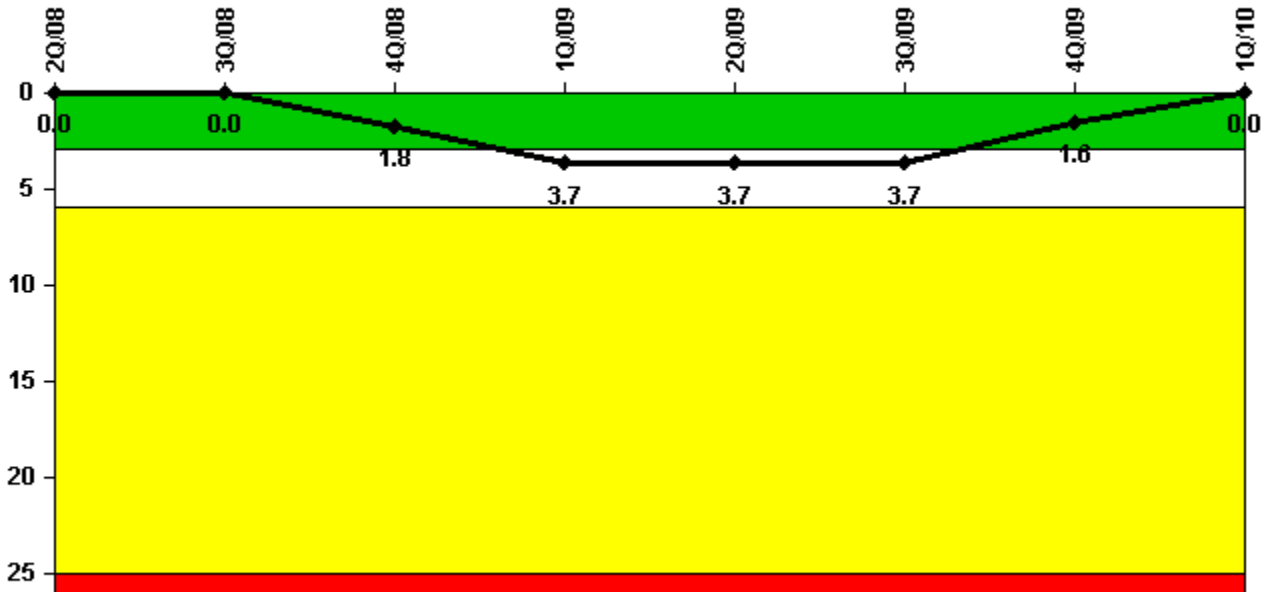


Arkansas Nuclear 1

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



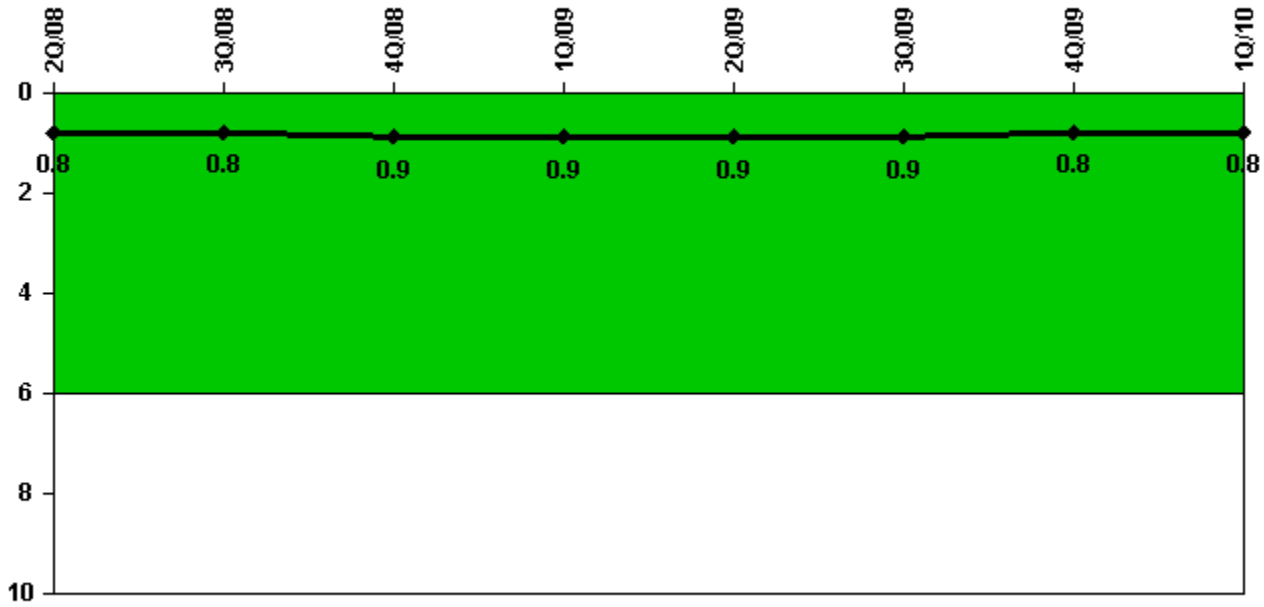
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	0	0	2.0	2.0	0	0	0	0
Critical hours	2184.0	2208.0	1010.4	2069.3	2184.0	2208.0	2209.0	1903.0
Indicator value	0	0	1.8	3.7	3.7	3.7	1.6	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	1.0	0	0	0	1.0	0	0	0
Critical hours	2184.0	2208.0	1010.4	2069.3	2184.0	2208.0	2209.0	1903.0
Indicator value	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8

Licensee Comments: none

Unplanned Scrams with Complications



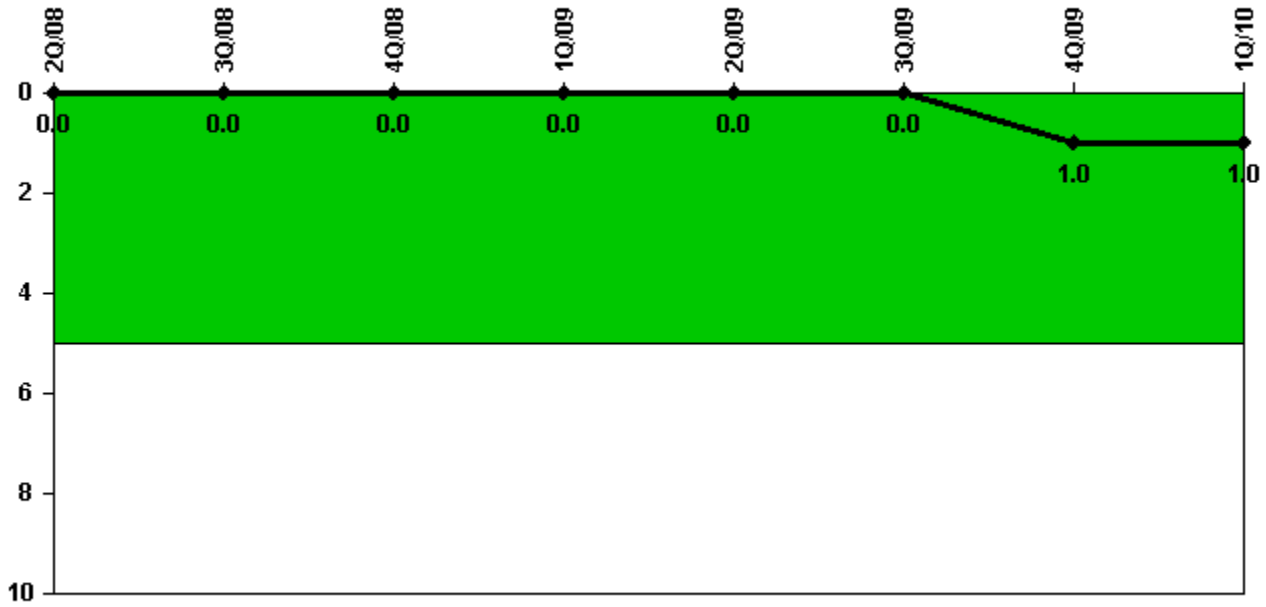
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



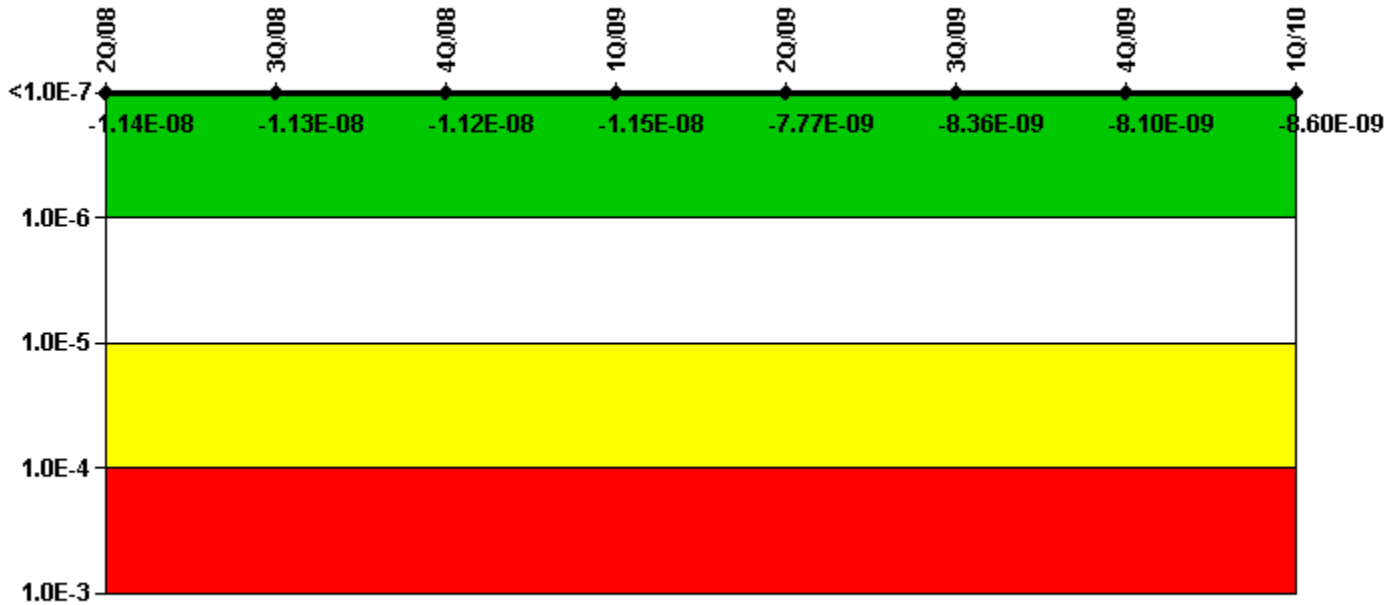
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Safety System Functional Failures	0	0	0	0	0	0	1	0
Indicator value	0	0	0	0	0	0	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

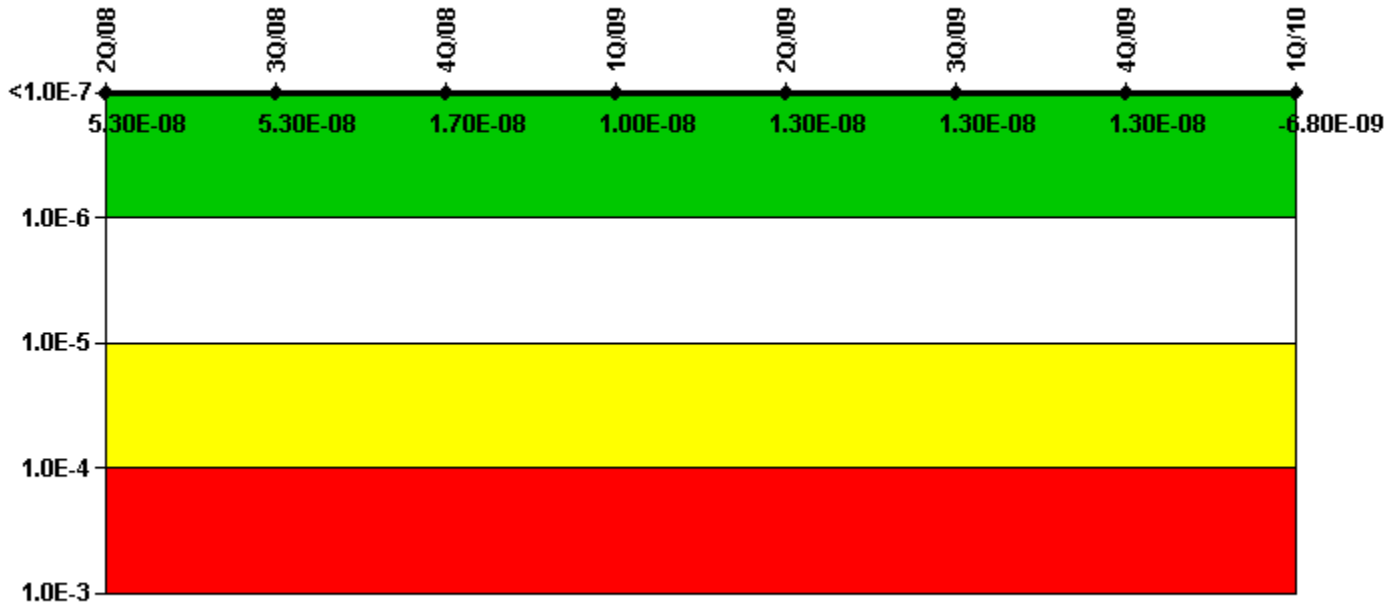
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-3.10E-09	-3.10E-09	-3.10E-09	-3.10E-09	9.30E-10	9.40E-10	1.90E-09	1.27E-09
URI (Δ CDF)	-8.30E-09	-8.20E-09	-8.10E-09	-8.40E-09	-8.70E-09	-9.30E-09	-1.00E-08	-9.84E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.14E-08	-1.13E-08	-1.12E-08	-1.15E-08	-7.77E-09	-8.36E-09	-8.10E-09	-8.60E-09

Licensee Comments:

1Q/10: As required by NEI 99-02 guidance, the ANO-1 MSPI Basis Document has been revised to reflect a revision the ANO-1 PRA model. The new Basis Document PRA coefficients for each of the 5 MSPI Systems have been entered into CDE and are effective for the 1Q2010 data.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

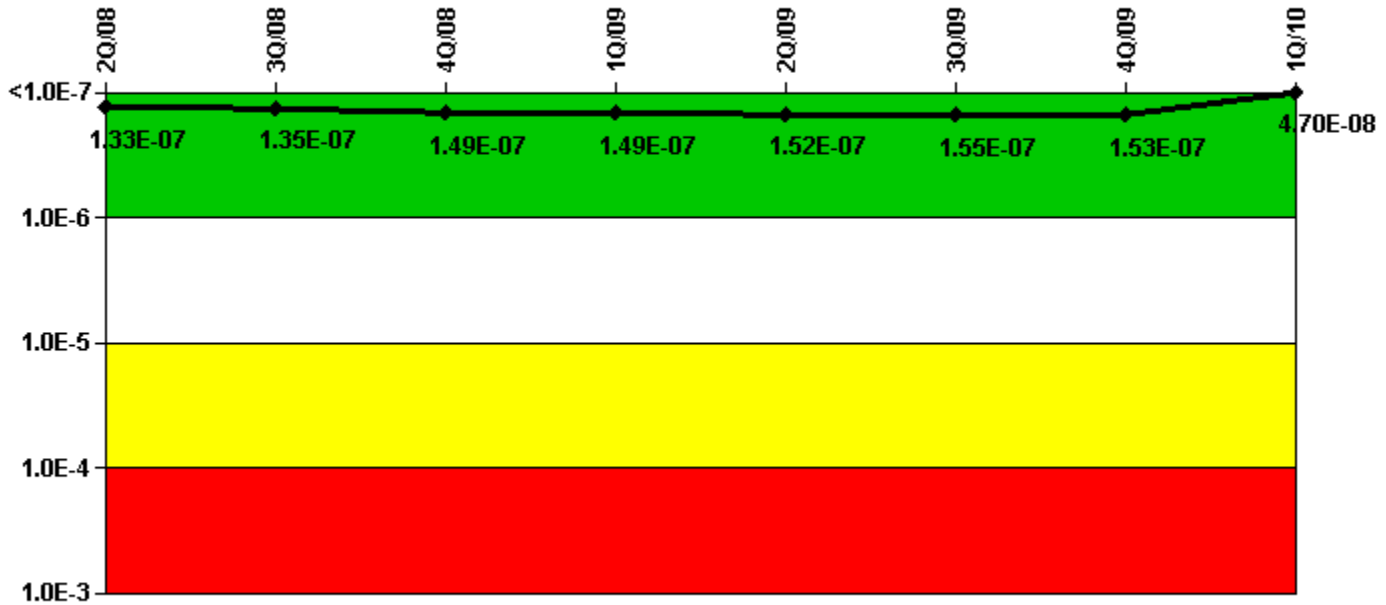
Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	4.00E-08	4.00E-08	3.60E-08	2.90E-08	3.20E-08	3.20E-08	3.20E-08	2.12E-11
URI (Δ CDF)	1.30E-08	1.30E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-6.81E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.30E-08	5.30E-08	1.70E-08	1.00E-08	1.30E-08	1.30E-08	1.30E-08	-6.80E-09

Licensee Comments:

1Q/10: As required by NEI 99-02 guidance, the ANO-1 MSPI Basis Document has been revised to reflect a revision the ANO-1 PRA model. The new Basis Document PRA coefficients for each of the 5 MSPI Systems have been entered into CDE and are effective for the 1Q2010 data.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

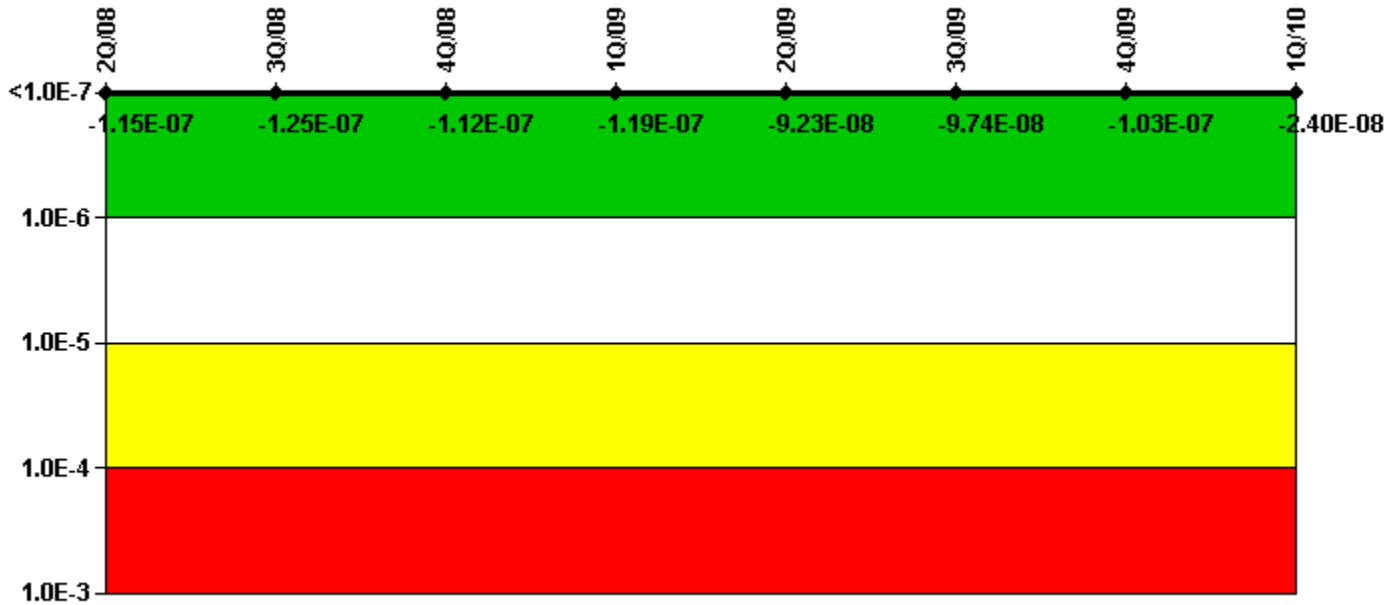
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	7.30E-08	7.70E-08	9.10E-08	9.20E-08	9.40E-08	9.70E-08	9.30E-08	2.70E-08
URI (Δ CDF)	6.00E-08	5.80E-08	5.80E-08	5.70E-08	5.80E-08	5.80E-08	6.00E-08	2.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.33E-07	1.35E-07	1.49E-07	1.49E-07	1.52E-07	1.55E-07	1.53E-07	4.70E-08

Licensee Comments:

1Q/10: As required by NEI 99-02 guidance, the ANO-1 MSPI Basis Document has been revised to reflect a revision the ANO-1 PRA model. The new Basis Document PRA coefficients for each of the 5 MSPI Systems have been entered into CDE and are effective for the 1Q2010 data.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

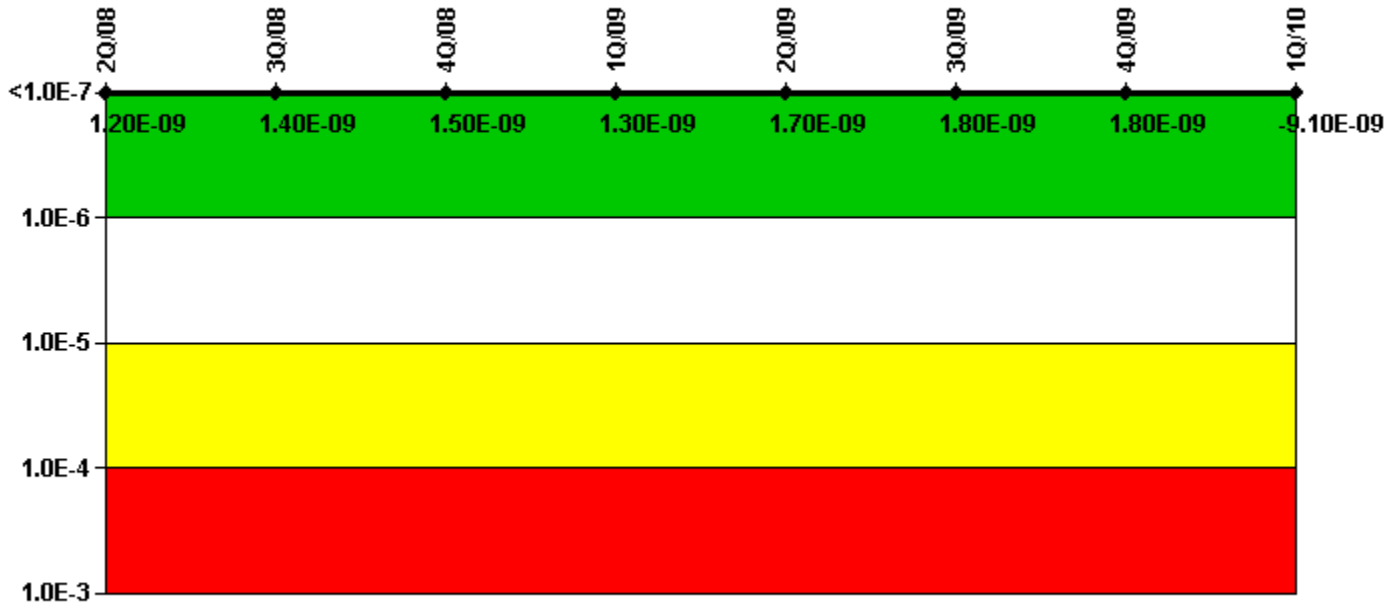
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-4.90E-09	-1.50E-08	-1.20E-08	-1.90E-08	7.70E-09	2.60E-09	-2.50E-09	1.52E-08
URI (Δ CDF)	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-3.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.15E-07	-1.25E-07	-1.12E-07	-1.19E-07	-9.23E-08	-9.74E-08	-1.03E-07	-2.40E-08

Licensee Comments:

1Q/10: As required by NEI 99-02 guidance, the ANO-1 MSPI Basis Document has been revised to reflect a revision the ANO-1 PRA model. The new Basis Document PRA coefficients for each of the 5 MSPI Systems have been entered into CDE and are effective for the 1Q2010 data.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

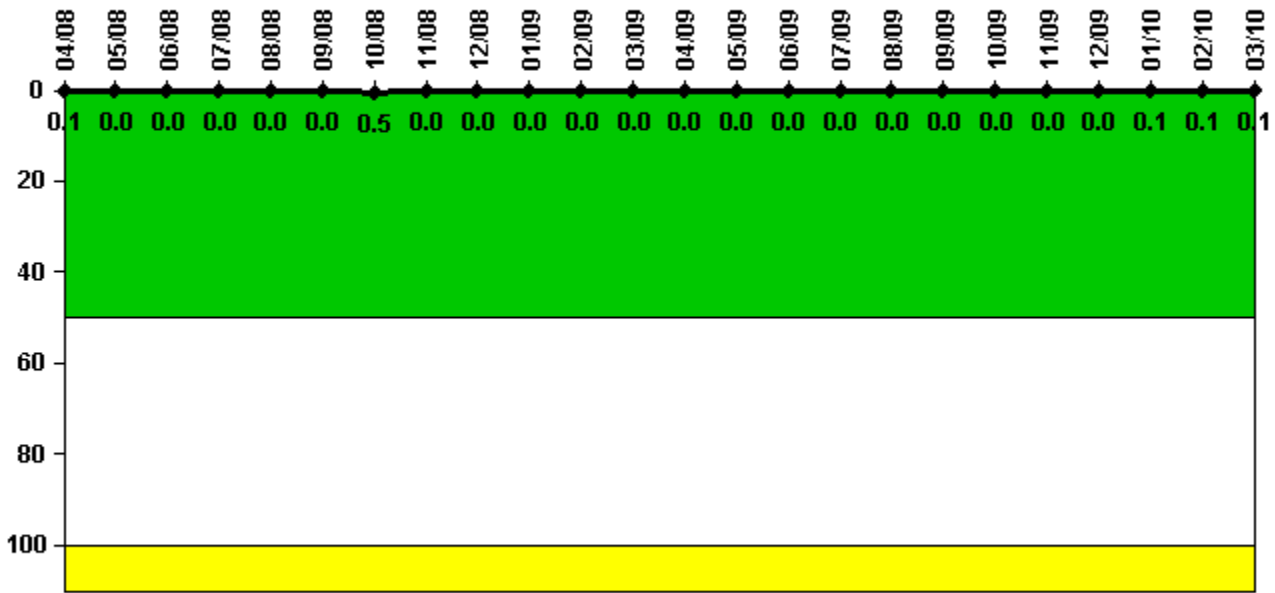
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-2.00E-09	-2.00E-09	-2.00E-09	-2.00E-09	-2.00E-09	-2.00E-09	-2.00E-09	-4.23E-09
URI (Δ CDF)	3.20E-09	3.40E-09	3.50E-09	3.30E-09	3.70E-09	3.80E-09	3.80E-09	-4.84E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.20E-09	1.40E-09	1.50E-09	1.30E-09	1.70E-09	1.80E-09	1.80E-09	-9.10E-09

Licensee Comments:

1Q/10: As required by NEI 99-02 guidance, the ANO-1 MSPI Basis Document has been revised to reflect a revision the ANO-1 PRA model. The new Basis Document PRA coefficients for each of the 5 MSPI Systems have been entered into CDE and are effective for the 1Q2010 data. Components SG-6 and SG-7 were removed from monitored component scope for the MSPI Cooling Water System.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

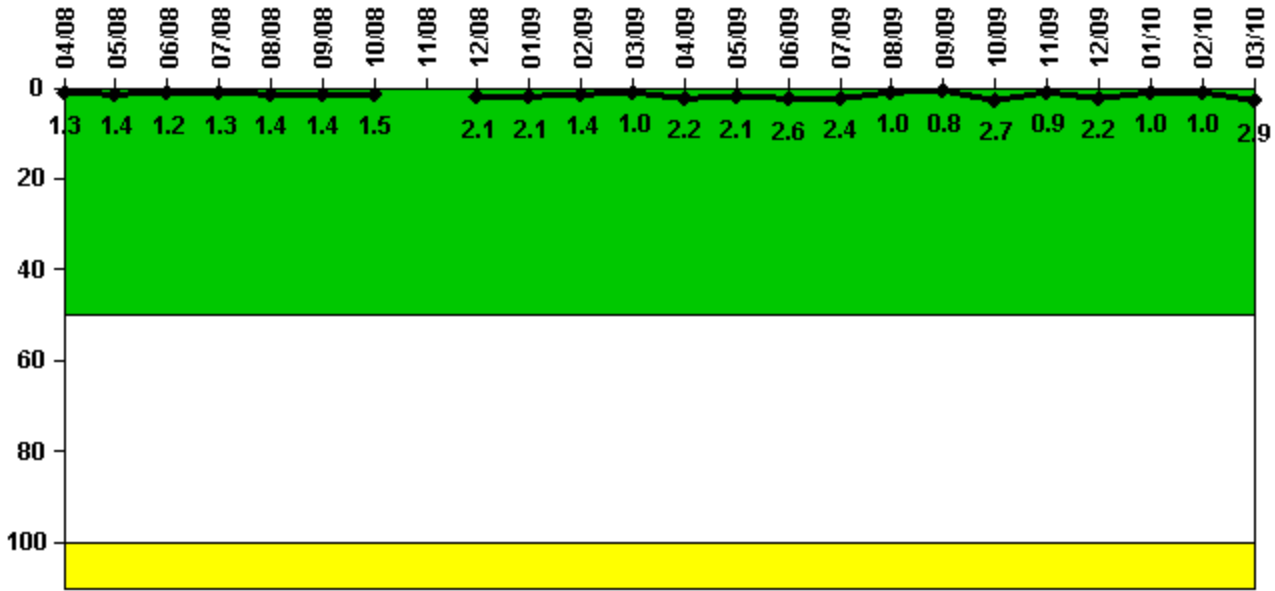
Notes

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.004000	0.001600	0.001290	0.001460	0.001470	0.001520	0.017700	0.000138	0.000259	0.000364	0.000369	0.000293
Technical specification limit	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Indicator value	0.1	0	0	0	0	0	0.5	0	0	0	0	0
Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.000372	0.000416	0.000423	0.000436	0.000356	0.000354	0.000454	0.000486	0.000461	0.000542	0.000513	0.000880
Technical specification limit	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1

Licensee Comments:

3/10: ANO-1 Technical Specification limit for RCS activity (dose equivalent Iodine-131) was changed from 3.5 to 1.0 microCi/gm effective January 01, 2010. The change was required to allow the implementation of Alternate Source Term for ANO-1.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

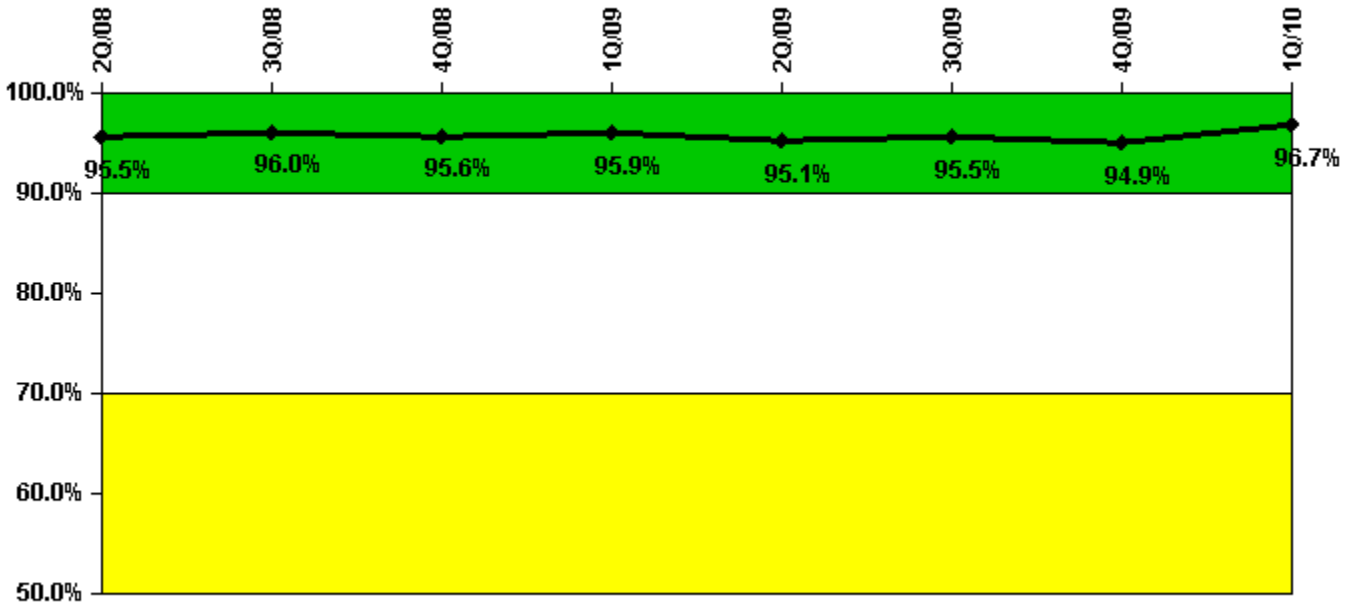
Notes

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.134	0.137	0.122	0.131	0.143	0.143	0.153	N/A	0.214	0.205	0.135	0.103
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.4	1.2	1.3	1.4	1.4	1.5	N/A	2.1	2.1	1.4	1.0
Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0.218	0.210	0.263	0.239	0.101	0.080	0.268	0.089	0.221	0.098	0.096	0.285
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.2	2.1	2.6	2.4	1.0	0.8	2.7	0.9	2.2	1.0	1.0	2.9

Licensee Comments:

3/10: Total Leakage is being reported in lieu of Identified Leakage

Drill/Exercise Performance



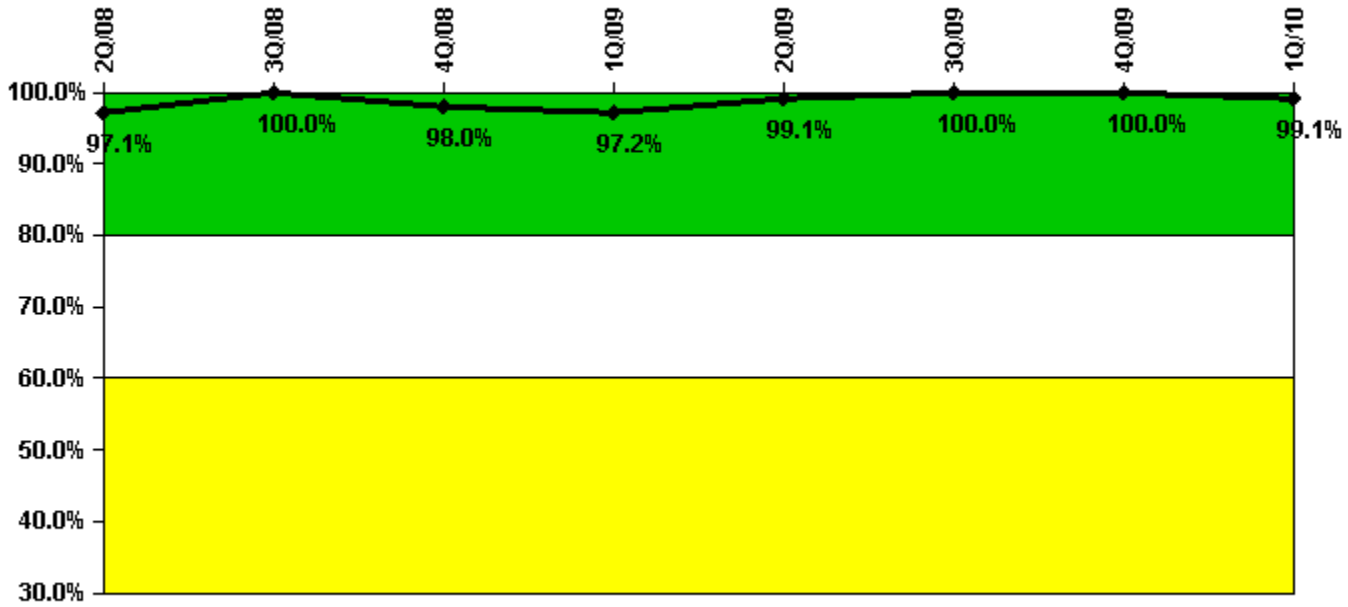
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	34.0	26.0	4.0	18.0	38.0	15.0	20.0	23.0
Total opportunities	36.0	26.0	4.0	18.0	40.0	15.0	22.0	23.0
Indicator value	95.5%	96.0%	95.6%	95.9%	95.1%	95.5%	94.9%	96.7%

Licensee Comments: none

ERO Drill Participation



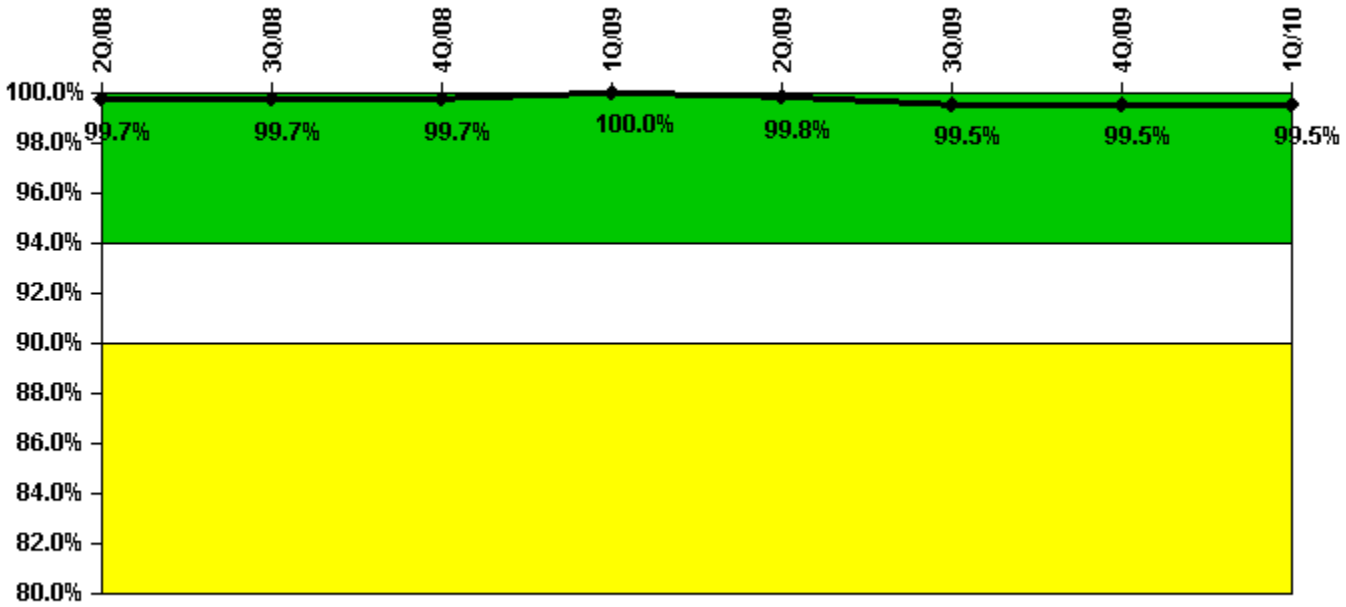
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	101.0	105.0	100.0	103.0	108.0	112.0	113.0	113.0
Total Key personnel	104.0	105.0	102.0	106.0	109.0	112.0	113.0	114.0
Indicator value	97.1%	100.0%	98.0%	97.2%	99.1%	100.0%	100.0%	99.1%

Licensee Comments: none

Alert & Notification System



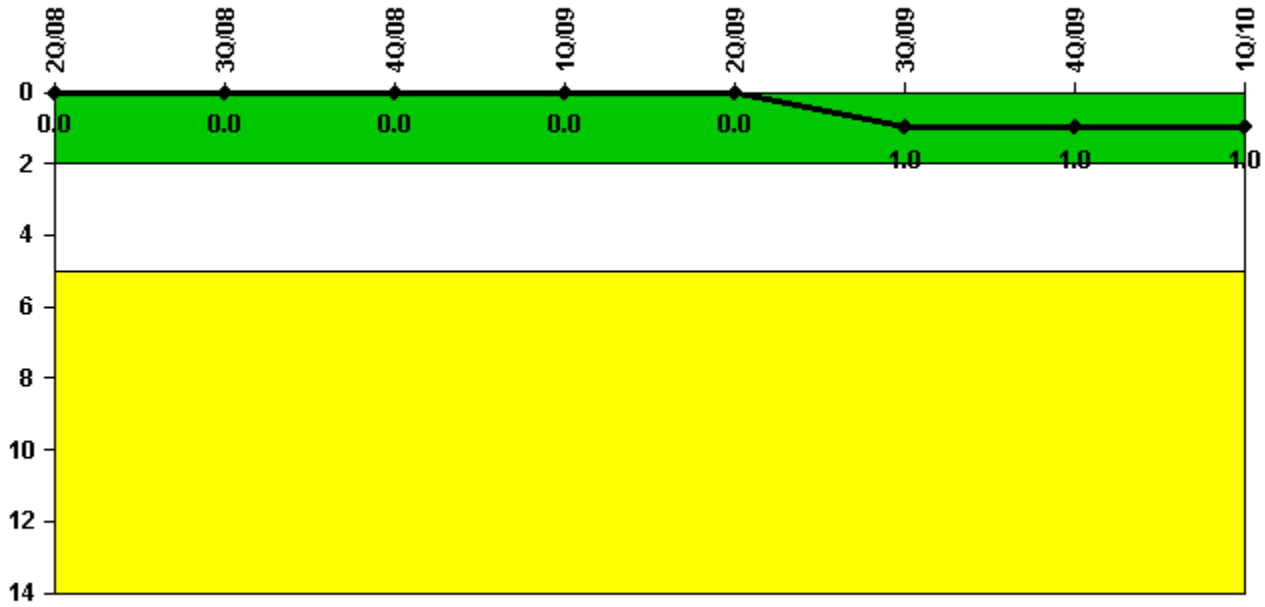
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	147	147	147	147	146	145	147	147
Total sirens-tests	147	147	147	147	147	147	147	147
Indicator value	99.7%	99.7%	99.7%	100.0%	99.8%	99.5%	99.5%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
High radiation area occurrences	0	0	0	0	0	1	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	1	1	1

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.