
Daily (September through April only)			Date:	12/15/2014	12/16/2014	12/17/2014	12/18/2014	12/19/14	12/20/14	12/21/14		
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:	BF	BF	BF	BF	BF	BF	BF		
SR	Description	Acceptance Criteria	Calibration dates have not elapsed.	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.	≥ 42.1 F	46.67	45.78	46.00	46.67	46.55	45.9	46.6	46.9		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	46.05	47.12	46.00	46.67	46.75	46.5	45.9	45.8		
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 50.1 F	58.09	59.25	59.74	59.74	60.43	59.6	59.2	63.5		
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	61.94	64.15	63.80	63.80	65.36	64.8	65.1	65.5		
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	0828	0745	0855	0855	0820	0750	1005	0858		
OC Operator Review and Page Count Complete (initials)			BL 27	200	RS	RS	RS	RS	RS	RS		

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: 12/21/14

Time: 0858

Reviewed by: 

Date: 12/22/14

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: 12/22/14		12/23/14		12/24/14		12/25/14		12/26/14		12/27/14		12/28/14			
	Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.			
	Shift:		AM PM		AM PM		AM PM		AM PM		AM PM		AM PM			
	Initials:		K D		K B		K B		K D		K D		K D			
SRs	Description	Gauge Acceptance Criteria		SURVEILLANCE RESULTS (in. wc)												
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc	-1.93	-1.93	-1.96	-1.95	-1.95	-1.97	-1.98	-1.95	-1.96	-1.97	-1.98	-1.93	-1.93
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc	-1.93	-1.92	-1.93	-1.92	-1.93	-1.92	-1.93	-1.92	-1.93	-1.92	-1.93	-1.92	-1.92
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc	-1.96	-1.97	-1.98	-1.98	-1.98	-1.97	-1.98	-1.98	-1.98	-1.97	-1.97	-1.97	-1.98
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc	-2.00	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.98	-1.97	-1.97	-1.97	-1.98
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc	-2.21	-2.22	-2.22	-2.21	-2.21	-2.20	-2.19	-2.20	-2.18	-2.19	-2.19	-2.22	-2.22
	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc	-2.22	-2.25	-2.22	-2.22	-2.24	-2.22	-2.22	-2.21	-2.22	-2.21	-2.22	-2.22	-2.22
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc	-2.21	-2.21	-2.19	-2.19	-2.19	-2.20	-2.19	-2.20	-2.19	-2.20	-2.19	-2.21	-2.20
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc	-2.22	-2.21	-2.20	-2.21	-2.23	-2.21	-2.21	-2.20	-2.21	-2.20	-2.22	-2.21	-2.21
4.1.1.3 4.1.2.3 <sup>2</sup>	IFT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	-1.19	-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	< 0.00 in. wc	-0.09	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	-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
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	-0.854	-0.897	-0.897	-0.897	-0.897	-0.897	-0.897	-0.897	-0.897	-0.897	-0.897	-0.897	-0.897



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

(Page 2 of 3)

Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable.	Date:	12/20/14							12/21/14							12/22/14							12/23/14							12/24/14							12/25/14							12/26/14							12/27/14							12/28/14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			Shift:	Initials:		Acceptance Criteria		Readings		Description		SRs		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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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)

Note		Date:	12/23/14		12/24/14		12/25/14		12/26/14		12/27/14		12/28/14	
		Weekday:	Mon.		Tue.		Wed.		Thu.		Fri.		Sat.	
		Shift:	AM PM		AM PM		AM PM		AM PM		AM PM		AM PM	
		Initials:	u		u		u		u		u		u	
SRs	Description	Area	Gauge	Acceptance Criteria	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-814-2 < PDI-803-2 < PDI-804-2	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
		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
		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
	Completion Time				0731	1930	0731	1930	0710	1927	0730	1930	0733	1930

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: CPDate: 12-28-14 Time: 1930Reviewed by: [Signature]Date: 12/30/14 Time: 0810

On-duty Supervisor

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

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

(Page 1 of 4)

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

SR	Description / Gauge	Date:	12-22-14	12-23-14	12-24-14	12-25-14	12-26-14	12-27-14	12-28-14	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	nm	nm	PT	PT	PT	PT	PT	
		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) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	
	Completion Time:	0750	0749	0735	0751	0805	0758	0755		

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
				12-22-14	12-23-14	12-24-14	12-25-14	12-26-14	12-27-14	12-28-14							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
				mm	mm	PT	PT	PT	PT	PT							
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	$\leq 2.0$ & $> 0^1$ in. wc	.05	.06	.06	.06	.05	.06	.05							
		PDI-894-2	$\leq 2.0$ & $> 0^1$ in. wc	.51	.50	.51	.51	.51	.51	.51							
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	$\leq 2.0$ & $> 0^1$ in. wc	.05	.06	.06	.06	.06	.06	.06							
		PDI-895-2	$\leq 2.0$ & $> 0^1$ in. wc	.62	.61	.58	.58	.58	.58	.58							
		PDI-817-1	$\leq 2.0$ & $> 0^1$ in. wc	.31	.31	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	$\leq 2.0$ & $> 0^1$ in. wc	.32	.33	STBY	STBY	STBY	STBY	STBY							
		PDI-817-4	$\leq 2.0$ & $> 0^1$ in. wc	.34	.35	STBY	STBY	STBY	STBY	STBY							
		PDI-817-5	$\leq 2.0$ & $> 0^1$ in. wc	.32	.31	STBY	STBY	STBY	STBY	STBY							
		PDI-819-1	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	STBY	STBY	STBY	STBY	STBY							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-3	$\leq 2.0$ & $> 0^1$ in. wc	.41	.41	STBY	STBY	STBY	STBY	STBY							
		PDI-819-4	$\leq 2.0$ & $> 0^1$ in. wc	.35	.36	STBY	STBY	STBY	STBY	STBY							
		PDI-818-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	.27	.27	.27	.27	.27							
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	.31	.31	.31	.31	.31							
		PDI-818-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	.31	.31	.31	.31	.31							
		PDI-818-5	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	.30	.30	.30	.30	.30							
		PDI-821-1	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	.40	.40	.40	.40	.40							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	.43	.43	.43	.43	.43							
		PDI-821-4	$\leq 2.0$ & $> 0^1$ in. wc	STBY	STBY	.39	.39	.39	.39	.39							



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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	12-22-14	12-23-14	12-24-14	12-25-14	12-26-14	12-27-14	12-28-14		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Initials:	nm	nm	PT	PT	PT	PT	PT		
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc		.79	.79	PT STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-822-2	≤2.0 & > 0' in. wc		.51	.51	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-822-4	≤2.0 & > 0' in. wc		.43	.43	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-822-5	≤2.0 & > 0' in. wc		.40	.47	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-1	≤2.0 & > 0' in. wc		STBY	STBY	.10	.10	.10	.10	.10	.10	
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc		STBY	STBY	.45	.45	.47	.47	.47	.47	
		PDI-823-4	≤2.0 & > 0' in. wc		STBY	STBY	.49	.49	.49	.49	.49	.49	
		PDI-823-5	≤2.0 & > 0' in. wc		STBY	STBY	.50	.50	.50	.50	.50	.50	
		PDI-830-1	≤2.0 & > 0' in. wc		.66	.66	.67	.66	.66	.67	.67	.67	
		PDI-830-2	≤2.0 & > 0' in. wc		.30	.30	.31	.31	.31	.31	.31	.31	
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-3	≤2.0 & > 0' in. wc		.28	.28	.29	.29	.29	.29	.29	.29	
		PDI-836-1	≤2.0 & > 0' in. wc		.95	.95	.95	.95	.94	.95	.95	.95	
		PDI-836-2	≤2.0 & > 0' in. wc		.55	.56	.56	.56	.56	.57	.58	.58	
		PDI-836-3	≤2.0 & > 0' in. wc		.51	.53	.52	.52	.52	.52	.53	.53	
		PDI-837-1	≤2.0 & > 0' in. wc		.49	.49	.49	.49	.49	.49	.49	.49	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-837-2	≤2.0 & > 0' in. wc		.40	.40	.40	.40	.40	.40	.40	.40	
		PDI-837-3	≤2.0 & > 0' in. wc		.38	.37	.38	.38	.38	.38	.38	.38	



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

(Page 4 of 4)

SRs			Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
						Date:	Weekday:						
							Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
Initials:													
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.35	.35	.35	.35	.35	.35	.35	
		PDI-838-2	≤2.0 & > 0 <sup>1</sup> in. wc	.40	.40	.42	.42	.42	.42	.42	.42	.42	
		PDI-838-3	≤2.0 & > 0 <sup>1</sup> in. wc	.37	.37	.41	.41	.41	.41	.41	.41	.41	
	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0 <sup>1</sup> in. wc	.31	.31	.37	.31	.31	.31	.31	.31	.31	
		PDI-839-2	≤2.0 & > 0 <sup>1</sup> in. wc	.47	.47	.48	.48	.48	.48	.48	.48	.48	
		PDI-839-3	≤2.0 & > 0 <sup>1</sup> in. wc	.42	.42	.42	.42	.42	.42	.42	.42	.42	
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0 <sup>1</sup> in. wc	.15	.16	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-2	≤2.0 & > 0 <sup>1</sup> in. wc	.48	.48	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-3	≤2.0 & > 0 <sup>1</sup> in. wc	.47	.47	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	.11	.11	.11	.11	.11	.11	.11	
		PDI-811-2	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	.48	.48	.48	.48	.48	.48	.48	
		PDI-811-3	≤2.0 & > 0 <sup>1</sup> in. wc	OFF	OFF	.48	.49	.49	.49	.49	.49	.49	
Completion Time			0846	0855	0726	0743	0741	0749	0748	0748	0748		
OC Operator Review and Page Count Complete (initials)			aw	aw	aw	aw	aw	aw	aw	aw	aw		

'Non TSR requirement:

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

Completed by: Paul Angille Date 12-28-14 Time 0748 Reviewed by: [Signature] Date: 12/29/14 Time: 0810

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:	Date:												
					Weekday:												
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:							SURVEILLANCE RESULTS (in. wc)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					Weekday:	Date:							SURVEILLANCE RESULTS (in. wc)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
						Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:							SURVEILLANCE RESULTS (in. wc)						
					Weekday:													
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
4.13.4	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															
4.13.4	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															
4.13.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc															
		PDI-865-2	≤2.0 & > 0' in. wc															
		PDI-865-3	≤2.0 & > 0' in. wc															
4.13.4	IFT 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)

		Date:	12-22-14 12-23-14 12-24-14 12-25-14 12-26-14 12-27-14 12-28-14						
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	mm	PT	PT	PT	PT	PT	PT
SRs	Description	Gauge	SURVEILLANCE RESULTS						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	.11	.11	.11	.11	.11	.11	.11
		PDI-857-2	.49	.49	.49	.49	.49	.49	.49
		'PDI-856-1	.05	.04	.05	.05	.05	.05	.05
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-2	.50	.50	.51	.51	.51	.51	.51
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)						
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less						
			SAT	SAT	SAT	SAT	SAT	SAT	SAT
		Completion time	0826	0811	0735	0743	0805	0805	0801
		OC Operator Review and Page Count Complete (initials)	a, v	a, v	RB	RB	RB	RB	RB

## Non TSR requirement

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

Completed by: Paul Zygille Date 12-28-14 Time 0801 Reviewed by: [Signature] Date: 12/30/14 Time: 0810

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.:	042253	V-701 Thermistor File No.: 039744
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date: 6/26/15
	PF-11 Thermometer File No.:	042252	PF-11 Thermistor File No.:	040373	V-704 Thermistor File No.: 040375
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15	Calibration Expiration Date: 6/26/15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature												
Daily (September through April only)			Date:	12/22/2014	12/23/2014	12/24/2014	12/25/14	12/26/14	12/27/14	12/28/14		
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:	BF	BF	BF						
			Acceptance Criteria									
SR	Description	Acceptance Criteria										
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	(SAT) UNSAT	(SAT) UNSAT	(SAT) UNSAT	(SAT) UNSAT	(SAT) UNSAT	(SAT) UNSAT	(SAT) UNSAT	(SAT) UNSAT	(SAT) UNSAT	(SAT) UNSAT
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	47.21	46.72	46.37	46.6	46.3	46.2	46.2	46.2	46.2	77.7
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	46.46	45.63	46.67	45.7	46.9	46.3	46.3	46.3	46.6	46.6
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	62.09	58.70	58.61	59.8	59.9	59.0	59.0	59.0	59.2	59.2
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	64.38	63.87	61.46	62.4	64.3	64.0	64.0	64.1	64.1	64.1
		Completion Time:	0751	0810	0801	0809	0830	0830	0830	0830	0830	0830
		OC Operator Review and Page Count Complete (initials)	OC	OC	OC	OC	OC	OC	OC	OC	OC	OC

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

Completed by: PPCE Date: 12/28/14 Time: 0910

Reviewed by: [Signature] Date: 12/30/14 Time: 0810

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:	12/29/14		12/30/14		12/31/14									
	Weekday:			Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
	Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Initials:	[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]	
SRs	Description	SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1 <sup>2</sup>	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc <sup>1</sup>	1.95	1.95	1.96	1.95	-1.98	-1.96						
	100 area glovebox exhaust header AP	PDI-820-1 or PDI-820-2	≤ -1.0 in. wc <sup>1</sup>	1.97	1.93	1.97	1.91	-1.92	-1.92						
	300 area glovebox exhaust header AP	PDI-870-1 or PDI-870-2	≤ -1.0 in. wc <sup>1</sup>	1.90	1.98	1.98	1.97	-1.99	-1.97						
	400 area glovebox exhaust header AP	PDI-864-1 or PDI-864-2	≤ -1.0 in. wc <sup>1</sup>	1.97	1.97	1.98	1.97	-1.97	-1.98						
	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc <sup>1</sup>	0.19	0.19	0.20	0.20	-0.19	-0.19						
4.1.1.2 4.1.1.5 4.1.2.2 <sup>2</sup>	100 area laboratory header AP	PDI-802-1 or PDI-802-2	≤ -0.05 in. wc <sup>1</sup>	0.22	0.22	0.22	0.22	-0.21	-0.21						
	300 area laboratory header AP	PDI-853-1 or PDI-853-2	≤ -0.05 in. wc <sup>1</sup>	0.19	0.20	0.20	0.20	-0.18	-0.19						
	400 area laboratory header AP	PDI-852-1 or PDI-852-2	≤ -0.05 in. wc <sup>1</sup>	0.20	0.20	0.20	0.21	-0.19	-0.19						
	IFTT Facility AP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc	0.19	0.19	0.19	0.19	-0.19	-0.19						
	North basement AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	0.10	0.10	0.09	0.09	-0.09	-0.09						
4.1.1.3 4.1.2.3 <sup>2</sup>	South basement AP	PDI-854-1 or PDI-854-2	< 0.00 in. wc	0.10	0.10	0.10	0.10	-0.09	-0.10						
	IRT Tunnel AP	PDI-901 or PDI-901	< 0.00 in. wc	0.08	0.08	0.08	0.08	-0.08	-0.08						

(Page 2 of 3)

[illegible]

## 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.		Weekday:															
		Shift:	AM PM		AM PM		AM PM		AM PM		AM PM		AM PM		AM PM		
		Initials:	PC		PC		K										
SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS												
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2 PDI-803-2 PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
		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	
			PDI-802-2														
			PDI-804-2														
	300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
		PDI-853-2 PDI-854-2															
	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		
		PDI-852-2 PDI-854-2															
			Completion Time	0712 1921 0716 1935 0733 1930													

Note: <sup>1</sup> Mode 2 acceptance criteria is < 0.00 in. wcNote: <sup>2</sup> SRs 4.1.2.x only apply during mode 2 in accordance with LCO 3.1.2.Completed by: AR Date 12-31-14 Time 1930Reviewed by: [Signature]Date: 12/31/14Time: 0654

On-duty Supervisor

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

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

(Page 1 of 4)

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

		Date: 12-29-14	12-30-14	12-31-14	Thu.	Fri.	Sat.	Sun.
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
		Initials:	RL	RL	RL			
SR 4.4.1.1	Description / Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)					
	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			
		$\geq -0.1$ ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
		Completion Time:	0910	0749	0842			



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

(Page 2 of 4)

			Date:	12-29-14	12-30-14	12-31-14	SURVEILLANCE RESULTS (in. wc)									
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
			Initials:	R1	R4	R4										
SRs	Description	Gauge	Acceptance Criteria													
4.1.3.4	South basement supply filter plenum (IIVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	.05	.05	.05										
		PDI-894-2	≤2.0 & > 0' in. wc	.51	.51	.51										
4.1.3.4	South Corridor supply (IIVP-810) ΔP	PDI-895-1	≤2.0 & > 0' in. wc	.05	.05	.05										
		PDI-895-2	≤2.0 & > 0' in. wc	.58	.58	.58										
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY										
		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										
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										
		PDI-819-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY										
		PDI-819-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY										
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-1	≤2.0 & > 0' in. wc	.24	.24	.24										
		PDI-818-2	≤2.0 & > 0' in. wc	.31	.31	.31										
		PDI-818-4	≤2.0 & > 0' in. wc	.32	.32	.32										
		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	.40	.40	.40										
		PDI-821-3	≤2.0 & > 0' in. wc	.45	.45	.45										
		PDI-821-4	≤2.0 & > 0' in. wc	.39	.39	.39										

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date: 12-29-14 12-30-14 12-31-14							SURVEILLANCE RESULTS (in. wc)						
				Weekday:													
				Initials:													
				Mon. Tue. Wed. Thu. Fri. Sat. Sun.													
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-822-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-822-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-822-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY							
		PDI-823-1	≤2.0 & > 0' in. wc	.10	.10	.10	.10	.10	.10	.10							
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0' in. wc	.47	.48	.48	.48	.48	.48	.48							
		PDI-823-4	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49							
		PDI-823-5	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50							
		PDI-830-1	≤2.0 & > 0' in. wc	.66	.67	.67	.67	.67	.67	.67							
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							
		PDI-830-3	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.29	.29	.29							
		PDI-836-1	≤2.0 & > 0' in. wc	.95	.95	.95	.95	.95	.95	.95							
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0' in. wc	.56	.56	.56	.56	.56	.56	.56							
		PDI-836-3	≤2.0 & > 0' in. wc	.52	.52	.52	.52	.52	.52	.52							
		PDI-837-1	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49							
	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40							
		PDI-837-3	≤2.0 & > 0' in. wc	.38	.38	.38	.38	.38	.38	.38							

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

(Page 4 of 4)

				Date: 12-29-14	12-30-14	12-31-14				
				Weekday: Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials: 711	Bot	214				
				SURVEILLANCE RESULTS (in. wc)						
SRs	Description	Gauge	Acceptance Criteria							
4.1.1.7	400 area re-circulation filter plenum ( IIVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	.34	.34	.34				
		PDI-838-2	≤2.0 & > 0' in. wc	.42	.42	.42				
		PDI-838-3	≤2.0 & > 0' in. wc	.40	.40	.40				
	400 area re-circulation filter plenum ( IIVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	.30	.30	.30				
		PDI-839-2	≤2.0 & > 0' in. wc	.46	.46	.46				
		PDI-839-3	≤2.0 & > 0' in. wc	.41	.41	.41				
4.1.3.4	South Bleed off filter plenum ( FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc	OFF	OFF	DEF				
		PDI-810-2	≤2.0 & > 0' in. wc	OFF	OFF	DEF				
		PDI-810-3	≤2.0 & > 0' in. wc	OFF	OFF	DEF				
4.1.3.4	South Bleed off filter plenum ( FF-822B) AP	'PDI -811 - 1	≤2.0 & > 0' in. wc	.11	.11	.11				
		PDI -811 -2	≤2.0 & > 0' in. wc	.49	.48	.49				
		PDI -811 -3	≤2.0 & > 0' in. wc	.49	.48	.48				
			Completion Time	0851	0813	0842				
OC Operator Review and Page Count Complete (initials)				a						

Non TSR requirement:

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

Completed by: [Signature] Date: 2/3/14 Time: 0842

Reviewed by: [Signature] Date: 1/15/14 Time: 0854

On-duty Supervisor

Comments

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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date: 12-29-14 12/30/14 12-31-14							SURVEILLANCE RESULTS (in. wc)			
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.				
				Initials:	2H	g	2H							
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY							
		PDI-840-2	≤2.0 & > 0 in' wc	STBY	STBY	STBY	STBY							
		PDI-840-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY							
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc	44	44	44	44							
		PDI-841-2	≤2.0 & > 0' in. wc	57	57	57	57							
		PDI-841-3	≤2.0 & > 0' in. wc	50	50	50	50							
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0' in. wc	32	32	32	32							
		PDI-831-2	≤2.0 & > 0' in. wc	39	39	39	40							
		PDI-831-3	≤2.0 & > 0' in. wc	32	32	32	32							
4.1.3.4	200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc	31	32	32	32							
		PDI-832-2	≤2.0 & > 0' in. wc	60	60	60	60							
		PDI-832-3	≤2.0 & > 0' in. wc	54	55	55	55							
	North Bleed off filter plenum (FF-820A) ΔP	PDI-807-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF							
		PDI-807-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF							
		PDI-807-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF							
	North Bleed off filter plenum (FF-820B) ΔP	PDI-809-1	≤2.0 & > 0' in. wc	07	07	07	07							
		PDI-809-2	≤2.0 & > 0' in. wc	50	50	50	50							
		PDI-809-3	≤2.0 & > 0' in. wc	45	46	46	47							

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

(Page 2 of 4)

SRs		Description	Gauge	Acceptance Criteria	Initials:	Date: 12-29-14 12-31-14							SURVEILLANCE RESULTS (in. wc)								
						Weekday:															
						Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.									
						RH															
						4.1.3.4															
North Basement exhaust filter plenum (FF-828) AP						PDI-829-1	≤2.0 & > 0' in. wc	.13	.12	.13											
						PDI-829-2	≤2.0 & > 0' in. wc	.37	.35	.37											
						PDI-829-3	≤2.0 & > 0' in. wc	.30	.29	.29											
100 area re-circulation filter plenum (HVP-803) AP						PDI-833-1	≤2.0 & > 0' in. wc	>1.0	>1.0	>1.0											
						PDI-833-2	≤2.0 & > 0' in. wc	.45	.42	.45											
						PDI-833-3	≤2.0 & > 0' in. wc	.42	.42	.42											
100 area re-circulation filter plenum (HVP-804) AP						PDI-835-1	≤2.0 & > 0' in. wc	.15	.15	.15											
						PDI-835-2	≤2.0 & > 0' in. wc	.43	.42	.43											
						PDI-835-3	≤2.0 & > 0' in. wc	.40	.40	.40											
100 area glovebox exhaust filter plenum (FF852) AP						PDI-815-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY											
						PDI-815-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY											
						PDI-815-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY											
100 area glovebox exhaust filter plenum (FF853) AP						PDI-815-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY											
						PDI-816-1	≤2.0 & > 0' in. wc	.35	.35	.38											
						PDI-816-2	≤2.0 & > 0' in. wc	.46	.43	.45											
						PDI-816-4	≤2.0 & > 0' in. wc	.43	.45	.44											
						PDI-816-5	≤2.0 & > 0' in. wc	.45	.45	.44											



## 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.
			Weekday:	Initials:	Acceptance Criteria				
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	12-29-14	12/30/14	12-31-14				
		PDI-812-2							
		PDI-812-3							
		PDI-812-4							
		PDI-812-5							
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							
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1							
		PDI-865-2							
		PDI-865-3							
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1							
		PDI-863-2							

## 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		12-29-14	12-30-14							
		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										
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft <sup>3</sup> combustibles in designated exclusion area (within 15 feet of fans)										
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft <sup>3</sup> combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less										
OC Operator Review and Page Count Complete (initials)					0911	0804	0846						

Non TSR requirement

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

Completed by: [Signature] Date: 12/31/14 Time: 0846

Reviewed by: [Signature]

Date: 1/5/15 Time: 0654

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.:		021253	V-701 Thermistor File No.:		039744
	Calibration Expiration Date:		6/17/15	Calibration Expiration Date:		6/26/15	Calibration Expiration Date:		6/26/15
	PF-11 Thermometer File No.:		042252	PF-11 Thermistor File No.:		040375	V-704 Thermistor File No.:		040375
	Calibration Expiration Date:		6/17/15	Calibration Expiration Date:		6/26/15	Calibration Expiration Date:		6/26/15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
Daily (September through April only)		Date:	12/29/14	12/30/14	12/31/14						
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
		Initials:									
SR	Description	Acceptance Criteria									
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.									
4.3.1.1'	RECORD fire water storage tank V-701 temperature	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT
		46.3	46.5	46.6	46.3	46.6					
4.3.1.1'	RECORD fire water storage tank V-704 temperature	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT
		45.9	47.1	46.3	46.3	46.3					
4.3.1.3'	RECORD PF-10 room temperature	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT
		59.1	60.2	54.6	54.6	54.6					
4.3.1.3'	RECORD PF-11 room temperature	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT
		64.6	53.6	61.8	61.8	61.8					
Completion Time:		09:50		08:29		09:20		09:20		09:20	
OC Operator Review and Page Count Complete (initials)		JG 12/31/14									

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

Completed by: SPUE Date: 12/31/14 Time: 09:20

Reviewed by: [Signature] Date: 1/5/15 Time: 06:29

On-duty Supervisor

Comments:

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

(Page 1 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
*Note	Confinement DR-344	Southeast	Verify that the Astragals and Jamb-Seal features are in-place and cover the gaps present 1. Between the door leaves and 2. Between the frame and the door edge when the doors are in the closed position	<input checked="" type="radio"/> Sat. <input type="radio"/> Unsat.	1019	12-17-14	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).	<input checked="" type="radio"/> Sat. <input type="radio"/> Unsat.	1019	12-17-14	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).	<input checked="" type="radio"/> Sat. <input type="radio"/> Unsat.	0920	12-17-14	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	<input checked="" type="radio"/> Sat. <input type="radio"/> Unsat.	0943	12-17-14	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.	<input checked="" type="radio"/> Sat. <input type="radio"/> Unsat.	0943	12-17-14	PT
			4.5 Seconds	<input checked="" type="radio"/> Sat. <input type="radio"/> Unsat.	0943	12-17-14	PT

\*Note: Monthly inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to O/E Order 420.1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANL Building T-155-4 (PF-4). Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANL-DOE-ORDER-420.1B-EQ-2013-001

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

(Page 2 of 2)

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.	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	0952	12-17-14	PT
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Seconds 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.	0952	12-17-14	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="radio"/> Sat <input type="radio"/> Unsat.	0930	PT 12-17-14 12-17-14 12-17-14	PT
				<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1005	12-17-14	PT
OC Operator Review and Page Count Complete							

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: Paul Angillo Date: 12-17-14 Time: 1005Reviewed by: RBB Date: 12-17-14 Time: 1050

On-duty Supervisor Comments:



**Comments:**

# **ATTACHMENT A805.A**

External Combustion

Gas Quality Section of Transportation Contract

ON-SYSTEM STANDARD TRANSPORTATION CONTRACT TRN 39892  
 US.DOE NNSA aobo LANL  
 Attachment 3 to DE-AC52-10NA29721

**ON-SYSTEM STANDARD TRANSPORTATION CONTRACT**

CONTRACT NO. TRN 39892

JANUARY 1, 2010

U.S. DEPARTMENT OF ENERGY NATIONAL NUCLEAR SECURITY ADMINISTRATION  
 aobo LOS ALAMOS NATIONAL LABORATORY

AND

NEW MEXICO GAS COMPANY

TABLE OF CONTENTS

<u>ARTICLE</u>	<u>TITLE</u>	<u>PAGE</u>
I	DEFINITIONS	1
II	RECEIPTS AND DELIVERIES OF GAS	3
III	BALANCING	6
IV	FACILITIES	8
V	QUALITY	8
VI	MEASUREMENT EQUIPMENT	11
VII	GAS MEASUREMENT	12
VIII	CONTROL, OWNERSHIP, AND WARRANTIES	14
IX	TRANSPORTATION CHARGES	16
X	TAXES	16
XI	BILLING AND PAYMENT	16
XII	FINANCIAL RESPONSIBILITY	17
XIII	REGULATION	21
XIV	TERM	21
XV	FORCE MAJEURE	22
XVI	OTHER CONTRACTS OR AGREEMENTS	23
XVII	NOTICES	23
XVIII	MISCELLANEOUS	25

EXHIBITS

EXHIBIT A	RECEIPT POINTS	27
EXHIBIT B	DELIVERY POINTS	28
EXHIBIT C	LETTER AGREEMENT	29
ATTACHMENT 1	FORM NO. 38	30
ATTACHMENT 2	RULE NO. 21	31
ATTACHMENT 3	RULE NO. 28	32

NOTE: This page is not considered a part of the Contract but is for the convenience of the parties only and may be removed at any time by either party hereto.

## ON-SYSTEM STANDARD TRANSPORTATION CONTRACT TRN 39892

US.DOE NNSA aobo LANL

Attachment 3 to DE-AC52-10NA29721

3.7 Any retention or sale of Gas by the Company under the provisions of the Company's Rule No. 28 shall occur at the transmission system. Transportation Customer shall pay any amounts due under the provisions of the Company's Rule No. 28 in accordance with Article XI hereof.

#### IV. FACILITIES

4.1 Prior to receipt or delivery of Gas hereunder, the Company shall determine the meters, pressure regulators and other related equipment and facilities reasonably required at the Receipt or Delivery Point(s). If such meters, pressure regulators and other related equipment and facilities are not currently in place, the parties shall negotiate a separate facilities construction agreement.

4.2 After initial receipts and deliveries of Gas have commenced, the Company shall operate and maintain all facilities for receiving and delivering of Gas hereunder. If damage occurs to the Company's facilities or Transportation Customer's facilities as the result of negligence by the other party, that other party shall be liable for all damages resulting from such negligence.

4.3 Subject to paragraphs 6.2 and 6.5, meter(s) and other related equipment and facilities installed or maintained by or on behalf of the Company shall be the exclusive means of determining the quantity of Gas received and delivered hereunder.

4.4 The Company may require Transportation Customer to install, at the expense of Transportation Customer and all other users of that Receipt Point(s), including the Company, pro rata, hydrogen sulfide monitoring equipment upstream of the Receipt Point(s) if the Company reasonably believes that such equipment is necessary.

4.5 Transportation Customer shall have the right, at its option and expense, to install and operate check meter(s) downstream of the Delivery Point(s), as long as the installation, operation, and maintenance of said equipment does not interfere with the operation of the Company's equipment.

#### V. QUALITY

5.1 All Gas Tendered at Receipts Points shall be of **merchantable pipeline quality**. Gas Tendered through interstate pipelines and at tailgates of cryogenic or lean oil processing plants shall be deemed to be of merchantable

## ON-SYSTEM STANDARD TRANSPORTATION CONTRACT TRN 39892

US.DOE NNSA aobo LANL

## Attachment 3 to DE-AC52-10NA29721

pipeline quality. Currently, the cryogenic or lean oil processing plants located in New Mexico on Company's system are the Williams Kutz 1, Kutz 2 and Lybrook plants; Duke's Artesia and Eunice plants and Frontier's Maljamar and ABO plants. All Gas Tendered from other sources shall be reasonably free of objectionable material, and commercially free of dust, gums or gumforming constituents, liquids or solid matter and any other substance which interferes with the intended purpose of Merchantability of gas, or causes interference with the proper and safe operation of the lines, meters, regulators, or other appliances through which it may flow; and which must conform to the following specifications:

- (a) Shall not contain more than a trace indication of oils and other liquids that are employed in the operation of Gas processing and/or compression facilities.
- (b) Shall be commercially free of water in their liquid state at the temperature and pressure at which delivered, and in no event contain water vapor in excess of seven (7) pounds per million cubic feet. The water vapor content shall be determined by use of dew-point apparatus approved by the Bureau of Mines, or by any other method that is deemed appropriate for the conditions.
- (c) Shall not contain more than three quarters (3/4) grains of total sulfur per one hundred (100) standard cubic feet, which includes hydrogen sulfide, carbonyl sulfide, carbon disulfide, mercaptans, and mono-di- and poly-sulfides. The Gas shall also meet the following individual specifications for hydrogen sulfide (H<sub>2</sub>S) and mercaptans:
  - i. Hydrogen sulfide: The Gas shall not contain more than one-quarter (1/4) grain per one hundred (100) standard cubic feet.
  - ii. Mercaptan sulfur: The Gas shall not have mercaptan sulfur content greater than three tenths (0.3) grain per one hundred (100) standard cubic feet.
- (d) Shall not contain in excess of 2-mol% of Carbon Dioxide (CO<sub>2</sub>).
- (e) Shall not contain in excess of 0.2-mol% of Oxygen (O<sub>2</sub>). Every effort shall be made to keep the Gas free of oxygen.
- (f) Shall not contain in excess of 3-mol% of total inert gasses.



ON-SYSTEM STANDARD TRANSPORTATION CONTRACT TRN 39892  
 US.DOE NNSA aobo LANL  
 Attachment 3 to DE-AC52-10NA29721

- (g) Shall be commercially free of hydrocarbons and not have a hydrocarbon dew point that exceeds fifteen degrees Fahrenheit (15° F) between 100 and 1,000 Psia.
- (h) Shall not be delivered into any of the Company's transmission or distribution pipeline systems at a temperature less than forty degrees Fahrenheit (40° F) nor greater than one hundred twenty degrees Fahrenheit (120° F).
- (i) Have a minimum heating value of not less than nine hundred fifty (950) British thermal units (Btu) per cubic foot, and not to exceed greater than eleven hundred (1100) Btu per standard cubic foot.
- (j) Shall not contain hydrocarbons with a molecular carbon content of C<sub>5</sub> and above (C<sub>5</sub>+) in excess of 0.2 gallon per one thousand (1000) standard cubic feet.

5.2 If, at any time, Gas Tendered to the Company at the Receipt Point(s) hereunder fails to conform to the applicable quality specifications, the Company shall promptly provide notice to Transportation Customer of the deficiency. Transportation Customer shall remedy any such deficiency within a reasonable period of time. If, in the Company's reasonable judgment, non-conforming deliveries threaten imminent physical danger or harm to the Company's system, operations or facilities, then the Company, at its option, may immediately refuse to accept any further non-conforming Gas. In addition, in the event Gas Tendered to the Company at the Receipt Point(s) hereunder fails to conform to the applicable quality specifications and (a) are in close proximity to the Company's distribution system or (b) is a repeat offense, the Company at its sole option, may immediately refuse to accept any Gas Tendered by the Transportation Customer at said Receipt Point(s).

5.3 If Gas delivered to the Delivery Point(s) fails to conform to the applicable quality specifications, Transportation Customer shall notify the Company in writing of such deficiency. Transportation Customer, at its option, may refuse to take any non-conforming deliveries of Gas. The term of this Contract may be lengthened or extended by any period during which Transportation Customer has refused deliveries of non-conforming Gas by Transportation Customer submitting a written request for such extension to the Company. The Company may not unreasonably refuse such lengthening or extension.