

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

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

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		
	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

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		
	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

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		
	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

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		
	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 EXHAUST AREA TEST
Procedure no.:	TA55-STP-104A, R3.1
Date of issue:	11/3/14
Working copy issued to:	M. ZARSA
Working copy issued by:	F. SEVEREY
Certified Operations Center Operator	

Operations Center Operator Review


11-04-14
 Signature Date

Required Reading for this Surveillance has been completed.

Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
M. ZARSA		11/3/14
K. ZARSA		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) SAT 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 ΔP	.40 Inches wc
5.2[1][c]	Second-Stage HEPA Filter ΔP	.35 Inches wc
5.2[2][d]	Third-Stage HEPA Filter ΔP	.39 Inches wc

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

Follow the HEPA test procedure

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

Stable Downstream (Cd%) Meter reading = 0.003 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - $\frac{0.003}{99.997}$ Cd% = 99.997%
KGB 11.3.14

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

FIRST STAGE TEST [defense-in-depth]

Follow the HEPA test procedure

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

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

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

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

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).	<input checked="" type="radio"/> SATY <input type="radio"/> UNSAT	<i>[Signature]</i> N/A

Surveillance Test Procedure Acceptance

Date of Test:	<i>11.3.14</i>	(unless already listed elsewhere on the attachment)
Test Results:	<input checked="" type="radio"/> SATISFACTORY / <input type="radio"/> UNSATISFACTORY (circle one)	
Surveillance Personnel:	<i>[Signature]</i> 18354 11/3/14 <i>[Signature]</i> 182688 / 11/03/14	
	Signature/Z#/date	
OC Operator:	<i>[Signature]</i> 11/3/14	OC On-Duty Supervisor: <i>[Signature]</i> 187803 11/4/14
	Signature / Z# / Date	Signature / Z# / Date

Surveillance Test Results Review

System Engineer:	<i>[Signature]</i> 182753 11/12/14
	Signature / Z# / Date
Comments	<i>N/A</i>

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

Valve	Required Position	Initials Step 5.1[3]
V-853-H	Closed and Locked	<i>mwt</i>
V-853-G	Closed	<i>mwt</i>
V-853-F	Closed	<i>mwt</i>
V-853-D	Closed	<i>mwt</i>
V-853-C	Closed	<i>mwt</i>
V-853-B	Closed	<i>mwt</i>
V-853-A	Closed	<i>mwt</i>
V-852-AA	Closed	<i>mwt</i>
TP-853-1	Closed and Capped	<i>mwt</i>
TP-853-2	Closed and Capped	<i>mwt</i>
TP-853-3	Closed and Capped	<i>mwt</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>mwt</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 ΔP	.40	Inches wc
5.3[1][c]	Second-Stage HEPA Filter ΔP	.40	Inches wc
5.3[1][d]	Third-Stage HEPA Filter ΔP	.40	Inches wc

§ PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.B]	
Follow the HEPA test procedure	
Cu = <u>33</u> ug/l(%) Final Stable Upstream Meter reading	Acceptance: ≥ 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> % <i>RGB 11.3.14</i>	
Acceptance: ≥ 99.95%	Acceptable? (circle one) <u>YES</u> NO

FIRST STAGE TEST [defense-in-depth]	
Follow the HEPA test procedure	
Cu = <u>33</u> ug/l(%) Final Stable Upstream Meter reading	Acceptance: ≥ 30 meter reading
Stable Downstream (Cd%) Meter reading = <u>0.004</u> (%)	
Removal Efficiency (%) = 100% - Cd% = 100% - <u>0.004</u> Cd% = <u>99.996</u> %	
Acceptance: ≥ 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).	(SAT) UNSAT	N/A

\$

Surveillance Test Procedure Acceptance			
Date of Test:	<i>11.3.14</i>	(unless already listed elsewhere on the attachment)	
Test Results:	SATISFACTORY / UNSATISFACTORY (circle one)		
Surveillance Personnel:	<i>W. B. 18354 / 11.3.14</i> / <i>[Signature]</i> / <i>11/03/14</i>		
OC Operator:	<i>[Signature]</i> / <i>11/3/14</i> / <i>2/22/14</i>	OC On-Duty Supervisor:	<i>[Signature]</i> / <i>11/4/14</i> / <i>187803</i>
Surveillance Test Results Review			
System Engineer:	<i>[Signature]</i> / <i>182758</i> / <i>11/12/14</i>		
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:

Step		Initials
3.4[7]	Visually inspect the bag-out doors between the air plenum and the bag-out boxes (both sides). Ensure that the seals are intact and the doors are securely dogged shut .	<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: 10/26/14 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 = 30 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

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

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

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

FIRST STAGE TEST [defense-in-depth]

Follow the HEPA test procedure

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

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

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

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

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

\$

Surveillance Test Procedure Acceptance	
Date of Test:	<i>10.30.14</i> (unless already listed elsewhere on the attachment)
Test Results:	SATISFACTORY SATISFACTORY UNSATISFACTORY (circle one)
Surveillance Personnel:	<i>[Signature]</i> <i>183541 10.30.14</i> <i>Wmt/Kjs</i> Signature/Z#/date
OC Operator:	<i>[Signature]</i> <i>270997 10/30/14</i> OC On-Duty Supervisor: <i>[Signature]</i> <i>10/31/14</i> Signature / Z# / Date Signature / Z# / Date
System Engineer:	<i>[Signature]</i> <i>17532</i> Signature / Z# / Date
Comments	<i>None</i>

11-3-14

Attachment C, SRL Exhaust FF-858 Data Sheet

(Page 1 of 2)

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

Date: 10/30/14 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 ΔP	.08 Inches wc
5.3[4]	Second-Stage HEPA Filter ΔP	.05 Inches wc
5.3[5]	Third-Stage HEPA Filter ΔP	.05 Inches wc

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

Follow the HEPA test procedure

Cu = 42 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

Stable Downstream (Cd%) Meter reading = 0.011 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - 0.011 Cd% = 99.989 %

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

FIRST STAGE TEST [defense-in-depth]

Follow the HEPA test procedure

Cu = 42 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

Stable Downstream (Cd%) Meter reading = 0.009 (%)

Removal Efficiency (%) = 100% - Cd% = 100% - 0.009 Cd% = 99.991 %

Acceptance: ≥ 99.95% Acceptable? (circle one) **YES** 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>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
V-854-AA	Closed	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
V-870A	Open	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
V-890	Open	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
TP-858-1	Closed and Capped	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
TP-858-2	Closed and Capped	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
TP-854-3	Closed and Capped	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</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).	<input checked="" type="radio"/> SAT <input type="radio"/> UNSAT	<i>[Handwritten Initials]</i> N/A

\$

Surveillance Test Procedure Acceptance			
Date of Test:	(unless already listed elsewhere on the attachment)		
Test Results:	<input checked="" type="radio"/> SATISFACTORY / <input type="radio"/> UNSATISFACTORY (circle one)		
Surveillance Personnel:	<i>[Signature]</i> 83541 10.30.14 <i>[Signature]</i> 18288 / 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> 181803 10/31/14 Signature / Z# / Date
Surveillance Test Results Review			
System Engineer:	<i>[Signature]</i> 171532 11-3-14 Signature / Z# / Date		
Comments	<i>[Handwritten: 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>mmz</i>	Step 3.1[2]	Obtain current copy of STP	Initials <i>mmz</i>
Step 5.1[2]	Plenum (Circle One) SAT UNSAT	Initial <i>mmz</i>			

Date: 10/30/11 5.5[4][a] Photometer Cal. 07045 Photometer Expiration Date: 07/01/11 5.5[4][b] Serial # 100326 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

PLENUM EFFICIENCY TEST [SR #4.1.3.1.A, #4.1.3.1.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) **YES** NO

FIRST STAGE TEST [defense-in-depth]

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) **YES** 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>WJH</i>	<i>KJS</i>
V-854-AA	Closed	<i>WJH</i>	<i>KJS</i>
V-870B	Open	<i>WJH</i>	<i>KJS</i>
V-891	Open	<i>WJH</i>	<i>KJS</i>
TP-855-1	Closed and Capped	<i>WJH</i>	<i>KJS</i>
TP-855-2	Closed and Capped	<i>WJH</i>	<i>KJS</i>
TP-855-3	Closed and Capped	<i>WJH</i>	<i>KJS</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).	<input checked="" type="radio"/> SAT <input type="radio"/> UNSAT	<i>KJS</i> N/A

\$

Surveillance Test Procedure Acceptance	
Date of Test:	(unless already listed elsewhere on the attachment)
Test Results:	<input checked="" type="radio"/> SATISFACTORY / <input type="radio"/> UNSATISFACTORY (circle one)
Surveillance Personnel:	<i>WJH 182541 10/30/14</i> <i>WJH 182680 10/30/14</i> Signature/Z#/date
OC Operator:	<i>WJH 27097 10/30/14</i> <i>WJH 187803 10/31/14</i> Signature / Z# / Date
Surveillance Test Results Review	
System Engineer:	<i>WJH 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 <i>MW</i>	Step 3.1[2]	Obtain current copy of STP	Initials <i>MW</i>
Step 5.1[2]	Plenum (Circle One) SAT UNSAT	Initial <i>MW</i>			

Date: 10/20/14 5.5[4][a] Photometer Cal. Expiration Date: 07/01/15 5.5[4][b] Photometer Serial # 102226 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

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

Follow the HEPA test procedure

Cu = 3 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

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

Removal Efficiency (%) = 100% - Cd% = 100% - ^{KGB 10-30-14} 99.002 Cd% = 99.998 %

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

FIRST STAGE TEST [defense-in-depth]

Follow the HEPA test procedure

Cu = 3 ug/l(%) Final Stable Upstream Meter reading Acceptance: ≥30 meter reading

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

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

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

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).	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">SAT</div> UNSAT	<i>kgf</i>
			N/A

Surveillance Test Procedure Acceptance

Date of Test:	(unless already listed elsewhere on the attachment)	
Test Results:	<input checked="" type="radio"/> SATISFACTORY / <input type="radio"/> UNSATISFACTORY (circle one)	
Surveillance Personnel:	<i>kgf</i> 18354 / 10/30/14 <i>mm</i> / 18280 / 10/30/14 Signature/Z#/date	
OC Operator:	<i>kgf</i> 27064 / 10/30/14 Signature / Z# / Date	OC On-Duty Supervisor:
		<i>kgf</i> 1830 / 10/31/14 Signature / Z# / Date

Surveillance Test Results Review

System Engineer:	<i>kgf</i> 171532 Signature / Z# / Date	<i>kgf</i> 17-3-14 Signature / Z# / Date
Comments	<i>kgf</i> None	

ATTACHMENT A707.C.c

Beryllium

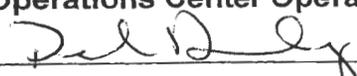
TA-55-PF4 HEPA Filtration Differential Pressure
Readings

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 WITMAN	BC	07-01-14

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRS	Description	Gauge Acceptance Criteria	Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
			Weekday:	Shift:	AM	PM													
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP 100 area glovebox exhaust header ΔP 300 area glovebox exhaust header ΔP 400 area glovebox exhaust header ΔP	≤-1.0 in. wc' ≤-1.0 in. wc' ≤-1.0 in. wc' ≤-1.0 in. wc'	1.91	1.93	1.92	1.91	1.91	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP 100 area laboratory header ΔP 300 area laboratory header ΔP 400 area laboratory header ΔP	≤-0.05 in. wc' ≤-0.05 in. wc' ≤-0.05 in. wc' ≤-0.05 in. wc'	-0.20	-0.23	-0.20	-0.21	-0.23	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
4.1.1.3 4.1.2.3 ²	IFIT Facility ΔP North basement ΔP South basement ΔP IRT Tunnel ΔP	≤-0.05 in. wc < 0.00 in. wc < 0.00 in. wc < 0.00 in. wc	-1.36	-0.19	-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

SURVEILLANCE RESULTS
(in. wc)

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRS	Description	Area	Gauge	Acceptance Criteria	Date: 7/11/14							Sun.		
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2										
			PDI-803-2											
			PDI-804-2											
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2										
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2										
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2										
				Completion Time										

SURVEILLANCE RESULTS

Sat. / Unsat. (circle one)

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

Completed by: [Signature] Date: 7/11/14 Time: 1924 Reviewed by: [Signature] Date: 7/14/14 Time: 1825
 On-duty Supervisor

Comments:

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

(Page 1 of 4)

SR 4.4.1.1, The OPERABILITY acceptance criterion for this surveillance is:
 The FLAMMABLE GAS detector in the FSTF FLAMMABLE GAS SOURCE storage cabinet is exposed to the ambient atmosphere in the storage cabinet. The gas concentration readout directly on the detector in the storage cabinet is compared with the gas concentration readout on the system control and alarm panel. The difference between the two readings is checked to VERIFY it is in the range of (≥ -0.1 ; ≤ 0.1). 7/5/14

SR	Description / Gauge	Date:	7/1/14	7/2/14	7/3/14	7/4/14	7/5/14		
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:		gm	RJA	gm	gm	gm	gm
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)							
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	
		≥ -0.1 ; $\leq +0.1$	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.	Sun.	
				Weekday:	Initials:							
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤ 0.0 & > 0 ¹ in. wc		.10	.10	.10	.11	.11	.11	.11	.11
		PDI-894-2	≤ 0.0 & > 0 ¹ in. wc	.56	.56	.56	.55	.55	.55	.55	.55	.55
4.1.3.4	South Corridor supply (HVP-810) ΔP	PDI-895-1	≤ 2.0 & > 0 ¹ in. wc	.20	.20	.20	.20	.20	.20	.20	.20	.20
		PDI-895-2	≤ 2.0 & > 0 ¹ in. wc	.62	.62	.62	.62	.62	.62	.62	.62	.62
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-2	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-4	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-817-5	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-1	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-3	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-819-4	≤ 2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-1	≤ 2.0 & > 0 ¹ in. wc	.27	.26	.26	.26	.26	.26	.26	.26	.26
		PDI-818-2	≤ 2.0 & > 0 ¹ in. wc	.32	.31	.31	.31	.31	.31	.31	.31	.31
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-4	≤ 2.0 & > 0 ¹ in. wc	.33	.33	.33	.33	.33	.32	.32	.32	.33
		PDI-818-5	≤ 2.0 & > 0 ¹ in. wc	.29	.29	.29	.29	.29	.29	.29	.29	.30
		PDI-821-1	≤ 2.0 & > 0 ¹ in. wc	.40	.40	.40	.40	.40	.39	.39	.40	.39
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-3	≤ 2.0 & > 0 ¹ in. wc	.42	.42	.42	.42	.42	.44	.44	.43	.43
		PDI-821-4	≤ 2.0 & > 0 ¹ in. wc	.37	.39	.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:	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 ¹ in. wc									
		PDI-838-2	≤2.0 & > 0 ¹ in. wc									
		PDI-838-3	≤2.0 & > 0 ¹ in. wc									
4.1.3.4	400 area re-circulation filter plenum (HVP-808) ΔP	'PDI-839-1	≤2.0 & > 0 ¹ in. wc									
		PDI-839-2	≤2.0 & > 0 ¹ in. wc									
		PDI-839-3	≤2.0 & > 0 ¹ in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	'PDI-810-1	≤2.0 & > 0 ¹ in. wc									
		PDI-810-2	≤2.0 & > 0 ¹ in. wc									
		PDI-810-3	≤2.0 & > 0 ¹ in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	'PDI-811-1	≤2.0 & > 0 ¹ in. wc									
		PDI-811-2	≤2.0 & > 0 ¹ in. wc									
		PDI-811-3	≤2.0 & > 0 ¹ in. wc									
OC Operator Review and Page Count Complete (initials)												

Non TSR requirement:

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

Completed by: *[Signature]* Date: 7/14/14 Time: 0815
 Reviewed by: *[Signature]* Date: 7/14/14 Time: 1826
 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)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:							
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	PDI-829-1	≤ 0.0 & > 0 ¹ in. wc			7/1/14	7/2/14	7/3/14	7/4/14	7/5/14	7/6/14
		PDI-829-2	≤ 0.0 & > 0 ¹ in. wc	.29	.30	.30	.29	.28	.30		
		PDI-829-3	≤ 0.0 & > 0 ¹ in. wc	.12	.12	.12	.11	.11	.12		
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	PDI-833-1	≤ 0.0 & > 0 ¹ in. wc	.97	.98	.97	.98	.97	.97	.97	.97
		PDI-833-2	≤ 0.0 & > 0 ¹ in. wc	.48	.49	.48	.48	.48	.48	.48	.48
		PDI-833-3	≤ 0.0 & > 0 ¹ in. wc	.45	.46	.46	.47	.46	.46	.46	.46
	100 area re-circulation filter plenum (HVP-804) ΔP	PDI-835-1	≤ 0.0 & > 0 ¹ in. wc	.15	.15	.15	.14	.15	.15	.15	.15
		PDI-835-2	≤ 0.0 & > 0 ¹ in. wc	.44	.44	.44	.44	.44	.44	.44	.44
		PDI-835-3	≤ 0.0 & > 0 ¹ in. wc	.41	.40	.41	.40	.41	.41	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	PDI-815-1	≤ 0.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤ 0.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤ 0.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-5	≤ 0.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-1	≤ 0.0 & > 0 ¹ in. wc	.37	.37	.37	.36	.37	.37	.37	.37
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-816-2	≤ 0.0 & > 0 ¹ in. wc	.42	.42	.42	.43	.42	.42	.42	.42
		PDI-816-4	≤ 0.0 & > 0 ¹ in. wc	.42	.41	.42	.42	.42	.42	.42	.42
		PDI-816-5	≤ 0.0 & > 0 ¹ in. wc	.45	.44	.44	.44	.44	.44	.44	.44

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	'PDI-812-1	≤.0 & > 0 ¹ in. wc									
		PDI-812-2	≤.0 & > 0 ¹ in. wc									
		PDI-812-3	≤.0 & > 0 ¹ in. wc									
		PDI-812-4	≤.0 & > 0 ¹ in. wc									
		PDI-812-5	≤.0 & > 0 ¹ in. wc									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	'PDI-813-1	≤.0 & > 0 ¹ in. wc									
		PDI-813-2	≤.0 & > 0 ¹ in. wc									
		PDI-813-3	≤.0 & > 0 ¹ in. wc									
		PDI-813-4	≤.0 & > 0 ¹ in. wc									
		PDI-813-5	≤.0 & > 0 ¹ in. wc									
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	'PDI-865-1	≤.0 & > 0 ¹ in. wc									
		PDI-865-2	≤.0 & > 0 ¹ in. wc									
		PDI-865-3	≤.0 & > 0 ¹ in. wc									
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	'PDI-863-1	≤.0 & > 0 ¹ in. wc									
		PDI-863-2	≤.0 & > 0 ¹ in. wc									

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	¹ PDI-857-1	≤ 2.0 & > 0 ¹ in. wc								
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0 ¹ in. wc								
1NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	¹ PDI-856-1	≤ 2.0 & > 0 ¹ in. wc								
		PDI-856-2	≤ 2.0 & > 0 ¹ in. wc								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less								
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: Serena M. Date 2/6/14 Time 0810 Reviewed by: BBS Date: 7/1/14 Time: 1826

On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRS	Note	Date:	Mon. 7/7/14		Tue. 7/8/14		Wed. 7/9/14		Thu. 7/10/14		Fri. 7/11/14		Sat. 7/12/14		Sun. 7/13/14			
			Weekday:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			Shift:		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			Initials: k		k		k		k		k		k		k			
			SURVEILLANCE RESULTS (in. wc)															
	Description	Gauge Acceptance Criteria																
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤ 1.0 in. wc ¹ PDI-814-1 or PDI-814-2	-1.95	-1.94	-1.92	-1.95	-1.95	-1.95	-1.96	-1.95	-1.97	-1.93	-1.96	-1.96	-1.94	-1.94		
	100 area glovebox exhaust header ΔP	≤ 1.0 in. wc ¹ PDI-820-1 or PDI-820-2	-1.92	-1.94	-1.93	-1.94	-1.93	-1.93	-1.93	-1.93	-1.94	-1.94	-1.93	-1.93	-1.94	-1.94		
	300 area glovebox exhaust header ΔP	≤ 1.0 in. wc ¹ PDI-870-1 or PDI-870-2	-1.98	-1.98	-1.98	-1.97	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98		
	400 area glovebox exhaust header ΔP	≤ 1.0 in. wc ¹ PDI-864-1 or PDI-864-2	-1.97	-1.94	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97		
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤ 0.05 in. wc ¹ PDI-803-1 or PDI-803-2	-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			
	100 area laboratory header ΔP	≤ 0.05 in. wc ¹ PDI-802-1 or PDI-802-2	-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	≤ 0.05 in. wc ¹ PDI-853-1 or PDI-853-2	-0.18	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22			
	400 area laboratory header ΔP	≤ 0.05 in. wc ¹ PDI-852-1 or PDI-852-2	-0.18	-0.19	-0.19	-0.20	-0.20	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19			
4.1.1.3 4.1.2.3 ²	IFIT Facility ΔP	≤ 0.05 in. wc PDI-865-4 or PDI-865-5	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19			
	North basement ΔP	< 0.00 in. wc PDI-804-1 or PDI-804-2	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10				
	South basement ΔP	< 0.00 in. wc PDI-854-1 or PDI-854-2	-0.12	-0.11	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12				
	IRT Tunnel ΔP	< 0.00 in. wc PDI-901 or PDI-901	-0.136	-0.139	-0.137	-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)

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

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

(Page 1 of 4)

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

SR	Description / Gauge	Date:	7/7/14	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.
4.4.1.1		Initials:	AM	ST	PT	AM	RH	PT	PT
SURVEILLANCE RESULTS (percentage)									
	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
	(LED Reading) (LED Reading)	≥ -0.1 ; $\leq +0.1$	Sat/Unsat.						
	Completion Time:		0725	0840	0750	0800	0825	0820	0720

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
				Weekday:	Initials:												
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	PDI-894-1	≤2.0 & > 0' in. wc	7/7/14	gm	7/8/14	RH	7/9-14	PT	7/10/14	gm	7/11/14	RH	7-12-14	PT	7-13-14	PT
		PDI-894-2	≤2.0 & > 0' in. wc	.10	.11	.10	.10	.10	.11	.10	.11	.10	.11	.10	.11	.10	.11
		PDI-895-1	≤2.0 & > 0' in. wc	.55	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54
		PDI-895-2	≤2.0 & > 0' in. wc	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	PDI-817-1	≤2.0 & > 0' in. wc	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	
		PDI-817-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-817-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-817-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-81 9-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-819-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-818-1	≤2.0 & > 0' in. wc	.25	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26	
		PDI-818-2	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	PDI-818-4	≤2.0 & > 0' in. wc	.39	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	
		PDI-818-5	≤2.0 & > 0' in. wc	.32	.30	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	
		PDI-821-1	≤2.0 & > 0' in. wc	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-3	≤2.0 & > 0' in. wc	.34	.45	.42	.42	.44	.44	.44	.44	.45	.43	.43	.43		
		PDI-821-4	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.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)						
				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 ¹ in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & >0 ¹ in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & >0 ¹ in. wc	.39	.39	.39	.39	.39	.39	.39
4.1.3.4	400 area re-circulation filter plenum (HVP-808) ΔP	PDI-839-1	≤2.0 & >0 ¹ in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & >0 ¹ in. wc	.41	.41	.41	.41	.42	.41	.41
		PDI-839-3	≤2.0 & >0 ¹ in. wc	.42	.42	.42	.42	.41	.41	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	PDI-810-1	≤2.0 & >0 ¹ in. wc	.16	.16	.16	.16	.15	.15	.15
		PDI-810-2	≤2.0 & >0 ¹ in. wc	.49	.49	.49	.49	.49	.49	.49
		PDI-810-3	≤2.0 & >0 ¹ in. wc	.48	.48	.48	.48	.48	.48	.48
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	PDI-811-1	≤2.0 & >0 ¹ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & >0 ¹ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	≤2.0 & >0 ¹ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OC Operator Review and Page Count Complete (initials)				0824	0922	0805	0816	0815	0818	0728

¹Non 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 Fujita Date: 7-15-14 Time: 0727 Reviewed by: RSB Date: 7-15-14 Time: 0731

On-duty Supervisor

Comments

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	PDI-829-1	≤2.0 & > 0 ¹ in. wc	JM	7/7/14	7/8/14	7/9/14	7/10/14	7/11/14	7/12/14	7/13/14
		PDI-829-2	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-829-3	≤2.0 & > 0 ¹ in. wc	JM							
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	PDI-833-1	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-833-2	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-833-3	≤2.0 & > 0 ¹ in. wc	JM							
4.1.3.4	100 area re-circulation filter plenum (HVP-804) ΔP	PDI-835-1	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-835-2	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-835-3	≤2.0 & > 0 ¹ in. wc	JM							
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	PDI-815-1	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-815-2	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-815-4	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-815-5	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-816-1	≤2.0 & > 0 ¹ in. wc	JM							
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-816-2	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-816-4	≤2.0 & > 0 ¹ in. wc	JM							
		PDI-816-5	≤2.0 & > 0 ¹ in. wc	JM							

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0 ¹ in. wc	jm	7/7/14	7/8/14	7/9/14	7/10/14	7/11/14	7/12/14	7/13/14
		PDI-812-2	≤2.0 & > 0 ¹ in. wc	jm							
		PDI-812-3	≤2.0 & > 0 ¹ in. wc	jm							
		PDI-812-4	≤2.0 & > 0 ¹ in. wc	jm							
		PDI-812-5	≤2.0 & > 0 ¹ in. wc	jm							
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0 ¹ in. wc	jm							
		PDI-813-2	≤2.0 & > 0 ¹ in. wc	jm							
		PDI-813-3	≤2.0 & > 0 ¹ in. wc	jm							
		PDI-813-4	≤2.0 & > 0 ¹ in. wc	jm							
		PDI-813-5	≤2.0 & > 0 ¹ in. wc	jm							
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ¹ in. wc	jm							
		PDI-865-2	≤2.0 & > 0 ¹ in. wc	jm							
		PDI-865-3	≤2.0 & > 0 ¹ in. wc	jm							
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ¹ in. wc	jm							
		PDI-863-2	≤2.0 & > 0 ¹ in. wc	jm							

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0 ¹ in. wc	.20	.20	.20	.20	.20	.20	.20
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0 ¹ in. wc	.51	.51	.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	'PDI-856-1	≤ 2.0 & > 0 ¹ in. wc	.23	.23	.23	.23	.24	.24	.24
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0 ¹ in. wc	.75	.75	.61	.61	.72	.72	.72
			0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			Completion time	0814	0912	0806	0819	0810	0827	0738
			OC Operator Review and Page Count Complete (initials)	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

¹ Non TSR requirement

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

Completed by: *[Signature]* Date: 7/13/14 Time: 0138

Reviewed by: *[Signature]* Date: 7/15/14 Time: 0132

On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRS	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)																					
			Date:		Weekday:		Shift:		Initials:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤ -1.0 in. wc ¹	1.97	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	-1.94	
	100 area glovebox exhaust header ΔP	≤ -1.0 in. wc ¹	1.94	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93
	300 area glovebox exhaust header ΔP	≤ -1.0 in. wc ¹	1.99	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97
	400 area glovebox exhaust header ΔP	≤ -1.0 in. wc ¹	1.96	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤ -0.05 in. wc ¹	-0.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	
	100 area laboratory header ΔP	≤ -0.05 in. wc ¹	0.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	
	300 area laboratory header ΔP	≤ -0.05 in. wc ¹	0.23	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	
	400 area laboratory header ΔP	≤ -0.05 in. wc ¹	0.21	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	
4.1.1.3 4.1.2.3 ²	North basement ΔP	< 0.00 in. wc	0.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	
	South basement ΔP	< 0.00 in. wc	0.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	
	IRT Tunnel ΔP	< 0.00 in. wc	0.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	

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. 200 area re-circulation fan/plenum 100 area re-circulation fan/plenum 300 area re-circulation fan/plenum 400 area re-circulation fan/plenum Vault re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050 FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050 FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050 FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050 FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service At least one fan/plenum is in service	Date:	7/14/14	7/15/14	7/16/14	7/17/14	7/18/14	7/19/14	7/20/14	7/21/14	7/22/14	7/23/14	7/24/14	7/25/14			
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.								
				Shift:	AM	PM	AM	PM	AM										
				Initials:															
				Acceptance Criteria															

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRS	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat. / Unsat. (circle one)													
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	FDI-814-2 < PDI-803-2 < PDI-804-2	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			PDI-803-2	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	
			Initials: <i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>
		100 Area	PDI-820-2	FDI-820-2 < PDI-802-2 < PDI-804-2	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			PDI-802-2	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	
			Initials: <i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			PDI-853-2	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	
			Initials: <i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
			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			
Initials: <i>BC</i>	<i>BC</i>		<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>	<i>BC</i>		
Completion Time					0700	0725	0731	0740	0730	0715	0719	0720	0724	0727				

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

Completed by: *[Signature]* Date: *7/21/14* Time: *1927*
 Reviewed by: *[Signature]* Date: *7/21/14* 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 (≥ -0.1 ; ≤ 0.1).

SR	Description / Gauge	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.	
Initials:										
SURVEILLANCE RESULTS (percentage)										
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Acceptance Criteria	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)	Record Calculated Value	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)	≥ -0.1 ; $\leq +0.1$	0.0	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 3 of 4)

SRs	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:	jr	BT	jm	BT	nm		
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	PDI-822-1	≤.0 & > 0 ¹ in. wc	.82	.84	.82	.83	.83	.83	.83	.84
		PDI-822-2	≤.0 & > 0 ¹ in. wc	.57	.57	.57	.57	.57	.56	.56	.57
		PDI-822-4	≤.0 & > 0 ¹ in. wc	.48	.49	.48	.48	.48	.48	.48	.48
		PDI-822-5	≤.0 & > 0 ¹ in. wc	.51	.51	.51	.51	.51	.51	.51	.52
		PDI-823-1	≤.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	PDI-823-2	≤.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-830-1	≤.0 & > 0 ¹ in. wc	.56	.59	.57	.59	.59	.59	.58	.58
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	PDI-830-2	≤.0 & > 0 ¹ in. wc	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-830-3	≤.0 & > 0 ¹ in. wc	.28	.28	.28	.28	.28	.28	.28	.28
		PDI-836-1	≤.0 & > 0 ¹ in. wc	.96	.97	.96	.94	.94	.96	.96	.96
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	PDI-836-2	≤.0 & > 0 ¹ in. wc	.57	.58	.57	.58	.58	.58	.58	.57
		PDI-836-3	≤.0 & > 0 ¹ in. wc	.55	.54	.56	.54	.54	.56	.55	.55
		PDI-837-1	≤.0 & > 0 ¹ in. wc	.51	.51	.51	.51	.51	.51	.51	.51
4.1.1.7	300 area re-circulation filter plenum (HVP-806) ΔP	PDI-837-2	≤.0 & > 0 ¹ in. wc	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-837-3	≤.0 & > 0 ¹ in. wc	.39	.39	.39	.39	.39	.39	.39	.38

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

(Page 4 of 4)

Sks	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				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 ¹ in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0 ¹ in. wc	.42	.41	.41	.41	.41	.40	.40	.40
		PDI-838-3	≤2.0 & > 0 ¹ in. wc	.39	.39	.39	.39	.39	.39	.39	.38
4.1.3.4	400 area re-circulation filter plenum (HVP-808) ΔP	PDI-839-1	≤2.0 & > 0 ¹ in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0 ¹ in. wc	.42	.42	.42	.42	.42	.41	.41	.40
		PDI-839-3	≤2.0 & > 0 ¹ in. wc	.42	.42	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	PDI-810-1	≤2.0 & > 0 ¹ in. wc	.15	.14	.15	.15	.15	.15	.15	.16
		PDI-810-2	≤2.0 & > 0 ¹ in. wc	.48	.49	.48	.49	.49	.48	.48	.48
		PDI-810-3	≤2.0 & > 0 ¹ in. wc	.46	.48	.47	.48	.47	.48	.48	.46
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	PDI-811-1	≤2.0 & > 0 ¹ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & > 0 ¹ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	≤2.0 & > 0 ¹ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OC Operator Review and Page Count Complete (initials)			Completion Time	0955	0918	0800	0851	0712	0838	0757	

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. Isa Date 7/20/14 Time 0857 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 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement exhaust filter plenum (FF-828) ΔP	'PDI-829-1	≤2.0 & > 0 ¹ in. wc	.10	.10	.11	.10	.10	.10	.11
		PDI-829-2	≤2.0 & > 0 ¹ in. wc	.29	.30	.30	.29	.30	.30	.31
		PDI-829-3	≤2.0 & > 0 ¹ in. wc	.12	.13	.13	.12	.12	.13	.15
4.1.1.7	100 area re-circulation filter plenum (HVP-803) ΔP	'PDI-833-1	≤2.0 & > 0 ¹ in. wc	.97	.97	.98	.97	.98	.98	.97
		PDI-833-2	≤2.0 & > 0 ¹ in. wc	.48	.48	.48	.48	.48	.45	.44
		PDI-833-3	≤2.0 & > 0 ¹ in. wc	.46	.46	.48	.46	.48	.45	.45
4.1.3.4	100 area re-circulation filter plenum (HVP-804) ΔP	'PDI-835-1	≤2.0 & > 0 ¹ in. wc	.15	.15	.15	.15	.15	.15	.15
		PDI-835-2	≤2.0 & > 0 ¹ in. wc	.44	.44	.44	.44	.44	.45	.45
		PDI-835-3	≤2.0 & > 0 ¹ in. wc	.41	.41	.41	.41	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) ΔP	'PDI-815-1	≤2.0 & > 0 ¹ in. wc	STBY	STBY	.19	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0 ¹ in. wc	STBY	STBY	.40	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0 ¹ in. wc	STBY	STBY	.34	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & > 0 ¹ in. wc	STBY	STBY	.39	STBY	STBY	STBY	STBY
		'PDI-816-1	≤2.0 & > 0 ¹ in. wc	.38	.36	STBY	.36	.36	.34	.34
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-816-2	≤2.0 & > 0 ¹ in. wc	.41	.41	STBY	.41	.41	.41	.40
		PDI-816-4	≤2.0 & > 0 ¹ in. wc	.41	.41	STBY	.41	.41	.41	.40
		PDI-816-5	≤2.0 & > 0 ¹ in. wc	.42	.42	STBY	.42	.42	.41	.41

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0 ¹ in. wc	7-14-14	7/15/14	7-16-14	7-17-14	7-18-14	7-19-14	7-20-14
		PDI-857-2	≤ 2.0 & > 0 ¹ in. wc	AS	AS	PT	AS	PT	AS	PT
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0 ¹ in. wc							
		PDI-856-2	≤ 2.0 & > 0 ¹ in. wc							
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)							
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less							
				SAT	SAT	SAT	SAT	SAT	SAT	SAT
				0.20	0.20	0.20	0.20	0.20	0.15	0.15
				0.50	0.49	0.49	0.49	0.49	0.49	0.50
				0.24	0.24	0.24	0.24	0.24	0.06	0.06
				0.72	0.72	0.71	0.72	0.71	0.51	0.50
				SAT	SAT	SAT	SAT	SAT	SAT	SAT
				0.820	0.911	0.844	0.848	0.802	0.825	0.824
				0.820	0.844	0.848	0.802	0.825	0.824	0.824
				0.820	0.844	0.848	0.802	0.825	0.824	0.824

1 Non TSR requirement

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

Completed by: Michael Ingh Date: 7/15/14 Time: 0834 Reviewed by: [Signature] Date: 7/15/14 Time: 1400

On-duty Supervisor

Comments: Combustibles within red lines in Rm 207
7/15/14 Rm 201 combustible loading in combustible exclusion area. One fiberglass ladder and one aluminum ladder with rubber pads on legs. Noted ops at 0850
7/15/14 combustible loading area; 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.	
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	¹ PDI-857-1	≤ 2.0 & > 0 ¹ in. wc	7-14-14								
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2 ¹ PDI-856-1	≤ 2.0 & > 0 ¹ in. wc ≤ 2.0 & > 0 ¹ in. wc	7/15/14								
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-2	≤ 2.0 & > 0 ¹ in. wc									
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans) 0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less									
				Completion time	1042							
				OC Operator Review and Page Count Complete (initials)	<i>[Signature]</i>							

1 Non TSR requirement

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

Completed by: _____ Date: _____ Time: _____ Reviewed by: *[Signature]* 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)

SRS	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)															
			Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-814-1 or PDI-814-2	-1.09	-1.96	-1.95	-1.96	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-820-1 or PDI-820-2	-1.03	-1.93	-1.92	-1.93	1.92	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-870-1 or PDI-870-2	-1.08	-1.98	-1.97	-1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	
	400 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-864-1 or PDI-864-2	-1.01	-1.97	-1.97	-1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-803-1 or PDI-803-2	-1.20	-1.90	-1.90	-1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	
	100 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-802-1 or PDI-802-2	-1.22	-1.92	-1.92	-1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	
	300 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-853-1 or PDI-853-2	-1.22	-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	
	400 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-852-1 or PDI-852-2	-1.20	-1.90	-1.90	-1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	
4.1.1.3 4.1.2.3 ²	IFIT Facility ΔP	≤-0.05 in. wc PDI-865-4 or PDI-865-5	-1.19	-1.99	-1.99	-1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	
	North basement ΔP	< 0.00 in. wc PDI-804-1 or PDI-804-2	-1.10	-1.90	-1.90	-1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	
	South basement ΔP	< 0.00 in. wc PDI-854-1 or PDI-854-2	-1.12	-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	
	IRT Tunnel ΔP	< 0.00 in. wc PDI-901 or PDI-901	-1.05	-1.95	-1.95	-1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat. / Unsat. (circle one)													
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	7/21/14	7/22/14	7/23/14	7/24/14	7/25/14	7/26/14	7/27/14							
			PDI-803-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-804-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2														
			PDI-802-2		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2														
			PDI-853-2															
			PDI-854-2															
			PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2														
			PDI-852-2															
			PDI-854-2															
			Completion Time															
					0733	0741	0751	0759	0803	0811	0821	0825	0829	0836	0837	0836		

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

Completed by: REY PACE Date: 7/27/14 Time: 1436 Reviewed by: RSB Date: 7/27/14 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 (≥ -0.1 ; ≤ 0.1).

SR	Description / Gauge	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.
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Initials:	AM	AM	PT	AM	PT	PT	PT
	CP-305-H (LED Reading)	Acceptance Criteria							
	(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
		≥ -0.1 ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤2.0 & > 0' in. wc	7/21/14	7/22/14	7-23-14	7/24/14	7-25-14	7-26-14	7-27-14	
		PDI-894-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	South Corridor supply (HVP-810) ΔP	'PDI-895-1	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-895-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	'PDI-817-1	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-817-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-817-4	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-817-5	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-81 9-1	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-81 9-3	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-819-4	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) ΔP	'PDI-818-1	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-818-2	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-818-4	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-818-5	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-821-1	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-3	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		PDI-821-4	≤2.0 & > 0' in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	'PDI-838-1	≤2.0 & > 0 ¹ in. wc	7/21/14	7/22/14	7/23/14	7/24/14	7/25/14	7/26/14	7/27/14
		PDI-838-2	≤2.0 & > 0 ¹ in. wc	pm	pm	PT	pm	PT	PT	BL
		PDI-838-3	≤2.0 & > 0 ¹ in. wc							
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	'PDI-839-1	≤2.0 & > 0 ¹ in. wc							
		PDI-839-2	≤2.0 & > 0 ¹ in. wc							
		PDI-839-3	≤2.0 & > 0 ¹ in. wc							
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	'PDI-811-1	≤2.0 & > 0 ¹ in. wc							
		PDI-811-2	≤2.0 & > 0 ¹ in. wc							
		PDI-811-3	≤2.0 & > 0 ¹ in. wc							
OC Operator Review and Page Count Complete (initials)										

Non TSR requirement:

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

Completed by: [Signature] Date: 7/27/14 Time: 0820 Reviewed by: [Signature] Date: 7/27/14 Time: 1119

On-duty Supervisor

Comments

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

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0 ¹ in. wc	7/21/14	7-22-14	7/23/14	7-24-14	7/25/14	07/26/14	7/27/14	
		PDI-840-2	≤2.0 & > 0 in ¹ wc		.16	.52	STBY	STBY	.15	.16	
		PDI-840-3	≤2.0 & > 0 ¹ in. wc		.42	.42	STBY	STBY	.42	.42	
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0 ¹ in. wc		STBY	STBY	.45	.45	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0 ¹ in. wc		STBY	STBY	.54	.54	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0 ¹ in. wc		STBY	STBY	.50	.50	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0 ¹ in. wc		.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0 ¹ in. wc		.40	.40	.40	.40	.40	.40	.40
		PDI-831-3	≤2.0 & > 0 ¹ in. wc		.31	.32	.32	.32	.32	.32	.32
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0 ¹ in. wc		.31	.31	.31	.31	.31	.31	.31	
	PDI-832-2	≤2.0 & > 0 ¹ in. wc		.60	.60	.60	.60	.60	.60	.60	
	PDI-832-3	≤2.0 & > 0 ¹ 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 ¹ in. wc		.11	.11	.11	.11	.11	.11	
		PDI-807-2	≤2.0 & > 0 ¹ in. wc		.48	.48	.48	.48	.48	.48	
		PDI-807-3	≤2.0 & > 0 ¹ in. wc		.44	.44	.44	.44	.44	.44	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0 ¹ in. wc		OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0 ¹ in. wc		OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0 ¹ in. wc		OFF	OFF	OFF	OFF	OFF	OFF	

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0 ¹ in. wc	7/21/14 Mon.	7-22-14 Tue.	7/23/14 Wed.	7-24-14 Thu.	7/25/14 Fri.	07/26/14 Sat.	7/27/14 Sun.
		PDI-829-2	≤2.0 & > 0 ¹ in. wc	gn	PT	gn	PT	gn	min	gn
		PDI-829-3	≤2.0 & > 0 ¹ in. wc	.16	.11	.31	.16	.30	.15	.10
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	'PDI-833-1	≤2.0 & > 0 ¹ in. wc	.98	.99	.99	.99	.99	.99	.99
		PDI-833-2	≤2.0 & > 0 ¹ in. wc	.46	.45	.46	.47	.46	.45	.44
		PDI-833-3	≤2.0 & > 0 ¹ in. wc	.44	.44	.44	.44	.44	.44	.44
	100 area re-circulation filter plenum (HVP-804) AP	'PDI-835-1	≤2.0 & > 0 ¹ in. wc	.15	.15	.15	.15	.15	.15	.15
		PDI-835-2	≤2.0 & > 0 ¹ in. wc	.43	.43	.43	.43	.43	.43	.43
		PDI-835-3	≤2.0 & > 0 ¹ in. wc	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	'PDI-815-1	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-815-5	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-816-1	≤2.0 & > 0 ¹ in. wc	.35	.34	.35	.34	.35	.35	.35
		PDI-816-2	≤2.0 & > 0 ¹ in. wc	.41	.41	.41	.41	.41	.41	.41
	PDI-816-4	≤2.0 & > 0 ¹ in. wc	.40	.40	.40	.40	.40	.40	.40	
		PDI-816-5	≤2.0 & > 0 ¹ in. wc	.41	.41	.41	.41	.42	.41	.42

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

(Page 3 of 4)

SRs	Description	Gauge	SURVEILLANCE RESULTS (in. wc)									
			Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Weekday:	Initials:	Acceptance Criteria	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-812-2	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-812-3	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-812-4	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-812-5	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-813-2	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-813-3	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-813-4	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-813-5	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-865-2	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-865-3	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT
		PDI-863-2	≤.0 & > 0 ¹ in. wc	PT	PT	PT	PT	PT	PT	PT	PT	PT

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS														
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 > 0 ¹ in. wc	JM	7/21/14	Mon.	7/22/14	Tue.	7/23/14	Wed.	7/24/14	Thu.	7/25/14	Fri.	7/26/14	Sat.	7/27/14	Sun.	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 > 0 ¹ in. wc	JM															
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤ 2.0 > 0 ¹ in. wc	JM															
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 > 0 ¹ in. wc	JM															
			0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)																
			0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less																
				Completion time	0928	0814	1015	0935	0907	0705	0740								
				OC Operator Review and Page Count Complete (initials)	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM

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

Completed by: JM Date 7/22/14 Time 0740 Reviewed by: R.B.J. 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.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	07-28-14														
	Weekday:														
	Shift:														
	Initials:														
	Gauge Acceptance Criteria														
SRs	Description	SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	-1.94	-1.91	-1.92	-1.89	-1.91	-1.94	-1.93	-1.92	-1.94	-1.93	-1.92	-1.94	-1.93	-1.92
	100 area glovebox exhaust header ΔP	-1.97	-1.92	-1.92	-1.92	-1.93	-1.91	-1.91	-1.93	-1.91	-1.91	-1.93	-1.91	-1.91	-1.93
	300 area glovebox exhaust header ΔP	-1.99	-1.98	-1.98	-1.98	-1.99	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98
	400 area glovebox exhaust header ΔP	-1.98	-1.97	-1.97	-1.97	-1.98	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	-2.0	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9
	100 area laboratory header ΔP	-2.3	-2.1	-2.2	-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 ΔP	-2.2	-2.2	-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 ΔP	-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	-2.1
4.1.1.3 4.1.2.3 ²	IFIT Facility ΔP	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9
	North basement ΔP	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
	South basement ΔP	-1.2	-1.3	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2
	IRT Tunnel ΔP	-1.07	-1.15	-1.17	-1.11	-1.01	-1.18	-1.11	-1.01	-1.18	-1.11	-1.01	-1.18	-1.11	-1.01

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS										
				Sat. / Unsat. (circle one)										
<p>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.</p>	<p>200 area re-circulation fan/plenum</p>	<p>FR-801 Icon red and PDT-831 ΔP > .050 or FR-802 Icon red and PDT-832 ΔP > .050</p>	<p>At least one fan/plenum is in service</p>	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
				AM	PM	AM	PM	AM	PM	AM	PM			
				<p>Initials: <i>[Handwritten initials]</i></p>										
				<p>Date: 07-28-14 07-29-14 7/30/14 7/31/14</p>										
				<p>Weekday: Mon. Tue. Wed. Thu. Fri. Sat. Sun.</p>										
				<p>Shift: AM PM AM PM AM PM AM PM AM PM AM PM</p>										
<p>4.1.1.6</p>	<p>300 area re-circulation fan/plenum</p>	<p>FR-803 Icon red and PDT-833 ΔP > .050 or FR-804 Icon red and PDT-835 ΔP > .050</p>	<p>At least one fan/plenum is in service</p>	Sat	Sat	Sat	Sat	Sat	Sat	Sat				
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
				<p>Readings</p>										
				<p>Acceptance Criteria</p>										
				<p>SURVEILLANCE RESULTS</p>										
				<p>Sat. / Unsat. (circle one)</p>										
<p>4.1.1.6</p>	<p>400 area re-circulation fan/plenum</p>	<p>FR-805 Icon red and PDT-836 ΔP > .050 or FR-806 Icon red and PDT-837 ΔP > .050</p>	<p>At least one fan/plenum is in service</p>	Sat	Sat	Sat	Sat	Sat	Sat	Sat				
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
				<p>Readings</p>										
				<p>Acceptance Criteria</p>										
				<p>SURVEILLANCE RESULTS</p>										
				<p>Sat. / Unsat. (circle one)</p>										
<p>4.1.1.6</p>	<p>Vault re-circulation fan/plenum</p>	<p>FR-807 Icon red and PDT-838 ΔP > .050 or FR-808 Icon red and PDT-839 ΔP > .050</p>	<p>At least one fan/plenum is in service</p>	Sat	Sat	Sat	Sat	Sat	Sat	Sat				
				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
				<p>Readings</p>										
				<p>Acceptance Criteria</p>										
				<p>SURVEILLANCE RESULTS</p>										
				<p>Sat. / Unsat. (circle one)</p>										

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS								
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
4.1.1.4	Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	07-28-14	07-29-14	7/30/14	7/31/14					
			PDI-803-2										
			PDI-804-2										
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2									
			PDI-802-2										
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2											
	PDI-853-2												
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2											
	PDI-852-2												
Completion Time					0721	0718	0712	1023	0710	1930	0730	1944	

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

Completed by: at Date 7-31-14 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 (≥ -0.1 ; ≤ 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.
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	Initials:	AM	AM	AM	PT		
	CP-305-H (LED Reading)	Acceptance Criteria	NA					
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0		
		≥ -0.1 ; $\leq +0.1$	0.0	0.0	0.0	0.0		
		Completion Time:	0803	0807	0815	0800		

SURVEILLANCE RESULTS (percentage)

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

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤.0 & > 0 ¹ in. wc	7/28/14 Mon.	7/29/14 Tue.	7/30/14 Wed.	7/31/14 Thu.			
		PDI-838-2	≤.0 & > 0 ¹ in. wc							
		PDI-838-3	≤.0 & > 0 ¹ in. wc							
4.1.1.7	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤.0 & > 0 ¹ in. wc							
		PDI-839-2	≤.0 & > 0 ¹ in. wc							
		PDI-839-3	≤.0 & > 0 ¹ in. wc							
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤.0 & > 0 ¹ in. wc							
		PDI-810-2	≤.0 & > 0 ¹ in. wc							
		PDI-810-3	≤.0 & > 0 ¹ in. wc							
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤.0 & > 0 ¹ in. wc							
		PDI-811-2	≤.0 & > 0 ¹ in. wc							
		PDI-811-3	≤.0 & > 0 ¹ in. wc							
OC Operator Review and Page Count Complete (initials)				0837	0840	0854	0841			

¹Non 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:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	¹ PDI-840-1	≤.0 & > 0 ¹ in. wc	7/29/14		jm	.16	.16	7-31-14			
		PDI-840-2	≤.0 & > 0 in ¹ . wc				.52	.52				
		PDI-840-3	≤.0 & > 0 ¹ in. wc				.41	.41				
	Vault re-circulation filter plenum (HVP-812) ΔP	¹ PDI-841-1	≤.0 & > 0 ¹ in. wc				STBY	STBY				
		PDI-841-2	≤.0 & > 0 ¹ in. wc				STBY	STBY				
		PDI-841-3	≤.0 & > 0 ¹ in. wc				STBY	STBY				
	200 area re-circulation filter plenum (HVP-801) ΔP	¹ PDI-831-1	≤.0 & > 0 ¹ in. wc				.33	.33				
		PDI-831-2	≤.0 & > 0 ¹ in. wc				.40	.41				
		PDI-831-3	≤.0 & > 0 ¹ in. wc				.38	.38				
200 area re-circulation filter plenum (HVP-802) ΔP	¹ PDI-832-1	≤.0 & > 0 ¹ in. wc				.31	.31					
	PDI-832-2	≤.0 & > 0 ¹ in. wc				.40	.60					
	PDI-832-3	≤.0 & > 0 ¹ in. wc				.54	.56					
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	¹ PDI-807-1	≤.0 & > 0 ¹ in. wc				.11	OFF				
		PDI-807-2	≤.0 & > 0 ¹ in. wc				.48	OFF				
		PDI-807-3	≤.0 & > 0 ¹ in. wc				.45	OFF				
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	¹ PDI-809-1	≤.0 & > 0 ¹ in. wc				OFF	.07				
		PDI-809-2	≤.0 & > 0 ¹ in. wc				OFF	.49				
		PDI-809-3	≤.0 & > 0 ¹ in. wc				OFF	.45				

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

(Page 3 of 4)

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

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:	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	7/28/14	7/29/14	7/30/14	7-31-14				
		PDI-857-2	≤ 2.0 & > 0 ¹ in. wc								
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0 ¹ in. wc								
		PDI-856-2	≤ 2.0 & > 0 ¹ 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 ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT				
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT				
			Completion time	0847	0822	1001	0847				
			OC Operator Review and Page Count Complete (initials)	PA	BB	BB	BB				

¹ Non TSR requirement

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

Completed by: Paul Zygalski Date 7-31-14 Time 0847 Reviewed by: [Signature] Date: 7/31/14 Time: 1030

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.	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	7/7/14	RB/AB
*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	RH
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds 4.5 Seconds	Sat / Unsat.	13:54	7/2/14	RH
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds 4.5 Seconds	Sat / Unsat.	13:54	7/2/14	RH

*Note: Monthly Inspection of DR-344 and DR-102 in accordance with compensatory measure(s) from: Request for Permanent Equivalency to OE Order-420, IB Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANL Building TA55-4 (PF-4): Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANL-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 ≤ 30 seconds. 7 Seconds	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	14:03	7/2/14	RA
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	14:05	7/2/14	RA
4.1.3.2	Confinement Door DR-90	South Basement Door (Tunnel)	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	11:30	7/7/14	NA
					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: ATENCIO 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)

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	Sat/ 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).	Sat/ 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).	Sat/ 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	Sat/ Unsat.	1344 1345 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.	Sat/ Unsat.	1346	7-30-14	mm
			4.97 Seconds				

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

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

(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds. 6.97 Seconds	<input checked="" type="radio"/> Sat <input type="radio"/> Unsat.	1351	7-30-14	<i>mm</i>
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.	1404	7-30-14	<i>mm</i>
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.	1359	7-30-14	<i>mm</i>
OC Operator Review and Page Count Complete							

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: *Walter M. ...* Date: 7-30-14 Time: 1418 Reviewed by: *BBB* Date: 7-30-14 Time: 1422

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

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

Completed by: [Signature] Date 07.01.14 Time 0610
 Reviewed by: [Signature] Date 7/1/14 Time 0835
 On-duty Supervisor

Comments:

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] Signature 9/3/14 Date

Required Reading for this Surveillance has been completed.

Training Checklist

Workers Performing Surveillance	Applicable Surveillance Training Current	
	Initials	Date
R BRISCOE	<i>[Initials]</i>	8-1-14
B CHANCE	<i>[Initials]</i>	8-1-14
D DUNLAUV	<i>[Initials]</i>	8-1-14
A DUNSEITH	<i>[Initials]</i>	8-1-14
J LOVATO	<i>[Initials]</i>	8-1-14
R LUM	<i>[Initials]</i>	8-1-14
A ORTIZ	<i>[Initials]</i>	8-1-14
F SAYBERT	<i>[Initials]</i>	8-1-14
J SMILETZ	<i>[Initials]</i>	8-1-14
A WITTMAN <i>[Signature]</i> 8-1-14		

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

Note	Date:	Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.		
		Description	Gauge Acceptance Criteria	Initials:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
					Shift:	AM	PM									
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.																
SRs	Description	Gauge Acceptance Criteria	Initials:													
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤1.0 in. wc														
	100 area glovebox exhaust header ΔP	≤1.0 in. wc														
	300 area glovebox exhaust header ΔP	≤1.0 in. wc														
	400 area glovebox exhaust header ΔP	≤1.0 in. wc														
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤0.05 in. wc														
	100 area laboratory header ΔP	≤0.05 in. wc														
	300 area laboratory header ΔP	≤0.05 in. wc														
	400 area laboratory header ΔP	≤0.05 in. wc														
4.1.1.3 4.1.2.3 ²	North basement ΔP	<0.00 in. wc														
	South basement ΔP	<0.00 in. wc														
	IRT Tunnel ΔP	<0.00 in. wc														

SURVEILLANCE RESULTS
(in. wc)

FOR INFORMATION ONLY

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

(Page 1 of 4)

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

		Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Weekday:					8-2-14	8-2-14	8-3-14
		Initials:					PT	PT	PT
SURVEILLANCE RESULTS (percentage)									
SR 4.4.1.1	Description / Gauge Flammable Gas Channel Check DET-305-3 (LCD Reading)	Acceptance Criteria							
	CP-305-H (LED Reading)	NA					0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value $\geq -0.1;$ $\leq +0.1$					0.0	0.0	0.0
		Completion Time:					0807	0815	0755

FOR INFORMATION ONLY

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤2.0 & > 0' in. wc							8-1-14	8-2-14	8-3-14
		PDI-894-2	≤2.0 & > 0' in. wc									
4.1.3.4	South Corridor supply (HVP-810) ΔP	'PDI-895-1	≤2.0 & > 0' in. wc									
		PDI-895-2	≤2.0 & > 0' in. wc									
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	'PDI-817-1	≤2.0 & > 0' in. wc									
		PDI-817-2	≤2.0 & > 0' in. wc									
		PDI-817-4	≤2.0 & > 0' in. wc									
		PDI-817-5	≤2.0 & > 0' in. wc									
		PDI-819-1	≤2.0 & > 0' in. wc									
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-3	≤2.0 & > 0' in. wc									
		PDI-819-4	≤2.0 & > 0' in. wc									
		'PDI-818-1	≤2.0 & > 0' in. wc									
		PDI-818-2	≤2.0 & > 0' in. wc									
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-4	≤2.0 & > 0' in. wc									
		PDI-818-5	≤2.0 & > 0' in. wc									
		PDI-821-1	≤2.0 & > 0' in. wc									
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									

FORM INFORMATION ONLY

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	'PDI-822-1	≤2.0 & > 0 ¹ in. wc							8-1-14	8-2-14	8-3-14
		PDI-822-2	≤2.0 & > 0 ¹ in. wc							STBY	.84	.84
		PDI-822-4	≤2.0 & > 0 ¹ in. wc							STBY	.54	.55
		PDI-822-5	≤2.0 & > 0 ¹ in. wc							STBY	.48	.49
		'PDI-823-1	≤2.0 & > 0 ¹ in. wc							STBY	.51	.51
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) ΔP	PDI-823-2	≤2.0 & > 0 ¹ in. wc							.24	STBY	STBY
		PDI-823-4	≤2.0 & > 0 ¹ in. wc							.49	STBY	STBY
		PDI-823-5	≤2.0 & > 0 ¹ in. wc							.50	STBY	STBY
		'PDI-830-1	≤2.0 & > 0 ¹ in. wc							.51	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) ΔP	PDI-830-2	≤2.0 & > 0 ¹ in. wc							.60	.60	.60
		PDI-830-3	≤2.0 & > 0 ¹ in. wc							.30	.30	.30
		'PDI-836-1	≤2.0 & > 0 ¹ in. wc							.29	.29	.29
4.1.1.7	300 area re-circulation filter plenum (HVP-805) ΔP	PDI-836-2	≤2.0 & > 0 ¹ in. wc							.96	.96	.96
		PDI-836-3	≤2.0 & > 0 ¹ in. wc							.58	.58	.58
		'PDI-837-1	≤2.0 & > 0 ¹ in. wc							.53	.54	.54
		PDI-837-2	≤2.0 & > 0 ¹ in. wc							.50	.50	.50
		PDI-837-3	≤2.0 & > 0 ¹ in. wc						.41	.41	.41	
									.40	.40	.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.	Sun.	
				Weekday:	Initials:							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	PDI-838-1	≤ 0.0 & > 0.1 in. wc							8-1-14	8-2-14	8-3-14
		PDI-838-2	≤ 0.0 & > 0.1 in. wc									
		PDI-838-3	≤ 0.0 & > 0.1 in. wc									
4.1.3.4	400 area re-circulation filter plenum (HVP-808) ΔP	PDI-839-1	≤ 0.0 & > 0.1 in. wc									
		PDI-839-2	≤ 0.0 & > 0.1 in. wc									
		PDI-839-3	≤ 0.0 & > 0.1 in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822A) ΔP	PDI-810-1	≤ 0.0 & > 0.1 in. wc									
		PDI-810-2	≤ 0.0 & > 0.1 in. wc									
		PDI-810-3	≤ 0.0 & > 0.1 in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	PDI-811-1	≤ 0.0 & > 0.1 in. wc									
		PDI-811-2	≤ 0.0 & > 0.1 in. wc									
		PDI-811-3	≤ 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	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤ 2.0 & > 0' in. wc							8-1-14	8-2-14	8-3-14
		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									

CONFIDENTIAL INFORMATION ONLY

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
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								
		PDI-829-3	≤ 2.0 & > 0' in. wc								
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								
4.1.3.4	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								
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-816-4	≤ 2.0 & > 0' in. wc								
		PDI-816-5	≤ 2.0 & > 0' in. wc								

Initials: PT BC PT

PROHIBITED INFORMATION ONLY

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

(Page 3 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0 ¹ in. wc						8-1-14	08-02-14	8-3-14
		PDI-812-2	≤2.0 & > 0 ¹ in. wc								
		PDI-812-3	≤2.0 & > 0 ¹ in. wc								
		PDI-812-4	≤2.0 & > 0 ¹ in. wc								
		PDI-812-5	≤2.0 & > 0 ¹ in. wc								
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0 ¹ in. wc								
		PDI-813-2	≤2.0 & > 0 ¹ in. wc								
		PDI-813-3	≤2.0 & > 0 ¹ in. wc								
		PDI-813-4	≤2.0 & > 0 ¹ in. wc								
		PDI-813-5	≤2.0 & > 0 ¹ in. wc								
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ¹ in. wc								
		PDI-865-2	≤2.0 & > 0 ¹ in. wc								
		PDI-865-3	≤2.0 & > 0 ¹ in. wc								
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ¹ in. wc								
		PDI-863-2	≤2.0 & > 0 ¹ in. wc								

CONFIDENTIAL INFORMATION ONLY

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

(Page 4 of 4)

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

1 Non TSR requirement

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

Completed by: Paul D'Agostino Date 8-3-14 Time 0758 Reviewed by: _____

Comments: _____

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

ATTACHMENT A: Per Shift Surveillance Rounds [UET]
(Page 1 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:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM												
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	Initials:	K		a		BZ		BZ		K		K		K	
		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	
4.1.1.1 4.1.2.1 ²	Gauge Acceptance Criteria (in. wc)	≤ -1.0 in. wc													
		-1.93		-1.92		-1.91		-1.90		-1.89		-1.88		-1.87	
4.1.1.2 4.1.1.5 4.1.2.2 ²	Gauge Acceptance Criteria (in. wc)	≤ -0.05 in. wc													
		-0.21		-0.20		-0.19		-0.18		-0.17		-0.16		-0.15	
4.1.1.3 4.1.2.3 ²	Gauge Acceptance Criteria (in. wc)	< 0.00 in. wc													
		-0.12		-0.11		-0.10		-0.09		-0.08		-0.07		-0.06	

SURVEILLANCE RESULTS

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS										
					Sat. / Unsat. (circle one)										
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
4.1.1.4	Glovebox exhaust header ΔPs < laboratory ΔPs < basement ΔPs for areas 100, 200, 300 and 400	PDI-814-2	PDI-803-2	PDI-804-2	PDI-814-2 < PDI-803-2 < PDI-804-2	8/4/14	8/5/14	8/6/14	8/7/14	8/8/14	8/9/14	8/10/14			
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
		0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600		
		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
PDI-820-2	PDI-802-2	PDI-804-2	PDI-820-2 < PDI-802-2 < PDI-804-2	8/4/14	8/5/14	8/6/14	8/7/14	8/8/14	8/9/14	8/10/14					
AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM				
0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600				
Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat				
Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat				
PDI-870-2	PDI-853-2	PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2	8/4/14	8/5/14	8/6/14	8/7/14	8/8/14	8/9/14	8/10/14					
AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM				
0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600				
Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat				
Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat				
PDI-864-2	PDI-852-2	PDI-854-2	PDI-864-2 < PDI-852-2 < PDI-854-2	8/4/14	8/5/14	8/6/14	8/7/14	8/8/14	8/9/14	8/10/14					
AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM				
0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600				
Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat				
Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat				
Completion Time					0735	1431	0765	1926	0729	1912	0700	1928	0725	1928	1926

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

Completed by: REY REIC / MS Date: 8/10/14 Time: 1926 Reviewed by: [Signature] Date: 8/11/14 Time: 1626
 On-Shift Supervisor

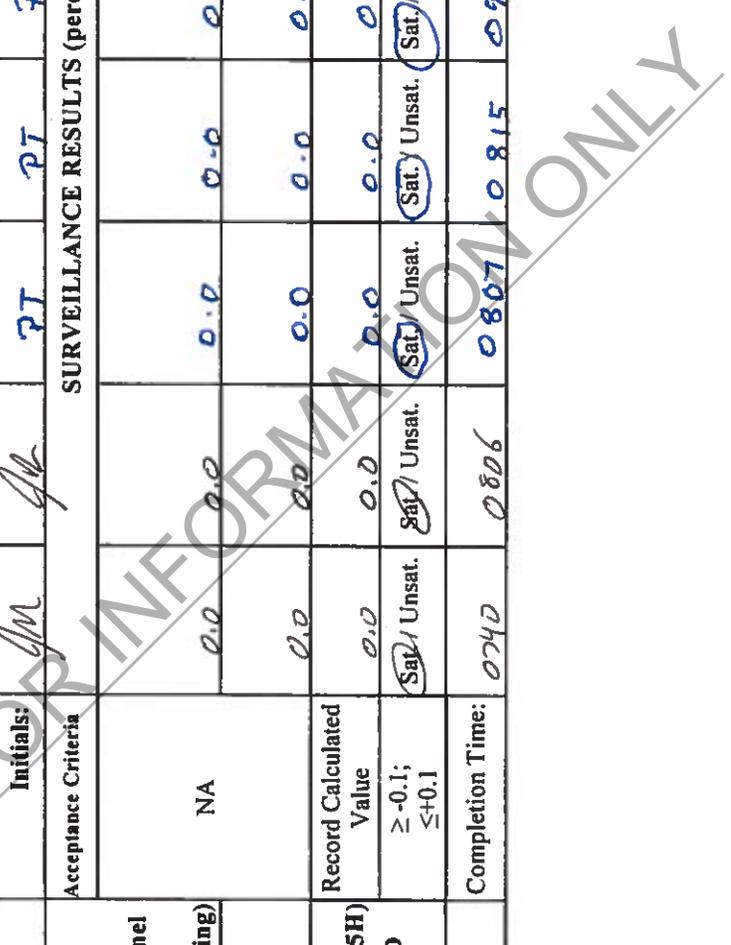
Comments:

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

(Page 1 of 4)

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

SR	Description / Gauge	Date:	8/4/14	8/5/14	8-6-14	8-7-14	8-8-14	8/8/14	8/10/14
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	GM	AK	PT	PT	PT	WNT	WNT
	Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1 ; $\leq +0.1$	Sat / Unsat.						
	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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤ 2.0 & > 0' in. wc	8/4/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-894-2	≤ 2.0 & > 0' in. wc	8/5/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
	South Corridor supply (HVP-810) ΔP	'PDI-895-1	≤ 2.0 & > 0' in. wc	8/4/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-895-2	≤ 2.0 & > 0' in. wc	8/5/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	'PDI-817-1	≤ 2.0 & > 0' in. wc	8/4/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-817-2	≤ 2.0 & > 0' in. wc	8/5/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-817-4	≤ 2.0 & > 0' in. wc	8/4/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-817-5	≤ 2.0 & > 0' in. wc	8/5/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-819-1	≤ 2.0 & > 0' in. wc	8/4/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-3	≤ 2.0 & > 0' in. wc	8/4/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-819-4	≤ 2.0 & > 0' in. wc	8/5/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		'PDI-818-1	≤ 2.0 & > 0' in. wc	8/4/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-818-2	≤ 2.0 & > 0' in. wc	8/5/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-818-4	≤ 2.0 & > 0' in. wc	8/4/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-818-5	≤ 2.0 & > 0' in. wc	8/5/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-821-1	≤ 2.0 & > 0' in. wc	8/4/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-3	≤ 2.0 & > 0' in. wc	8/5/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14
		PDI-821-4	≤ 2.0 & > 0' in. wc	8/4/14	PT	8-6-14	PT	8-7-14	PT	8-8-14	PT	8/10/14

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday: Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) ΔP	'PDI-822-1	≤2.0 & >0' in. wc	8-4-14 Mon. AS	8-5-14 Tue. Jm	8-6-14 Wed. PT	8-7-14 Thu. PT	8-8-14 Fri. PT	8-9-14 Sat. Wm	8-10-14 Sun. DHO	
		PDI-822-2	≤2.0 & >0' in. wc	.83	.82	.84	.84	.82	.82	.83	
		PDI-822-4	≤2.0 & >0' in. wc	.55	.55	.55	.55	.55	.55	.55	.55
		PDI-822-5	≤2.0 & >0' in. wc	.48	.48	.49	.48	.48	.48	.48	.48
		'PDI-823-1	≤2.0 & >0' in. wc	.52	.52	.52	.52	.51	.50	.52	
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	.59	.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	.30	.30	
		PDI-830-3	≤2.0 & >0' in. wc	.28	.28	.28	.28	.29	.28	.28	
		'PDI-836-1	≤2.0 & >0' in. wc	.97	.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	.58	.58	
		PDI-836-3	≤2.0 & >0' in. wc	.55	.55	.55	.55	.55	.55	.55	
		'PDI-837-1	≤2.0 & >0' in. wc	.50	.50	.50	.49	.49	.50	.50	
4.1.1.7	300 area re-circulation filter plenum (HVP-806) ΔP	PDI-837-2	≤2.0 & >0' in. wc	.42	.42	.42	.41	.41	.41	.41	
		PDI-837-3	≤2.0 & >0' in. wc	.39	.39	.39	.39	.37	.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	8-9-14	8-10-14
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:						
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
		PDI-838-2	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39
4.1.3.4	400 area re-circulation filter plenum (HVP-808) ΔP	'PDI-839-1	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0' in. wc	.45	.45	.45	.44	.44	.44	.46
		PDI-839-3	≤2.0 & > 0' in. wc	.45	.45	.44	.43	.44	.43	.46
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	.12	.12	.12	.12
		PDI-811-2	≤2.0 & > 0' in. wc	.48	.48	.49	.49	.49	.49	.49
		PDI-811-3	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.48	.49
OC Operator Review and Page Count Complete (initials)				0802	0820	0821	0855	0803	0808	0840

'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: DLD Date: 8/10/14 Time: 0840 Reviewed by: [Signature] Date: 8/10/14 Time: 1620

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.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & >0 ¹ in. wc	gm	8/4/14	8-5-14	8/6/14	8-7-14	8-8-14	8-9-14	8/10/14
		PDI-840-2	≤2.0 & >0 ¹ in. wc								
		PDI-840-3	≤2.0 & >0 ¹ in. wc								
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & >0 ¹ in. wc								
		PDI-841-2	≤2.0 & >0 ¹ in. wc								
		PDI-841-3	≤2.0 & >0 ¹ in. wc								
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & >0 ¹ in. wc								
		PDI-831-2	≤2.0 & >0 ¹ in. wc								
		PDI-831-3	≤2.0 & >0 ¹ in. wc								
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & >0 ¹ in. wc									
	PDI-832-2	≤2.0 & >0 ¹ in. wc									
	PDI-832-3	≤2.0 & >0 ¹ in. wc									
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & >0 ¹ in. wc								
		PDI-807-2	≤2.0 & >0 ¹ in. wc								
		PDI-807-3	≤2.0 & >0 ¹ in. wc								
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & >0 ¹ in. wc								
		PDI-809-2	≤2.0 & >0 ¹ in. wc								
		PDI-809-3	≤2.0 & >0 ¹ in. wc								

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

(Page 2 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
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	.15
		PDI-829-2	≤2.0 & >0' in. wc	.29	.29	.30	.32	.39	.40	.40
		PDI-829-3	≤2.0 & >0' in. wc	.12	.12	.14	.18	.21	.20	.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	.99
		PDI-833-2	≤2.0 & >0' in. wc	.48	.48	.48	.48	.48	.48	.48
		PDI-833-3	≤2.0 & >0' in. wc	.48	.48	.48	.48	.48	.45	.48
	100 area re-circulation filter plenum (HVP-804) ΔP	'PDI-835-1	≤2.0 & >0' in. wc	.15	.15	.15	.15	.15	.15	.15
		PDI-835-2	≤2.0 & >0' in. wc	.44	.44	.44	.44	.44	.45	.45
		PDI-835-3	≤2.0 & >0' 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' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-2	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-815-5	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-816-1	≤2.0 & >0' in. wc	.35	.35	.35	.35	.35	.35	.35
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) ΔP	PDI-816-2	≤2.0 & >0' in. wc	.41	.41	.41	.41	.41	.40	.41
		PDI-816-4	≤2.0 & >0' in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-816-5	≤2.0 & >0' in. wc	.42	.42	.42	.42	.42	.45	.42

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.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1 PDI-857-2	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	gr	8-5-14	8-5-14	8-6-14	8-7-14	8-8-14	8-9-14	8-10-14	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1 PDI-856-2	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	gr	PT	PT	gr	PT	PT	PT	0800	
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)									
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less									
					Completion time	0800	0833	0811	0951	0950	0945	0830
					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: DRD Date: 8/12/14 Time: 0830

Reviewed by: [Signature] Date: 8/11/14 Time: 1620

On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

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

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	Date: 08-11-14							
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-803-2	PDI-803-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2	PDI-804-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM		
	PDI-853-2	PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM		
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM		
	PDI-852-2	PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM		
				Completion Time	0723	0718	0721	0727	0724	0726	0712	

SURVEILLANCE RESULTS

Sat. / Unsat. (circle one)

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

Completed by: [Signature] Date: 8/11/14 Time: 1924 Reviewed by: [Signature] Date: 8/19/14 Time: 0641

On-duty Supervisor

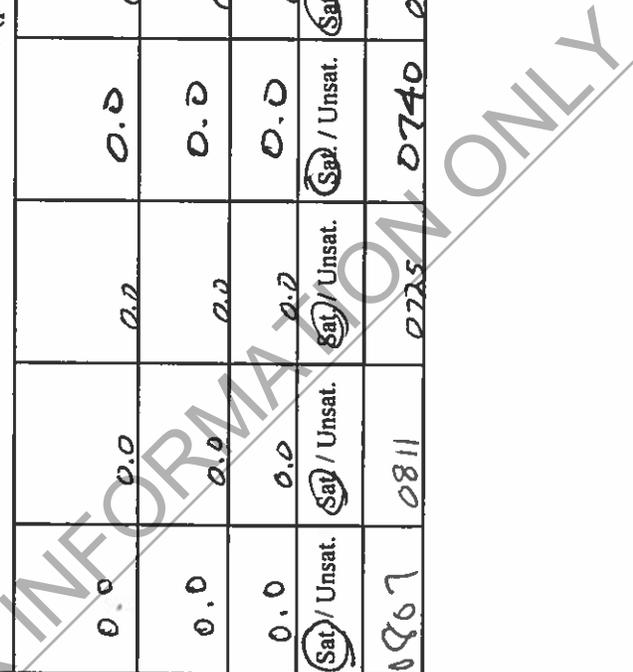
Comments:

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

(Page 1 of 4)

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

SR	Description / Gauge	Date:	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	RL	RL
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
		≥ -0.1 ; $\leq +0.1$	(Sat) / Unsat.						
	Completion Time:	0807	0811	0725	0740	0731	0809	0840	



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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) ΔP	'PDI-838-1	≤2.0 & >0' in. wc	8-11-14	Mon.	OS	.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	.38	.39	.39	.39
4.1.3.4	400 area re-circulation filter plenum (HVP-808) ΔP	'PDI-839-1	≤2.0 & >0' in. wc	8-12-14	Tue.	JW	.31	.31	.32	.31	.31	.31	.31
		PDI-839-2	≤2.0 & >0' in. wc				.44	.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	8-13-14	Wed.	mm	OFF						
		PDI-810-2	≤2.0 & >0' in. wc				OFF						
		PDI-810-3	≤2.0 & >0' in. wc				OFF						
4.1.3.4	South Bleed off filter plenum (FF-822B) ΔP	'PDI-811-1	≤2.0 & >0' in. wc	8-14-14	Thu.	ZT	.11	.11	.11	.11	.11	.12	.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
OC Operator Review and Page Count Complete (initials)				8-15-14	Fri.	JW	0823	0823	0803	0804	0850	0852	0917

*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: 8/14/14 Time: 0917

Reviewed by: [Signature] Date: 8/19/14 Time: 0641

On-duty Supervisor

Comments

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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: 8-11-14	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:				DS	JM	JM	PT	RL	RLH	RA	
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤ 0.0 > 0.1 in. wc	STBY	STBY	STBY	STBY	STBY	.16	.16	
		PDI-840-2	≤ 2.0 > 0 in. wc	STBY	STBY	STBY	STBY	STBY	.59	.59	
		PDI-840-3	≤ 2.0 > 0.1 in. wc	STBY	STBY	STBY	STBY	STBY	.41	.41	
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤ 2.0 > 0.1 in. wc	.45	.45	.45	.45	.45	.45	.45	.45
		PDI-841-2	≤ 2.0 > 0.1 in. wc	.55	.56	.56	.56	.56	.56	.56	.56
		PDI-841-3	≤ 2.0 > 0.1 in. wc	.50	.50	.50	.50	.50	.50	.50	.50
4.1.1.4	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤ 2.0 > 0.1 in. wc	.33	.33	.33	.33	.33	.33	.33	
		PDI-831-2	≤ 2.0 > 0.1 in. wc	.41	.41	.41	.41	.41	.41	.41	
		PDI-831-3	≤ 2.0 > 0.1 in. wc	.35	.37	.37	.38	.38	.38	.37	
	200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤ 2.0 > 0.1 in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-832-2	≤ 2.0 > 0.1 in. wc	.60	.60	.60	.60	.60	.60	.60	.60
		PDI-832-3	≤ 2.0 > 0.1 in. wc	.55	.56	.56	.56	.56	.56	.55	.55
4.1.1.3	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤ 2.0 > 0.1 in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-807-2	≤ 2.0 > 0.1 in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-807-3	≤ 2.0 > 0.1 in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
4.1.1.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤ 2.0 > 0.1 in. wc	.07	.07	.07	.07	.07	.07	.07	
		PDI-809-2	≤ 2.0 > 0.1 in. wc	.49	.49	.49	.49	.49	.49	.49	
		PDI-809-3	≤ 2.0 > 0.1 in. wc	.41	.42	.42	.41	.41	.41	.41	

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	8-11-14	8-12-14	8-13-14	8-14-14	8-15-14	8-16-14	8-17-14	
		PDI-857-2	≤ 2.0 & > 0' in. wc	AS	AS	AS	PT	PT	PT	PT	PT
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc								
		PDI-856-2	≤ 2.0 & > 0' in. wc								
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less								
			Completion time								
OC Operator Review and Page Count Complete (initials)				0955	0945	0950	0818	0730	0852	0914	

'Non TSR requirement'
 Note: SR 4 supplies during mode 1 and mode 2.

Completed by: [Signature] Date: 8/17/14 Time: 0914
 Reviewed by: [Signature] Date: 8/17/14 Time: 0641

OC Operator Review and Page Count Complete (initials)

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds (UET)

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS											
				Sat. / Unsat. (circle one)											
4.1.1.6	Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDI's may be used if FCS is unavailable.	At least one fan/plenum is in service	At least one fan/plenum is in service	Date:	08-18-14	08-19-14	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			
				Initials:	EC	EC	EC	BCA	BCA	u	u	u			
				Readings	FIR-801 Icon red and PDI-831 AP > .050 or FIR-802 Icon red and PDI-832 AP > .050	FIR-803 Icon red and PDI-833 AP > .050 or FIR-804 Icon red and PDI-835 AP > .050	FIR-805 Icon red and PDI-836 AP > .050 or FIR-806 Icon red and PDI-837 AP > .050	FIR-807 Icon red and PDI-838 AP > .050 or FIR-808 Icon red and PDI-839 AP > .050	FIR-811 Icon red and PDI-840 AP > .050 or FIR-812 Icon red and PDI-841 AP > .050	Sat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	FIR-801 Icon red and PDI-831 AP > .050 or FIR-802 Icon red and PDI-832 AP > .050	FIR-803 Icon red and PDI-833 AP > .050 or FIR-804 Icon red and PDI-835 AP > .050	FIR-805 Icon red and PDI-836 AP > .050 or FIR-806 Icon red and PDI-837 AP > .050	FIR-807 Icon red and PDI-838 AP > .050 or FIR-808 Icon red and PDI-839 AP > .050	FIR-811 Icon red and PDI-840 AP > .050 or FIR-812 Icon red and PDI-841 AP > .050	Sat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	FIR-801 Icon red and PDI-831 AP > .050 or FIR-802 Icon red and PDI-832 AP > .050	FIR-803 Icon red and PDI-833 AP > .050 or FIR-804 Icon red and PDI-835 AP > .050	FIR-805 Icon red and PDI-836 AP > .050 or FIR-806 Icon red and PDI-837 AP > .050	FIR-807 Icon red and PDI-838 AP > .050 or FIR-808 Icon red and PDI-839 AP > .050	FIR-811 Icon red and PDI-840 AP > .050 or FIR-812 Icon red and PDI-841 AP > .050	Sat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	FIR-801 Icon red and PDI-831 AP > .050 or FIR-802 Icon red and PDI-832 AP > .050	FIR-803 Icon red and PDI-833 AP > .050 or FIR-804 Icon red and PDI-835 AP > .050	FIR-805 Icon red and PDI-836 AP > .050 or FIR-806 Icon red and PDI-837 AP > .050	FIR-807 Icon red and PDI-838 AP > .050 or FIR-808 Icon red and PDI-839 AP > .050	FIR-811 Icon red and PDI-840 AP > .050 or FIR-812 Icon red and PDI-841 AP > .050	Sat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	FIR-801 Icon red and PDI-831 AP > .050 or FIR-802 Icon red and PDI-832 AP > .050	FIR-803 Icon red and PDI-833 AP > .050 or FIR-804 Icon red and PDI-835 AP > .050	FIR-805 Icon red and PDI-836 AP > .050 or FIR-806 Icon red and PDI-837 AP > .050	FIR-807 Icon red and PDI-838 AP > .050 or FIR-808 Icon red and PDI-839 AP > .050	FIR-811 Icon red and PDI-840 AP > .050 or FIR-812 Icon red and PDI-841 AP > .050	Sat	Unsat	Unsat	Unsat	Unsat	Unsat
				Readings	FIR-801 Icon red and PDI-831 AP > .050 or FIR-802 Icon red and PDI-832 AP > .050	FIR-803 Icon red and PDI-833 AP > .050 or FIR-804 Icon red and PDI-835 AP > .050	FIR-805 Icon red and PDI-836 AP > .050 or FIR-806 Icon red and PDI-837 AP > .050	FIR-807 Icon red and PDI-838 AP > .050 or FIR-808 Icon red and PDI-839 AP > .050	FIR-811 Icon red and PDI-840 AP > .050 or FIR-812 Icon red and PDI-841 AP > .050	Sat	Unsat	Unsat	Unsat	Unsat	Unsat

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	08-18-14	8/19/14	08-20-14	08-21-14	8/22/14	8/23/14	8/24/14	
			PDI-803-2									
			PDI-804-2									
			PDI-820-2									
		100 Area	PDI-802-2	PDI-820-2 < PDI-804-2								
			PDI-804-2									
			PDI-870-2									
			PDI-853-2									
		300 Area	PDI-854-2	PDI-870-2 < PDI-853-2 < PDI-854-2								
			PDI-864-2									
			PDI-852-2									
			PDI-854-2									
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2								
			PDI-852-2									
			PDI-854-2									
			Completion Time									

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

Completed by: [Signature] Date: 8-29-14 Time: 1928 Reviewed by: [Signature] Date: 8/25/14 Time: 0645
 On-duty Supervisor

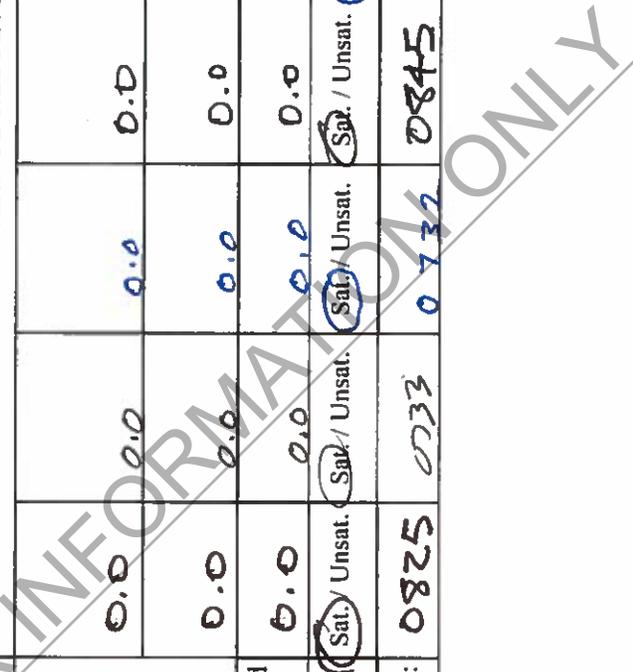
Comments:

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:	PT	<i>ju</i>	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	
	(DET-305-3) - (CP-305H)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(LCD Reading) (LED Reading)	$\geq -0.1;$ $\leq +0.1$	(Sat.) Unsat.	(Sat.) Unsat.	(Sat.) Unsat.	(Sat.) Unsat.	(Sat.) Unsat.	(Sat.) Unsat.	(Sat.) Unsat.	
	Completion Time:		0825	0733	0732	0845	0758	0800	0807	



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

(Page 3 of 4)

SRS	Description	Gauge	Acceptance Criteria	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:	RLT	JA	PT	RH	mm	PT	PT
SURVEILLANCE RESULTS (in. wc)											
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0 ¹ in. wc	.81	.82	.82	.82	.83	.67	.70	.73
		PDI-822-2	≤2.0 & > 0 ¹ in. wc	.52	.55	.54	.54	.54	.50	.50	.50
		PDI-822-4	≤2.0 & > 0 ¹ in. wc	.48	.48	.48	.47	.47	.40	.40	.41
		PDI-822-5	≤2.0 & > 0 ¹ in. wc	.51	.51	.51	.51	.51	.47	.45	.49
		PDI-823-1	≤2.0 & > 0 ¹ in. wc	Stby	Stby	Stby	Stby	Stby	Stby	Stby	Stby
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0 ¹ in. wc	Stby	Stby	Stby	Stby	Stby	Stby	Stby	Stby
		PDI-823-4	≤2.0 & > 0 ¹ in. wc	Stby	Stby	Stby	Stby	Stby	Stby	Stby	Stby
		PDI-823-5	≤2.0 & > 0 ¹ in. wc	Stby	Stby	Stby	Stby	Stby	Stby	Stby	Stby
		PDI-830-1	≤2.0 & > 0 ¹ in. wc	.60	.59	.60	.60	.60	.61	.61	.61
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0 ¹ in. wc	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-830-3	≤2.0 & > 0 ¹ in. wc	.28	.28	.28	.28	.28	.27	.28	.28
		PDI-836-1	≤2.0 & > 0 ¹ in. wc	.97	.96	.97	.97	.97	.97	.97	.97
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0 ¹ in. wc	.58	.57	.58	.58	.58	.56	.58	.58
		PDI-836-3	≤2.0 & > 0 ¹ in. wc	.54	.54	.54	.54	.54	.56	.55	.55
		PDI-837-1	≤2.0 & > 0 ¹ in. wc	.50	.49	.50	.50	.50	.50	.50	.50
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤2.0 & > 0 ¹ in. wc	.40	.41	.41	.40	.40	.41	.41	.41
		PDI-837-3	≤2.0 & > 0 ¹ in. wc	.39	.39	.39	.39	.39	.38	.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:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.1.7	400 area re-circulation filter plenum (IIVP-807) AP	'PDI-838-1	≤ 2.0 & > 0' in. wc	8/18/14	8/19/14	8-20-14	8-21-14	8-22-14	8-23-14	8-24-14	
		PDI-838-2	≤ 2.0 & > 0' in. wc								
		PDI-838-3	≤ 2.0 & > 0' in. wc								
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤ 2.0 & > 0' in. wc								
		PDI-810-2	≤ 2.0 & > 0' in. wc								
		PDI-810-3	≤ 2.0 & > 0' in. wc								
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤ 2.0 & > 0' in. wc								
		PDI-811-2	≤ 2.0 & > 0' in. wc								
		PDI-811-3	≤ 2.0 & > 0' in. wc								
OC Operator Review and Page Count Complete (initials)											

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in 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 8-24-14 Time 0801 Reviewed by: [Signature] Date: 8/25/14 Time: 0645

On-duty Supervisor

Comments 8/19/14 4134 combustion still in room 42. Airway results, closer than 3 feet of lab door. Notified cps.

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:						
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0 ¹ in. wc	17	17	17	17	17	17	17
		PDI-812-2	≤2.0 & > 0 ¹ in. wc	38	38	38	38	38	37	38
		PDI-812-3	≤2.0 & > 0 ¹ in. wc	39	39	39	39	39	39	39
		PDI-812-4	≤2.0 & > 0 ¹ in. wc	36	35	35	35	34	35	35
		PDI-812-5	≤2.0 & > 0 ¹ in. wc	32	32	32	31	31	31	31
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0 ¹ in. wc	STBY						
		PDI-813-2	≤2.0 & > 0 ¹ in. wc	STBY						
		PDI-813-3	≤2.0 & > 0 ¹ in. wc	STBY						
		PDI-813-4	≤2.0 & > 0 ¹ in. wc	STBY						
		PDI-813-5	≤2.0 & > 0 ¹ in. wc	STBY						
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ¹ in. wc	03	03	03	03	03	03	03
		PDI-865-2	≤2.0 & > 0 ¹ in. wc	31	32	32	31	31	32	32
		PDI-865-3	≤2.0 & > 0 ¹ in. wc	40	40	39	40	40	40	40
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ¹ in. wc	05	06	05	05	06	06	06
		PDI-863-2	≤2.0 & > 0 ¹ in. wc	28	27	26	27	28	28	28

FOR INFORMATION ONLY

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

(Page 4 of 4)

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

1 Non TSR requirement

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

Completed by: Paul Zujewski Date 8/24/14 Time 0813 Reviewed by: [Signature] On-duty Supervisor

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

Date: 8/25/14 Time: 0645

[Signature] On-duty Supervisor

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

9/27/14

SRs	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)														
			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:			EC		EC		EC		EC		EC		EC		EC		
4.1.1.1	200 area glovebox exhaust header AP	≤ -1.0 in. wc ¹	-1.98	-1.95	-1.98	-1.99	-1.92	-1.95	-1.95	-1.95	-1.95	-1.95	-1.95	-1.95	-1.95	-1.93	
	100 area glovebox exhaust header AP	≤ -1.0 in. wc ¹	-1.94	-1.91	-1.93	-1.93	-1.90	-1.92	-1.91	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.93
4.1.2.1 ²	300 area glovebox exhaust header AP	≤ -1.0 in. wc ¹	-1.99	-1.98	-1.98	-1.97	-1.90	-1.99	-1.96	-1.99	-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	-2.00	-1.97	-2.01	-1.97	-1.99	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.97	-1.98	-1.98
4.1.1.2	200 area laboratory header AP	≤ -0.05 in. wc ¹	-2.20	-2.20	-2.20	-2.20	-2.17	-2.20	-2.19	-2.20	-2.19	-2.19	-2.19	-2.19	-2.19	-2.20	-2.20
	100 area laboratory header AP	≤ -0.05 in. wc ¹	-2.22	-2.22	-2.23	-2.23	-2.20	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.22	-2.23
4.1.1.5	300 area laboratory header AP	≤ -0.05 in. wc ¹	-2.22	-2.22	-2.22	-2.22	-2.20	-2.22	-2.19	-2.22	-2.19	-2.22	-2.19	-2.22	-2.22	-2.23	-2.20
	400 area laboratory header AP	≤ -0.05 in. wc ¹	-2.20	-2.20	-2.20	-2.20	-2.19	-2.20	-2.18	-2.20	-2.18	-2.20	-2.18	-2.20	-2.20	-2.21	-2.20
4.1.1.3	IFTT 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
	North basement AP	< 0.00 in. wc	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.09
4.1.2.3 ³	South basement AP	< 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	-1.11	-1.11
	IRT Tunnel ΔP	< 0.00 in. wc	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS													
				Sat. / Unsat. (circle one)													
<p>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.</p>				Date:	8/25/14	8/26/14	8/27/14	8/28/14	8/29/14	8/30/14	8/31/14	8/30/14	8/31/14	Sun.			
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM			
				Initials:													
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP >.050 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		
		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		
	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			
	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			
	FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			
			Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat	Sat	Unsat			

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
					Mon.	Tue	Wed	Thu	Fri	Sat.	Sun.	
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	8/25/14	8/26/14	8/27/14	8/28/14	8/29/14	8/30/14	8/31/14	
			PDI-803-2		AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2		AM	PM	AM	PM	AM	PM	AM	PM
			PDI-820-2		AM	PM	AM	PM	AM	PM	AM	PM
			PDI-802-2		AM	PM	AM	PM	AM	PM	AM	PM
PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM				
	300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	192-0714	1930-0804	1931	1920-0713	1927	1929	1923		
		PDI-853-2		AM	PM	AM	PM	AM	PM	AM	PM	
		PDI-854-2		AM	PM	AM	PM	AM	PM	AM	PM	
		PDI-864-2		AM	PM	AM	PM	AM	PM	AM	PM	
	400 Area	PDI-852-2	PDI-864-2 < PDI-852-2 < PDI-854-2	192-0714	1930-0804	1931	1920-0713	1927	1929	1923		
		PDI-852-2		AM	PM	AM	PM	AM	PM	AM	PM	
		PDI-854-2		AM	PM	AM	PM	AM	PM	AM	PM	
Completion Time					192-0714	1930-0804	1931	1920-0713	1927	1929	1923	

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

Completed by: [Signature] Date: 8/21/14 Time: 1923 Reviewed by: [Signature] Date: 9/2/14 Time: 0700

On-duty Supervisor

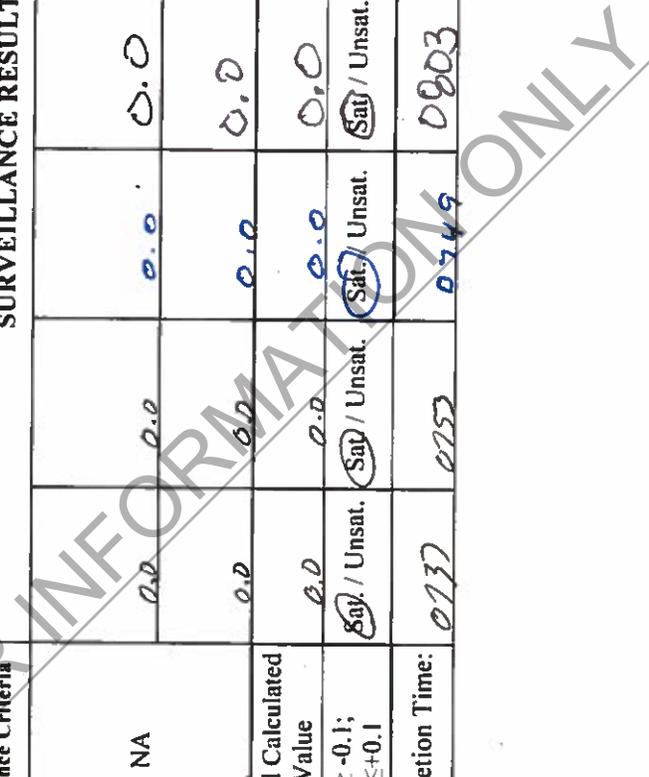
Comments:

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 (≥ -0.1 ; ≤ 0.1).

SR	Description / Gauge	Date:	8/25/14	8/26/14	8-27-14	8-28-14	8-29-14	08/30/14	08/31/14	
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
		Initials:	for	gh	PT	gh	gh	gh	gh	
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		≥ -0.1 ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	
		Completion Time:	0137	0153	0149	0803	0739	0806	0848	



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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)								
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	pm	8/13/14	8/14/14	8/15/14	8/16/14	8/17/14	8/18/14	8/19/14	8/20/14	8/21/14
		PDI-838-2	≤2.0 & > 0' in. wc										
		PDI-838-3	≤2.0 & > 0' in. wc										
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc										
		PDI-839-2	≤2.0 & > 0' in. wc										
		PDI-839-3	≤2.0 & > 0' in. wc										
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc										
		PDI-810-2	≤2.0 & > 0' in. wc										
		PDI-810-3	≤2.0 & > 0' in. wc										
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc										
		PDI-811-2	≤2.0 & > 0' in. wc										
		PDI-811-3	≤2.0 & > 0' in. wc										
OC Operator Review and Page Count Complete (initials)													

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. Inish Date: 8/23/14 Time: 0805

Reviewed by: [Signature] Date: 9/4/14 Time: 0805

Operator Supervisor

Comments

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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc	8/25/14		8/26/14	8/27/14	8/28/14	8/29/14	8/30/14		
		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									

Initials: [Handwritten initials]

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.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc	for	8/25/14	8-26-14	8/22/14	8/28/14	8-29-14	8/30/14	8/31/14
		PDI-829-2	≤2.0 & > 0' in. wc	for							
		PDI-829-3	≤2.0 & > 0' in. wc	for							
		'PDI-833-1	≤2.0 & > 0' in. wc	for							
		PDI-833-2	≤2.0 & > 0' in. wc	for							
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	for							
		'PDI-835-1	≤2.0 & > 0' in. wc	for							
		PDI-835-2	≤2.0 & > 0' in. wc	for							
		PDI-835-3	≤2.0 & > 0' in. wc	for							
		'PDI-815-1	≤2.0 & > 0' in. wc	for							
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	for							
		PDI-815-4	≤2.0 & > 0' in. wc	for							
		PDI-815-5	≤2.0 & > 0' in. wc	for							
		'PDI-816-1	≤2.0 & > 0' in. wc	for							
		PDI-816-2	≤2.0 & > 0' in. wc	for							
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	for							
		PDI-816-5	≤2.0 & > 0' in. wc	for							

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.
					8/25/14	8-26-14	8/27/14	8/28/14	8-29-14	8/30/14	8/31/14		
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0 ¹ in. wc	jk	.16	.16	.16	.16	.16	.16	.16	.16	
		PDI-812-2	≤2.0 & > 0 ¹ in. wc	jk	.36	.34	.36	.36	.36	.36	.36	.35	
		PDI-812-3	≤2.0 & > 0 ¹ in. wc	jk	.37	.37	.37	.37	.37	.37	.37	.37	
		PDI-812-4	≤2.0 & > 0 ¹ in. wc	jk	.35	.32	.35	.35	.35	.35	.35	.35	
		PDI-812-5	≤2.0 & > 0 ¹ in. wc	jk	.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 ¹ in. wc	jk	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-2	≤2.0 & > 0 ¹ in. wc	jk	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-3	≤2.0 & > 0 ¹ in. wc	jk	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-4	≤2.0 & > 0 ¹ in. wc	jk	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-5	≤2.0 & > 0 ¹ in. wc	jk	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ¹ in. wc	jk	.04	.04	.04	.04	.04	.04	.04	.04	
		PDI-865-2	≤2.0 & > 0 ¹ in. wc	jk	.33	.33	.33	.32	.32	.32	.32	.32	
		PDI-865-3	≤2.0 & > 0 ¹ in. wc	jk	.42	.42	.41	.40	.40	.40	.40	.40	
4.1.3.4	IFT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ¹ in. wc	jk	.06	.06	.06	.06	.06	.06	.06	.06	
		PDI-863-2	≤2.0 & > 0 ¹ in. wc	jk	.27	.27	.27	.28	.28	.28	.28	.28	

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS														
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	'PDI-857-1	≤2.0 & > 0' in. wc	jm	8/25/14	Mon.	8/26/14	Tue.	8/27/14	Wed.	8/28/14	Thu.	8/29/14	Fri.	8/30/14	Sat.	8/31/14	Sun.	
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	'PDI-857-2	≤2.0 & > 0' in. wc	jm			.15	.15	.13	.14	.13	.15	.15	.13	.15	.15	.15	.15	
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	'PDI-856-1	≤2.0 & > 0' in. wc	jm			.50	.50	.49	.49	.50	.50	.50	.50	.50	.50	.50	.50	
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	'PDI-856-2	≤2.0 & > 0' in. wc	jm			.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)				.51	.51	.51	.50	.50	.50	.50	.50	.50	.50	.50	.50	
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less				SAT	SAT											
Completion time					0757	0815	0920	0856	0935	0856	0935	0856	0935	0856	0935	0856	0935	0856	0935
OC Operator Review and Page Count Complete (initials)					RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA

' Non TSR requirement

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

Completed by: Michael M. Tish Date: 8/31/14 Time: 0624 Reviewed by: _____

On-duty Supervisor

Comments:

Date: 7/13/14 Time: 0725

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 ≤ 30 seconds. 4.5 _____ Seconds	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	0924	8-27-14	mm
				<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 LANI, Building TA55-1 (PF-4), Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANI-DOF-ORDER-420.1B-EO-2013-001

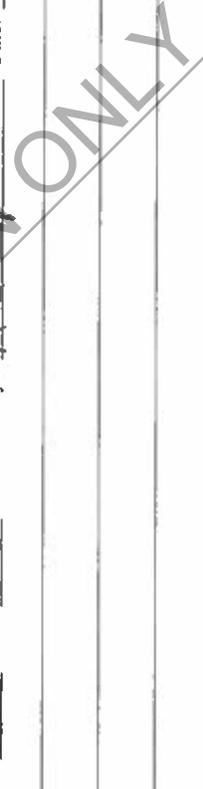
ATTACHMENT D-1: Monthly Surveillance Rounds (Confinement Doors) [UET]
(Page 2 of 2)

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials	
4.1.3.2	Confinement Door DR-302	Southwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds.	<input checked="" type="checkbox"/> Sat / <input type="checkbox"/> Unsat.	0929	8-27-14	mm	
4.1.3.2	Confinement Door DR-4	N Basement Personnel door DR-4	6.8 Seconds Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure	<input checked="" type="checkbox"/> Sat / <input type="checkbox"/> Unsat.	0930	8-27-14	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="checkbox"/> Sat / <input type="checkbox"/> Unsat.	0944 0937 mm 8-27-14	8-27-14	mm	
OC Operator Review and Page Count Complete								

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: neva mistry Date: 8-27-14 Time: 0953 Reviewed by: BB.A 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:

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] 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:

Attachment A, Surveillance Due Date Change Request

SI/STP/ISI #	Scheduled Due Date	Proposed Due Date	Maximum Allowable Extension of Due Date
STP-004 DD	09-24-14	09-23-14	10-04-14

Justification:

SOC DOING ANNUAL TESTING ON ALL DOORS, WILL COMPLETE
 004 DD WHILE EXTRA RESOURCES ARE AVAILABLE & DOORS ARE
 OPEN.

FOR INFORMATION ONLY

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 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
					Sat. / Unsat. (circle one)							
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	9/1/14	9/2/14	9/3/14	9/4/14	9/5/14	9/6/14	9/7/14	
			PDI-803-2									
			PDI-804-2									
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2								
			PDI-802-2									
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2										
	PDI-853-2											
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2										
	PDI-852-2											
Completion Time					0720	0720	0730	0720	0725	0725	1930	

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

Completed by: af Date 9-7-14 Time 1930 Reviewed 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 (≥ -0.1 ; ≤ 0.1).

		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.	Thud.	Fri.	Sat.	Sun.
		Initials:	JH						
SR 4.4.1.1	Description / Gauge	SURVEILLANCE RESULTS (percentage)							
	Flammable Gas Channel Check	NA							
	DET-305-3 (LCD Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	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	SURVEILLANCE RESULTS (in. wc)								
				Date:	9/11/14	9/12/14	9/13/14	9/14/14	9/15/14	9/16/14	9/17/14	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	jm	jm	RA	jm	RA	RA	RA	jm
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	≤2.0 & > 0' in. wc	.08	.07	.08	.07	.08	.07	.07	.07	.07
			≤2.0 & > 0' in. wc	.51	.52	.52	.52	.52	.51	.51		
			≤2.0 & > 0' in. wc	.68	.68	.09	.08	.08	.09	.08		
			≤2.0 & > 0' in. wc	.61	.61	.62	.61	.61	.62	.61		
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
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	
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	'PDI-818-1	≤2.0 & > 0' in. wc	.25	.26	.24	.24	.26	.24	.26	.24	
			≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31		
			≤2.0 & > 0' in. wc	.32	.32	.32	.32	.32	.32	.32		
			≤2.0 & > 0' in. wc	.29	.29	.29	.29	.29	.29	.29		
			≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40		
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & > 0' in. wc	.42	.42	.43	.43	.43	.43	.43	.43	
			≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39		
			≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39		
			≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40		
			≤2.0 & > 0' in. wc	.42	.42	.43	.43	.43	.43	.43		

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	9/2/14	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	AP	AP	ZL	AP	BH	RA	AP	
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	.25
		PDI-822-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	.51
		PDI-822-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	.42
		PDI-822-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	.45
		'PDI-823-1	≤ 2.0 & > 0' in. wc	.09	.09	.09	.09	.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	.44	.45	.44	.44	.45	.45	.46	STBY
		PDI-823-4	≤ 2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.48	.48	.49	STBY
		PDI-823-5	≤ 2.0 & > 0' in. wc	.49	.49	.50	.50	.50	.50	.50	.50	STBY
		'PDI-830-1	≤ 2.0 & > 0' in. wc	.61	.61	.62	.61	.61	.62	.62	.63	.61
		PDI-830-2	≤ 2.0 & > 0' in. wc	.31	.31	.30	.31	.31	.30	.30	.30	.31
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-830-3	≤ 2.0 & > 0' in. wc	.27	.27	.28	.27	.27	.29	.29	.29	.27
		'PDI-836-1	≤ 2.0 & > 0' in. wc	.97	.97	.97	.97	.97	.97	.97	.97	.97
		PDI-836-2	≤ 2.0 & > 0' in. wc	AP 9/1/14 .57	.57	.57	.57	.57	.57	.58	.58	.57
		PDI-836-3	≤ 2.0 & > 0' in. wc	AP 9/1/14 .55	.56	.56	.56	.56	.56	.56	.56	.56
		'PDI-837-1	≤ 2.0 & > 0' in. wc	AP 9/1/14 .50	.50	.50	.50	.50	.50	.50	.50	.50
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	PDI-837-2	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-837-3	≤ 2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤ 2.0 & > 0 ¹ in. wc	9/1/14	9/2/14	9/3/14	9/4/14	9/5/14	9/6/14	9/7/14		
		PDI-838-2	≤ 2.0 & > 0 ¹ in. wc	for 9/1/14 .31	.31	.41	.41	.31	.31	.41	.31	.41
		PDI-838-3	≤ 2.0 & > 0 ¹ in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤ 2.0 & > 0 ¹ in. wc	.31	.31	.31	.31	.31	.31	.31	.31	
		PDI-839-2	≤ 2.0 & > 0 ¹ in. wc	.41	.41	.42	.42	.42	.42	.42	.42	
		PDI-839-3	≤ 2.0 & > 0 ¹ in. wc	.41	.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 ¹ in. wc	off	off	off	off	off	off	off	.15	
		PDI-810-2	≤ 2.0 & > 0 ¹ in. wc	off	off	off	off	off	off	off	.48	
		PDI-810-3	≤ 2.0 & > 0 ¹ in. wc	off	off	off	off	off	off	off	off	.48
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤ 2.0 & > 0 ¹ in. wc	.12	.12	.12	.12	.12	.12	.12	.12	
		PDI-811-2	≤ 2.0 & > 0 ¹ in. wc	.49	.49	.49	.49	.49	.49	.49	.49	
		PDI-811-3	≤ 2.0 & > 0 ¹ in. wc	.50	.50	.50	.50	.50	.50	.50	.50	
Completion Time				0800	0802	0841	0856	0856	0856	0856	0856	
OC Operator Review and Page Count Complete (initials)				a	a	a	a	a	a	a	a	

¹Non 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 9/1/14 Time 0805 Reviewed by: [Signature] Date: 9-8-14 Time: 0727
On-duty Supervisor

Comments

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Date:	Weekday:	Initials:	Completion time	OC Operator Review and Page Count Complete (initials)	Non TSR requirement	
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	9/1/14	Mon.	[Signature]	0815	[Signature]	0818	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc	9/2/14	Tue.	[Signature]	0840	[Signature]	0818	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc	9/3/14	Wed.	[Signature]	0838	[Signature]	0818	
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-2	≤ 2.0 & > 0' in. wc	9/4/14	Thu.	[Signature]	0950	[Signature]	0818	
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 ³ combustibles in designated exclusion area (within 15 feet of fans)	9/5/14	Fri.	[Signature]	0854	[Signature]	0818	
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	9/6/14	Sat.	[Signature]	0840	[Signature]	0818	
				9/7/14	Sun.	[Signature]		[Signature]		

OC Operator Review and Page Count Complete (initials)

Non TSR requirement

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

Completed by: [Signature] Date: 9/1/14 Time: 0817 Reviewed by: [Signature] Date: 9-8-14 Time: 0730

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																							
SR	Description	Acceptance Criteria	Daily (September through April only)							OC Operator Review and Page Count Complete (Initials)													
			Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	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	9/1/14		U																		
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	68.8																				
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	71.2																				
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	75.8																				
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	74.6																				
Completion Time:			0849																				
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: [Signature] Date: 9/7/14 Time: 0810
 Reviewed by: [Signature] Date: 9-8-14 Time: 0733
 On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

Note	Date:	7/8/14		7/9/14		7/10/14		7/11/14		7/12/14		7/13/14		7/14/14	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	Weekday:														
	Shift:														
	Initials:														
SRs	Description	SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.95	1.94	1.94	1.94	1.94	1.96	1.95
	100 area glovebox exhaust header AP	1.91	1.92	1.92	1.94	1.94	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
	300 area glovebox exhaust header AP	1.90	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99
	400 area glovebox exhaust header AP	1.96	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header AP	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
	100 area laboratory header AP	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
	300 area laboratory header AP	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
	400 area laboratory header AP	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
4.1.1.3 4.1.2.3 ²	North basement AP	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	South basement AP	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
	IRT Tunnel AP	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
			0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS																	
				Sat. / Unsat. (circle one)																	
4.1.1.6	Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDIs may be used if FCS is unavailable. 200 area re-circulation fan/plenum 100 area re-circulation fan/plenum 300 area re-circulation fan/plenum 400 area re-circulation fan/plenum Vault re-circulation fan/plenum	FR-801 lcon red and PDT-831 AP > .050 or FR-802 lcon red and PDT-832 AP > .050 FR-803 lcon red and PDT-833 AP > .050 or FR-804 lcon red and PDT-835 AP > .050 FR-805 lcon red and PDT-836 AP > .050 or FR-806 lcon red and PDT-837 AP > .050 FR-807 lcon red and PDT-838 AP > .050 or FR-808 lcon red and PDT-839 AP > .050 FR-811 lcon red and PDT-840 AP > .050 or FR-812 lcon red and PDT-841 AP > .050	At least one fan/plenum is in service At least one fan/plenum is in service	Date:	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.			
				Weekday:																	
				Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
				Initials:																	
				Sat. / Unsat. (circle one)																	
				(Grid of 14 columns of 'Sat' and 'Unsat' entries, each circled, corresponding to the surveillance rounds.)																	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

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

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

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

Completed by: [Signature] Date: 9/14/14 Time: 1600 Reviewed by: [Signature] Date: 9/14/14 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 (≥ -0.1 ; ≤ 0.1).

		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	RA	JM	RA	RA	PT	PT
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge								
	Flammable Gas Channel Check	NA							
	DET-305-3 (LCD Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1 ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
	Completion Time:	0825	0750	0804	0811	0818	0826	0809	

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

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)															
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0 ¹ in. wc	9/8/14	Mon.	MS	9/10/14	Wed.	RH	9/12/14	Fri.	PT	9-13-14	Sat.	PT	9-14-14	Sun.	PT	
		PDI-822-2	≤2.0 & > 0 ¹ in. wc	.75	.75	.75	.75	.51	.51	.51	.75	.75	.75	.75	.75	.75	.75	.75	.70
		PDI-822-4	≤2.0 & > 0 ¹ in. wc	.51	.51	.51	.51	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.41
		PDI-822-5	≤2.0 & > 0 ¹ in. wc	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.43
		PDI-823-1	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-4	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-5	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-830-1	≤2.0 & > 0 ¹ in. wc	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.64
		PDI-830-2	≤2.0 & > 0 ¹ in. wc	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-3	≤2.0 & > 0 ¹ in. wc	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.28	
		PDI-836-1	≤2.0 & > 0 ¹ in. wc	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	
		PDI-836-2	≤2.0 & > 0 ¹ in. wc	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	
		PDI-836-3	≤2.0 & > 0 ¹ in. wc	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.58
		PDI-837-1	≤2.0 & > 0 ¹ in. wc	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-837-2	≤2.0 & > 0 ¹ in. wc	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	
		PDI-837-3	≤2.0 & > 0 ¹ in. wc	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	
		PDI-837-3	≤2.0 & > 0 ¹ in. wc	.38	.38	.38	.38	.38	.38	.38	.38	.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	SURVEILLANCE RESULTS (in. wc)										
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
				Weekday:	Initials:									
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	9/8/14	RA	08	9/10/14	RA	24	9-13-14	PT	9-14-14		
		PDI-838-2	≤2.0 & > 0' in. wc				.31	.40	.39	.31	.40	.39	.31	.40
		PDI-838-3	≤2.0 & > 0' in. wc				.31	.39	.31	.31	.39	.31	.39	.31
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc				.47	.42	.42	.16	.49	.48	.49	.49
		PDI-839-2	≤2.0 & > 0' in. wc				.47	.42	.42	.16	.49	.48	.49	.49
		PDI-839-3	≤2.0 & > 0' in. wc				.47	.42	.42	.16	.49	.48	.49	.49
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc				OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-2	≤2.0 & > 0' in. wc				OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-3	≤2.0 & > 0' in. wc				OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc				0825	0814	0835	0837	0904	0840	0738	
		PDI-811-2	≤2.0 & > 0' in. wc				0825	0814	0835	0837	0904	0840	0738	
		PDI-811-3	≤2.0 & > 0' in. wc				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 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 Zingales 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 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	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	
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Initials:	RA	RA	RA	RA	RA	PT	PT
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & >0 ¹ in. wc		STBY	STBY	.17	.17	.17	.17	.17	.17
		PDI-812-2	≤2.0 & >0 ¹ in. wc		STBY	STBY	.38	.38	.38	.38	.38	.38
		PDI-812-3	≤2.0 & >0 ¹ in. wc		STBY	STBY	.38	.38	.38	.38	.38	.38
		PDI-812-4	≤2.0 & >0 ¹ in. wc		STBY	STBY	.36	.36	.36	.36	.36	.36
		PDI-812-5	≤2.0 & >0 ¹ in. wc		STBY	STBY	.31	.31	.31	.31	.31	.31
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & >0 ¹ in. wc		.80	.79	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & >0 ¹ in. wc		.31	.32	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & >0 ¹ in. wc		.30	.30	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & >0 ¹ in. wc		.32	.32	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & >0 ¹ in. wc		.24	.24	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & >0 ¹ in. wc		.03	.03	.03	.03	.03	.03	.03	.03
		PDI-865-2	≤2.0 & >0 ¹ in. wc		.32	.32	.32	.32	.32	.32	.32	.32
		PDI-865-3	≤2.0 & >0 ¹ in. wc		.40	.39	.39	.40	.40	.40	.40	.40
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & >0 ¹ in. wc		.04	.04	.06	.06	.06	.05	.05	.05
		PDI-863-2	≤2.0 & >0 ¹ in. wc		.29	.29	.29	.26	.28	.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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	PH	9/8/14	9/9/14	9/10/14	9/11/14	9/12/14	9-13-14	9-14-14
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc	PH							
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤ 2.0 & > 0' in. wc								
		PDI-856-2	≤ 2.0 & > 0' in. wc								
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)		SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less		SAT	SAT	SAT	SAT	SAT	SAT	SAT
OC Operator Review and Page Count Complete (initials)					0820	0810	0827	0921	0932	0904	0805

Non TSR requirement

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

Completed by: Paul Trujillo Date 9-14-14 Time 0805 Reviewed by: [Signature] Date: 9/16/14 Time: 1600

On-duty Supervisor

Comments:

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

M&TE Calibrated Data	
Record September through April only	039746
PF-10 Thermometer File No.:	039746
Calibration Expiration Date:	6/17/15
PF-11 Thermometer File No.:	042252
Calibration Expiration Date:	6/17/15
PF-10 Thermistor File No.:	042253
Calibration Expiration Date:	6/26/15
V-701 Thermistor File No.:	039744
Calibration Expiration Date:	6/26/15
PF-11 Thermistor File No.:	040373
Calibration Expiration Date:	6/26/15
V-704 Thermistor File No.:	040375
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	Acceptance Criteria	Date:							Completion Time:	OC Operator Review and Page Count Complete (initials)	
			9-8-2014	9-9-2014	9-10-14	9-11-14	9-12-14	9-13-14	9-14-14			
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	B.F.	B.F.	B.F.	B.F.	B.F.	B.F.	B.F.	B.F.	B.F.	B.F.
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	70.70	70.91	71.12	70.65	70.4	68.1	66.6	67.4	66.2	67.4
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	70.97	72.75	72.54	68.41	70.4	68.35	68.91	67.2	68.8	67.8
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	70.50	71.92	72.19	70.47	70.1	68.4	67.9	67.8	67.8	67.8
			0855	0755	0905	0742	0840	0855	0855	0850	0850	0850
			B.F.									

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

Completed by: B.F. 9-9-2014 Date: 9/8/2014 Time: 0835

Reviewed by: [Signature] Date: 9/6/14 Time: 1600

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

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		9/21-14		
			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-814-1 or PDI-814-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
	Initials:		K	B	C	D	E	F	G	H	I	J	K	L	M	N	
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-820-1 or PDI-820-2	-1.74	-1.94	-1.97	-1.94	-1.95	-1.96	-1.95	-1.96	-1.97	-1.93	-1.92	-1.92	-1.92	-1.96	-1.94
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-870-1 or PDI-870-2	-1.97	-1.92	-1.92	-1.93	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92	-1.92
4.1.1.2 4.1.1.5 4.1.2.2 ²	400 area glovebox exhaust header ΔP	≤-1.0 in. wc' PDI-864-1 or PDI-864-2	-1.97	-1.99	-1.99	-1.98	-1.98	-1.99	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98	-1.98
	200 area laboratory header ΔP	≤-0.05 in. wc' PDI-803-1 or PDI-803-2	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	100 area laboratory header ΔP	≤-0.05 in. wc' PDI-802-1 or PDI-802-2	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	300 area laboratory header ΔP	≤-0.05 in. wc' PDI-853-1 or PDI-853-2	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1
4.1.1.3 4.1.2.3 ²	400 area laboratory header ΔP	≤-0.05 in. wc' PDI-852-1 or PDI-852-2	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	IFTT Facility ΔP	≤-0.05 in. wc' PDI-865-4 or PDI-865-5	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9
	North basement ΔP	< 0.00 in. wc PDI-804-1 or PDI-804-2	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
	South basement ΔP	< 0.00 in. wc PDI-854-1 or PDI-854-2	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
	IRT Tunnel ΔP	< 0.00 in. wc PDI-901 or PDI-901	-1.09	-1.08	-1.12	-1.11	-1.11	-1.10	-1.10	-1.11	-1.11	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS																			
					Sat. / Unsat. (circle one)																			
					Mon.	Tue.		Wed.		Thu.		Fri.		Sat.		Sun.								
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	01/15/14	AM	PM	09/17/14	AM	PM	09/18/14	AM	PM	09/19/14	AM	PM	09/20/14	AM	PM	09/21/14	AM	PM		
			PDI-803-2	100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	01/15/14	AM	PM	09/17/14	AM	PM	09/18/14	AM	PM	09/19/14	AM	PM	09/20/14	AM	PM	09/21/14	AM	PM
			PDI-804-2		PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	01/15/14	AM	PM	09/17/14	AM	PM	09/18/14	AM	PM	09/19/14	AM	PM	09/20/14	AM	PM	09/21/14	AM	PM
		300 Area	PDI-853-2	400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	01/15/14	AM	PM	09/17/14	AM	PM	09/18/14	AM	PM	09/19/14	AM	PM	09/20/14	AM	PM	09/21/14	AM	PM
		PDI-854-2	Completion Time		0740	1930	0730	1930	0730	1930	0730	1930	0730	1930	0730	1930	0730	1930	0730	1930	0730	1930	0730	1930

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

Completed by: RBB Date 9/20/14 Time 1920 Reviewed by: RBB Date: 9/21/14 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 (≥ -0.1 ; ≤ 0.1).

		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:	JA	JA	JA	JA	JA	JA	JA
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value ≥ -0.1 ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Completion Time:	0824	0834	0853	0750	0848	0828	0752

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	RL	RL	mm	mm
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	<2.0 & >0' in. wc	.69	.70	.70	.70	.70	.70	.70	.70
		PDI-822-2	≤2.0 & >0' in. wc	.50	.50	.50	.50	.50	.50	.49	.49
		PDI-822-4	≤2.0 & >0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-822-5	≤2.0 & >0' in. wc	.41	.42	.42	.43	.43	.43	.43	.43
		'PDI-823-1	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		'PDI-830-1	≤2.0 & >0' in. wc	.62	.63	.63	.64	.64	.64	.64	.64
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & >0' in. wc	.30	.31	.31	.30	.30	.30	.30	.30
		PDI-830-3	≤2.0 & >0' in. wc	.28	.28	.28	.29	.29	.29	.29	.28
		'PDI-836-1	≤2.0 & >0' in. wc	.97	.97	.97	.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	.56	.56	.56	.56	.58	.58	.58	.57
		PDI-836-3	≤2.0 & >0' in. wc	.56	.57	.57	.57	.57	.57	.57	.57
		'PDI-837-1	≤2.0 & >0' in. wc	.50	.50	.50	.50	.50	.50	.50	.50
		PDI-837-2	≤2.0 & >0' in. wc	.41	.41	.41	.40	.40	.40	.40	.40
		PDI-837-3	≤2.0 & >0' in. wc	.39	.39	.39	.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:	Initials:	9/15/14	9/16/14	9/17/14	9/18/14	9/19/14	9/20/14
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
		PDI-838-2	≤2.0 & > 0' in. wc	4.1.1.7			.41	.41	.40	.40	.40	.40
		PDI-838-3	≤2.0 & > 0' in. wc				.38	.38	.39	.39	.39	.39
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc				.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0' in. wc				.47	.47	.47	.47	.47	.47
		PDI-839-3	≤2.0 & > 0' in. wc				.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				.16	.16	.16	.16	.16	.16
		PDI-810-2	≤2.0 & > 0' in. wc				.48	.48	.48	.49	.49	.49
		PDI-810-3	≤2.0 & > 0' in. wc				.48	.47	.47	.48	.48	.48
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc				off	off	off	off	off	off
		PDI-811-2	≤2.0 & > 0' in. wc				off	off	off	off	off	off
		PDI-811-3	≤2.0 & > 0' in. wc				off	off	off	off	off	off
OC Operator Review and Page Count Complete (initials)				0903	0904	0805	0823	0919	0904	0904	0904	
Completion Time				cap	ap	cap	cap	cap	cap	cap	cap	

*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: BBG Date: 9/23/14 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	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				9/15/14	9/16/14	9/17/14	9/18/14	9/19/14	9/20/14	
				Weekday:						
				Initials:	RA	RA	PT	JK	JK	mg
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-2	≤2.0 & > 0 in' wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-840-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	.45	.45	.45	.45	.45	.45	.45
		PDI-841-2	≤2.0 & > 0' in. wc	.58	.57	.58	.57	.57	.57	.58
		PDI-841-3	≤2.0 & > 0' in. wc	.50	.50	.50	.51	.51	.50	.50
	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	.37	.36	.36	.36	.36
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	.31	.32	.32	.31	.31	.31	.31	
	PDI-832-2	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	
	PDI-832-3	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.55	.54	.54	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-807-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	.04	.04	.06	.06	.06	.06	.06
		PDI-809-2	≤2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.49
		PDI-809-3	≤2.0 & > 0' in. wc	.42	.42	.41	.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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤2.0 & > 0' in. wc	9/15/14	PH	DA	PT	DM	DM	DM	DM	DM
		PDI-829-2	≤2.0 & > 0' in. wc	.14	.15	.14	.14	.14	.14	.14	.14	.14
		PDI-829-3	≤2.0 & > 0' in. wc	.38	.38	.39	.38	.38	.38	.38	.38	.38
		PDI-833-1	≤2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-833-2	≤2.0 & > 0' in. wc	1.0	1.0	1.0	.99	.99	.99	.99	.99	1.0
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	.48	.47	.48	.47	.47	.47	.47	.47	.47
		PDI-835-1	≤2.0 & > 0' in. wc	.43	.43	.43	.43	.43	.43	.43	.43	.43
		PDI-835-2	≤2.0 & > 0' in. wc	.15	.15	.15	.15	.15	.15	.15	.15	.15
		PDI-835-3	≤2.0 & > 0' in. wc	.44	.44	.44	.44	.44	.44	.44	.44	.44
		PDI-815-1	≤2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	.19	.19	.19	.19	.19	.19	.19	.19	.19
		PDI-815-4	≤2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.39	.39	.39
		PDI-815-5	≤2.0 & > 0' in. wc	.33	.34	.32	.33	.33	.33	.33	.33	.33
		PDI-816-1	≤2.0 & > 0' in. wc	.38	.38	.38	.38	.38	.38	.38	.38	.38
		PDI-816-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)													
				Date:	Weekday:	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	9/15/14	Mon.	RAH	.14										
		PDI-812-2	≤2.0 & >0' in. wc				.34										
		PDI-812-3	≤2.0 & >0' in. wc				.35										
		PDI-812-4	≤2.0 & >0' in. wc				.37										
		PDI-812-5	≤2.0 & >0' in. wc				.31										
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & >0' in. wc				STBY										
		PDI-813-2	≤2.0 & >0' in. wc				STBY										
		PDI-813-3	≤2.0 & >0' in. wc				STBY										
		PDI-813-4	≤2.0 & >0' in. wc				STBY										
		PDI-813-5	≤2.0 & >0' in. wc				STBY										
4.1.3.4	IFIT exhaust filter plenum (FI-865) ΔP	PDI-865-1	≤2.0 & >0' in. wc				.03										
		PDI-865-2	≤2.0 & >0' in. wc				.31										
		PDI-865-3	≤2.0 & >0' in. wc				.40										
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & >0' in. wc				.05										
		PDI-863-2	≤2.0 & >0' in. wc				.27										

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS						
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	North Basement supply filler plenum (HVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	P+H	9/15/14	9/16/14	9-17-14	9/18/14	9/19/14	9/20/14	9/21/14
4.1.3.4	North corridor supply filler plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc	P+H							
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤ 2.0 & > 0' in. wc	P+H							
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0' in. wc	P+H							
			0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)								
			0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less								
					11:15	10:11					
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 Jia Date: 9/15/14 Time: 0831

Reviewed by: RBB

Date: 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.:	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	Acceptance Criteria	Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
						SAT/UNSAT						
Daily (September through April only)												
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.											
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	66.34	66.45	66.24	66.15	66.4	66.4	66.4	66.4	66.6	67.1
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	68.81	68.88	68.62	67.94	68.1	68.2	68.2	68.2	69.6	69.0
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	70.27	70.41	69.57	68.42	68.2	68.2	68.2	68.2	72.2	73.0
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	69.69	69.02	68.69	67.65	69.7	69.7	69.7	69.7	70.4	71.6
			Completion Time:	0802 0834 0831 0817 0831 0817 0831 0817 0831 0817 0831 0817 0831								
			OC Operator Review and Page Count Complete (initials)	[Handwritten 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: Ricky Papp Date: 9/21/17 Time: 0356
 Reviewed by: RSB Date: 9/23/14 Time: 1351
 On-duty Supervisor

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	Date:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .050	At least one fan/plenum is in service	09-22-14	09-23-14	10-24-14	09-25-14	09-26-14	9/27/14	09-28-14
				AM	PM	AM	PM	AM	PM	AM
4.1.1.6	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 AP > .050 or FR-804 Icon red and PDT-835 AP > .050	At least one fan/plenum is in service	09-22-14	09-23-14	10-24-14	09-25-14	09-26-14	9/27/14	09-28-14
				AM	PM	AM	PM	AM	PM	AM
4.1.1.6	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 AP > .050 or FR-806 Icon red and PDT-837 AP > .050	At least one fan/plenum is in service	09-22-14	09-23-14	10-24-14	09-25-14	09-26-14	9/27/14	09-28-14
				AM	PM	AM	PM	AM	PM	AM
4.1.1.6	400 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 AP > .050 or FR-808 Icon red and PDT-839 AP > .050	At least one fan/plenum is in service	09-22-14	09-23-14	10-24-14	09-25-14	09-26-14	9/27/14	09-28-14
				AM	PM	AM	PM	AM	PM	AM
4.1.1.6	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .050	At least one fan/plenum is in service	09-22-14	09-23-14	10-24-14	09-25-14	09-26-14	9/27/14	09-28-14
				AM	PM	AM	PM	AM	PM	AM

Initials: *BCD* *U* *000* *R* *0* *00* *00* *00* *00* *00* *00*

SURVEILLANCE RESULTS
Sat. / Unsat. (circle one)

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS														
					Sat. / Unsat. (circle one)														
					Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
<p>Note Gauge readings should be taken on rack #4 in the OC when possible, local PDI equivalents may be used if necessary. Document any alternate PDIs used.</p>					Date:	09-22-14	09-23-14	9/24/14	09-25-14	09-26-14	9/27/14	09-28-14							
					Weekday:														
					Shift:	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	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			PDI-803-2	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		
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-802-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat				
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat				
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	PDI-852-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat				
Completion Time					0727	0719	0731	0730	0723	0722	0717	0720	0716	1622					

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

Completed by: Date: 9/24/14 Time: 1402
 Reviewed by: Date: 9/24/14 Time: 0630
 On-duty Supervisor

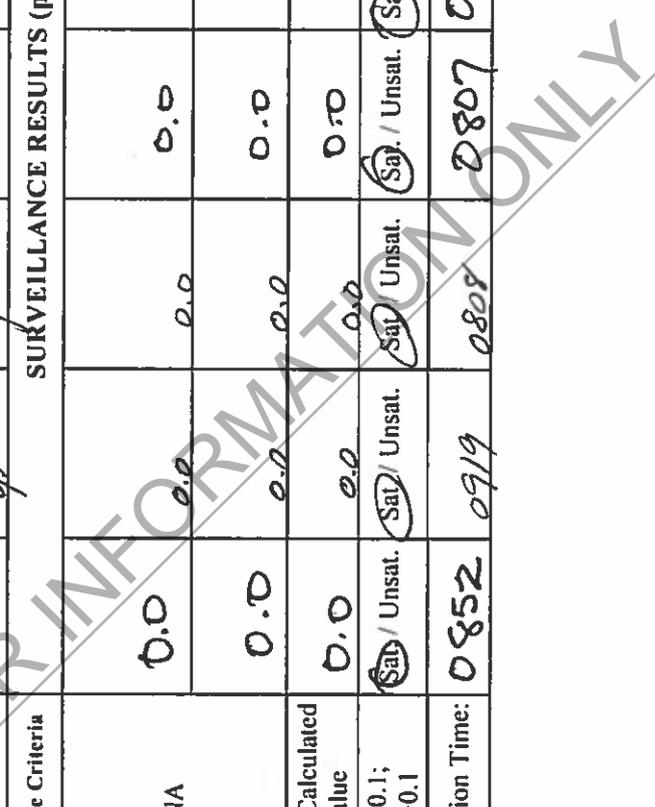
Comments:

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 (≥ -0.1 ; ≤ 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	gm	gm	RA	RA	gm	gm
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value ≥ -0.1 ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Completion Time:	0852	0919	0808	0807	0818	0700	0845



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

(Page 2 of 4)

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

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

(Page 3 of 4)

SIs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	9/22/14	9/23/14	9/24/14	9/25/14	9/26/14	9/27/14		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
				Initials:	gm	gm	gm	BT	gm	gm	gm	JS
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤ 2.0 & > 0' in. wc	.68	.68	.69	.70	.69	.67	.68		
		PDI-822-2	≤ 2.0 & > 0' in. wc	.49	.49	.49	.49	.49	.49	.50		
		PDI-822-4	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.40		
		PDI-822-5	≤ 2.0 & > 0' in. wc	.43	.43	.43	.43	.43	.43	.42		
		'PDI-823-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-823-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		PDI-823-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY		
		'PDI-830-1	≤ 2.0 & > 0' in. wc	.63	.64	.67	.65	.67	.64	.64		
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤ 2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30		
		PDI-830-3	≤ 2.0 & > 0' in. wc	.28	.28	.27	.29	.27	.28	.28		
		'PDI-836-1	≤ 2.0 & > 0' in. wc	.97	.97	.97	.97	.97	.97	.96		
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤ 2.0 & > 0' in. wc	.51	.57	.57	.58	.52	.52	.56		
		PDI-836-3	≤ 2.0 & > 0' in. wc	.56	.56	.56	.57	.56	.56	.57		
		'PDI-837-1	≤ 2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50		
		PDI-837-2	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41		
		PDI-837-3	≤ 2.0 & > 0' in. wc	.39	.39	.39	.39	.39	.39	.38		

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

(Page 2 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	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:	RJA	JW	JW	JW	JW	RJA	JW	JW	
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤ 2.0 & > 0' in. wc	.15	.14	.14	.14	.15	.15	.15	.15	.14
		PDI-829-2	≤ 2.0 & > 0' in. wc	.38	.38	.38	.38	.38	.38	.38	.38	.38
		PDI-829-3	≤ 2.0 & > 0' in. wc	.30	.29	.30	.30	.30	.30	.30	.30	.29
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1	≤ 2.0 & > 0' in. wc	1.0	1.0	.99	.99	1.0	1.0	.99	.99	.99
		PDI-833-2	≤ 2.0 & > 0' in. wc	.48	.48	.48	.48	.48	.47	.47	.47	.47
		PDI-833-3	≤ 2.0 & > 0' in. wc	.43	.44	.44	.44	.44	.43	.43	.44	.44
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1	≤ 2.0 & > 0' in. wc	.19	.19	.19	.19	.19	.19	.19	.19	.19
		PDI-815-2	≤ 2.0 & > 0' in. wc	.39	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-815-3	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1	≤ 2.0 & > 0' in. wc	.38	.38	.38	.38	.38	.38	.38	.38	.38
		PDI-816-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-3	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-816-6	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 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 (HIP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	BA	9/22/14	Mon.	0.15	0.14	0.14	0.14	0.14	0.14	0.14	9/28/14
4.1.3.4	North basement supply filter plenum (HIP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc		9/23/14	Tue.	0.50	0.50	0.50	0.50	0.50	0.50	0.50	9/29/14
4.3.2.2	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-2	≤ 2.0 & > 0' in. wc		9/24/14	Wed.	0.04	0.06	0.06	0.06	0.06	0.06	0.06	9/30/14
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)		9/25/14	Thu.	0.50	0.51	0.51	0.51	0.51	0.51	0.51	10/6/14
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less		9/26/14	Fri.	SAT	10/13/14						
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less		9/27/14	Sat.	SAT	10/20/14						
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less		9/28/14	Sun.	SAT	10/27/14						
OC Operator Review and Page Count Complete (initials)					0959	0907	0920	0906	0900	0940	0906	0906	0906	0906
Completion time					0959	0907	0920	0906	0900	0940	0906	0906	0906	0906
Non TSR requirement					BA	BA	BA	BA	BA	BA	BA	BA	BA	BA

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

Completed by: *[Signature]* Date: 9/28/14 Time: 0920C Reviewed by: *[Signature]* Date: 9/30/14 Time: 0930T

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										
SR	Description	Acceptance Criteria	Daily (September through April only)							Sun.
			Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	9-22-14	9-23-14	9-24-14	9-25-14	9-26-14	9-27-14	9-28-14	
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	66.8	66.74	66.71	66.92	66.7	66.7	66.3	
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	68.9	68.39	68.46	68.72	68.6	68.7	68.2	
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	70.0	69.07	70.36	71.58	69.8	71.0	67.9	
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	69.7	68.29	69.47	70.95	69.2	68.6	65.4	
	Completion Time:		1000	0851	0850	0805	0832	0937	1008	
	OC Operator Review and Page Count Complete (initials)		PL	JA	PL	PL	PL	PL	PL	PL

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

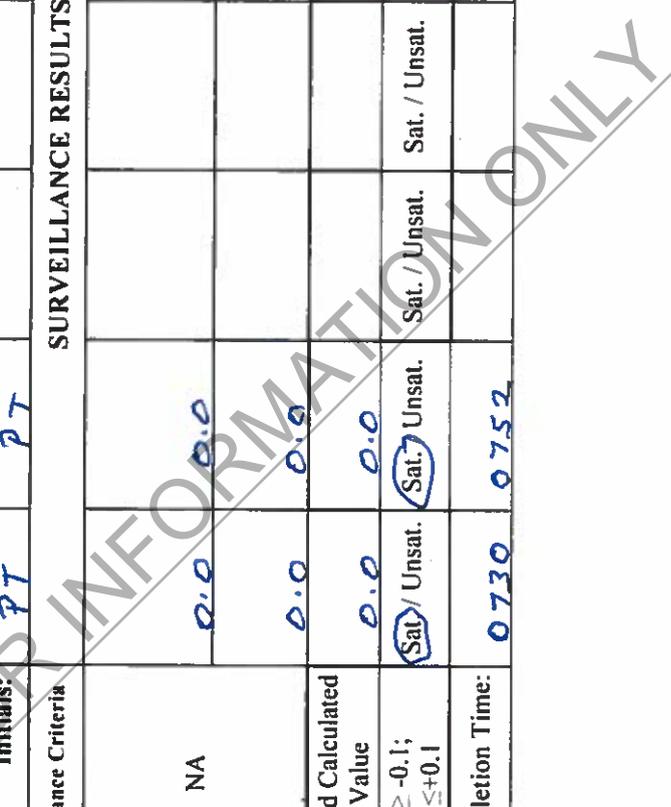
Comments: _____

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

(Page 1 of 4)

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

		Date:	9-29-14	9-30-14					
		Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Initials:	PT	PT					
Description / Gauge		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0					
	CP-305-H (LED Reading)		0.0	0.0					
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value ≥ -0.1 ; $\leq +0.1$	0.0 Sat / Unsat.	0.0 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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$	9-29-14		9-30-14						
		PDI-894-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.07	.07						
	South Corridor supply (HVP-810) AP	'PDI-895-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.51	.51						
		PDI-895-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.10	.10						
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.62	.62						
		PDI-817-5	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY						
		PDI-817-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY						
		PDI-817-4	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY						
		PDI-817-5	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY						
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-81 9-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY						
		PDI-81 9-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY						
		PDI-819-4	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$		STBY	STBY						
		'PDI-818-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.24	.24						
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.30	.30						
		PDI-818-4	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.30	.30						
		PDI-818-5	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.28	.28						
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.39	.39						
		PDI-821-3	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.41	.41						
		PDI-821-4	$\leq 2.0 \text{ \& } > 0^1 \text{ in. wc}$.39	.39						

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

(Page 4 of 4)

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 ¹ in. wc	9-29-14								
		PDI-838-2	≤2.0 & > 0 ¹ in. wc	9-30-14	.31	.31						
		PDI-838-3	≤2.0 & > 0 ¹ in. wc		.40	.40						
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0 ¹ in. wc									
		PDI-839-2	≤2.0 & > 0 ¹ in. wc		.31	.31						
		PDI-839-3	≤2.0 & > 0 ¹ in. wc		.48	.48						
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0 ¹ in. wc									
		PDI-810-2	≤2.0 & > 0 ¹ in. wc		.13	.17						
		PDI-810-3	≤2.0 & > 0 ¹ in. wc		.49	.50						
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0 ¹ in. wc									
		PDI-811-2	≤2.0 & > 0 ¹ in. wc		OFF	OFF						
		PDI-811-3	≤2.0 & > 0 ¹ in. wc		OFF	OFF						
OC Operator Review and Page Count Complete (initials)												
				Completion Time	0800	0814	0827					

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: BBB Date: 10/14 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	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Initials:								
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	9-29-14	STBY	9-30-14	STBY						
		PDI-840-2	≤2.0 & > 0 in' wc		STBY								
		PDI-840-3	≤2.0 & > 0' in. wc		STBY								
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc		.45								
		PDI-841-2	≤2.0 & > 0' in. wc		.59								
		PDI-841-3	≤2.0 & > 0' in. wc		.51								
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc		.33								
		PDI-831-2	≤2.0 & > 0' in. wc		.40								
		PDI-831-3	≤2.0 & > 0' in. wc		.38								
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc		.31									
	PDI-832-2	≤2.0 & > 0' in. wc		.60									
	PDI-832-3	≤2.0 & > 0' in. wc		.55									
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc		OFF								
		PDI-807-2	≤2.0 & > 0' in. wc		OFF								
		PDI-807-3	≤2.0 & > 0' in. wc		OFF								
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc		.06								
		PDI-809-2	≤2.0 & > 0' in. wc		.49								
		PDI-809-3	≤2.0 & > 0' in. wc		.42								

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

(Page 2 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1	≤ 2.0 & $> 0^1$ in. wc	9-29-14	.14	.15					
		PDI-829-2	≤ 2.0 & $> 0^1$ in. wc	9-30-14	.39	.39					
		PDI-829-3	≤ 2.0 & $> 0^1$ in. wc		.30	.30					
		PDI-833-1	≤ 2.0 & $> 0^1$ in. wc		1.0	1.0					
		PDI-833-2	≤ 2.0 & $> 0^1$ in. wc		.48	.48					
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤ 2.0 & $> 0^1$ in. wc		.45	.45					
		PDI-835-1	≤ 2.0 & $> 0^1$ in. wc		.15	.15					
		PDI-835-2	≤ 2.0 & $> 0^1$ in. wc		.43	.43					
		PDI-835-3	≤ 2.0 & $> 0^1$ in. wc		.41	.41					
		PDI-815-1	≤ 2.0 & $> 0^1$ in. wc		.19	.19					
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤ 2.0 & $> 0^1$ in. wc		.40	.40					
		PDI-815-4	≤ 2.0 & $> 0^1$ in. wc		.32	.32					
		PDI-815-5	≤ 2.0 & $> 0^1$ in. wc		.39	.39					
		PDI-816-1	≤ 2.0 & $> 0^1$ in. wc		STBY	STBY					
		PDI-816-2	≤ 2.0 & $> 0^1$ in. wc		STBY	STBY					
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤ 2.0 & $> 0^1$ in. wc		STBY	STBY					
		PDI-816-5	≤ 2.0 & $> 0^1$ in. wc		STBY	STBY					

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					Weekday:							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	<2.0 & > 0 ¹ in. wc	PT	9-29-14	9-30-14						
		PDI-812-2	<2.0 & > 0 ¹ in. wc			STBY	STBY					
		PDI-812-3	<2.0 & > 0 ¹ in. wc			STBY	STBY					
		PDI-812-4	<2.0 & > 0 ¹ in. wc			STBY	STBY					
		PDI-812-5	<2.0 & > 0 ¹ in. wc			STBY	STBY					
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	<2.0 & > 0 ¹ in. wc			.78	.79					
		PDI-813-2	<2.0 & > 0 ¹ in. wc			.31	.31					
		PDI-813-3	<2.0 & > 0 ¹ in. wc			.30	.30					
		PDI-813-4	<2.0 & > 0 ¹ in. wc			.31	.31					
		PDI-813-5	<2.0 & > 0 ¹ in. wc			.27	.29					
4.1.3.4	IFTT exhaust filter plenum (FF-865) ΔP	PDI-865-1	<2.0 & > 0 ¹ in. wc			.04	.04					
		PDI-865-2	<2.0 & > 0 ¹ in. wc			.32	.32					
		PDI-865-3	<2.0 & > 0 ¹ in. wc			.40	.40					
4.1.3.4	IFTT supply filter plenum (IFVP-863) ΔP	PDI-863-1	<2.0 & > 0 ¹ in. wc			.07	.07					
		PDI-863-2	<2.0 & > 0 ¹ 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.	
4.1.3.4	North Basement supply filter plenum (LIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc	9-29-14	PT	9-30-14						
4.1.3.4	North corridor supply filter plenum (LIVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0' in. wc			.12						
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤ 2.0 & > 0' in. wc			.50						
		PDI-856-2	≤ 2.0 & > 0' in. wc			.06						
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)			.50						
			0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less									
OC Operator Review and Page Count Complete (initials)				0812	0817							
Completion time				0800	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: PSB 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													
SR	Description	Acceptance Criteria	Date: 9-29-14 9:30:14							SAT	UNSAT		
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.		BF	BF									
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	65.66	64.41									
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	67.55	66.25									
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	67.29	62.75									
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	65.54	65.68									
	Completion Time:		0830	0845									
	OC Operator Review and Page Count Complete (initials)		ABP	ABP									

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

Completed by: B. FERDIANA Date: 9-30-2014 Time: 0845
 Reviewed by: [Signature] 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	RH
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	RH
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	RH
*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	RH
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). 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. <u>4.4</u> Seconds	<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	12:35	9/23/14	RH
				<input checked="" type="radio"/> Sat / <input type="radio"/> Unsat.	12:38 21-7	9/23/14	RH

*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 ≤ 30 seconds. 61.8 Seconds	Sat / 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.	Sat / Unsat.	12:00	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).	Sat / Unsat.	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:

Date

9/23/14 Time 14:51

Reviewed by:

Date

9/23/14 Time: 1446

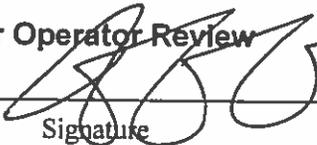
On-duty Supervisor Comments:

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:	PRUS
Working copy issued by:	R PRICE
	Certified Operations Center Operator

Operations Center Operator Review

 11/3/14
 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 DURLAND	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 A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

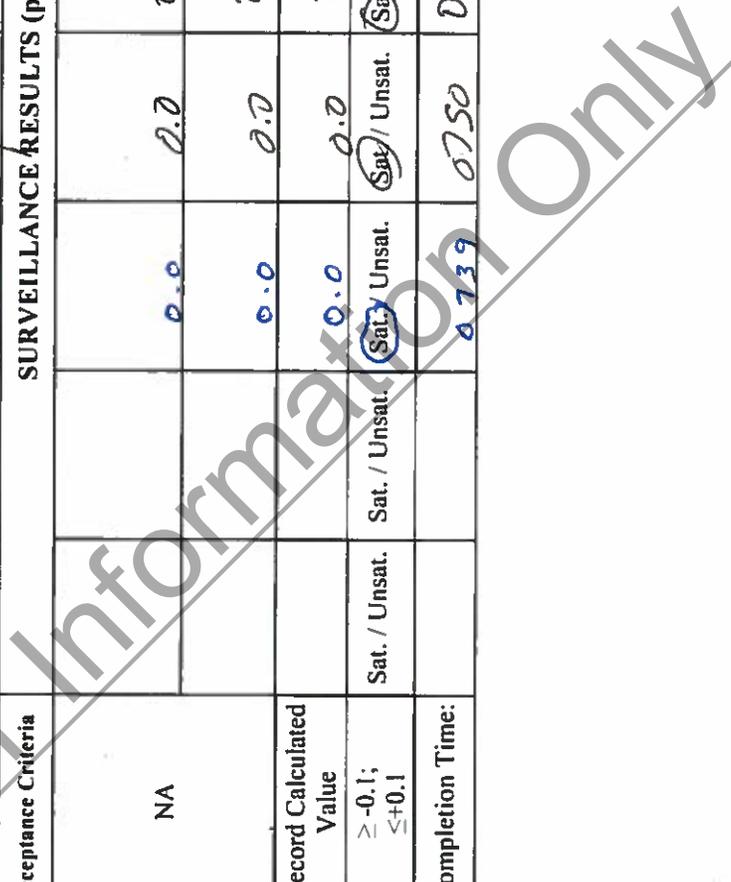
SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS									
				Sat. / Unsat. (circle one)									
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
4.1.1.6	Note Readings should be taken using FCS screens FMT#151, 152, 201LD and 202LD. Field verification and local plenum PDI's may be used if FCS is unavailable.	FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .050 FR-803 Icon red and PDT-833 AP > .050 or FR-804 Icon red and PDT-835 AP > .050 FR-805 Icon red and PDT-836 AP > .050 or FR-806 Icon red and PDT-837 AP > .050 FR-807 Icon red and PDT-838 AP > .050 or FR-808 Icon red and PDT-839 AP > .050 FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .050	At least one fan/plenum is in service At least one fan/plenum is in service			10-01-14	10-02-14	10-03-14	10-04-14	10-05-14			
				Date:		Weekday:		Shift:		Initials:			
				AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			

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

(Page 1 of 4)

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

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



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

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

SRs	Description	Gauge	Acceptance Criteria	Date:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Initials:						
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	≤2.0 & > 0' in. wc			10-1-14	10-2-14	10-3-14	10-4-14	10-5-14
			≤2.0 & > 0' in. wc							
4.1.3.4	South Corridor supply (HVP-810) AP	'PDI-895-1	≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1	≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	'PDI-818-1	≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	'PDI-818-2	≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	'PDI-821-1	≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							
			≤2.0 & > 0' in. wc							

FOR INFORMATION ONLY

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0 ¹ in. wc				10-1-14 .69	10/2/14 .69	10/3/14 .70	10-4-14 .70	10-5-14 .76
		PDI-822-2	≤2.0 & > 0 ¹ in. wc				.50	.50	.50	.50	.50
		PDI-822-4	≤2.0 & > 0 ¹ in. wc				.41	.41	.40	.41	.41
		PDI-822-5	≤2.0 & > 0 ¹ in. wc				.42	.43	.42	.42	.42
		'PDI-823-1	≤2.0 & > 0 ¹ in. wc				STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0 ¹ in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0 ¹ in. wc				STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0 ¹ in. wc				STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	'PDI-830-1	≤2.0 & > 0 ¹ in. wc				.64	.63	.65	.64	.64
		PDI-830-2	≤2.0 & > 0 ¹ in. wc				.30	.30	.30	.30	.30
		PDI-830-3	≤2.0 & > 0 ¹ in. wc				.28	.28	.28	.28	.28
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	'PDI-836-1	≤2.0 & > 0 ¹ in. wc				.97	.97	.97	.97	.97
		PDI-836-2	≤2.0 & > 0 ¹ in. wc				.59	.57	.59	.58	.59
		PDI-836-3	≤2.0 & > 0 ¹ in. wc				.57	.56	.57	.58	.58
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	'PDI-837-1	≤2.0 & > 0 ¹ in. wc				.50	.50	.50	.50	.50
		PDI-837-2	≤2.0 & > 0 ¹ in. wc				.41	.41	.40	.41	.41
		PDI-837-3	≤2.0 & > 0 ¹ in. wc				.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:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0 ¹ in. wc			PT						
		PDI-838-2	≤2.0 & > 0 ¹ in. wc			PT						
		PDI-838-3	≤2.0 & > 0 ¹ in. wc									
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0 ¹ in. wc									
		PDI-839-2	≤2.0 & > 0 ¹ in. wc									
		PDI-839-3	≤2.0 & > 0 ¹ in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0 ¹ in. wc									
		PDI-810-2	≤2.0 & > 0 ¹ in. wc									
		PDI-810-3	≤2.0 & > 0 ¹ in. wc									
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0 ¹ in. wc									
		PDI-811-2	≤2.0 & > 0 ¹ in. wc									
		PDI-811-3	≤2.0 & > 0 ¹ in. wc									
OC Operator Review and Page Count Complete (initials)												

'Non TSR requirement:

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

Completed by: Paul Triggillo Date: 10-5-14 Time: 0745 Reviewed by: [Signature] Date: 10/6/14 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	Date:								
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
			Initials:									
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	PDI-840-1	≤2.0 & > 0' in. wc				STBY	STBY	.17	.16		
		PDI-840-2	≤2.0 & > 0 in'. wc			STBY	STBY	.57	.58			
		PDI-840-3	≤2.0 & > 0' in. wc			STBY	STBY	.50	.50			
	Vault re-circulation filter plenum (HVP-812) ΔP	PDI-841-1	≤2.0 & > 0' in. wc			.45	.45	STBY	STBY			
		PDI-841-2	≤2.0 & > 0' in. wc			.58	.58	STBY	STBY			
		PDI-841-3	≤2.0 & > 0' in. wc			.51	.51	STBY	STBY			
	200 area re-circulation filter plenum (HVP-801) ΔP	PDI-831-1	≤2.0 & > 0' in. wc			.33	.33	.33	.33			
		PDI-831-2	≤2.0 & > 0' in. wc			.40	.40	.40	.40			
		PDI-831-3	≤2.0 & > 0' in. wc			.37	.37	.37	.37			
200 area re-circulation filter plenum (HVP-802) ΔP	PDI-832-1	≤2.0 & > 0' in. wc			.31	.31	.31	.31				
	PDI-832-2	≤2.0 & > 0' in. wc			.60	.60	.60	.60				
	PDI-832-3	≤2.0 & > 0' in. wc			.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			
		PDI-807-2	≤2.0 & > 0' in. wc			OFF	OFF	OFF	OFF			
		PDI-807-3	≤2.0 & > 0' in. wc			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			
		PDI-809-2	≤2.0 & > 0' in. wc			.50	.50	.50	.50			
		PDI-809-3	≤2.0 & > 0' in. wc			.42	.42	.42	.42			

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Date:							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:							
				SURVEILLANCE RESULTS (in. wc)							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc			PT	PT	PT	PT	PT	PT
		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			.79	.80	.80	.80	.80	.79
		PDI-813-2	≤2.0 & > 0' in. wc			.31	.31	.31	.31	.31	.31
		PDI-813-3	≤2.0 & > 0' in. wc			.31	.31	.31	.31	.31	.31
		PDI-813-4	≤2.0 & > 0' in. wc			.31	.31	.31	.31	.31	.31
		PDI-813-5	≤2.0 & > 0' in. wc			.29	.29	.30	.30	.29	.29
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc			.04	.04	.03	.03	.04	.04
		PDI-865-2	≤2.0 & > 0' in. wc			.33	.33	.33	.33	.33	.33
		PDI-865-3	≤2.0 & > 0' in. wc			.40	.40	.40	.40	.40	.40
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc			.07	.05	.05	.05	.05	.05
		PDI-863-2	≤2.0 & > 0' in. wc			.28	.23	.26	.26	.25	.25

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc				10-1-14	10-2-14	10-3-14	10-4-14	10-5-14
		PDI-857-2	≤ 2.0 & > 0' in. wc					.13	.13	.13	.13
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc					.50	.49	.50	.50
		PDI-856-2	≤ 2.0 & > 0' in. wc					.06	.06	.06	.06
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)					.50	.50	.50	.50
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less								
OC Operator Review and Page Count Complete (initials)											
Non TSR requirement											
Note: SR 4.1.3.4 applies during mode 1 and mode 2.											
Completed by: Paul Trujillo Date 10-5-14 Time 0807 Reviewed by: [Signature] Date: 10/14/14 Time: 1600											
Comments: [Signature] Shift-duty Supervisor											

1154 10/1/14 Rm 206 3.3.2 entry of comb in front of 68270 resolved. c. Terrell
 4.3.2.2 10/3/14 Rm 204, 206 Step Ladder inside Non Combustible Storage Area. [Signature]
 4.3.2.2 10/3/14 Rm 204, 206 Non Combustible Storage Area cleared of all combustibles [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	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	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:							
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.								
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F								
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F								
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F								
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F								
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 D... Date: 10/5/14 Time: 1008
 Reviewed by: [Signature] Date: 10/10/14 Time: 1600
 On-duty Supervisor: [Signature]
 Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	Date: 10-06-14 to 10-12-14							
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-803-2		PDI-803-2	AM	PM	AM	PM	AM	PM	
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-802-2		PDI-802-2	AM	PM	AM	PM	AM	PM	
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM		
	PDI-853-2		PDI-853-2	AM	PM	AM	PM	AM	PM			
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM		
	PDI-852-2		PDI-852-2	AM	PM	AM	PM	AM	PM			
Completion Time					0726	0727	0728	0729	0730	0731	0732	0733

SURVEILLANCE RESULTS
Sat. / Unsat. (circle one)

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

Completed by: *[Signature]* Date: 10/12/14 Time: 1921
Reviewed 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 $(\geq -0.1; \leq 0.1)$.

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:		JM	AT	JM	AT	PT	MD	MD
Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
SR 4.4.1.1 Flammable Gas Channel Check DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	$\geq -0.1;$ $\leq +0.1$	Sat / Unsat.						
Completion Time:	0825	0910	0755	0929	0803	0812	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	10/10/14	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
				Initials:	gv	RH	gv	RH	PT	mvz	mvz
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤ 2.0 & > 0' in. wc	.07	.08	.07	.07	.07	.07	.07	.07
		PDI-894-2	≤ 2.0 & > 0' in. wc	.55	.52	.52	.50	.50	.50	.50	.50
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤ 2.0 & > 0' in. wc	.11	.11	.11	.10	.10	.10	.10	.10
		PDI-895-2	≤ 2.0 & > 0' in. wc	.65	.64	.65	.66	.66	.66	.66	.66
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
		PDI-818-1	≤ 2.0 & > 0' in. wc	.24	.24	.24	.24	.24	.24	.24	.24
		PDI-818-2	≤ 2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-818-4	≤ 2.0 & > 0' in. wc	.31	.36	.31	.30	.30	.30	.30	.30
		PDI-818-5	≤ 2.0 & > 0' in. wc	.27	.28	.28	.28	.28	.28	.28	.28
		PDI-821-1	≤ 2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	≤ 2.0 & > 0' in. wc	.42	.43	.42	.42	.42	.42	.42	.42
		PDI-821-4	≤ 2.0 & > 0' in. wc	.38	.39	.38	.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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & >0' in. wc	10/6/14	31	31	31	31	31	31	31	31
		PDI-838-2	≤2.0 & >0' in. wc		40	40	40	41	41	41	41	41
		PDI-838-3	≤2.0 & >0' in. wc		39	39	39	39	39	39	39	39
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & >0' in. wc	10/7/14	31	31	31	31	31	31	31	31
		PDI-839-2	≤2.0 & >0' in. wc		45	46	46	47	48	48	48	
		PDI-839-3	≤2.0 & >0' in. wc		43	42	43	42	42	42	42	
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & >0' in. wc	10/8/14	16	16	16	16	16	16	16	16
		PDI-810-2	≤2.0 & >0' in. wc		49	49	50	49	50	50	50	
		PDI-810-3	≤2.0 & >0' in. wc		48	49	49	49	49	50	50	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & >0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & >0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	≤2.0 & >0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OC Operator Review and Page Count Complete (initials)				0905	0945	0830	0924	0850	0840	0838	0838	

'Non TSR requirement:

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

Completed by: Michael M. Tash Date: 10/15/14 Time: 0938 Reviewed by: [Signature] Date: 10/15/14 Time: 0638

On-Duty Supervisor

Comments

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:	Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & > 0' in. wc	for	10/6/14	10/7/14	10/8/14	10/9/14	10/10/14	10/11/14	10/12/14
		PDI-812-2	≤2.0 & > 0' in. wc	for							
		PDI-812-3	≤2.0 & > 0' in. wc	for							
		PDI-812-4	≤2.0 & > 0' in. wc	for							
		PDI-812-5	≤2.0 & > 0' in. wc	for							
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0' in. wc	for							
		PDI-813-2	≤2.0 & > 0' in. wc	for							
		PDI-813-3	≤2.0 & > 0' in. wc	for							
		PDI-813-4	≤2.0 & > 0' in. wc	for							
		PDI-813-5	≤2.0 & > 0' in. wc	for							
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc	for							
		PDI-865-2	≤2.0 & > 0' in. wc	for							
		PDI-865-3	≤2.0 & > 0' in. wc	for							
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc	for							
		PDI-863-2	≤2.0 & > 0' in. wc	for							

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
				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	gm	gm	gm	gm	gm	gm	gm
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	.15
		PDI-857-2	≤2.0 & > 0' in. wc	.49	.49	.50	.50	.49	.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	.07
		PDI-856-2	≤2.0 & > 0' in. wc	.51	.51	.51	.50	.50	.50	.50	.50
INA	Combustible exclusion area around basement exhaust fans FE826, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
	OC Operator Review and Page Count Complete (initials)		Completion time	0850	0940	0815	0929	0855	0859	0945	0945
	Non TSR requirement			gm	gm	gm	gm	gm	gm	gm	gm

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

Completed by: Michael B. Fish Date: 10/10/14 Time: 0945 Reviewed by: _____

Date: 10/15/14 Time: 0638

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
Record September through April only	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	Acceptance Criteria	Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Initials:
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	10-6-14	10-7-14	10-8-14	10-9-14	10-10-14	10-11-14	10-12-14		
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)											

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: 0838

On-duty Supervisor: _____

Comments: _____

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

10-17-14

SRs	Description	Gauge Acceptance Criteria (in. wc)	SURVEILLANCE RESULTS															
			Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
			Weekday:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP	≤ -1.0 in. wc ¹	10/13/14	-1.94	-1.99	10/14/14	-1.94	-1.96	10/15/14	-1.96	-1.94	10/16/14	-1.94	-1.93	10/17/14	-1.96	-1.93	
	100 area glovebox exhaust header AP	≤ -1.0 in. wc ¹		-1.92	-1.93		-1.92	-1.93		-1.93	-1.93		-1.92	-1.92		-1.93	-1.92	
4.1.1.2 4.1.1.5 4.1.2.2 ²	300 area glovebox exhaust header AP	≤ -1.0 in. wc ¹		-1.98	-1.98		-1.98	-1.98		-1.98	-1.98		-1.98	-1.98		-1.98	-1.98	
	400 area glovebox exhaust header AP	≤ -1.0 in. wc ¹		-1.98	-1.98		-1.98	-1.98		-1.98	-1.98		-1.97	-1.97		-1.97	-1.98	
4.1.1.3 4.1.2.3 ²	200 area laboratory header AP	≤ -0.05 in. wc ¹		-0.20	-0.20		-0.20	-0.20		-0.20	-0.20		-0.20	-0.20		-0.20	-0.20	
	100 area laboratory header AP	≤ -0.05 in. wc ¹		-0.23	-0.23		-0.23	-0.23		-0.23	-0.23		-0.23	-0.23		-0.23	-0.23	
4.1.1.3 4.1.2.3 ²	300 area laboratory header AP	≤ -0.05 in. wc ¹		-0.22	-0.22		-0.22	-0.22		-0.22	-0.22		-0.21	-0.21		-0.21	-0.21	
	400 area laboratory header AP	≤ -0.05 in. wc ¹		-0.21	-0.21		-0.21	-0.21		-0.21	-0.21		-0.21	-0.21		-0.21	-0.21	
4.1.1.3 4.1.2.3 ²	IFTT Facility AP	≤ -0.05 in. wc		-0.19	-0.19		-0.19	-0.19		-0.19	-0.19		-0.19	-0.19		-0.19	-0.19	
	North basement AP	< 0.00 in. wc		-0.10	-0.10		-0.10	-0.10		-0.10	-0.10		-0.10	-0.10		-0.10	-0.10	
4.1.1.3 4.1.2.3 ²	South basement AP	< 0.00 in. wc		-0.10	-0.10		-0.10	-0.10		-0.10	-0.10		-0.10	-0.10		-0.10	-0.10	
	IRT Tunnel AP	< 0.00 in. wc		-0.10	-0.10		-0.10	-0.10		-0.10	-0.10		-0.10	-0.10		-0.10	-0.10	

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

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

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	Date:													
					Mon. 10/13/14		Tue. 10/14/14		Wed. 10/15/14		Thu. 10/16/14		Fri. 10/17/14		Sat. 10/18/14		Sun. 10/19/14	
					AM	PM	AM	PM										
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800		
			PDI-803-2	PDI-820-2 < PDI-802-2 < PDI-804-2	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	
			PDI-804-2	PDI-870-2 < PDI-853-2 < PDI-854-2	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	
			PDI-820-2	PDI-864-2 < PDI-852-2 < PDI-854-2	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	
			PDI-802-2	Completion Time	0730	0728	0731	0724	0733	0740	0732	0729	0730	0730	0730	0730	0730	

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

Completed by: PPC Date 10/19/14 Time 19:21 Reviewed by: [Signature] Date: 10/29/14 Time: 15:15
 On-duty Supervisor

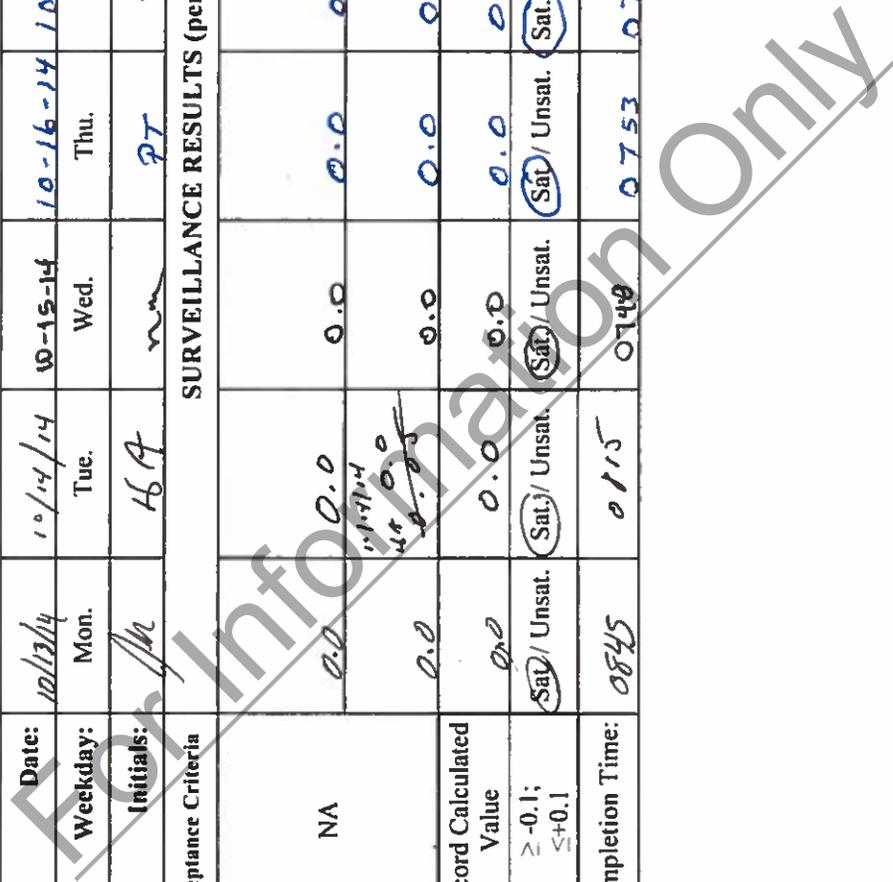
Comments:

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

(Page 1 of 4)

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

		Date:	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		PT	PT	JA	JA
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR	Description / Gauge								
	Flammable Gas Channel Check								
4.4.1.1	DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1 ; $\leq +0.1$	Sat/Unsat.	Sat/Unsat.	Sat/Unsat.	Sat/Unsat.	Sat/Unsat.	Sat/Unsat.	Sat/Unsat.
	Completion Time:	0845	0115	0749	0753	0756	off	off	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)						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				10/13/14	10/14/14	10-15-14	10-16-14	10-17-14	10/18/14	10-19-14
				Weekday:						
				Initials:	JA	HA	nm	PT	PT	0000
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
		PDI-894-2	≤2.0 & > 0' in. wc	.50	.50	.50	.51	.51	.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
		PDI-895-2	≤2.0 & > 0' in. wc	.65	.65	.65	.65	.66	.65	.65
		'PDI-817-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	≤2.0 & > 0' in. wc	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	.24	.25	.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	.31	.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	.22	.27	.27	.27	.27	.28	.28
		PDI-821-1	≤2.0 & > 0' in. wc	.40	.40	.39	.39	.39	.40	.40
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	.39	.39	.39	.39

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday: Initials:	10/13/14 Mon.	10/14/14 Tue.	10-15-14 Wed.	10-16-14 Thu.	10-17-14 Fri.	10/18/14 Sat.	10-19-14 Sun.
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0 ¹ in. wc		.72	.71	.70	.70	.70	.70	.70
		PDI-822-2	≤2.0 & > 0 ¹ in. wc	.50	.50	.49	.50	.50	.50	.50	.50
		PDI-822-4	≤2.0 & > 0 ¹ in. wc	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-822-5	≤2.0 & > 0 ¹ in. wc	.42	.42	.42	.42	.42	.42	.42	.42
		PDI-823-1	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-5	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-830-1	≤2.0 & > 0 ¹ in. wc	.64	.64	.64	.65	.65	.65	.65	.65
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & > 0 ¹ in. wc	.30	.30	.29	.30	.30	.30	.30	.30
		PDI-830-3	≤2.0 & > 0 ¹ in. wc	.28	.28	.27	.28	.28	.28	.28	.29
		PDI-836-1	≤2.0 & > 0 ¹ in. wc	.97	.97	.97	.97	.97	.97	.97	.97
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & > 0 ¹ in. wc	.57	.57	.57	.59	.59	.59	.59	.58
		PDI-836-3	≤2.0 & > 0 ¹ in. wc	.56	.56	.56	.56	.56	.58	.58	.58
		PDI-837-1	≤2.0 & > 0 ¹ in. wc	.50	.50	.50	.50	.50	.50	.50	.51
		PDI-837-2	≤2.0 & > 0 ¹ in. wc	.41	.41	.41	.41	.41	.41	.41	.40
		PDI-837-3	≤2.0 & > 0 ¹ in. wc	.39	.39	.38	.39	.39	.39	.39	.40

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

(Page 4 of 4)

SIRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0 ¹ in. wc	10/13/14	HA	10/14/14	nm	10/16-14	10-17-14	10/18/14	10-19-14	
		PDI-838-2	≤2.0 & > 0 ¹ in. wc			.31	.41	.31	.41	.31	.40	.40
		PDI-838-3	≤2.0 & > 0 ¹ in. wc			.39	.37	.38	.39	.39	.40	.40
		PDI-839-1	≤2.0 & > 0 ¹ in. wc			.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0 ¹ in. wc			.46	.46	.47	.48	.48	.48	.48
		PDI-839-3	≤2.0 & > 0 ¹ 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 ¹ in. wc			.17	.17	.17	.17	.16	.16	
		PDI-810-2	≤2.0 & > 0 ¹ in. wc			.50	.50	.50	.50	.50	.50	
		PDI-810-3	≤2.0 & > 0 ¹ in. wc			.50	.49	.49	.49	.48	.48	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & > 0 ¹ in. wc			OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-811-2	≤2.0 & > 0 ¹ in. wc			OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-811-3	≤2.0 & > 0 ¹ in. wc			OFF	OFF	OFF	OFF	OFF	OFF	
OC Operator Review and Page Count Complete (initials)						0820	0810	0832	0832	0851	0830	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: AL Date 10-19-14 Time 0845 Reviewed by: [Signature] Date: 10/20/14 Time: 0650

Comments

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

(Page 1 of 4)

SIRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date: 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	JK	10/13/14	10/14/14	10/15/14	10/16-14	10-17-14	10/18/14	10/19/14	
		PDI-840-2	≤2.0 & > 0 in' wc	JK								
		PDI-840-3	≤2.0 & > 0' in. wc	JK								
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	STBY	JK							
		PDI-841-2	≤2.0 & > 0' in. wc	STBY								
		PDI-841-3	≤2.0 & > 0' in. wc	STBY								
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	STBY	JK							
		PDI-831-2	≤2.0 & > 0' in. wc	STBY								
		PDI-831-3	≤2.0 & > 0' in. wc	STBY								
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	STBY	JK								
	PDI-832-2	≤2.0 & > 0' in. wc	STBY									
	PDI-832-3	≤2.0 & > 0' in. wc	STBY									
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	OFF								
		PDI-807-2	≤2.0 & > 0' in. wc	OFF								
		PDI-807-3	≤2.0 & > 0' in. wc	OFF								
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	JK								
		PDI-809-2	≤2.0 & > 0' in. wc	JK								
		PDI-809-3	≤2.0 & > 0' in. wc	JK								

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS						
					Date:	Weekdays:	Mon.	Tue.	Wed.	Thu.	Fri.
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0 ¹ in. wc	[Signature]	10/13/14	10/14/14	10/15/14	10/16/14	10/17/14	10/18/14	10/19/14
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0 ¹ in. wc	[Signature]		HA	HA	PT	PT	[Signature]	[Signature]
'NA'	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤ 2.0 & > 0 ¹ in. wc								
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0 ¹ in. wc								
			0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)								
			0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less								
			Completion time								
			OC Operator Review and Page Count Complete (initials)								

! Non TSR requirement

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

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

On-duty Supervisor

Comments: Test in RM 207 no shielding SAT according to O&S center.

480 welding cord in South Basement Combustible area short metal w/interfering 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

SR	Description	Acceptance Criteria	Daily (September through April only)									
			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.			
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	57.7	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	63.40	64.46	62.2	60.9			
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	58.8	58.58	59.44	62.84	63.71	61.5	59.8			
	Completion Time:		1020	0836	0755	0750	0800	0945	0916			
	OC Operator Review and Page Count Complete (initials)		DAD	DAD	DAD	BE	BE	BE	BE			

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 Duda Date: 10/19/14 Time: 0956

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

Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRs	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)														
			Mon. AM	Mon. PM	Tue. AM	Tue. PM	Wed. AM	Wed. PM	Thu. AM	Thu. PM	Fri. AM	Fri. PM	Sat. AM	Sat. PM	Sun. AM	Sun. PM	
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-814-1 or PDI-814-2	1.53	1.57	1.66	1.95	1.97	1.93	1.95	1.93	1.95	1.95	1.93	1.95	1.95	1.93	1.92
	100 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-820-1 or PDI-820-2	1.92	1.93	1.92	1.93	1.93	1.99	1.93	1.93	1.95	1.93	1.93	1.93	1.93	1.93	1.92
	300 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-870-1 or PDI-870-2	1.97	1.98	1.98	1.98	1.98	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
	400 area glovebox exhaust header ΔP	≤-1.0 in. wc ¹ PDI-864-1 or PDI-864-2	1.97	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-803-1 or PDI-803-2	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	
	100 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-802-1 or PDI-802-2	0.23	0.24	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	
	300 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-853-1 or PDI-853-2	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	
	400 area laboratory header ΔP	≤-0.05 in. wc ¹ PDI-852-1 or PDI-852-2	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	
4.1.1.3 4.1.2.3 ²	IFIT Facility ΔP	≤-0.05 in. wc PDI-865-4 or PDI-865-5	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	
	North basement ΔP	<0.00 in. wc PDI-804-1 or PDI-804-2	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		
	South basement ΔP	<0.00 in. wc PDI-854-1 or PDI-854-2	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		
	IRT Tunnel ΔP	<0.00 in. wc PDT-901 or PDI-901	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS							
				Sat. / Unsat. (circle one)							
4.1.1.6	Note Readings should be taken using FCS screens FMT#151,152,201LD and 202LD. Field verification and local plenum PDI's may be used if FCS is unavailable.	FR-801 Icon red and PDT-831 AP >.050 or FR-802 Icon red and PDT-832 AP >.050 FR-803 Icon red and PDT-833 AP >.050 or FR-804 Icon red and PDT-835 AP >.050 FR-805 Icon red and PDT-836 AP >.050 or FR-806 Icon red and PDT-837 AP >.050 FR-807 Icon red and PDT-838 AP >.050 or FR-808 Icon red and PDT-839 AP >.050 FR-811 Icon red and PDT-840 AP >.050 or FR-812 Icon red and PDT-841 AP >.050	At least one fan/plenum is in service	Date: 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.	
				Shift: AM	PM	AM	PM	AM	PM	AM	PM
				Initials: [Signature]	[Signature]	[Signature]	U	[Signature]	[Signature]	[Signature]	[Signature]

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	Date:													
					Mon.		Tue		Wed		Thu		Fri		Sat		Sun	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	10/20/14	10/21/14	10/22/14	10/23/14	10/24/14	10/25/14	10/26/14							
			PDI-803-2															
			PDI-804-2															
			PDI-820-2															
			PDI-802-2															
		100 Area	PDI-804-2	PDI-820-2 < PDI-804-2														
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2														
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2														
				Completion Time	0713	0736	0721	1921	1921	1921	1921	1921	1921	1921	1921			

SURVEILLANCE RESULTS

Sat. / Unsat. (circle one)

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

Completed by: [Signature] Date: 10/21/14 Time: 1921 Reviewed by: [Signature] Date: 10/21/14 Time: 0700
 On-duty Supervisor

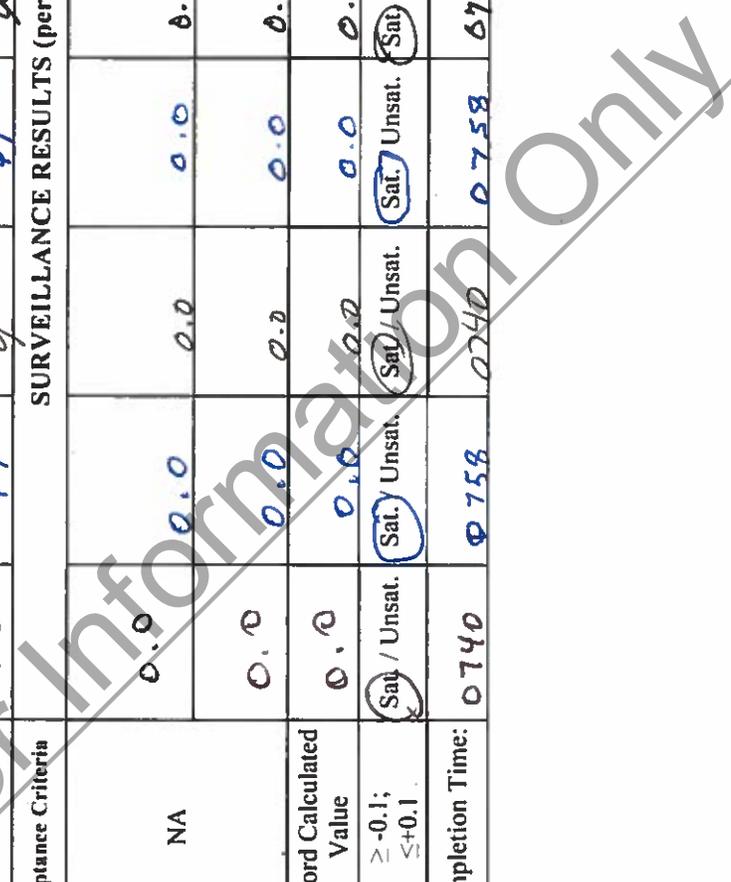
Comments:

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 (≥ -0.1 ; ≤ 0.1).

		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	Ju	PT	Ah	PT	PT
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR	Description / Gauge								
	Flammable Gas Channel Check								
4.4.1.1	DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -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	0800



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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				10-20-14	10-21-14	10-22-14	10-23-14	10-24-14	10-25-14	10-26-14
				Initials:	PT	PT	PT	PT	PT	PT
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	PDI-822-1	≤2.0 & > 0 ¹ in. wc	.70	.76	.76	.76	.76	.76	.76
		PDI-822-2	≤2.0 & > 0 ¹ in. wc	.50	.50	.51	.51	.50	.51	.51
		PDI-822-4	≤2.0 & > 0 ¹ in. wc	.41	.42	.42	.42	.43	.42	.42
		PDI-822-5	≤2.0 & > 0 ¹ in. wc	.44	.47	.47	.47	.48	.48	.48
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-1	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-2	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-1	≤2.0 & > 0 ¹ in. wc	.65	.66	.65	.65	.65	.66	.66
		PDI-830-2	≤2.0 & > 0 ¹ in. wc	.30	.30	.30	.30	.30	.30	.30
		PDI-830-3	≤2.0 & > 0 ¹ in. wc	.27	.28	.28	.28	.28	.28	.28
		PDI-836-1	≤2.0 & > 0 ¹ in. wc	.97	.97	.97	.97	.98	.97	.97
		PDI-836-2	≤2.0 & > 0 ¹ in. wc	.58	.58	.58	.58	.58	.58	.58
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-3	≤2.0 & > 0 ¹ in. wc	.55	.56	.56	.56	.57	.55	.55
		PDI-837-1	≤2.0 & > 0 ¹ in. wc	.50	.50	.50	.50	.51	.51	.51
		PDI-837-2	≤2.0 & > 0 ¹ in. wc	.41	.41	.41	.41	.41	.41	.41
		PDI-837-3	≤2.0 & > 0 ¹ in. wc	.38	.38	.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:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0 ¹ in. wc	10-20-14	Mon.	PT	0.31	0.31	0.31	0.31	0.31	0.31	0.31
		PDI-838-2	≤2.0 & > 0 ¹ in. wc				0.41	0.41	0.41	0.41	0.40	0.40	0.40
		PDI-838-3	≤2.0 & > 0 ¹ in. wc				0.39	0.39	0.39	0.39	0.38	0.39	0.39
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0 ¹ in. wc	10-21-14	Tue.	PT	0.31	0.31	0.31	0.31	0.31	0.31	0.31
		PDI-839-2	≤2.0 & > 0 ¹ in. wc				0.48	0.48	0.47	0.48	0.48	0.48	0.48
		PDI-839-3	≤2.0 & > 0 ¹ in. wc				0.43	0.43	0.43	0.43	0.44	0.42	0.42
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0 ¹ in. wc	10-22-14	Wed.	PT	0.16	0.15	0.15	0.15	0.15	0.15	0.15
		PDI-810-2	≤2.0 & > 0 ¹ in. wc				0.49	0.49	0.49	0.49	0.48	0.48	0.48
		PDI-810-3	≤2.0 & > 0 ¹ in. wc				0.49	0.45	0.45	0.45	0.47	0.45	0.45
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & > 0 ¹ in. wc	10-23-14	Thu.	PT	OFF						
		PDI-811-2	≤2.0 & > 0 ¹ in. wc				OFF						
		PDI-811-3	≤2.0 & > 0 ¹ in. wc				OFF						
OC Operator Review and Page Count Complete (initials)				10-24-14	Fri.	PT	0826	0819	0750	0907	0821	0754	0753

Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1. SRs 4.1.3.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: 10/28/14 Time: 0700

Comments

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

(Page 1 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & >0' in. wc	pm	10/20/14	10/21/14	10/22/14	10/23/14	10/24/14	10/25/14	10/26/14
		PDI-840-2	≤2.0 & >0 in' wc	pm							
		PDI-840-3	≤2.0 & >0' in. wc	pm							
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & >0' in. wc	STBY							
		PDI-841-2	≤2.0 & >0' in. wc	STBY							
		PDI-841-3	≤2.0 & >0' in. wc	STBY							
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & >0' in. wc	.33							
		PDI-831-2	≤2.0 & >0' in. wc	.40							
		PDI-831-3	≤2.0 & >0' in. wc	.37							
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & >0' in. wc	.31								
	PDI-832-2	≤2.0 & >0' in. wc	.60								
	PDI-832-3	≤2.0 & >0' in. wc	.54								
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & >0' in. wc	off							
		PDI-807-2	≤2.0 & >0' in. wc	off							
		PDI-807-3	≤2.0 & >0' in. wc	off							
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & >0' in. wc	.02							
		PDI-809-2	≤2.0 & >0' in. wc	.50							
		PDI-809-3	≤2.0 & >0' in. wc	.41							

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	2.0 > 0 ¹ in. wc	10/24/14	10/21/14	10-22-14	10-23-14	10-24-14	10-25-14	10-26-14
		PDI-857-2	≤2.0 > 0 ¹ in. wc	gm	gm	PT	PT	PT	PT	PT
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-856-1	≤2.0 > 0 ¹ in. wc							
		PDI-856-2	≤2.0 > 0 ¹ 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 ³ combustibles in designated exclusion area (within 15 feet of fans)							
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less							
Completion time				0825	0811	0810	0815	0927	0800	0806
OC Operator Review and Page Count Complete (initials)				RA	RSB	RSB	RSB	RSB	RSB	RSB

Non TSR requirement

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

Completed by: Paul English Date 10-26-14 Time 0806 Reviewed by: [Signature]

Date: 10/24/14 Time: 0700

On-duty Supervisor

Comments: 10/21/14 LFE-13T is ok in Vault Recirculation plenum. Notified ops. gm

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	
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.	
		Shift:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
		Initials:	C P		K		K		K		K	
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-814-2 < PDI-803-2 > PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-803-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 > PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
			PDI-804-2	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		
	PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 > PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
	PDI-852-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
				Completion Time	0727	0735	0735	0735	0735	0735	0734	1930

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

Completed by: AB Date 10-31-14 Time 1930 Reviewed by: BBJ Date: 11/3/14 Time: 0734
 On-duty Supervisor

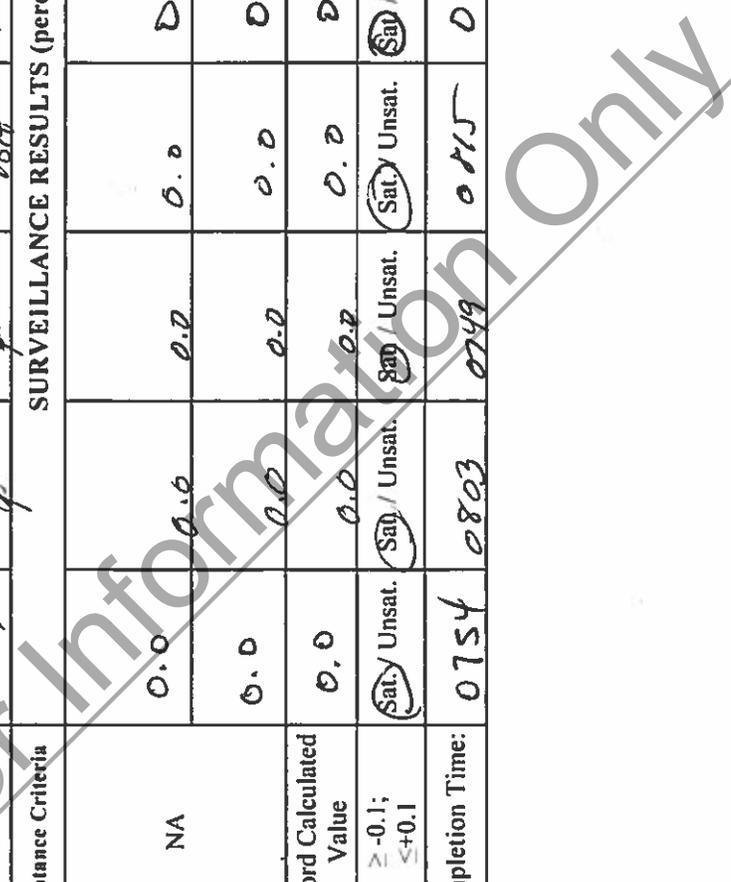
Comments:

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

(Page 1 of 4)

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

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



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

(Page 4 of 4)

SRs	Description	Gauge	Date:							
			Weekday:							
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			10-27-14	10-28-14	10-29-14	10-30-14	10-31-14			
			Initials:							
			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	.51	.31	.31	.21	.31		
		PDI-838-2	≤2.0 & > 0' in. wc	.40	.41	.41	.41	.41		
		PDI-838-3	<2.0 & > 0' in. wc	.38	.38	.38	.38	.39		
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	<2.0 & > 0' in. wc	.31	.31	.31	.31	.31		
		PDI-839-2	<2.0 & > 0' in. wc	.45	.47	.47	.47	.46		
		PDI-839-3	<2.0 & > 0' 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' in. wc	.15	OFF	OFF	OFF	OFF		
		PDI-810-2	<2.0 & > 0' in. wc	.45	OFF	OFF	OFF	OFF		
		PDI-810-3	<2.0 & > 0' in. wc	.45	OFF	OFF	OFF	OFF		
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	<2.0 & > 0' in. wc	OFF	.11	.11	.11	.11		
		PDI-811-2	<2.0 & > 0' in. wc	OFF	.47	.47	.47	.49		
		PDI-811-3	<2.0 & > 0' in. wc	OFF	.48	.48	.48	.48		
			Completion Time	0845	0900	0826	0904	0854		
			OC Operator Review and Page Count Complete (initials)	WR	WR	WR	WR	WR		

*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

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				10-27-14 Mon.	10/28/14 Tue.	10/29/14 Wed.	10/30/14 Thu.	10/31/14 Fri.		
			Initials:	MS	SH	JK	GA	RH		
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	PDI-829-1 PDI-829-2 PDI-829-3	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	.13 .32 .27	.14 .34 .29	.13 .33 .28	.13 .37 .28	.13 .34 .29		
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-1 PDI-833-2 PDI-833-3	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	1.0 .45 .44	1.0 .45 .43	1.0 .45 .44	1.0 .45 .44	1.0 .45 .43		
	100 area re-circulation filter plenum (HVP-804) AP	PDI-835-1 PDI-835-2 PDI-835-3	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	.15 .45 .40	.15 .45 .40	.15 .45 .41	.15 .45 .41	.15 .45 .40		
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-1 PDI-815-2 PDI-815-4 PDI-815-5	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY	STBY STBY STBY STBY		
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-1 PDI-816-2 PDI-816-4 PDI-816-5	≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc ≤ 2.0 & > 0' in. wc	.35 .42 .41 .42	.33 .41 .41 .42	.34 .41 .41 .42	.34 .41 .41 .42	.31 .40 .40 .41		

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	2.0 > 0' in. wc	.15	.14	.15	.15	.15		
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	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		
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-2	< 2.0 > 0' in. wc	.50	.51	.51	.51	.52		
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	SAT	0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT		
4.3.2.2	Rooms 201, 204, 206, & 207	SAT	0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT		
OC Operator Review and Page Count Complete (initials)				0856	0905	0817	0910	0849		

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

Completed by: *[Signature]* Date: 10/31/14 Time: 0916
 Reviewed by: *[Signature]* 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.:	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																					
SR	Description	Acceptance Criteria	Date:							Completion Time:											
			10/27/2014	10/28/2014	10/29/14	10/30/2014	10/31/14	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	57.38	56.95	54.2	56.26	56.3														
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	57.24	58.83	58.1	58.08	57.7														
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	63.53	59.95	59.5	60.54	59.1														
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	61.07	60.95	58.1	62.80	64.5														
	OC Operator Review and Page Count Complete (initials)		OK	OK	OK	OK	OK	OK													

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

Completed by: [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)

S/Rs	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			

*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-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
4.1.32	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
			Seconds				
4.1.32	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.	1520	10-22-14	PT
4.1.32	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
OC Operator Review and Page Count Complete							0/00

Note: SR 4.1.3.2 applies during mode 1 and 2.

Completed by: Paul Angillo Date: 10-22-14 Time: 1557 Reviewed by: RSB Date: 11/30/14 Time: 1613

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	BAO	11/1/14	
B Chance	BAO	↑ ↓	
D Dunaway	BAO		
A Dunsath	BAO		
J Lovato	BAO		
R Lum	BAO		
A Ortiz	BAO		
F Seybart	BAO		
J Smeltz	BAO		
R Price	BAO		11/1/14

Comments:

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

Training Checklist (continuation sheet)

Workers Performing Surveillance	Applicable Surveillance Training Current		
	Initials	Date	
J Martinez	BAJ	11/1/14	
N Montoya	BAJ	↑ ↓	
P Trujillo	BAJ		
T Lengwerthy	BAJ		
R Hohner	BAJ		
M Irish	BAJ		
A Herrera	BAJ		
H Atencio	BAJ		
A Sanchez	BAJ		
B Fordham	BAJ		11/1/14

For Information Only

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRS	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS								
					Sat. / Unsat. (circle one)								
					Mon	Tue	Wed	Thu	Fri	Sat	Sun		
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's for basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2									
			PDI-803-2	PDI-803-2 < PDI-804-2									
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2									
			PDI-804-2	PDI-804-2 < PDI-804-2									
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2									
PDI-853-2	PDI-853-2 < PDI-854-2												
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2											
Completion Time													

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

Completed by: ad Date 11-2-14 Time 1930 Reviewed by: BBG Date: 11/3/14 Time: 0848
 On-duty Supervisor

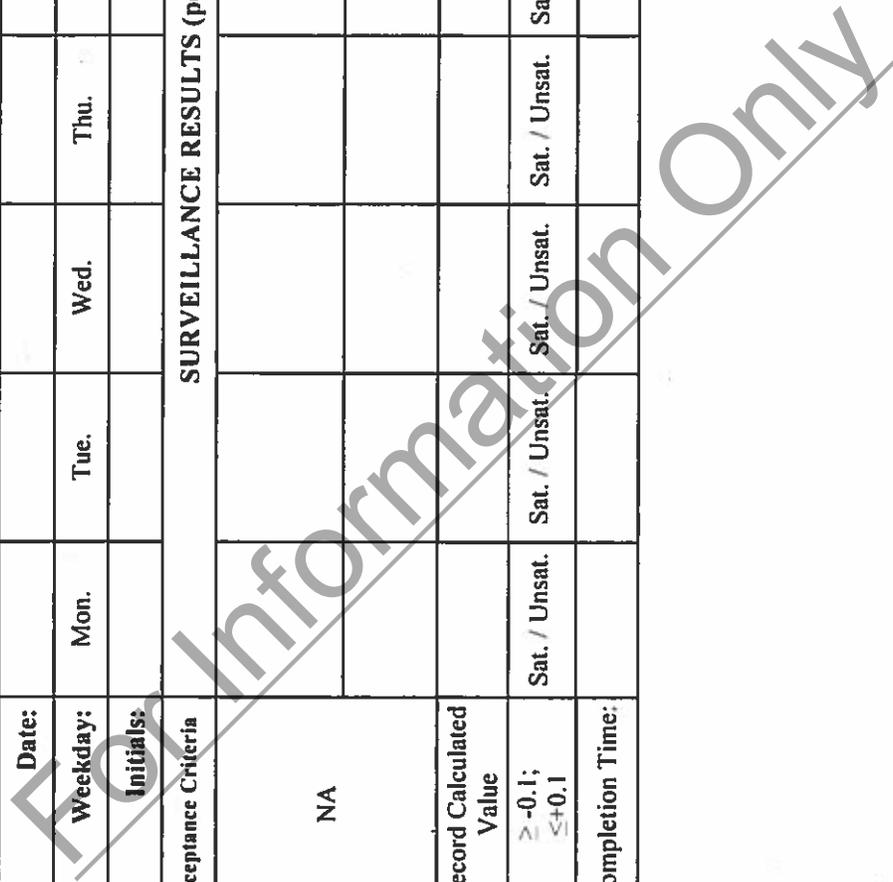
Comments:

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 (≥ -0.1 ; ≤ 0.1).

		Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
		Weekday:						11/1/14	11-2-14
		Initials:						KL	~
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR	Description / Gauge	NA						0.0	0.0
	Flammable Gas Channel Check DET-305-3 (LCD Reading)							0.0	0.0
4.4.1.1	CP-305-H (LED Reading)							0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value						Sat./ Unsat.	Sat./ Unsat.
		≥ -0.1 ; $\leq +0.1$	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
		Completion Time:						0845	0813



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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤2.0 & > 0' in. wc	11/1/14							11-2-14	
		PDI-894-2	≤2.0 & > 0' in. wc									
4.1.3.4	South Corridor supply (HVP-810) ΔP	'PDI-895-1	≤2.0 & > 0' in. wc									
		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-81 9-1	≤2.0 & > 0' in. wc									
		PDI-81 9-3	≤2.0 & > 0' in. wc									
		PDI-819-4	≤2.0 & > 0' in. wc									
		'PDI-818-1	≤2.0 & > 0' in. wc									
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤2.0 & > 0' in. wc									
		PDI-818-4	≤2.0 & > 0' in. wc									
		PDI-818-5	≤2.0 & > 0' in. wc									
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-821-1	≤2.0 & > 0' in. wc									
		PDI-821-3	≤2.0 & > 0' in. wc									
		PDI-821-4	≤2.0 & > 0' in. wc									

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤ 2.0 & $> 0^1$ in. wc							11/1/14		
		PDI-822-2	≤ 2.0 & $> 0^1$ in. wc								STBY	STBY
		PDI-822-4	≤ 2.0 & $> 0^1$ in. wc								STBY	STBY
		PDI-822-5	≤ 2.0 & $> 0^1$ in. wc								STBY	STBY
		'PDI-823-1	≤ 2.0 & $> 0^1$ in. wc								0.10	.10
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤ 2.0 & $> 0^1$ in. wc							0.50	.42	
		PDI-823-4	≤ 2.0 & $> 0^1$ in. wc							0.50	.50	
		PDI-823-5	≤ 2.0 & $> 0^1$ in. wc							0.50	.50	
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	'PDI-830-1	≤ 2.0 & $> 0^1$ in. wc							0.65	.65	
		PDI-830-2	≤ 2.0 & $> 0^1$ in. wc							0.30	.30	
		PDI-830-3	≤ 2.0 & $> 0^1$ in. wc							0.30	.30	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	'PDI-836-1	≤ 2.0 & $> 0^1$ in. wc							0.98	.98	
		PDI-836-2	≤ 2.0 & $> 0^1$ in. wc							0.60	.60	
		PDI-836-3	≤ 2.0 & $> 0^1$ in. wc							0.60	.60	
		'PDI-837-1	≤ 2.0 & $> 0^1$ in. wc							0.50	.51	
		PDI-837-2	≤ 2.0 & $> 0^1$ in. wc							0.40	.40	
		PDI-837-3	≤ 2.0 & $> 0^1$ in. wc						0.40	.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.	Sun.	
				Weekday:	Initials:							
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$							11/1/14	11-2-14	
		PDI-838-2	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$								Sat.	Sun.
		PDI-838-3	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$								K	
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$									
		PDI-839-2	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$									
		PDI-839-3	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$									
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$									
		PDI-810-2	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$									
		PDI-810-3	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$									
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$									
		PDI-811-2	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$									
		PDI-811-3	$\leq 2.0 \text{ \> } 0^1 \text{ in. wc}$									
OC Operator Review and Page Count Complete (initials)												

'Non TSR requirement:

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

Completed by: [Signature] Date 11/3/14 Time 0840 Reviewed by: [Signature] Date: 11/3/14 Time: 0851
On-duty Supervisor

Comments _____

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤ 2.0 & > 0' in. wc								11/20/14	11/22/14	
		PDI-812-2	≤ 2.0 & > 0' in. wc									Sat.	Sun.
		PDI-812-3	≤ 2.0 & > 0' in. wc										
		PDI-812-4	≤ 2.0 & > 0' in. wc										
		PDI-812-5	≤ 2.0 & > 0' in. wc										
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤ 2.0 & > 0' in. wc										
		PDI-813-2	≤ 2.0 & > 0' in. wc										
		PDI-813-3	≤ 2.0 & > 0' in. wc										
		PDI-813-4	≤ 2.0 & > 0' in. wc										
		PDI-813-5	≤ 2.0 & > 0' in. wc										
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤ 2.0 & > 0' in. wc										
		PDI-865-2	≤ 2.0 & > 0' in. wc										
		PDI-865-3	≤ 2.0 & > 0' in. wc										
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤ 2.0 & > 0' in. wc										
		PDI-863-2	≤ 2.0 & > 0' in. wc										

FOR INFORMATION ONLY

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

(Page 4 of 4)

SRs	Description	Gauge	SURVEILLANCE RESULTS							
			Acceptance Criteria							
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	North Basement supply filter plenum (IIVP-840) ΔP	PDI-857-1	≤ 2.0 & > 0' in. wc						11/08/14	Sun.
		PDI-857-2	≤ 2.0 & > 0' in. wc							
4.1.3.4	North corridor supply filter plenum (IIVP-809) ΔP	PDI-856-1	≤ 2.0 & > 0' in. wc							
		PDI-856-2	≤ 2.0 & > 0' in. wc							
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)							
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less							
OC Operator Review and Page Count Complete (initials)			Completion time						0908	0838

Information Only

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

Completed by: Michael Fish Date 11/21/14 Time 0637 Reviewed by: BSB Date: 11/3/14 Time: 0853
 Comments: 4.1.1.7 PDI-833-1 Exceeds gauge range. Not pagged 11/01/14 min
4.1.1.7 PDI-833-1 Exceeds gauge range. Not pagged 11/03/14 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	V-701 Thermistor File No.:	039744
	Calibration Expiration Date:	6-17-15	Calibration Expiration Date:	6-26-15
	PF-11 Thermometer File No.:	042252	V-704 Thermistor File No.:	040375
	Calibration Expiration Date:	6-17-15	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	Acceptance Criteria	Date:							Completion Time:			
			Weekday:										
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.				
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.											
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F										11-1-14 Sat.	11/2/14 Sun.
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F											
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F											
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F											
	OC Operator Review and Page Count Complete (initials)												

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

Completed by: PRICE Date: 11/2/14 Time: 0917
 Reviewed by: _____ Date: _____ Time: _____
 On-duty Supervisor

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS							
				Sat. / Unsat. (circle one)							
4.1.1.6	200 area re-circulation fan/plenum	FR-801 Icon red and PDT-831 ΔP > .050 or FR-802 Icon red and PDT-832 ΔP > .050	At least one fan/plenum is in service	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.	
	100 area re-circulation fan/plenum	FR-803 Icon red and PDT-833 ΔP > .050 or FR-804 Icon red and PDT-835 ΔP > .050	At least one fan/plenum is in service	AM	PM	AM	PM	AM	PM	AM	PM
				AM	PM	AM	PM	AM	PM	AM	PM
	300 area re-circulation fan/plenum	FR-805 Icon red and PDT-836 ΔP > .050 or FR-806 Icon red and PDT-837 ΔP > .050	At least one fan/plenum is in service	AM	PM	AM	PM	AM	PM	AM	PM
				AM	PM	AM	PM	AM	PM	AM	PM
	400 area re-circulation fan/plenum	FR-807 Icon red and PDT-838 ΔP > .050 or FR-808 Icon red and PDT-839 ΔP > .050	At least one fan/plenum is in service	AM	PM	AM	PM	AM	PM	AM	PM
				AM	PM	AM	PM	AM	PM	AM	PM
	Vault re-circulation fan/plenum	FR-811 Icon red and PDT-840 ΔP > .050 or FR-812 Icon red and PDT-841 ΔP > .050	At least one fan/plenum is in service	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:	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:		BC		AL		K		K		AL		AL		AL		AL	
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-814-2 < PDI-803-2 > 2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-803-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 > 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	Unsat
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 > 2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
400 Area	PDI-853-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
			PDI-864-2	PDI-864-2 < PDI-852-2 > 2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			PDI-852-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
			PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
			Completion Time		1919	1926	1932	1933	1930	1924	1925	1924	1925	1924	1924		

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

Completed by: [Signature] Date: 11/19/14 Time: 0830

Reviewed by: [Signature] Date: 11/19/14 Time: 0830

Comments:

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

(Page 1 of 4)

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

		Date:	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:	rs	gh	pf	pf	gh	gh	gh	
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
SR	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	
4.4.1.1	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		≥ -0.1 ; $\leq +0.1$	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	
		Completion Time:	0910	0800	0821	0800	0720	0750	0820	



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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)									
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0' in. wc	11/13/14	Mon.	JK	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0' in. wc	11/14/14	Tue.	JK	.41	.42	.41	.41	.41	.42	.42
		PDI-838-3	≤2.0 & > 0' in. wc	11/15/14	Wed.	PT	.39	.39	.39	.39	.39	.39	.39
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0' in. wc	11/14/14	Tue.	JK	.41	.42	.41	.41	.41	.42	.42
		PDI-839-2	≤2.0 & > 0' in. wc	11/15/14	Wed.	PT	.41	.42	.41	.41	.41	.42	.42
		PDI-839-3	≤2.0 & > 0' in. wc	11/16/14	Thu.	PT	.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	11/13/14	Mon.	JK	OFF						
		PDI-810-2	≤2.0 & > 0' in. wc	11/14/14	Tue.	JK	OFF						
		PDI-810-3	≤2.0 & > 0' in. wc	11/15/14	Wed.	PT	OFF						
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & > 0' in. wc	11/13/14	Mon.	JK	.11	.11	.11	.11	.11	.11	.11
		PDI-811-2	≤2.0 & > 0' in. wc	11/14/14	Tue.	JK	.47	.48	.47	.47	.48	.48	.48
		PDI-811-3	≤2.0 & > 0' in. wc	11/15/14	Wed.	PT	.48	.49	.49	.49	.49	.48	.48
OC Operator Review and Page Count Complete (initials)				0945	0816	0841	0834	0751	0821	0841			

'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: SRM/Alk Date 11/19/14 Time 0845 Reviewed by: RSB-J Date 11/19/14 Time 0832

On-duty Supervisor

Comments

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)								
					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 ¹ in. wc	gm	PT	gm	PT	gm	PT	RAH	PT	RAH	
		PDI-812-2	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-3	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-4	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-812-5	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & > 0 ¹ in. wc	.80	.81	.81	.79	.81	.81	STBY	STBY	STBY	
		PDI-813-2	≤2.0 & > 0 ¹ in. wc	.31	.32	.31	.31	.31	.31	STBY	STBY	STBY	
		PDI-813-3	≤2.0 & > 0 ¹ in. wc	.30	.30	.30	.31	.31	.31	STBY	STBY	STBY	
		PDI-813-4	≤2.0 & > 0 ¹ in. wc	.33	.33	.33	.32	.32	.32	STBY	STBY	STBY	
		PDI-813-5	≤2.0 & > 0 ¹ in. wc	.28	.28	.29	.29	.29	.29	STBY	STBY	STBY	
4.1.3.4	IFT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0 ¹ in. wc	.04	.04	.04	.04	.04	.04	.04	.04	.04	
		PDI-865-2	≤2.0 & > 0 ¹ in. wc	.37	.36	.33	.33	.33	.33	.33	.33	.33	
		PDI-865-3	≤2.0 & > 0 ¹ in. wc	.42	.41	.39	.41	.41	.41	.40	.40	.40	
4.1.3.4	IFT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤2.0 & > 0 ¹ in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05	
		PDI-863-2	≤2.0 & > 0 ¹ in. wc	.26	.26	.26	.24	.24	.24	.26	.26	.26	

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS						
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.3.4	North Basement supply filter plenum (11VP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0' in. wc	11/3/14	11-4-14	11-5-14	11-6-14	11-7-14	11/8/14	11/9/14
		PDI-857-2	≤ 2.0 & > 0' in. wc	PM	PT	PM	PT	PT	PT	PT
4.1.3.4	North corridor supply filter plenum (11VP-809) ΔP	'PDI-856-1	≤ 2.0 & > 0' in. wc	PM	PT	PM	PT	PT	PT	PT
		PDI-856-2	≤ 2.0 & > 0' in. wc	PM	PT	PM	PT	PT	PT	PT
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)							
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less							
				Completion time						
				OC Operator Review and Page Count Complete (initials)						
				SAT SAT SAT SAT SAT SAT SAT SAT SAT						
				0930 0827 0912 0846 0830 0808 0935						
				[Signatures]						

Non TSR requirement

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

Completed by: [Signature] Date 11/7/14 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.:	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 Runhouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature

SR	Description	Date:	Weekdays:							Sat.	Sun.	
			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	11/3/2014										
4.3.1.1'	RECORD fire water storage tank V-701 temperature	11/4/14										11/9/14
4.3.1.1'	RECORD fire water storage tank V-704 temperature	11/4/14										11/9/14
4.3.1.3'	RECORD PF-10 room temperature	11/3/2014	BF	PH	BF							
4.3.1.3'	RECORD PF-11 room temperature	11/3/2014	BF	PH	BF							
	Completion Time:	0840										
	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: 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	Date:	11/10/14		11/11/14		11/12/14		11/13/14		11/14/14		11/15/14		11/16/14	
		Weekday:		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.															
SRs	Description	SURVEILLANCE RESULTS (in. wc)													
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP	-1.97	-1.95	-1.96	-1.97	-1.98	-1.95	-1.93	-1.93	-1.98	-1.98	-1.94	-1.96	-1.94	-1.96
	100 area glovebox exhaust header AP	-1.92	-1.92	-1.92	-1.93	-1.94	-1.93	-1.93	-1.93	-1.92	-1.92	-1.92	-1.93	-1.92	-1.92
4.1.1.2 4.1.1.5 4.1.2.2 ²	300 area laboratory exhaust header AP	-1.98	-1.98	-1.97	-1.98	-1.99	-1.98	-1.97	-1.98	-1.98	-1.98	-1.99	-1.98	-1.98	-1.97
	400 area laboratory exhaust header AP	-1.97	-1.97	-1.97	-1.97	-1.97	-1.96	-1.97	-1.98	-1.98	-1.98	-1.98	-1.97	-1.97	-1.97
4.1.1.3 4.1.2.3 ²	200 area laboratory header AP	-1.18	-1.19	-1.18	-1.18	-1.18	-1.17	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	-1.18
	100 area laboratory header AP	-1.20	-1.20	-1.22	-1.21	-1.19	-1.21	-1.22	-1.21	-1.23	-1.23	-1.22	-1.21	-1.22	-1.21
4.1.1.2 4.1.1.5 4.1.2.2 ²	300 area laboratory header AP	-1.21	-1.21	-1.23	-1.22	-1.19	-1.21	-1.23	-1.23	-1.23	-1.23	-1.23	-1.22	-1.22	-1.21
	400 area laboratory header AP	-1.20	-1.19	-1.21	-1.21	-1.21	-1.20	-1.20	-1.22	-1.21	-1.23	-1.21	-1.21	-1.21	-1.20
4.1.1.3 4.1.2.3 ²	IFT Facility AP	-1.14	-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	-1.10	-1.09	-1.10	-1.10	-1.05	-1.09	-1.08	-1.11	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10
4.1.1.3 4.1.2.3 ²	South basement AP	-1.12	-1.11	-1.11	-1.11	-1.10	-1.11	-1.11	-1.11	-1.10	-1.10	-1.11	-1.10	-1.10	-1.11
	IRT Tunnel AP	-1.20	-1.10	-1.17	-1.16	-1.01	-1.11	-1.26	-1.03	-1.03	-1.03	-1.03	-1.04	-1.10	-1.06

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

SRs	Description	Readings	Acceptance Criteria	SURVEILLANCE RESULTS						
				Sat. / Unsat. (circle one)						
<p>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.</p>	<p>200 area re-circulation fan/plenum</p>	<p>FR-801 Icon red and PDT-831 AP > .050 or FR-802 Icon red and PDT-832 AP > .050</p>	<p>At least one fan/plenum is in service</p>	11/10/14	11/11/14	11/12/14	11/13/14	11/14/14	11/15/14	11/16/14
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
<p>4.1.1.6</p>	<p>100 area re-circulation fan/plenum</p>	<p>FR-803 Icon red and PDT-833 AP > .050 or FR-804 Icon red and PDT-835 AP > .050</p>	<p>At least one fan/plenum is in service</p>	U	U	U	U	U	U	U
				AM	PM	AM	PM	AM	PM	AM
<p>4.1.1.6</p>	<p>300 area re-circulation fan/plenum</p>	<p>FR-805 Icon red and PDT-836 AP > .050 or FR-806 Icon red and PDT-837 AP > .050</p>	<p>At least one fan/plenum is in service</p>	U	U	U	U	U	U	U
				AM	PM	AM	PM	AM	PM	AM
<p>4.1.1.6</p>	<p>400 area re-circulation fan/plenum</p>	<p>FR-807 Icon red and PDT-838 AP > .050 or FR-808 Icon red and PDT-839 AP > .050</p>	<p>At least one fan/plenum is in service</p>	U	U	U	U	U	U	U
				AM	PM	AM	PM	AM	PM	AM
<p>4.1.1.6</p>	<p>Vault re-circulation fan/plenum</p>	<p>FR-811 Icon red and PDT-840 AP > .050 or FR-812 Icon red and PDT-841 AP > .050</p>	<p>At least one fan/plenum is in service</p>	U	U	U	U	U	U	U
				AM	PM	AM	PM	AM	PM	AM

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	Date: 11/10/14													
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 > PDI-804-2	U	P	U	P	U	P	U	P	U	P	U	P		
			PDI-803-2	PDI-803-2 < PDI-804-2	U	P	U	P	U	P	U	P	U	P	U	P		
			PDI-820-2	PDI-820-2 < PDI-802-2 > PDI-804-2	U	P	U	P	U	P	U	P	U	P	U	P		
			PDI-802-2	PDI-802-2 < PDI-804-2	U	P	U	P	U	P	U	P	U	P	U	P		
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 > PDI-854-2	U	P	U	P	U	P	U	P	U	P	U	P		
			PDI-853-2	PDI-853-2 < PDI-854-2	U	P	U	P	U	P	U	P	U	P	U	P		
			PDI-864-2	PDI-864-2 < PDI-852-2 > PDI-854-2	U	P	U	P	U	P	U	P	U	P	U	P		
			PDI-852-2	PDI-852-2 < PDI-854-2	U	P	U	P	U	P	U	P	U	P	U	P		
Completion Time					0736	1930	0721	1930	0730	1929	0746	1920	0739	1930	0730	1930		

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

Completed by: at Date 11-16-14 Time 1930 Reviewed by: RSB Date: 0635 Time: 11/18/14
On-duty Supervisor

Comments:

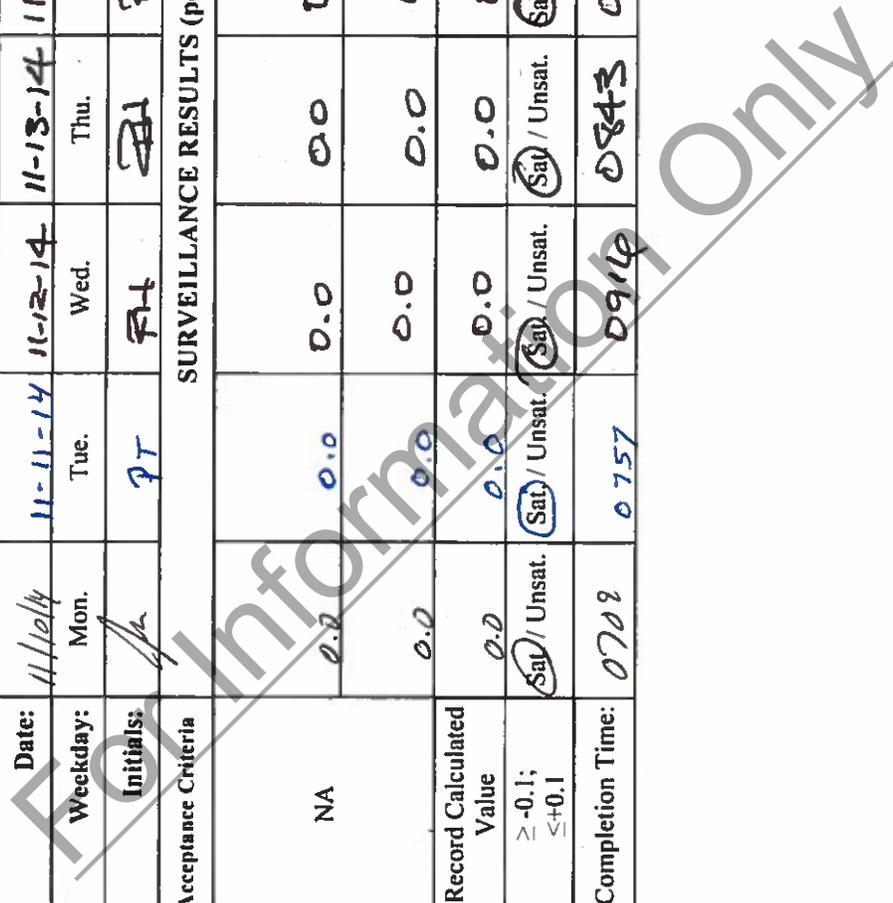
ATTACHMENT B-1: Daily Surveillance Rounds (PF-4 South Side) [UET]

(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 (≥ -0.1 ; ≤ 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:		PT	FH	AI	RH	PT	PT
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)							
SR 4.4.1.1	Description / Gauge	NA							
	Flammable Gas Channel Check								
	DET-305-3 (LCD Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Record Calculated Value	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.	Sat / Unsat.
	≥ -0.1 ; $\leq +0.1$	0702	0757	0914	0843	0758	0730	0802	
	Completion Time:								



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.
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1 PDI-894-2	≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc	11/10/14 Mon.	11-11-14 Tue.	11-12-14 Wed.	11-13-14 Thu.	11-14-14 Fri.	11-15-14 Sat.	11-16-14 Sun.
				pm	PT	PH	PH	PH	PT	PT
4.1.3.4	South Corridor supply (HVP-810) AP	'PDI-895-1 PDI-895-2	≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc							
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1 PDI-817-2 PDI-817-4 PDI-817-5	≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	'PDI-819-1 PDI-819-3 PDI-819-4	≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	'PDI-818-1 PDI-818-2 PDI-818-4 PDI-818-5	≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc							
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1 PDI-821-3 PDI-821-4	≤2.0 & > 0 ¹ in. wc ≤2.0 & > 0 ¹ in. wc ≤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: Weekday: Initials:	11-11-14 Tue.	11-12-14 Wed.	11-13-14 Thu.	11-14-14 Fri.	11-15-14 Sat.	11-16-14 Sun.
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0 ¹ in. wc		.77	.77	.78	.79	.79	.79
		PDI-822-2	≤2.0 & > 0 ¹ in. wc	.51	.51	.51	.51	.51	.51	.51
		PDI-822-4	≤2.0 & > 0 ¹ in. wc	.42	.42	.44	.43	.43	.42	.42
		PDI-822-5	≤2.0 & > 0 ¹ in. wc	.48	.48	.48	.48	.48	.49	.49
		'PDI-823-1	≤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	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-4	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-823-5	≤2.0 & > 0 ¹ in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	'PDI-830-1	≤2.0 & > 0 ¹ in. wc	.65	.66	.65	.65	.64	.66	.66
		PDI-830-2	≤2.0 & > 0 ¹ in. wc	.31	.30	.30	.30	.30	.31	.31
		PDI-830-3	≤2.0 & > 0 ¹ in. wc	.29	.28	.28	.29	.29	.29	.29
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	'PDI-836-1	≤2.0 & > 0 ¹ in. wc	.97	.97	.97	.97	.97	.97	.97
		PDI-836-2	≤2.0 & > 0 ¹ in. wc	.52	.58	.58	.58	.58	.58	.58
		PDI-836-3	≤2.0 & > 0 ¹ in. wc	.56	.57	.57	.57	.57	.57	.57
		'PDI-837-1	≤2.0 & > 0 ¹ in. wc	.50	.50	.50	.50	.50	.50	.50
		PDI-837-2	≤2.0 & > 0 ¹ in. wc	.41	.41	.40	.40	.40	.41	.41
		PDI-837-3	≤2.0 & > 0 ¹ in. wc	.39	.39	.38	.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:	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 ¹ in. wc	11/10/14	ju	PT	RD	SH	RD	PT	PT	PT	
		PDI-838-2	≤2.0 & > 0 ¹ in. wc		.31	.41	.41	.39	.31	.41	.39	.31	.41
		PDI-838-3	≤2.0 & > 0 ¹ in. wc		.39	.39	.39	.39	.39	.39	.39	.39	.39
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0 ¹ in. wc		.31	.47	.44	.44	.30	.46	.48	.31	
		PDI-839-2	≤2.0 & > 0 ¹ in. wc		.47	.47	.42	.42	.42	.42	.42	.42	
		PDI-839-3	≤2.0 & > 0 ¹ 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 ¹ in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-2	≤2.0 & > 0 ¹ in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-810-3	≤2.0 & > 0 ¹ in. wc		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0 ¹ in. wc		.11	.11	.12	.12	.12	.12	.12	.12	
		PDI-811-2	≤2.0 & > 0 ¹ in. wc		.48	.48	.49	.49	.49	.49	.49	.49	
		PDI-811-3	≤2.0 & > 0 ¹ in. wc		.49	.49	.49	.49	.49	.48	.50	.49	
OC Operator Review and Page Count Complete (initials)				0735	KE	0751	0917	0905	0814	0809	0748		

'Non TSR requirement:

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

Completed by: Paul Triggillo Date 11-16-14 Time 0148 Reviewed by: RB39 Date: 11/15/14 Time: 0637
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:							
				Weekday:							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	11-10-14	11-11-14	11-12-14	11-13-14	11-14-14	11-15-14	11-16-14	
				PT	PT	RH	PT	RH	PT	PT	
				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	.56	.57	.57	.57	.57	.57	.58	
		PDI-840-3	≤2.0 & > 0' in. wc	.50	.50	.50	.50	.50	.50	.50	
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-2	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-841-3	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	.33	.33	.33	.33	.33	.33	.33	.33
		PDI-831-2	≤2.0 & > 0' in. wc	.40	.40	.40	.40	.40	.40	.40	.40
		PDI-831-3	≤2.0 & > 0' in. wc	.35	.33	.33	.33	.35	.34	.34	.34
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31	
	PDI-832-2	≤2.0 & > 0' in. wc	.60	.60	.60	.60	.60	.60	.60	.60	
	PDI-832-3	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.54	.54	.54	.54	
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-807-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-807-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	.07	.07	.07	.07	.07	.07	.07	
		PDI-809-2	≤2.0 & > 0' in. wc	.50	.50	.51	.51	.50	.51	.51	
		PDI-809-3	≤2.0 & > 0' in. wc	.43	.43	.47	.48	.47	.48	.45	

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)							
					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	JK	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			.16	.38	.16	.39	.16	.39	.16
		PDI-812-3	≤2.0 & > 0' in. wc			.39	.39	.39	.39	.39	.39	.39
		PDI-812-4	≤2.0 & > 0' in. wc			.39	.39	.39	.39	.39	.39	.39
		PDI-812-5	≤2.0 & > 0' in. wc			.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' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-2	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-3	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-4	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-813-5	≤2.0 & > 0' in. wc			STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & > 0' in. wc			.04	.35	.04	.03	.03	.04	
		PDI-865-2	≤2.0 & > 0' in. wc			.35	.35	.35	.32	.32	.33	
		PDI-865-3	≤2.0 & > 0' in. wc			.41	.41	.40	.40	.41	.41	
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & > 0' in. wc			.05	.05	.05	.05	.05	.05	
		PDI-863-2	≤2.0 & > 0' in. wc			.26	.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	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	.14	.14	.14	.13	.14	.15	.15
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 & > 0 ¹ in. wc	.48	.48	.45	.48	.48	.49	.48
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	'PDI-856-1	≤ 2.0 & > 0 ¹ in. wc	.08	.08	.08	.08	.08	.08	.08
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 & > 0 ¹ in. wc	.50	.52	.51	.51	.51	.51	.51
			0 lb/ft ² combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft ² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time				0724	0802	0914	0910	0924	0817	0805
OC Operator Review and Page Count Complete (initials)				ML	ML	ML	ML	ML	ML	ML

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

Completed by: Paul Fugitt 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	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:
	PF-10 Thermistor File No.:	042253	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:
	PF-11 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											
SR	Description	Acceptance Criteria	Date							SAT/UNSAT	SAT/UNSAT
			11/10/14	11/11/14	11/12/2014	11/13/2014	11/14/14	11/15/14	11/16/14		
Daily (September through April only)			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
Initials:			BF	KL	BF	BF	KL	KL	KL	KL	KL
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	51.07	51.01	49.69	47.16	45.9	46.9	46.9	46.9	46.9
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	52.82	52.81	51.38	48.46	47.2	46.8	46.8	46.3	46.3
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 50.1 F	61.99	60.77	58.88	56.90	59.6	60.4	60.4	59.3	59.3
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	67.17	65.82	64.13	59.57	62.7	65.4	65.4	65.5	65.5
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	0800	0846	0900	0345	0819	0810	0810	1030	1030
Completion Time:			KL	KL	KL	KL	KL	KL	KL	KL	KL
OC Operator Review and Page Count Complete (initials)			KL	KL	KL	KL	KL	KL	KL	KL	KL

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

Completed by: [Signature] Date: 11-16-14 Time: 1030
 Reviewed by: [Signature] Date: 11/18/14 Time: 0639
 On-duty Supervisor
 Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

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

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat. / Unsat. (circle one)													
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	11-17-14	11-18-14	11-19-14	11-20-14	11-21-14	11-22-14	11-23-14							
			PDI-803-2															
			PDI-804-2															
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2														
			PDI-802-2															
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2														
			PDI-853-2															
			PDI-854-2															
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2														
			PDI-852-2															
			PDI-854-2															
Completion Time					0725	0724	0722	0727	0724	0726	0714							

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

Completed by: [Signature] Date 11/23/14 Time 1926 Reviewed by: [Signature] Date: 11/23/14 Time: 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 (≥ -0.1 ; ≤ 0.1).

		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	RH	PT	RL	BL	SD
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge								
	Flammable Gas Channel Check								
	DET-305-3 (LCD Reading)	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		≥ -0.1 ; $\leq +0.1$	(Sat./ Unsat.)	(Sat./ Unsat.)	(Sat./ Unsat.)	(Sat./ Unsat.)	(Sat./ Unsat.)	(Sat./ Unsat.)	(Sat./ Unsat.)
	Completion Time:		0726	0835	0815	0754	0819	0842	0824

For Information Only

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Date:						
				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
				Weekday:						
				Initials:	PT	PT	RH	PT	RH	BC
4.1.3.4	South basement supply filter plenum (HVP-841) AP	PDI-894-1	≤2.0 & >0' in. wc	.07	.07	.07	.09	.07	.07	.05
		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	.11	.11	.11	.11	.11	.05	.06
		PDI-895-2	≤2.0 & >0' in. wc	.52	.52	.59	.58	.58	.60	.59
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤2.0 & >0' in. wc	.31	.31	.31	.31	STBY	STBY	STBY
		PDI-817-2	≤2.0 & >0' in. wc	.32	.32	.33	.34	STBY	STBY	STBY
		PDI-817-4	≤2.0 & >0' in. wc	.32	.32	.32	.32	STBY	STBY	STBY
		PDI-817-5	≤2.0 & >0' in. wc	.31	.31	.31	.31	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤2.0 & >0' in. wc	.41	.41	.41	.41	STBY	STBY	STBY
		PDI-819-3	≤2.0 & >0' in. wc	.41	.41	.41	.41	STBY	STBY	STBY
		PDI-819-4	≤2.0 & >0' in. wc	.33	.34	.35	.35	STBY	STBY	STBY
		PDI-818-1	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	.26	.26	.26
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	.31	.31	.31
		PDI-818-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	.31	.31	.31
		PDI-818-5	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	.29	.29	.29
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	.40	.40	.39
		PDI-821-3	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	.46	.45	.45
		PDI-821-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	.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)							
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	PDI-838-1	≤2.0 & > 0 ¹ in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	≤2.0 & > 0 ¹ in. wc	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-838-3	≤2.0 & > 0 ¹ in. wc	.39	.39	.39	.39	.39	.39	.39	.39
4.1.1.7	400 area re-circulation filter plenum (HVP-808) AP	PDI-839-1	≤2.0 & > 0 ¹ in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0 ¹ in. wc	.47	.47	.47	.47	.47	.47	.47	
		PDI-839-3	≤2.0 & > 0 ¹ in. wc	.42	.42	.42	.42	.42	.42	.42	
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	PDI-810-1	≤2.0 & > 0 ¹ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-2	≤2.0 & > 0 ¹ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-3	≤2.0 & > 0 ¹ in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	PDI-811-1	≤2.0 & > 0 ¹ in. wc	.11	.12	.12	.12	.12	.12	.12	.12
		PDI-811-2	≤2.0 & > 0 ¹ in. wc	.49	.49	.49	.49	.49	.49	.49	.49
		PDI-811-3	≤2.0 & > 0 ¹ in. wc	.49	.49	.49	.49	.49	.49	.49	.49
OC Operator Review and Page Count Complete (initials)				0744	0847	0831	0822	0751	0904	0845	

*Non TSR requirement:

Note: SR 4.1.1.7 applies during mode 1 as stated in LCO 3.1.1.1. SRs 4.1.3.X apply during mode 1 and mode 2 as stated in LCO 3.1.1.3.

Completed by: [Signature] Date 11-23-14 Time 0547 Reviewed by: BB.S.P. Date: 11/24/14 Time: 1427

Comments

On-duty Supervisor

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

(Page 1 of 4)

SRS	Description	Gauge	Acceptance Criteria	Date:							
				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	
				Weekday:							
				Initials:	HA	PH	PT	RL		mm	
				SURVEILLANCE RESULTS (in. wc)							
4.1.1.7	Vault re-circulation filter plenum (IIVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	.18	.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	.32
		PDI-831-2	≤2.0 & > 0' in. wc	.39	.40	.40	.40	.40	.40	.40	.39
		PDI-831-3	≤2.0 & > 0' in. wc	.42	.43	.34	.35	.33	.35	.33	.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	.31	
	PDI-832-2	≤2.0 & > 0' in. wc	.58	.60	.60	.60	.60	.60	.60	.60	
	PDI-832-3	≤2.0 & > 0' in. wc	.55	.55	.55	.55	.53	.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]

11/17/14 (Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)							
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	200 area glovebox exhaust filter plenum (FF-850) ΔP	PDI-812-1	≤2.0 & >0' in. wc	6A	11/17/14	.31	.16	.16	.14	.14	11/22/14	11/23/14
		PDI-812-2	≤2.0 & >0' in. wc	6A	11/18/14	.37	.37	.38	.37	.37	11/21/14	11/22/14
		PDI-812-3	≤2.0 & >0' in. wc	6A	11/18/14	.38	.35	.39	.37	.37	11/21/14	11/22/14
		PDI-812-4	≤2.0 & >0' in. wc	6A	11/18/14	.39	.39	.39	.39	.39	11/21/14	11/22/14
		PDI-812-5	≤2.0 & >0' in. wc	6A	11/18/14	.31	.31	.31	.31	.31	11/21/14	11/22/14
4.1.3.4	200 area glovebox exhaust filter plenum (FF-851) ΔP	PDI-813-1	≤2.0 & >0' in. wc	6A	11/17/14	STBY	STBY	STBY	STBY	STBY	11/22/14	11/23/14
		PDI-813-2	≤2.0 & >0' in. wc	6A	11/18/14	STBY	STBY	STBY	STBY	STBY	11/21/14	11/22/14
		PDI-813-3	≤2.0 & >0' in. wc	6A	11/18/14	STBY	STBY	STBY	STBY	STBY	11/21/14	11/22/14
		PDI-813-4	≤2.0 & >0' in. wc	6A	11/18/14	STBY	STBY	STBY	STBY	STBY	11/21/14	11/22/14
		PDI-813-5	≤2.0 & >0' in. wc	6A	11/18/14	STBY	STBY	STBY	STBY	STBY	11/21/14	11/22/14
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & >0' in. wc	6A	11/17/14	.04	.03	.03	.03	.03	11/22/14	11/23/14
		PDI-865-2	≤2.0 & >0' in. wc	6A	11/18/14	.34	.31	.35	.32	.32	11/21/14	11/22/14
		PDI-865-3	≤2.0 & >0' in. wc	6A	11/18/14	.40	.40	.41	.40	.40	11/21/14	11/22/14
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & >0' in. wc	6A	11/17/14	.05	.05	.05	.05	.05	11/22/14	11/23/14
		PDI-863-2	≤2.0 & >0' in. wc	6A	11/18/14	.25	.25	.25	.24	.23	11/21/14	11/22/14

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

M&TE Calibrated Data				
Record September through April only	PF-10 Thermometer File No.:	039746	V-701 Thermistor File No.:	039744
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15
	PF-11 Thermometer File No.:	042252	V-704 Thermistor File No.:	040375
	Calibration Expiration Date:	6/17/15	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	Acceptance Criteria	Date:							Completion Time:	OC Operator Review and Page Count Complete (initials)	SAT/UNSAT
			11/17/2014	11/18/2014	11/19/2014	11/20/2014	11/21/14	11/22/14	11/23/14			
			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.	45.82	46.48	46.40	46.92	46.5	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	46.1			
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	58.72	58.24	58.85	59.58	59.9	60.3	60.2			
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	65.32	64.98	64.63	64.69	65.5	61.5	62.7			
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	0815	0855	0845	0841	0834	1021	0930			
			11/17/2014 Mon. B.F. BF BF BF BF BF BF 11/18/2014 Tue. B.F. BF BF BF BF BF BF 11/19/2014 Wed. BF BF BF BF BF BF BF 11/20/2014 Thu. BF BF BF BF BF BF BF 11/21/14 Fri. BF BF BF BF BF BF BF 11/22/14 Sat. BF BF BF BF BF BF BF 11/23/14 Sun. BF BF BF BF BF BF BF									

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: 11/23/14 Time: 0730
 Reviewed by: [Signature] Date: 11/24/14 Time: 1431
 On-duty Supervisor

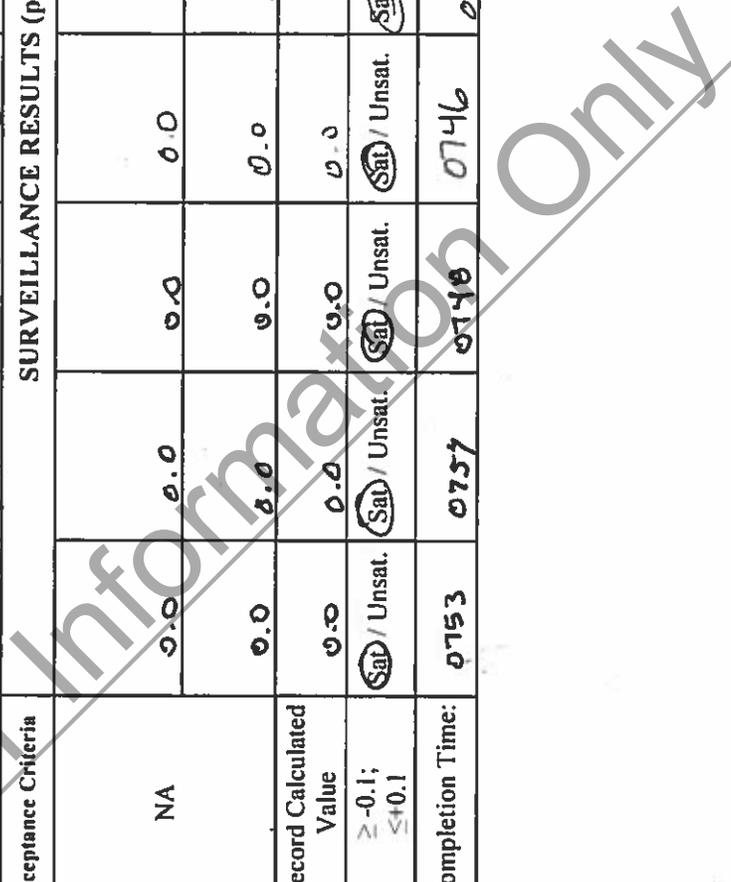
Comments:

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:	11-24-14	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	AK	nm	EC	gn	Dr	gn	
		Acceptance Criteria	SURVEILLANCE RESULTS (percentage)							
SR	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	
4.4.1.1	CP-305-H (LED Reading)	Record Calculated Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	$\geq -0.1;$ $\leq +0.1$	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:	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	RL	nm	nm	BL	DAO	P		
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	.06	.06	.05
		PDI-894-2	<2.0 > 0' in. wc	.50	.51	.50	.51	.50	.50	.50	.50	.50
4.1.3.4	South Corridor supply (HVP-810) AP	'PDI-895-1	≤ 2.0 > 0' in. wc	.05	.05	.05	.05	.05	.05	.05	.05	.05
		PDI-895-2	<2.0 > 0' in. wc	.60	.59	.59	.60	.60	.60	.60	.60	.60
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	'PDI-817-1	≤ 2.0 > 0' in. wc	STBY	.30	.30	.30	.30	.30	.30	.30	.30
		PDI-817-2	<2.0 > 0' in. wc	STBY	.32	.34	.34	.34	.34	.33	.32	.33
		PDI-817-4	<2.0 > 0' in. wc	STBY	.32	.32	.32	.33	.33	.35	.35	.33
		PDI-817-5	≤ 2.0 > 0' in. wc	STBY	.31	.31	.31	.31	.31	.31	.31	.31
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-81 9-1	≤ 2.0 > 0' in. wc	STBY	.41	.41	.41	.41	.41	.40	.40	.41
		PDI-81 9-3	<2.0 > 0' in. wc	STBY	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	<2.0 > 0' in. wc	STBY	.35	.35	.35	.35	.35	.37	.37	.36
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	'PDI-818-1	≤ 2.0 > 0' in. wc	.26	STAY	STAY						
		PDI-818-2	<2.0 > 0' in. wc	.31	STAY	STAY						
		PDI-818-4	<2.0 > 0' in. wc	.31	STAY	STAY						
		PDI-818-5	<2.0 > 0' in. wc	.30	STAY	STAY						
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-1	≤ 2.0 > 0' in. wc	.40	STAY	STAY						
		PDI-821-3	<2.0 > 0' in. wc	.45	STAY	STAY						
		PDI-821-4	≤ 2.0 > 0' in. wc	.39	STAY	STAY						

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date: Weekday: Initials:	11-24-14 Mon. nm	11-25-14 Tue. ph	11-26-14 Wed. nm	11-27-14 Thu. ph	11-28-14 Fri. Dwy	11-29-14 Sat. D	11/30/14 Sun. DAD
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
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0' in. wc	.41	.40	.41	.41	.41	.41	.41	.41
		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	.49	.49	.49
		PDI-810-3	≤2.0 & > 0' in. wc	.50	.50	.49	.49	.49	.49	.49	.49
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-2	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-811-3	≤2.0 & > 0' in. wc	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OC Operator Review and Page Count Complete (initials)				0820	0749	0740	0806	0819	0802	0804	
				D 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: DDJ Date: 11/30/14 Time: 0804 Reviewed by: [Signature] Date: 12/1/14 Time: 0700
Off-Duty Supervisor

Comments

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)						
				Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Sun.
				11-24-14	11-25-14	11-26-14	11-27-14	11-28-14	11-29-14	11-30-14
				Weekday:						
				Initials:	nm	dk	dk	dk	dk	dk
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
			≤2.0 & > 0' in. wc	STBY	.37	.38	.38	.38	.37	.37
			≤2.0 & > 0' in. wc	STBY	.37	.37	.38	.38	.38	.38
			≤2.0 & > 0' in. wc	STBY	.38	.39	.38	.39	.38	.38
			≤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
			≤2.0 & > 0' in. wc	.32	STBY	STBY	STBY	STBY	STBY	STBY
			≤2.0 & > 0' in. wc	.30	STBY	STBY	STBY	STBY	STBY	STBY
			≤2.0 & > 0' in. wc	.32	STBY	STBY	STBY	STBY	STBY	STBY
			≤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	.05	.02	.03	.03	.03	.03
			≤2.0 & > 0' in. wc	.32	.34	.31	.31	.31	.31	.31
			≤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
			≤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													
					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	jk	11-24-14	Mon.	11-25-14	Tue.	11-26-14	Wed.	11/27/14	Thu.	11/28/14	Fri.	11/29/14	Sat.	11/30/14	Sun.
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤ 2.0 > 0' in. wc	jk														
'NA	Combustible exclusion area around basement exhaust fans FEB28, FEB29 and bleed-off fans FEB20A, FEB20B, FEB20C, FEB22A, FEB22B, FEB22C	PDI-856-1	≤ 2.0 > 0' in. wc	jk														
4.3.2.2	Rooms 201, 204, 206, & 207	PDI-856-2	≤ 2.0 > 0' in. wc	jk														
			0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)															
			0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less															
			Completion time															
			OC Operator Review and Page Count Complete (initials)															

Non TSR requirement

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

Completed by: Scramble, Date 11/24/14 Time 0801 Reviewed by: ASB

Date: 12/1/14 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
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15
	PF-11 Thermometer File No.:	042252	V-701 Thermistor File No.:	040375
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:	6/26/15

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature													
SIR	Description	Acceptance Criteria	Date:	Weekday:	Initials:	Temperature							
						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.	11/24/14	Mon.	AS								
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	11/25/2014	Tue.	BF	46.36							
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	11/26/2014	Wed.	BF	46.22							
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	11/27/14	Thu.	JLS	57.8							
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	11-28-14	Fri.	Ø	58.5							
	OC Operator Review and Page Count Complete (initials)	Completion Time:	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 ≤ 30 seconds. 4.06	Sat. / Unsat.	17:35	11/19/14	RLH
4.1.3.2	Confinement Door DR-102	Northwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds. 4.06	Sat. / Unsat.	17:37	11/19/14	RLH

*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 LANI, Building TA55-4 (PE-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 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="checkbox"/> Sat / Unsat.	14:30	11-19-14	RA
4.1.3.2	Confinement Door DR-344	Southeast	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door).	<input checked="" type="checkbox"/> Sat / 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="checkbox"/> Sat / 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="checkbox"/> Sat / 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. 4.15 Seconds	14:19:14 <input checked="" type="checkbox"/> Sat / Unsat.	1411	11-19-14	mm
				<input checked="" type="checkbox"/> Sat / 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 OI Order 420.1B Chapter II, NFP-A 80, NFP-A 101 and IBC Requirements for LANI, Building TASS-1 (PF-4). Installation of New Confinement Doors DR-102, DR-302, and DR-344 LANI-DOE-ORDER-201B-EO-2013-001

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

SRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds. 7:35 Seconds	Sat/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.	Sat/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).	Sat/Unsat.	1519	11-19-14	mm
OC Operator Review and Page Count Complete <i>JOS</i>							

Note: SR 4.1.3.7 applies during mode 1 and 2.

Completed by: *[Signature]*

Date: 11/19/14 Time: 1500

Reviewed by: *[Signature]*

Date: 11/19/14 Time: 1504

On-duty Supervisor Comments: NORTHWEST CONFINEMENT DOOR DR-102 DID NOT LOCK VIA THE AUTOMATIC DOOR CLOSURE. NOTIFIED OPS

THE DOOR WAS MANUALLY LOCKED BY P. TRAVILLA.



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 BELSCOE	u	12/1/14	
B CHANCE	u	↓	
D DUNLAVY	u		
A DUNSMITH	u		
J LOVATO	u		
R LVM	u		
A ORTIZ	u		
F SEYBERT	u		
J SMELTZ	u		
R PRICE	u		12/1/14

Comments:

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.	
SRS		Area	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
			Sat. / Unsat. (circle one)													
4.1.1.4 Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	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
	PDI-804-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
	PDI-802-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
PDI-804-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
PDI-853-2			Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
PDI-854-2			Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
PDI-852-2			Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
PDI-854-2			Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
Completion Time			0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729

Note: ¹ Mode 2 acceptance criteria is < 0.00 in. yo
 Note: ² 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 (≥ -0.1 ; ≤ 0.1).

		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	RA	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	
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value ≥ -0.1 ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Completion Time:	0743	0753	0748	0752	0825	0800	0800	

For Information Only

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

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	12-01-14	12-02-14	12-03-14	12-4-14	12-5-14	12-6-14	12-7-14	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Initials:	nm	nm	nm	RM	PT	PT	PT	PT
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	≤ 2.0 & > 0' in. wc	.05	.06	.05	.05	.05	.05	.05	.06	.06
		PDI-894-2	≤ 2.0 & > 0' in. wc	.51	.51	.50	.50	.50	.51	.51	.51	.51
4.1.3.4	South Corridor supply (HVP-810) AP	'PDI-895-1	≤ 2.0 & > 0' in. wc	.06	.06	.05	.05	.05	.06	.06	.06	.05
		PDI-895-2	≤ 2.0 & > 0' in. wc	.60	.59	.59	.59	.60	.58	.58	.58	.58
		'PDI-817-1	≤ 2.0 & > 0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30	.30
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-2	≤ 2.0 & > 0' in. wc	.33	.35	.33	.33	.32	.32	.32	.32	.32
		PDI-817-4	≤ 2.0 & > 0' in. wc	.33	.33	.32	.32	.32	.32	.32	.32	.32
		PDI-817-5	≤ 2.0 & > 0' 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-819-1	≤ 2.0 & > 0' in. wc	.42	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-819-3	≤ 2.0 & > 0' in. wc	.41	.41	.41	.41	.41	.41	.41	.41	.41
		PDI-819-4	≤ 2.0 & > 0' in. wc	.36	.35	.35	.35	.35	.35	.35	.35	.35
		'PDI-818-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) AP	PDI-818-2	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-818-5	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-1	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) AP	PDI-821-3	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-821-4	≤ 2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY

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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date: Weekday:	12-01-14 Mon.	12-02-14 Tue.	12-03-14 Wed.	12-04-14 Thu.	12-05-14 Fri.	12-06-14 Sat.	12-07-14 Sun.	
				Initials:								
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	
		PDI-838-2	≤2.0 & > 0' in. wc		.40	.40	.40	.40	.40	.40	.40	
		PDI-838-3	≤2.0 & > 0' in. wc		.39	.38	.38	.39	.39	.39	.39	
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc		.31	.31	.31	.31	.31	.31	.31	
		PDI-839-2	≤2.0 & > 0' in. wc		.40	.47	.47	.47	.47	.47	.48	
		PDI-839-3	≤2.0 & > 0' 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' in. wc		.17	.16	.15	.16	.16	.14	.14	
		PDI-810-2	≤2.0 & > 0' in. wc		.50	.50	.48	.49	.49	.46	.46	
		PDI-810-3	≤2.0 & > 0' in. wc		.49	.49	.48	.49	.49	.42	.42	
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc		OFF							
		PDI-811-2	≤2.0 & > 0' in. wc		OFF							
		PDI-811-3	≤2.0 & > 0' in. wc		OFF							
OC Operator Review and Page Count Complete (initials)				Completion Time	0820	0810	0820	0845	0911	0744	0748	

'Non TSR requirement:

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

Completed by: Paul Fitzgerald 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 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	Date:						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					12-1-14	12-2-14	12-3-14	12-4-14	12-5-14	12-6-14	12-7-14
					Weekday:						
					164	nm	6A	2H	BT	PT	PT
					SURVEILLANCE RESULTS (in. wc)						
4.1.3.4	200 area glovebox exhaust filter plenum (PF850) AP	'PDI-812-1	≤2.0 & > 0' in. wc		.16	.17	.16	.14	.16	.16	.16
			≤2.0 & > 0' in. wc	.39	.38	.38	.38	.39	.39	.39	
			≤2.0 & > 0' in. wc	.40	.38	.38	.36	.39	.39	.39	
			≤2.0 & > 0' in. wc	.37	.39	.39	.39	.39	.39	.39	
			≤2.0 & > 0' in. wc	.31	.31	.31	.31	.31	.31	.31	
4.1.3.4	200 area glovebox exhaust filter plenum (PF851) AP	'PDI-813-1	≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
			≤2.0 & > 0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	IFTT exhaust filter plenum (FI-865) AP	'PDI-865-1	≤2.0 & > 0' in. wc	.03	.03	.03	.03	.03	.03	.03	.03
			≤2.0 & > 0' in. wc	.32	.32	.32	.32	.32	.32	.32	
			≤2.0 & > 0' in. wc	.37	.37	.37	.37	.37	.37	.37	
4.1.3.4	IFTT supply filter plenum (IIVP-863) AP	'PDI-863-1	≤2.0 & > 0' in. wc	.10	.05	.05	.05	.05	.05	.05	
			≤2.0 & > 0' in. wc	.25	.25	.25	.24	.25	.24	.25	

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

M&TE Calibrated Data			
Record September through April only	PF-10 Thermometer File No.:	039746	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:
	PF-11 Thermometer File No.:	042252	V-704 Thermistor File No.:
	Calibration Expiration Date:	6/17/15	Calibration Expiration Date:
	PF-10 Thermistor File No.:	042253	V-701 Thermistor File No.:
	Calibration Expiration Date:	6/26/15	Calibration Expiration Date:
	PF-11 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											
SR	Description	Acceptance Criteria	Date							SAT/UNSAT	SAT/UNSAT
			12/1/2014	12/2/2014	12/3/2014	12/4/2014	12/5/14	12/6/14	12/7/14		
Daily (September through April only)			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
Initials:			BF	BF	BF	BF	BF	BF	BF		
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	46.70	46.37	46.24	46.27	45.6	47.0	SAT/UNSAT	SAT/UNSAT	
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	SAT/UNSAT	SAT/UNSAT	
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	60.66	60.47	61.13	61.72	60.2	60.7	SAT/UNSAT	SAT/UNSAT	
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	67.70	66.32	53.51	67.33	66.1	66.5	SAT/UNSAT	SAT/UNSAT	
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	0857	0845	0815	0805	0855	0834	SAT/UNSAT	SAT/UNSAT	
OC Operator Review and Page Count Complete (initials)			BF	BF	BF	BF	BF	BF	BF	BF	BF

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

Completed by: [Signature] Date: 12/7/14 Time: 0842
 Reviewed by: [Signature] Date: 12-8-14 Time: 0725
 On-duty Supervisor
 Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat. / Unsat. (circle one)													
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-803-2	PDI-803-2 < PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-804-2	PDI-804-2 < PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-820-2	PDI-820-2 < PDI-807-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
			PDI-802-2	PDI-802-2 < PDI-804-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		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-853-2 < PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
			PDI-854-2	PDI-854-2 < PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
			PDI-852-2	PDI-852-2 < PDI-854-2	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat		
			Completion Time		0731	1927	0727	1937	0706	1924	0704	1924	0730	1925	0730	1925	0730	1925

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

Completed by: [Signature] Date 12/14/14 Time 1924 Reviewed by: [Signature] Date: 12/15/14 Time: 0700
 On-duty Supervisor

Comments: 100, 200, VAULT RECIRC PLENUM UNSAT DUE TO ASGFTK HARDWARE 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.	Description	Gauge Acceptance Criteria	Date:							SURVEILLANCE RESULTS (in. wc)								
				Weekday:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Shift:	Initials:	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header ΔP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc ¹																
		PDI-820-1 or PDI-820-2	≤ -1.0 in. wc ¹																
		PDI-870-1 or PDI-870-2	≤ -1.0 in. wc ¹																
		PDI-864-1 or PDI-864-2	≤ -1.0 in. wc ¹																
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header ΔP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc ¹																
		PDI-802-1 or PDI-802-2	≤ -0.05 in. wc ¹																
		PDI-853-1 or PDI-853-2	≤ -0.05 in. wc ¹																
		PDI-852-1 or PDI-852-2	≤ -0.05 in. wc ¹																
4.1.1.3 4.1.2.3 ²	IFT Facility ΔP	PDI-865-4 or PDI-865-5	≤ -0.05 in. wc																
		PDI-804-1 or PDI-804-2	< 0.00 in. wc																
		PDI-854-1 or PDI-854-2	< 0.00 in. wc																
		PDT-901 or PDI-901	< 0.00 in. wc																

For Information Only

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	Date: <u>12/9/14</u>													
					Weekday:		Tue:		Wed:		Thu:		Fri:		Sat:		Sun:	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
			PDI-803-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
			PDI-804-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	
		100 Area	PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	
PDI-802-2	Unsat		Unsat		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
300 Area	PDI-804-2	PDI-804-2	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
	PDI-870-2		Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat			
400 Area	PDI-853-2	PDI-870-2 < PDI-853-2 < PDI-854-2	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			
Completion Time			PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	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		
					Sat. / Unsat. (circle one)													
					SURVEILLANCE RESULTS													
					201													

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

Completed by: PLC Date 12/9/14 Time 2031 Reviewed by: [Signature] Date: 12/10/14 Time: 0640
 Op duty Supervisor
 Comments: PARTIAL DUE TO N.SIDE INADEQUATE 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 (≥ -0.1 ; ≤ 0.1).

		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	RH	RH	mm	DAO
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)							
SR	Description / Gauge	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Flammable Gas Channel Check DET-305-3 (LCD Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.4.1.1	CP-305-H (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	Record Calculated Value ≥ -0.1 ; $\leq +0.1$	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Completion Time:			0741	0800	0746	0803	0758	0850	0812

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:	12-8-14	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	dk	mm	mm	mm	mm
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & >0' in. wc	.79	.79	.77	.81	.82	.80	.80		
		PDI-822-2	≤2.0 & >0' in. wc	.51	.51	.51	.51	.51	.51	.51	.51	
		PDI-822-4	≤2.0 & >0' in. wc	.42	.42	.42	.42	.45	.43	.43	.43	
		PDI-822-5	≤2.0 & >0' in. wc	.48	.48	.47	.48	.48	.48	.48	.48	
		'PDI-823-1	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	400 area glovebox exhaust filter plenum (FF857) AP	PDI-823-2	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-4	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		PDI-823-5	≤2.0 & >0' in. wc	STBY	STBY	STBY	STBY	STBY	STBY	STBY	STBY	
		'PDI-830-1	≤2.0 & >0' in. wc	.66	.66	.65	.65	.67	.67	.67	.67	
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	PDI-830-2	≤2.0 & >0' in. wc	.30	.30	.30	.30	.30	.30	.30	.30	
		PDI-830-3	≤2.0 & >0' in. wc	.28	.28	.28	.28	.28	.28	.28	.28	
		'PDI-836-1	≤2.0 & >0' in. wc	.97	.97	.97	.97	.96	.96	.96	.96	
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	PDI-836-2	≤2.0 & >0' in. wc	.58	.58	.57	.58	.57	.57	.57	.57	
		PDI-836-3	≤2.0 & >0' in. wc	.53	.53	.53	.53	.54	.54	.54	.54	
		'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-806) AP	PDI-837-2	≤2.0 & >0' in. wc	.41	.41	.40	.40	.40	.40	.40	.40	
		PDI-837-3	≤2.0 & >0' in. wc	.38	.39	.38	.38	.38	.38	.38	.37	

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

(Page 4 of 4)

SRS	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)							
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thru.	Fri.
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	12-8-14	12-9-14	12-10-14	12-11-14	12-12-14	12-13-14	12-14-14	
		PDI-838-2	≤2.0 & > 0' in. wc								
		PDI-838-3	≤2.0 & > 0' in. wc								
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc								
		PDI-839-2	≤2.0 & > 0' in. wc								
		PDI-839-3	≤2.0 & > 0' in. wc								
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	≤2.0 & > 0' in. wc								
		PDI-810-2	≤2.0 & > 0' in. wc								
		PDI-810-3	≤2.0 & > 0' in. wc								
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc								
		PDI-811-2	≤2.0 & > 0' in. wc								
		PDI-811-3	≤2.0 & > 0' in. wc								
OC Operator Review and Page Count Complete (initials)											

'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

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

(Page 3 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
					12-08-14	12-09-14	12-10-14	12-11-14	12-12-14	12-13-14	12-14-14
					Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
					Initials:	mm	BL	PT	BL	24	0
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	.37
		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:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	'PDI-857-1	≤2.0 & >0' in. wc	.11	.11	.11	.11	.11	.11	.11
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	'PDI-857-2	≤2.0 & >0' in. wc	.49	.49	.49	.49	.49	.49	.49
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	'PDI-856-1	≤2.0 & >0' in. wc	.05	.05	.04	.05	.05	.05	.05
4.3.2.2	Rooms 201, 204, 206, & 207	'PDI-856-2	≤2.0 & >0' in. wc	.50	.50	.50	.50	.50	.50	.50
			0 lb/r ² combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/r ² combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time				0805	0930	0809	0901	0830	0930	0835
OC Operator Review and Page Count Complete (initials)				MM	MM	MM	MM	MM	MM	MM

Non TSR requirement

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

Completed by: [Signature] Date: 12/14/14 Time: 0835

Reviewed 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.: 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	Acceptance Criteria	Date							Completion Time	OC Operator Review and Page Count Complete (initials)	SAT/UNSAT	
			12/8/2014	12/9/2014	12/10/2014	12/11/2014	12/12/2014	12/13/2014	12/14/2014				
Daily (September through April only)			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.			
Initials:			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	SAT/UNSAT	SAT/UNSAT	SAT/UNSAT	
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	47.1	46.7	46.13	46.09	46.0	46.0	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	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	60.7	61.1	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	65.8	64.2	64.2	59.5		
Completion Time:			0754	0843	0815	0801	0812	0812	1005	1005	1045		
OC Operator Review and Page Count Complete (initials)			DAD	BF	BF	BF	BF	BF	BF	BF	BF	BF	

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: gl d Date: 12-14-14 Time: 1045
 Reviewed by: [Signature] Date: 12/15/14 Time: 0700
 On-duty Supervisor
 Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 1 of 3)

SRs	Note Gauge readings should be taken on rack #4 in the OC, whenever possible. Document if alternate PDI's are used.	Description	Gauge Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)															
				Date:		Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
				Weekday:	AM	PM													
4.1.1.1 4.1.2.1 ²	200 area glovebox exhaust header AP	PDI-814-1 or PDI-814-2	≤ -1.0 in. wc	12/15/14	1.97	1.95	1.94	1.93	1.97	1.94	1.96	1.93	1.98	1.95	1.96	1.95	1.94		
		PDI-820-1 or PDI-820-2	≤ -1.0 in. wc	12/16/14	1.92	1.92	1.92	1.92	1.94	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.94	1.95	
		PDI-870-1 or PDI-870-2	≤ -1.0 in. wc	12/17/14	1.99	1.98	1.97	1.97	1.97	1.97	1.99	1.99	1.98	1.99	1.99	1.99	1.99	2.00	
		PDI-864-1 or PDI-864-2	≤ -1.0 in. wc	12/18/14	1.97	1.97	1.97	1.97	1.97	1.95	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97	
4.1.1.2 4.1.1.5 4.1.2.2 ²	200 area laboratory header AP	PDI-803-1 or PDI-803-2	≤ -0.05 in. wc	12/15/14	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21		
		PDI-802-1 or PDI-802-2	≤ -0.05 in. wc	12/16/14	0.22	0.22	0.23	0.23	0.24	0.23	0.24	0.23	0.23	0.23	0.24	0.24	0.24		
		PDI-853-1 or PDI-853-2	≤ -0.05 in. wc	12/17/14	0.18	0.18	0.20	0.20	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.18	0.20	0.21	
		PDI-852-1 or PDI-852-2	≤ -0.05 in. wc	12/18/14	0.18	0.20	0.21	0.21	0.21	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.21	0.21	
4.1.1.3 4.1.2.3 ²	400 area laboratory header AP	PDI-804-1 or PDI-804-2	< 0.00 in. wc	12/15/14	0.19	0.19	0.18	0.19	0.19	0.17	0.19	0.19	0.19	0.19	0.19	0.19	0.19		
		PDI-854-1 or PDI-854-2	< 0.00 in. wc	12/16/14	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.08	0.08	0.08	0.10	0.10		
		PDI-901 or PDI-901	< 0.00 in. wc	12/17/14	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.10	0.10		
			< 0.00 in. wc	12/18/14	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.08	0.08	0.08	0.10	0.10		

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 2 of 3)

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

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRS	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat. / Unsat. (circle one)													
					Mon.		Tue.		Wed.		Thu.		Fri.		Sat.		Sun.	
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	12-15-14	12-16-14	12-17-14	12-18-14	12-19-14	12-20-14	12-21-14	12-22-14	12-23-14	12-24-14	12-25-14			
			PDI-803-2															
			PDI-804-2															
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2														
			PDI-804-2															
		300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2														
			PDI-853-2															
			PDI-854-2															
		400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2														
			PDI-852-2															
			PDI-854-2															
			Completion Time		0729	1938	0730	1922	0730	1926	0730	1923	0734	1924	0717	1934	0716	1921

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

Completed by: [Signature] Date 12-24-14 Time 1921 Reviewed by: [Signature] Date: 12/24/14 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 (≥ -0.1 ; ≤ 0.1).

		Date: 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.
		Initials: RH	EA	PT	RT	RL	RT	RT
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)						
SR 4.4.1.1	Description / Gauge							
	Flammable Gas Channel Check							
	DET-305-3 (LCD Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Record Calculated Value								
≥ -0.1 ; $\leq +0.1$		Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.	Sat. / Unsat.
Completion Time:		0821	0815	0844	0810	0752	0845	0752

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

(Page 4 of 4)

		Date:							
		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.	
		Initials:							
		SURVEILLANCE RESULTS (in. wc)							
SRs	Description	Gauge	Acceptance Criteria						
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	.31	.31	.31	.31	.31	.31	.31
		PDI-838-2	.40	.40	.41	.40	.40	.40	.40
		PDI-838-3	.39	.39	.39	.39	.39	.39	.38
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	.31	.31	.31	.31	.31	.31	.31
		PDI-839-2	.46	.47	.48	.47	.48	.48	.47
		PDI-839-3	.41	.42	.42	.42	.42	.42	.42
4.1.3.4	South Bleed off filter plenum (FF-822A) AP	'PDI-810-1	.14	.14	.15	.15	.15	.16	.16
		PDI-810-2	.49	.50	.49	.49	.49	.49	.48
		PDI-810-3	.49	.49	.48	.48	.48	.48	.47
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'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
OC Operator Review and Page Count Complete (initials)			0846	0834	0836	0859	0909	0808	

'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: 0808 Reviewed by: [Signature] Date: 12/21/14 Time: 0700

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)						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
					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.
						PT	PT	PT	AK		
						EA					
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	.15	.16
		PDI-840-2	≤2.0 & > 0 in. wc		.54	.58	.57	.56	.55	.55	.56
		PDI-840-3	≤2.0 & > 0' in. wc		.50	.50	.50	.50	.50	.50	.50
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		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	.33	.33	.32	.33	.32	.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	.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		.53	.53	.54	.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	.49	
		PDI-807-3	≤2.0 & > 0' in. wc		.48	.49	.48	.48	.49	.49	
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-2	≤2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	
		PDI-809-3	≤2.0 & > 0' in. wc		OFF	OFF	OFF	OFF	OFF	OFF	

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

(Page 3 of 4)

SIRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)						
					Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
					12/15/14	12/16/14	12/17/14	12/18/14	12/19/14	12/20/14	12/21/14
					Weekday:						
						PT	PT	PT	PT	PT	PT
						PH	PT	PT	PT	PT	PT
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤2.0 & >0 ¹ in. wc		.16	.16	.16	.16	.16	.17	.16
		PDI-812-2	≤2.0 & >0 ¹ in. wc		.35	.39	.39	.36	.36	.35	.36
		PDI-812-3	≤2.0 & >0 ¹ in. wc		.35	.39	.39	.35	.36	.38	.38
		PDI-812-4	≤2.0 & >0 ¹ in. wc		.39	.39	.39	.39	.39	.39	.39
		PDI-812-5	≤2.0 & >0 ¹ in. wc		.31	.31	.31	.31	.31	.32	.32
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤2.0 & >0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-2	≤2.0 & >0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-3	≤2.0 & >0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-4	≤2.0 & >0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
		PDI-813-5	≤2.0 & >0 ¹ in. wc		STBY	STBY	STBY	STBY	STBY	STBY	STBY
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤2.0 & >0 ¹ in. wc		.03	.03	.03	.03	.04	.04	.03
		PDI-865-2	≤2.0 & >0 ¹ in. wc		.31	.31	.31	.31	.31	.31	.31
		PDI-865-3	≤2.0 & >0 ¹ in. wc		.39	.39	.39	.39	.38	.38	.38
4.1.3.4	IFIT supply filter plenum (HVP-863) ΔP	PDI-863-1	≤2.0 & >0 ¹ in. wc		.05	.05	.05	.05	.05	.05	.05
		PDI-863-2	≤2.0 & >0 ¹ in. wc		.23	.23	.23	.25	.23	.25	.25

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

(Page 4 of 4)

SIRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS						
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filler plenum (HVP-840) ΔP	'PDI-857-1	≤ 2.0 & > 0 ¹ in. wc	RA	PT	PT	RH	Wh			
4.1.3.4	North corridor supply filler plenum (HVP-809) ΔP	'PDI-857-2	≤ 2.0 & > 0 ¹ in. wc	.11	.49	.11	.49	.11	.48	.11	.48
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	'PDI-856-1	≤ 2.0 & > 0 ¹ in. wc	.04	.04	.04	.04	.04	.04	.04	.04
		'PDI-856-2	≤ 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 ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT	SAT
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: *[Signature]* Date: 12/24/14 Time: 0813

Reviewed by: *[Signature]* Date: 12/24/14 Time: 0700

Comments: 4.3.2.2 Red light, RGT would not allow access into 204. No checks were made. 12.19.14

STEP LEADER AND SWABBER MUST WITHIN COMBUSTIBLE AREA. NOTIFIED OPS

Room 204 removed combustible zone 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											
SR	Description	Acceptance Criteria	Date:							Completion Time:	OC Operator Review and Page Count Complete (initials)
			12/15/2014	12/16/2014	12/17/2014	12/18/2014	12/19/14	12/20/14	12/21/14		
Daily (September through April only)			Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
Initials:			BF	BF	BF	BF	BF	BF	BF	BF	
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.	46.67	45.78	46.67	46.00	46.55	45.9	46.6	46.9	SAT/UNSAT
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	46.05	47.12	46.00	46.75	46.5	45.9	45.8	45.8	SAT/UNSAT
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F	58.09	59.25	59.74	60.43	59.6	59.2	59.2	63.5	SAT/UNSAT
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F	61.94	64.15	63.80	65.36	64.8	65.1	65.1	65.5	SAT/UNSAT
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F	0828	0745	0855	0820	0750	0750	1005	0850	SAT/UNSAT
OC Operator Review and Page Count Complete (initials)			BC	RS	RS	RS	RS	RS	RS	RS	SAT/UNSAT

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: 12/21/14 Time: 0850
 Reviewed by: [Signature] Date: 12/22/14 Time: 0700
 On-duty Supervisor
 Comments:

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRS	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS													
					Sat. / Unsat. (circle one)													
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.							
4.1.1.4	Glovebox exhaust header AP's < laboratory AP's < basement AP's for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	12/29/14	12/29/14	12/29/14	12/29/14	12/29/14	12/29/14	12/29/14	12/29/14	12/29/14	12/29/14	12/29/14	12/29/14		
			PDI-803-2	PDI-803-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
			PDI-804-2	PDI-804-2	U	U	U	U	U	U	U	U	U	U	U	U	U	
			PDI-820-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-802-2	PDI-802-2	U	U	U	U	U	U	U	U	U	U	U	U	U	U
300 Area	PDI-870-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	PDI-853-2	PDI-853-2	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
	PDI-854-2	PDI-854-2	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
400 Area	PDI-864-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	PDI-852-2	PDI-852-2	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
	PDI-854-2	PDI-854-2	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Completion Time					0731	1930	0731	1930	0710	1927	0730	1930	0733	1930	0732	1930		

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

Completed by: CP Date 12-28-14 Time 1930 Reviewed 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 (≥ -0.1 ; ≤ 0.1).

		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
Acceptance Criteria		SURVEILLANCE RESULTS (percentage)							
SR 4.4.1.1	Description / Gauge	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Flammable Gas Channel Check DET-305-3 (LCD Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CP-305-H (LED Reading) (DET-305-3) - (CP-305H) (LCD Reading) (LED Reading)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Record Calculated Value			0.0	0.0	0.0	0.0	0.0	0.0	0.0
≥ -0.1; ≤ +0.1			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	SURVEILLANCE RESULTS (in. wc)							
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
				Weekday:	Initials:						
4.1.3.4	South basement supply filter plenum (HVP-841) AP	'PDI-894-1	≤ 2.0 & $> 0^1$ in. wc	12-22-14	12-23-14	12-24-14	12-25-14	12-26-14	12-27-14	12-28-14	
		PDI-894-2	≤ 2.0 & $> 0^1$ in. wc	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				mm	mm	PT	PT	PT	PT	PT	
4.1.3.4	South Corridor supply (HVP-810) AP	PDI-895-1	≤ 2.0 & $> 0^1$ in. wc	.05	.06	.06	.06	.05	.06	.05	
		PDI-895-2	≤ 2.0 & $> 0^1$ in. wc	.51	.50	.51	.51	.51	.51	.51	
				.05	.06	.06	.06	.06	.06	.06	
				.62	.61	.58	.58	.58	.58	.58	
				.31	.31	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) AP	PDI-817-1	≤ 2.0 & $> 0^1$ in. wc	.32	.33	.35	.35	.35	.35	.35	
		PDI-817-2	≤ 2.0 & $> 0^1$ in. wc	.41	.41	.41	.41	.41	.41	.41	
		PDI-817-4	≤ 2.0 & $> 0^1$ in. wc	.34	.35	.35	.35	.35	.35	.35	
		PDI-817-5	≤ 2.0 & $> 0^1$ in. wc	.32	.31	.31	.31	.31	.31	.31	
				.41	.41	STBY	STBY	STBY	STBY	STBY	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) AP	PDI-819-1	≤ 2.0 & $> 0^1$ in. wc	.41	.41	.41	.41	.41	.41	.41	
		PDI-819-3	≤ 2.0 & $> 0^1$ in. wc	.41	.41	.41	.41	.41	.41	.41	
		PDI-819-4	≤ 2.0 & $> 0^1$ in. wc	.35	.36	.36	.36	.36	.36	.36	
		PDI-818-1	≤ 2.0 & $> 0^1$ in. wc	STBY	STBY	.27	.27	.27	.27	.27	
		PDI-818-2	≤ 2.0 & $> 0^1$ in. wc	STBY	STBY	.31	.31	.31	.31	.31	
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF855) AP	PDI-818-4	≤ 2.0 & $> 0^1$ in. wc	STBY	STBY	.31	.31	.31	.31	.31	
		PDI-818-5	≤ 2.0 & $> 0^1$ in. wc	STBY	STBY	.30	.30	.30	.30	.30	
		PDI-821-1	≤ 2.0 & $> 0^1$ in. wc	STBY	STBY	.40	.40	.40	.40	.40	
		PDI-821-3	≤ 2.0 & $> 0^1$ in. wc	STBY	STBY	.43	.43	.43	.43	.43	
		PDI-821-4	≤ 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 4 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:	mm	mm	PT	PT	PT	PT	PT	PT
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	.31	.31	.35	.35	.35	.35	.35	.35	.35
		PDI-838-2	≤2.0 & > 0' in. wc	.40	.40	.42	.42	.42	.42	.42	.42	.42
		PDI-838-3	≤2.0 & > 0' in. wc	.37	.37	.41	.41	.41	.41	.41	.41	.41
4.1.3.4	400 area re-circulation filter plenum (HVP-808) AP	'PDI-839-1	≤2.0 & > 0' in. wc	.31	.31	.37	.31	.31	.31	.31	.31	.31
		PDI-839-2	≤2.0 & > 0' in. wc	.47	.47	.48	.48	.48	.48	.48	.48	.48
		PDI-839-3	≤2.0 & > 0' 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' in. wc	.15	.16	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-2	≤2.0 & > 0' in. wc	.48	.48	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		PDI-810-3	≤2.0 & > 0' 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' in. wc	OFF	OFF	.11	.11	.11	.11	.11	.11	.11
		PDI-811-2	≤2.0 & > 0' in. wc	OFF	OFF	.48	.48	.48	.48	.48	.48	.48
		PDI-811-3	≤2.0 & > 0' in. wc	OFF	OFF	.48	.49	.49	.49	.49	.49	.49
	OC Operator Review and Page Count Complete (initials)		. Completion Time	0846	0855	0726	0743	0741	0749	0749	0748	
				mm	mm	mm	mm	mm	mm	mm	mm	

'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 Fugate 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:	SURVEILLANCE RESULTS (in. wc)													
					Date: Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.						
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	mm	12-22-14													
		PDI-840-2	≤2.0 & > 0 in. wc	PT	12-23-14													
		PDI-840-3	≤2.0 & > 0' in. wc	PT	12-24-14													
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	STBY														
		PDI-841-2	≤2.0 & > 0' in. wc	STBY														
		PDI-841-3	≤2.0 & > 0' in. wc	STBY														
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	STBY														
		PDI-831-2	≤2.0 & > 0' in. wc	STBY														
		PDI-831-3	≤2.0 & > 0' in. wc	STBY														
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	STBY															
	PDI-832-2	≤2.0 & > 0' in. wc	STBY															
	PDI-832-3	≤2.0 & > 0' in. wc	STBY															
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	mm	12-22-14													
		PDI-807-2	≤2.0 & > 0' in. wc	PT	12-23-14													
		PDI-807-3	≤2.0 & > 0' in. wc	PT	12-24-14													
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	PT	12-23-14													
		PDI-809-2	≤2.0 & > 0' in. wc	PT	12-24-14													
		PDI-809-3	≤2.0 & > 0' in. wc	PT	12-25-14													

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

(Page 4 of 4)

SIRs	Description	Gauge	Acceptance Criteria	Date:						
				Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤2.0 & >0 ¹ in. wc	.11	.11	.11	.11	.11	.11	.11
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-857-2	≤2.0 & >0 ¹ in. wc	.49	.49	.49	.49	.49	.49	.49
'NA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C	PDI-856-1	≤2.0 & >0 ¹ in. wc	.05	.04	.05	.05	.05	.05	.05
		PDI-856-2	≤2.0 & >0 ¹ in. wc	.50	.50	.51	.51	.51	.51	.51
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT	SAT	SAT	SAT	SAT
			0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT	SAT	SAT	SAT	SAT
Completion time				0826	0811	0735	0743	0805	0805	0801
OC Operator Review and Page Count Complete (initials)				a/v	a/v	a/v	a/v	a/v	a/v	a/v

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*

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

PF-10 & PF-11 Pumphouse Room Temperature and V-701 & V-704 Fire Water Storage Tank Temperature											
SR	Description	Acceptance Criteria	Date:							SAT	UNSAT
			12/22/2014	12/23/2014	12/24/2014	12/25/14	12/26/14	12/27/14	12/28/14		
Daily (September through April only)			Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.		
Initials:			BF	BF	BF						
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.									
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F	47.21	46.72	46.37	46.6	46.3	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
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
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	64.0	64.1
Completion Time:			0751	0810	0801	0809	0830	0830	0830	0830	0910
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: PRICE Date: 12/28/14 Time: 0910

Reviewed by: [Signature] Date: 12/30/14 Time: 0810

On-duty Supervisor: [Signature]

Comments: _____

ATTACHMENT A: Per Shift Surveillance Rounds [UET]

(Page 3 of 3)

SRs	Description	Area	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS							
					Sat. / Unsat. (circle one)							
					Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.4	Glovebox exhaust header APs < laboratory APs < basement APs for areas 100, 200, 300 and 400	200 Area	PDI-814-2	PDI-814-2 < PDI-803-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-803-2	PDI-820-2 < PDI-802-2 < PDI-804-2	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-804-2	PDI-870-2 < PDI-853-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM
		300 Area	PDI-820-2	PDI-864-2 < PDI-852-2 < PDI-854-2	AM	PM	AM	PM	AM	PM	AM	PM
			PDI-802-2	Completion Time								
400 Area												

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

Completed by: W A Date 12-31-14 Time 1930

Reviewed by: [Signature] Date: 1/5/15 Time: 0654

On-duty Supervisor

Comments:

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

(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.3.4	South basement supply filter plenum (HVP-841) ΔP	'PDI-894-1	≤2.0 & > 0' in. wc	12-30-14								
		PDI-894-2	≤2.0 & > 0' in. wc	12-30-14	.05	.05	.05	.05				
4.1.3.4	South Corridor supply (HVP-810) ΔP	'PDI-895-1	≤2.0 & > 0' in. wc	12-30-14	.51	.51	.51					
		PDI-895-2	≤2.0 & > 0' in. wc	12-30-14	.05	.05	.05	.05				
4.1.3.4	300 area glovebox exhaust filter plenum (FF854) ΔP	'PDI-817-1	≤2.0 & > 0' in. wc	12-30-14	.58	.58	.58	.58				
		PDI-817-2	≤2.0 & > 0' in. wc	12-30-14	STBY	STBY	STBY	STBY				
		PDI-817-4	≤2.0 & > 0' in. wc	12-30-14	STBY	STBY	STBY	STBY				
		PDI-817-5	≤2.0 & > 0' in. wc	12-30-14	STBY	STBY	STBY	STBY				
		PDI-819-1	≤2.0 & > 0' in. wc	12-30-14	STBY	STBY	STBY	STBY				
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF858) ΔP	PDI-819-3	≤2.0 & > 0' in. wc	12-30-14	STBY	STBY	STBY	STBY				
		PDI-819-4	≤2.0 & > 0' in. wc	12-30-14	STBY	STBY	STBY	STBY				
		'PDI-818-1	≤2.0 & > 0' in. wc	12-30-14	.24	.24	.24	.24				
4.1.3.4	300 area glovebox exhaust filter plenum (FF855) ΔP	PDI-818-2	≤2.0 & > 0' in. wc	12-30-14	.31	.31	.31	.31				
		PDI-818-4	≤2.0 & > 0' in. wc	12-30-14	.32	.32	.32	.32				
4.1.3.4	300 area special recovery glovebox exhaust filter plenum (FF859) ΔP	PDI-818-5	≤2.0 & > 0' in. wc	12-30-14	.30	.30	.30	.30				
		PDI-821-1	≤2.0 & > 0' in. wc	12-30-14	.40	.40	.40	.40				
		PDI-821-3	≤2.0 & > 0' in. wc	12-30-14	.45	.45	.45	.45				
		PDI-821-4	≤2.0 & > 0' in. wc	12-30-14	.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.	Sun.	
				Weekday:	Initials:							
4.1.3.4	400 area glovebox exhaust filter plenum (FF856) AP	'PDI-822-1	≤2.0 & > 0' in. wc	12-29-14	EAJ	12-30-14	EAJ	12-31-14				
		PDI-822-2	≤2.0 & > 0' in. wc		STBY	STBY	STBY					
		PDI-822-4	≤2.0 & > 0' in. wc		STBY	STBY	STBY					
		PDI-822-5	≤2.0 & > 0' in. wc		STBY	STBY	STBY					
		'PDI-823-1	≤2.0 & > 0' in. wc	.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						
		PDI-823-4	≤2.0 & > 0' in. wc	.49	.49	.49						
		PDI-823-5	≤2.0 & > 0' in. wc	.50	.50	.50						
4.1.3.4	South Basement exhaust filter plenum (FF-829) AP	'PDI-830-1	≤2.0 & > 0' in. wc	.66	.67	.67						
		PDI-830-2	≤2.0 & > 0' in. wc	.31	.31	.31						
		PDI-830-3	≤2.0 & > 0' in. wc	.29	.29	.29						
4.1.1.7	300 area re-circulation filter plenum (HVP-805) AP	'PDI-836-1	≤2.0 & > 0' in. wc	.95	.95	.96						
		PDI-836-2	≤2.0 & > 0' in. wc	.56	.56	.57						
		PDI-836-3	≤2.0 & > 0' in. wc	.52	.52	.52						
4.1.1.7	300 area re-circulation filter plenum (HVP-806) AP	'PDI-837-1	≤2.0 & > 0' in. wc	.49	.49	.49						
		PDI-837-2	≤2.0 & > 0' in. wc	.40	.40	.40						
		PDI-837-3	≤2.0 & > 0' in. wc	.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:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
4.1.1.7	400 area re-circulation filter plenum (HVP-807) AP	'PDI-838-1	≤2.0 & > 0' in. wc	12-29-14	.34	.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					
4.1.3.4	400 area re-circulation filter plenum (HVP-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	OFF					
		PDI-810-2	≤2.0 & > 0' in. wc		OFF	OFF	OFF					
		PDI-810-3	≤2.0 & > 0' in. wc		OFF	OFF	OFF					
4.1.3.4	South Bleed off filter plenum (FF-822B) AP	'PDI-811-1	≤2.0 & > 0' in. wc		.11	.11	.11					
		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)												

¹Non TSR requirement:

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

Completed by:  Date: 2/3/14 Time: 0842
 Reviewed by:  Date: 1/25/14 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	SURVEILLANCE RESULTS (in. wc)								
				Date:	Weekday:	Initials:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
4.1.1.7	Vault re-circulation filter plenum (HVP-811) ΔP	'PDI-840-1	≤2.0 & > 0' in. wc	12-29-14	Mon.	RH	STBY	STBY	STBY			
		PDI-840-2	≤2.0 & > 0 in' wc	12-30-14	Tue.	RH	STBY	STBY	STBY			
		PDI-840-3	≤2.0 & > 0' in. wc	12-31-14	Wed.	RH	STBY	STBY	STBY			
	Vault re-circulation filter plenum (HVP-812) ΔP	'PDI-841-1	≤2.0 & > 0' in. wc	12-29-14	Mon.	RH	.44	.44	.44			
		PDI-841-2	≤2.0 & > 0' in. wc	12-30-14	Tue.	RH	.57	.57	.57			
		PDI-841-3	≤2.0 & > 0' in. wc	12-31-14	Wed.	RH	.50	.50	.50			
	200 area re-circulation filter plenum (HVP-801) ΔP	'PDI-831-1	≤2.0 & > 0' in. wc	12-29-14	Mon.	RH	.32	.32	.32			
		PDI-831-2	≤2.0 & > 0' in. wc	12-30-14	Tue.	RH	.39	.39	.40			
		PDI-831-3	≤2.0 & > 0' in. wc	12-31-14	Wed.	RH	.32	.32	.32			
200 area re-circulation filter plenum (HVP-802) ΔP	'PDI-832-1	≤2.0 & > 0' in. wc	12-29-14	Mon.	RH	.31	.32	.32				
	PDI-832-2	≤2.0 & > 0' in. wc	12-30-14	Tue.	RH	.60	.60	.60				
	PDI-832-3	≤2.0 & > 0' in. wc	12-31-14	Wed.	RH	.64	.55	.55				
4.1.3.4	North Bleed off filter plenum (FF-820A) ΔP	'PDI-807-1	≤2.0 & > 0' in. wc	12-29-14	Mon.	RH	OFF	OFF	OFF			
		PDI-807-2	≤2.0 & > 0' in. wc	12-30-14	Tue.	RH	OFF	OFF	OFF			
		PDI-807-3	≤2.0 & > 0' in. wc	12-31-14	Wed.	RH	OFF	OFF	OFF			
4.1.3.4	North Bleed off filter plenum (FF-820B) ΔP	'PDI-809-1	≤2.0 & > 0' in. wc	12-29-14	Mon.	RH	.07	.07	.07			
		PDI-809-2	≤2.0 & > 0' in. wc	12-30-14	Tue.	RH	.50	.50	.50			
		PDI-809-3	≤2.0 & > 0' in. wc	12-31-14	Wed.	RH	.45	.46	.47			

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

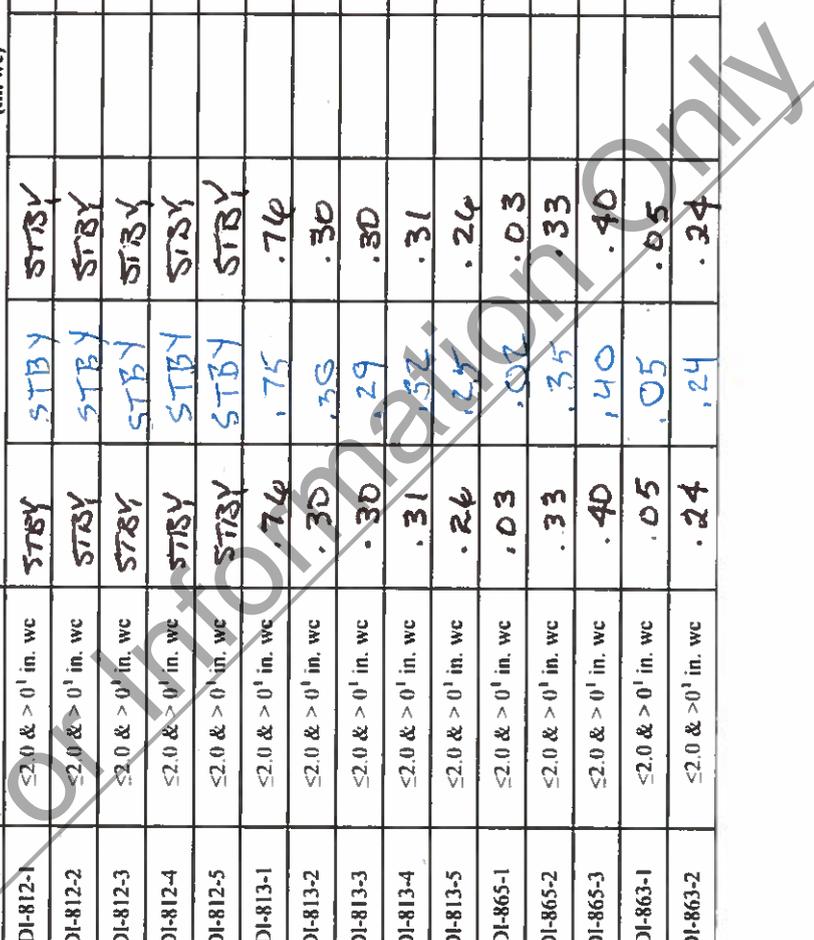
(Page 2 of 4)

SRs	Description	Gauge	Acceptance Criteria	Initials:	SURVEILLANCE RESULTS (in. wc)									
					Date: 12-29-14	12-30-14	12-31-14	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
4.1.3.4	North Basement exhaust filter plenum (FF-828) AP	'PDI-829-1	≤2.0 & > 0' in. wc	RH	12-29-14	12-30-14	12-31-14							
		PDI-829-2	≤2.0 & > 0' in. wc		.13	.12	.13							
		PDI-829-3	≤2.0 & > 0' in. wc		.37	.35	.37							
		'PDI-833-1	≤2.0 & > 0' in. wc		.30	.29	.29							
		PDI-833-2	≤2.0 & > 0' in. wc		1.0	1.0	1.0							
4.1.1.7	100 area re-circulation filter plenum (HVP-803) AP	PDI-833-3	≤2.0 & > 0' in. wc	RH	.45	.42	.45							
		'PDI-835-1	≤2.0 & > 0' in. wc		.42	.42	.42							
		PDI-835-2	≤2.0 & > 0' in. wc		.15	.15	.15							
		PDI-835-3	≤2.0 & > 0' in. wc		.43	.42	.43							
		'PDI-815-1	≤2.0 & > 0' in. wc		.40	.40	.40							
4.1.3.4	100 area glovebox exhaust filter plenum (FF852) AP	PDI-815-2	≤2.0 & > 0' in. wc	RH	STBY	STBY	STBY							
		PDI-815-4	≤2.0 & > 0' in. wc		STBY	STBY	STBY							
		PDI-815-5	≤2.0 & > 0' in. wc		STBY	STBY	STBY							
		'PDI-816-1	≤2.0 & > 0' in. wc		.35	.35	.38							
		PDI-816-2	≤2.0 & > 0' in. wc		.44	.43	.45							
4.1.3.4	100 area glovebox exhaust filter plenum (FF853) AP	PDI-816-4	≤2.0 & > 0' in. wc	RH	.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	Acceptance Criteria	SURVEILLANCE RESULTS (in. wc)								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				Weekday:	Initials:							
4.1.3.4	200 area glovebox exhaust filter plenum (FF850) ΔP	PDI-812-1	≤ 2.0 > 0 ¹ in. wc	12-29-14	RA							
		PDI-812-2	≤ 2.0 > 0 ¹ in. wc	12/30/14	A							
		PDI-812-3	≤ 2.0 > 0 ¹ in. wc									
		PDI-812-4	≤ 2.0 > 0 ¹ in. wc									
		PDI-812-5	≤ 2.0 > 0 ¹ in. wc									
4.1.3.4	200 area glovebox exhaust filter plenum (FF851) ΔP	PDI-813-1	≤ 2.0 > 0 ¹ in. wc									
		PDI-813-2	≤ 2.0 > 0 ¹ in. wc									
		PDI-813-3	≤ 2.0 > 0 ¹ in. wc									
		PDI-813-4	≤ 2.0 > 0 ¹ in. wc									
		PDI-813-5	≤ 2.0 > 0 ¹ in. wc									
4.1.3.4	IFIT exhaust filter plenum (FF-865) ΔP	PDI-865-1	≤ 2.0 > 0 ¹ in. wc									
		PDI-865-2	≤ 2.0 > 0 ¹ in. wc									
		PDI-865-3	≤ 2.0 > 0 ¹ in. wc									
4.1.3.4	IFIT supply filter plenum (IIVP-863) ΔP	PDI-863-1	≤ 2.0 > 0 ¹ in. wc									
		PDI-863-2	≤ 2.0 > 0 ¹ in. wc									



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

(Page 4 of 4)

SRs	Description	Gauge	Acceptance Criteria	SURVEILLANCE RESULTS								
				Date:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
				12-29-14	12-30-14	12-31-14						
				Weekday:	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	
			Initials:	RH	A		R4					
4.1.3.4	North Basement supply filter plenum (HVP-840) ΔP	PDI-857-1	≤2.0 & >0' in. wc	.12	.11	.11						
		PDI-857-2	≤2.0 & >0' in. wc	.49	.46	.49						
4.1.3.4	North corridor supply filter plenum (HVP-809) ΔP	PDI-856-1	≤2.0 & >0' in. wc	.05	.05	.05						
		PDI-856-2	≤2.0 & >0' in. wc	.51	.52	.51						
INA	Combustible exclusion area around basement exhaust fans FE828, FE829 and bleed-off fans FE820A, FE820B, FE820C, FE822A, FE822B, FE822C		0 lb/ft ³ combustibles in designated exclusion area (within 15 feet of fans)	SAT	SAT	SAT						
4.3.2.2	Rooms 201, 204, 206, & 207		0 lb/ft ³ combustibles within 3.5 feet perpendicular from the face of the PMMA, the width of the aisles between gloveboxes, or up to the walls of the rooms, whichever is less	SAT	SAT	SAT						
				Completion time	0911	0804	0846					
				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: 12/31/14 Time: 0846 Reviewed by: [Signature] Date: 1/15/15 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.:	012253	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.:	012252	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																					
SR	Description	Acceptance Criteria	Initials:	Date:							Completion Time:										
				Sat	Sun	Mon	Tue	Wed	Thu	Fri		Sat	Sun								
NA	ENSURE M&TE Calibration Data above is recorded and calibration dates have not elapsed.	Calibration dates have not elapsed.																			
4.3.1.1'	RECORD fire water storage tank V-701 temperature	≥ 42.1 F																			
4.3.1.1'	RECORD fire water storage tank V-704 temperature	≥ 42.1 F																			
4.3.1.3'	RECORD PF-10 room temperature	≥ 50.1 F																			
4.3.1.3'	RECORD PF-11 room temperature	≥ 50.1 F																			
	OC Operator Review and Page Count Complete (initials)																				

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

Completed by: SPUC Date: 12/31/14 Time: 0920
 Reviewed by: [Signature] Date: 1/5/15 Time: 0637
 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.	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).	Sat. 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).	Sat. 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	Sat. 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 ≤ 30 seconds. 4.5 Seconds	Sat. Unsat.	0943	12-17-14	PT
				Sat. 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 OE Order 420-1B Chapter II, NFPA 80, NFPA 101 and IBC Requirements for LANI Building T-155-4 (P-F-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)

SIRs	Equipment	Location	Acceptance criteria	Sat or Unsat.	Completion Time:	Date:	Initials
4.1.3.2	Confinement Door DR-302	Southwest	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure. For each confinement door, VERIFY that one leaf of the door(s) is secured shut (NW, NE, SW, SE, south basement door). AND VERIFY and RECORD the time (using calibrated stop watch) that the door(s) go to the fully closed position via the automatic door closure is ≤ 30 seconds.	<input checked="" type="checkbox"/> Sat <input type="checkbox"/> Unsat.	0952	12-17-14	PT
			Seconds				
4.1.3.2	Confinement Door DR-4	N. Basement Personnel door DR-4	Exercise fully open and Verify that the door goes to the fully closed position via the automatic door closure.	<input checked="" type="checkbox"/> Sat <input type="checkbox"/> Unsat.	0952	12-17-14	PT
						PT 12-17-14 12-17-14 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="checkbox"/> Sat <input type="checkbox"/> Unsat.	0930		PT
OC Operator Review and Page Count Complete							

Note: SR 4.1.3.2 applies during mode 1 and 2.

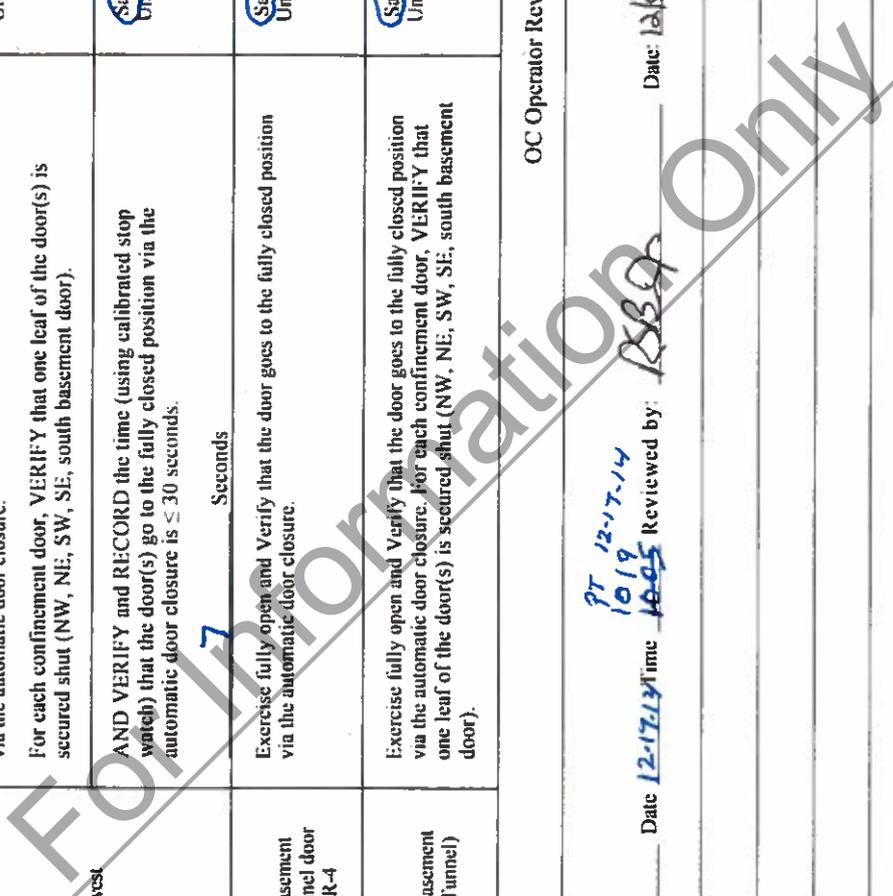
Completed by: Paul Trujillo

Date: 12-17-14 Time: 1005

Reviewed by: BBB

Date: 12-17-14 Time: 1050

On-duty Supervisor 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 (H₂S) 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 (CO₂).
- (e) Shall not contain in excess of 0.2-mol% of Oxygen (O₂). 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 C₅ and above (C₅+) 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.