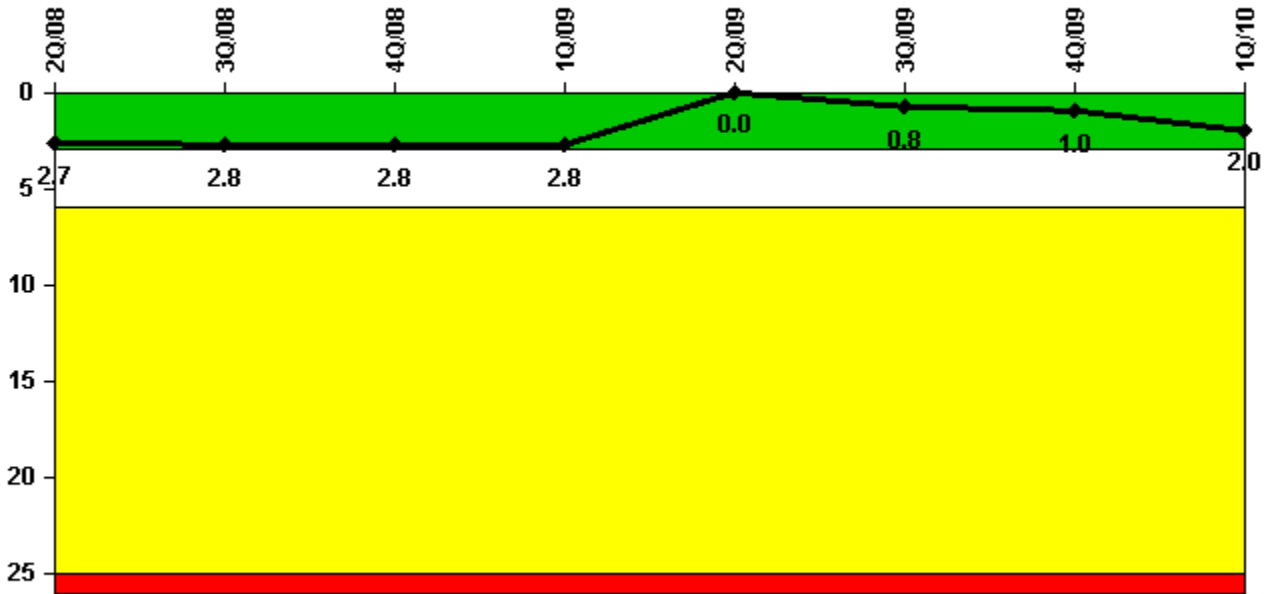


Millstone 2

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



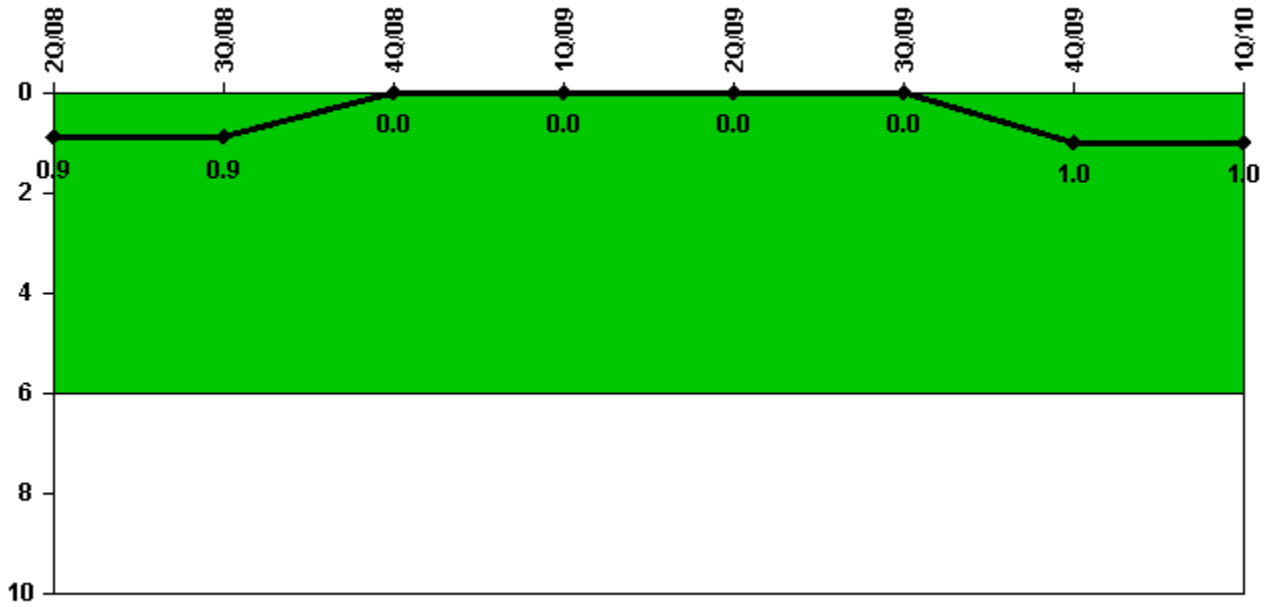
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	3.0	0	0	0	0	1.0	0	1.0
Critical hours	1039.0	2198.4	2209.0	2159.0	2184.0	1684.2	1197.5	2110.8
Indicator value	2.7	2.8	2.8	2.8	0	0.8	1.0	2.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



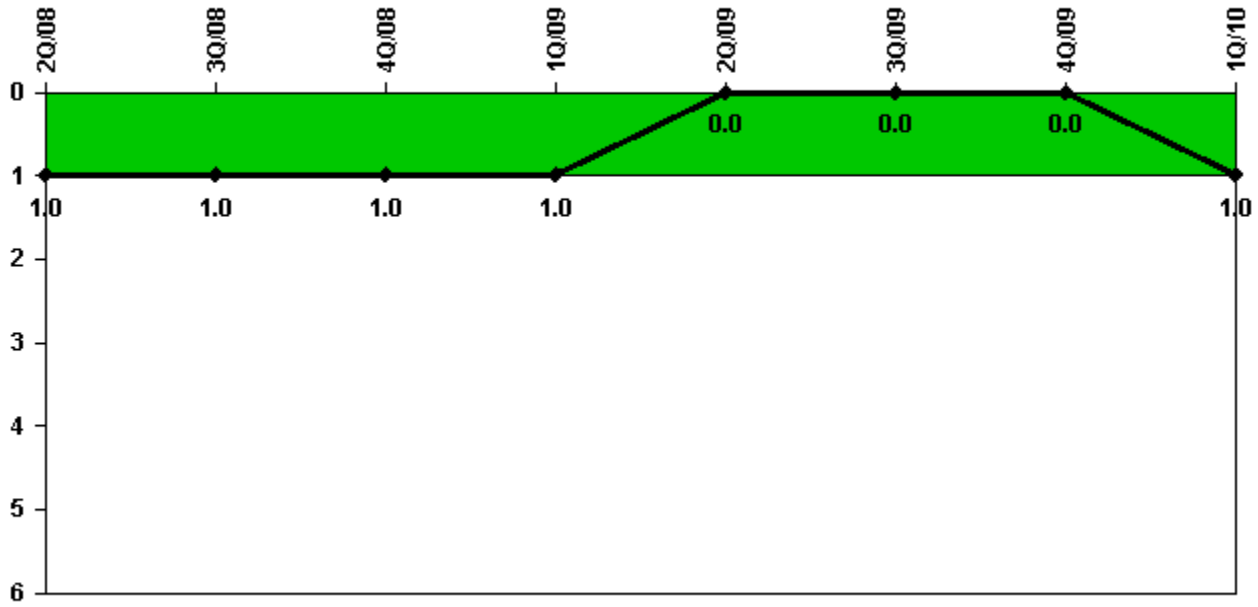
Thresholds: White > 6.0

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	0	0	0	0	0	0	1.0	0
Critical hours	1039.0	2198.4	2209.0	2159.0	2184.0	1684.2	1197.5	2110.8
Indicator value	0.9	0.9	0	0	0	0	1.0	1.0

Licensee Comments: none

Unplanned Scrams with Complications



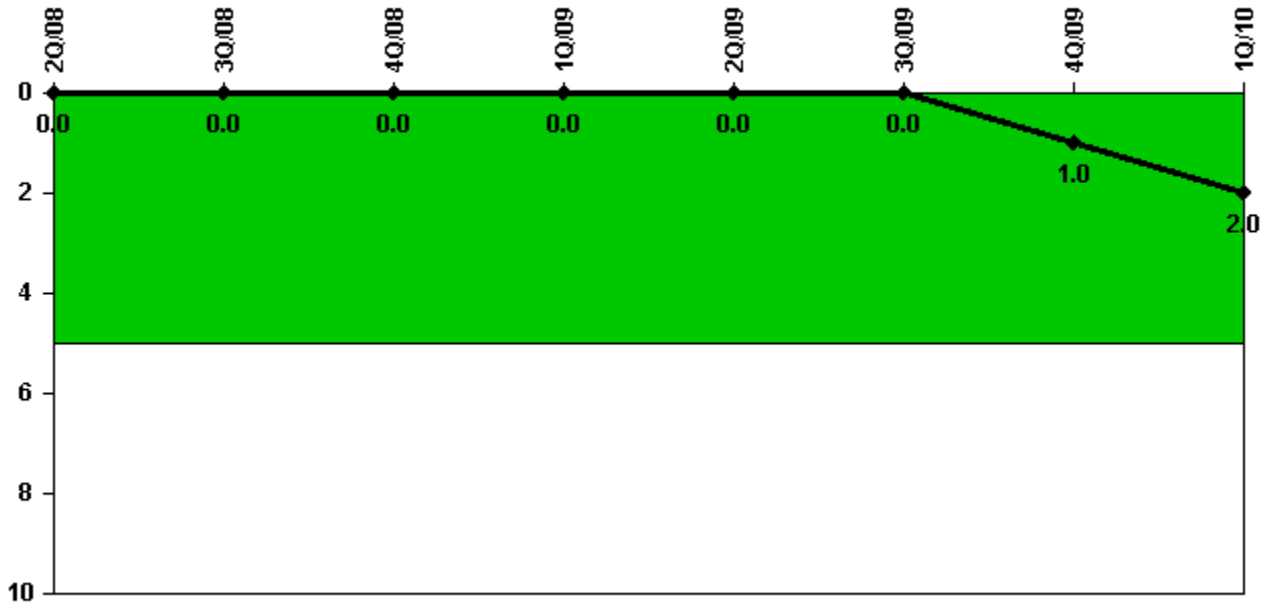
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Scrams with complications	1.0	0	0	0	0	0	0	1.0
Indicator value	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

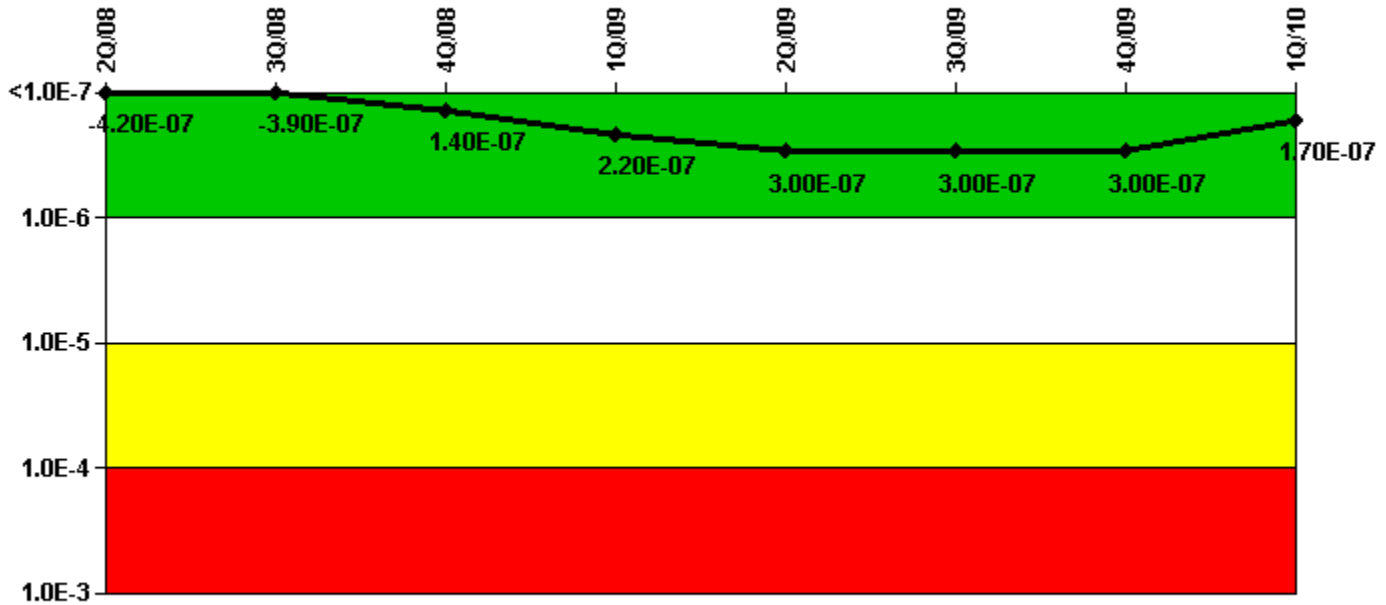
Safety System Functional Failures (PWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Safety System Functional Failures	0	0	0	0	0	0	1	1
Indicator value	0	0	0	0	0	0	1	2

Licensee Comments:

1Q/10: LER-2009-005

4Q/09: LER-2009-003

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)	1.47E-07	1.82E-07	2.18E-07	2.94E-07	2.90E-07	2.99E-07	2.90E-07	1.56E-07
URI (Δ CDF)	-5.69E-07	-5.70E-07	-7.48E-08	-7.36E-08	5.87E-09	4.25E-09	8.33E-09	1.19E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.20E-07	-3.90E-07	1.40E-07	2.20E-07	3.00E-07	3.00E-07	3.00E-07	1.70E-07

Licensee Comments:

1Q/10: Changed PRA Parameter(s). Baseline Unavailability was updated during the 1st qtr for the 'A' diesel due to a scheduled overhaul.

2Q/09: Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel. Updated the 'A' baseline unavailability to remove the overhaul hours.

1Q/09: Risk Cap Invoked. Updated the past unavailability (2nd qtr 2007-1st qtr 2008) based on error in a procedure resulting in additional unavailability. This issue was in the site's corrective action process. This did not result in crossing any threshold.

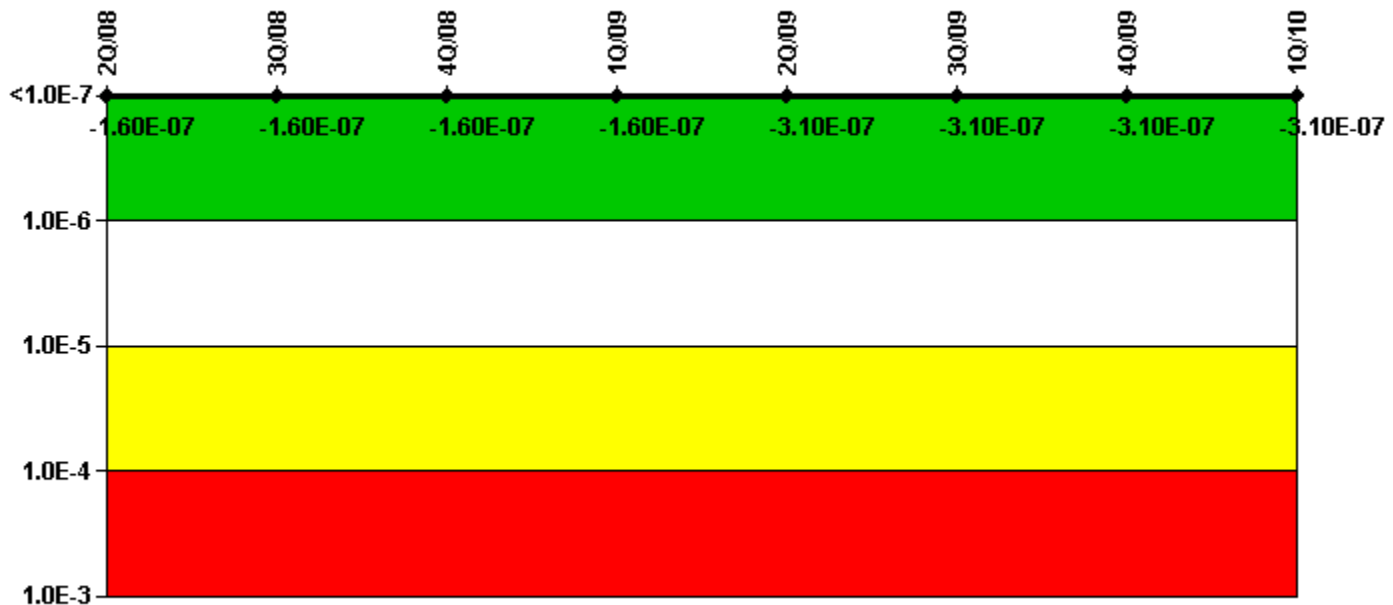
4Q/08: Risk Cap Invoked.

4Q/07: Changed baseline unavailability due to 1 overhaul being performed during 3 year period

1Q/07: Revised baseline unavailability to account for overhauls being performed in the first and second quarter 2007.

4Q/06: During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

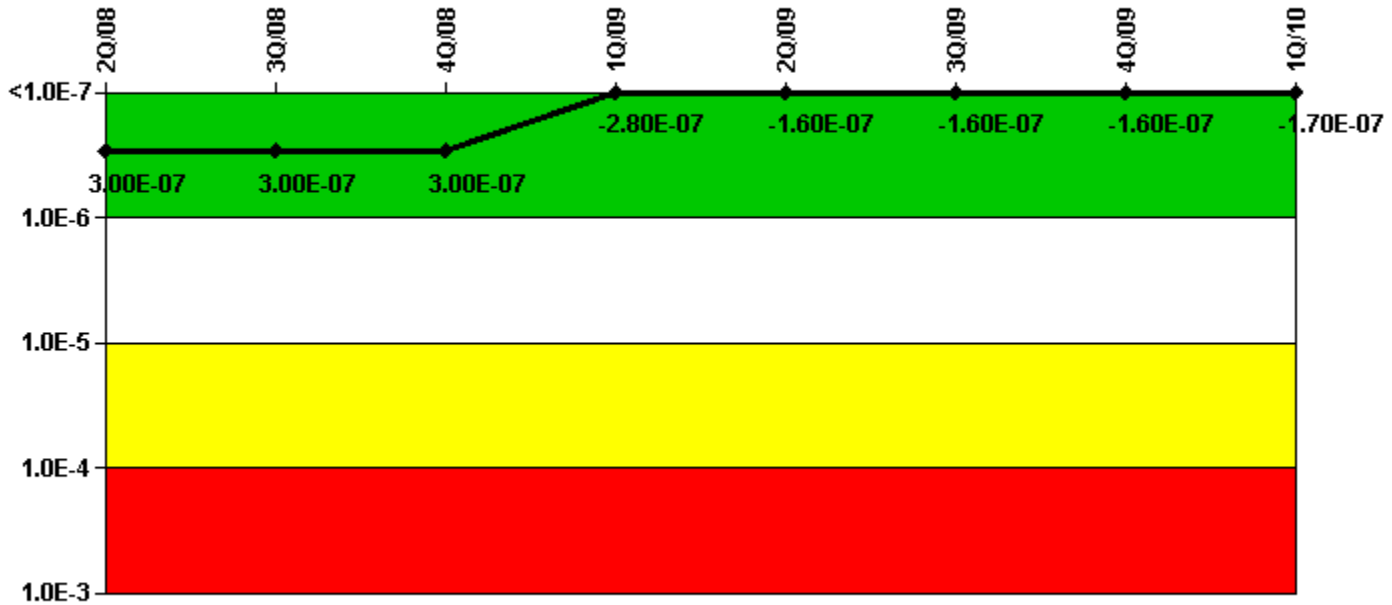
Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-5.71E-08	-5.71E-08	-5.71E-08	-5.71E-08	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07
URI (Δ CDF)	-1.05E-07	-1.05E-07	-1.04E-07	-1.05E-07	-3.84E-08	-3.87E-08	-4.01E-08	-3.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-07	-1.60E-07	-1.60E-07	-1.60E-07	-3.10E-07	-3.10E-07	-3.10E-07	-3.10E-07

Licensee Comments:

2Q/09: Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel.

4Q/06: Changed PRA Parameter(s). During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

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)	4.79E-08	4.42E-08	5.65E-08	-3.47E-08	-2.41E-08	-2.22E-08	-2.23E-08	-2.12E-08
URI (Δ CDF)	2.51E-07	2.52E-07	2.48E-07	-2.41E-07	-1.33E-07	-1.40E-07	-1.42E-07	-1.44E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.00E-07	3.00E-07	3.00E-07	-2.80E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.70E-07

Licensee Comments:

2Q/09: Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel.

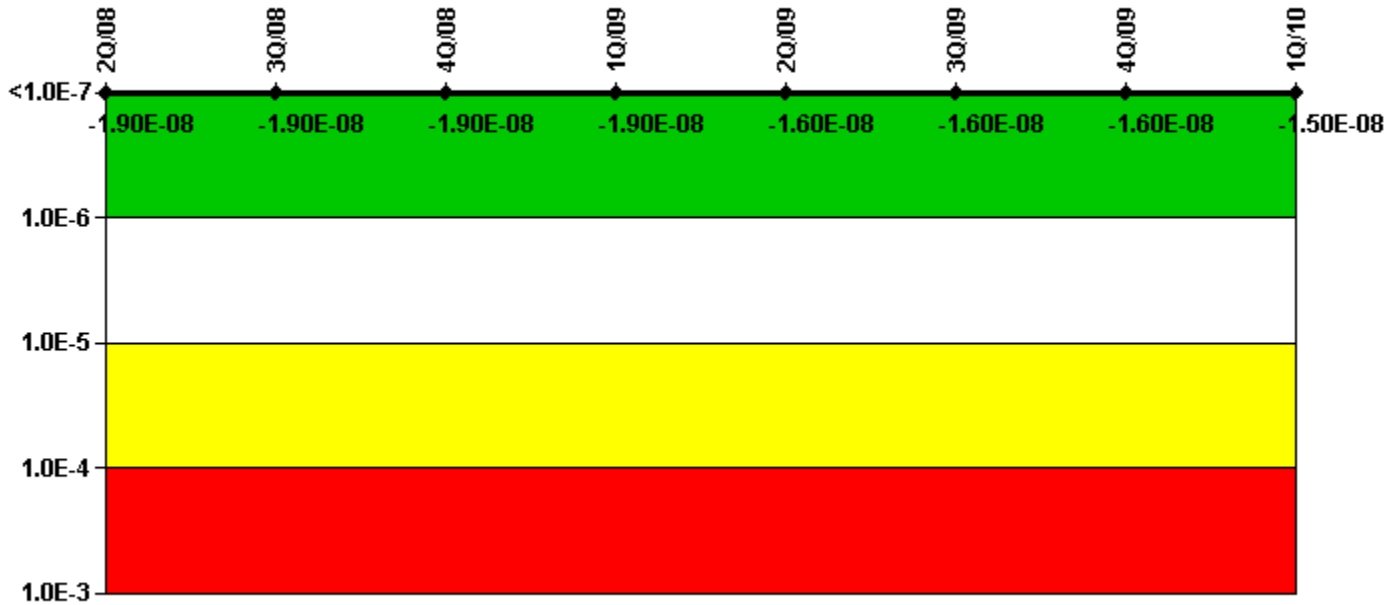
4Q/08: Risk Cap Invoked.

3Q/08: Risk Cap Invoked.

2Q/08: Risk Cap Invoked.

4Q/06: During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

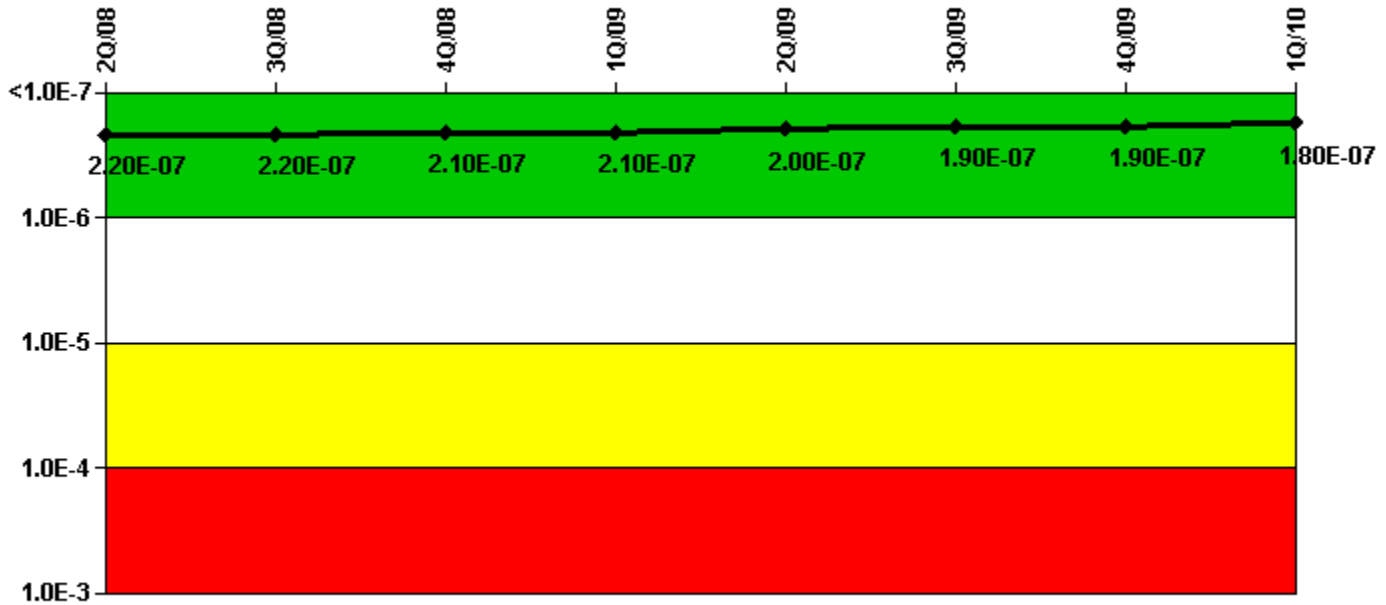
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-5.24E-10	-5.15E-10	-4.42E-10	-4.22E-10	-5.28E-10	-6.64E-10	-2.18E-10	-1.56E-10
URI (Δ CDF)	-1.87E-08	-1.87E-08	-1.87E-08	-1.84E-08	-1.50E-08	-1.58E-08	-1.55E-08	-1.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.50E-08

Licensee Comments:

2Q/09: Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel.

1Q/07: Removed 2-RB-13.1A/B as monitored component due to low Birnbaum.

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)	-1.90E-08	-1.90E-08	-3.00E-08	-3.00E-08	-1.97E-08	-1.91E-08	-1.91E-08	-2.76E-08
URI (Δ CDF)	2.37E-07	2.37E-07	2.37E-07	2.37E-07	2.18E-07	2.14E-07	2.10E-07	2.06E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.20E-07	2.20E-07	2.10E-07	2.10E-07	2.00E-07	1.90E-07	1.90E-07	1.80E-07

Licensee Comments:

2Q/09: Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel. Revised operational estimates to reflect plant data.

1Q/09: Risk Cap Invoked.

4Q/08: Risk Cap Invoked.

3Q/08: Risk Cap Invoked.

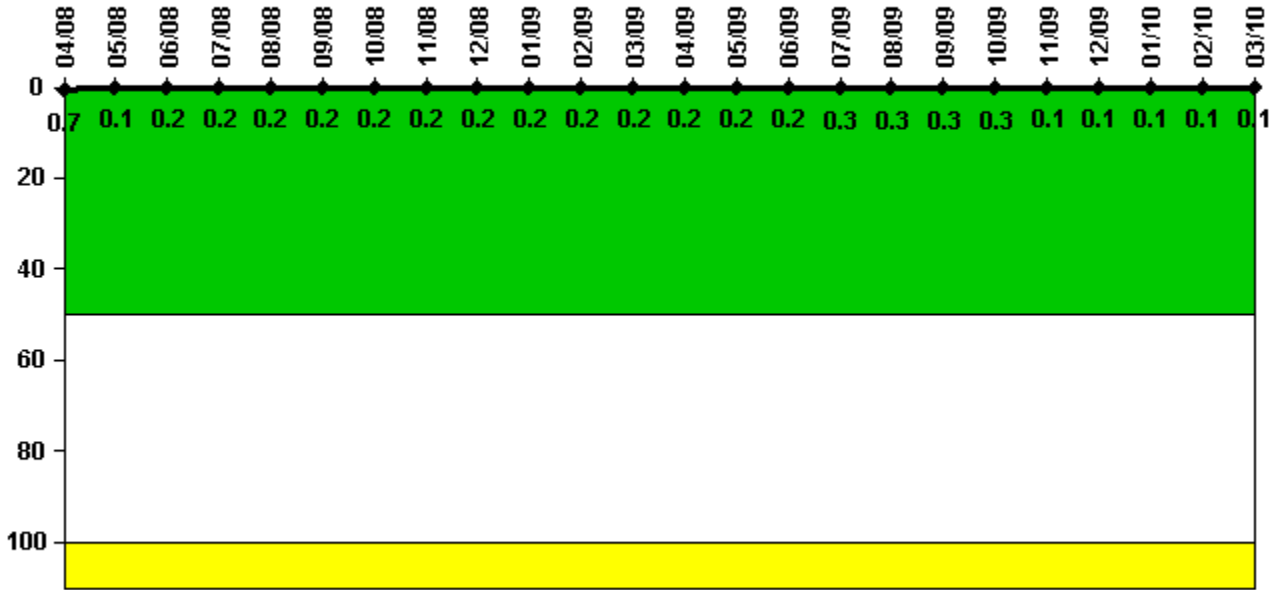
2Q/08: Risk Cap Invoked.

1Q/08: Risk Cap Invoked.

4Q/07: Risk Cap Invoked.

4Q/06: Changed PRA Parameter(s). During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

Reactor Coolant System Activity



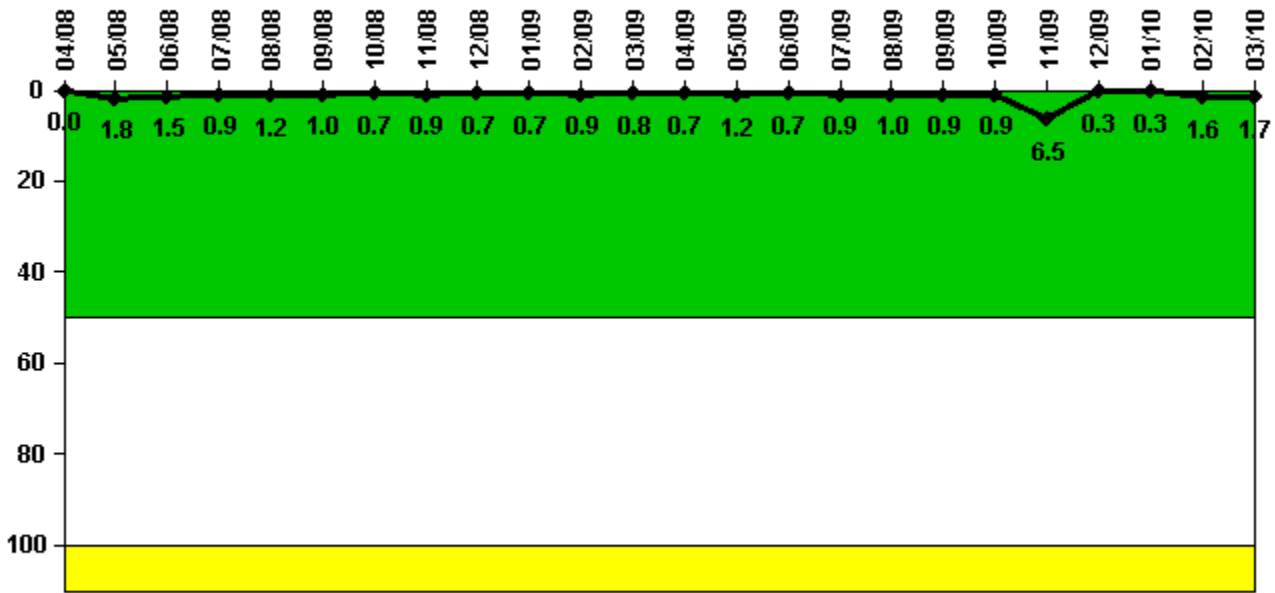
Thresholds: White > 50.0 Yellow > 100.0

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	0.007390	0.001390	0.001550	0.001610	0.001690	0.001720	0.001800	0.001870	0.001900	0.002040	0.002070	0.002360
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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	0.002300	0.002340	0.002490	0.002530	0.002720	0.002860	0.003270	0.001110	0.001170	0.001260	0.001300	0.001470
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



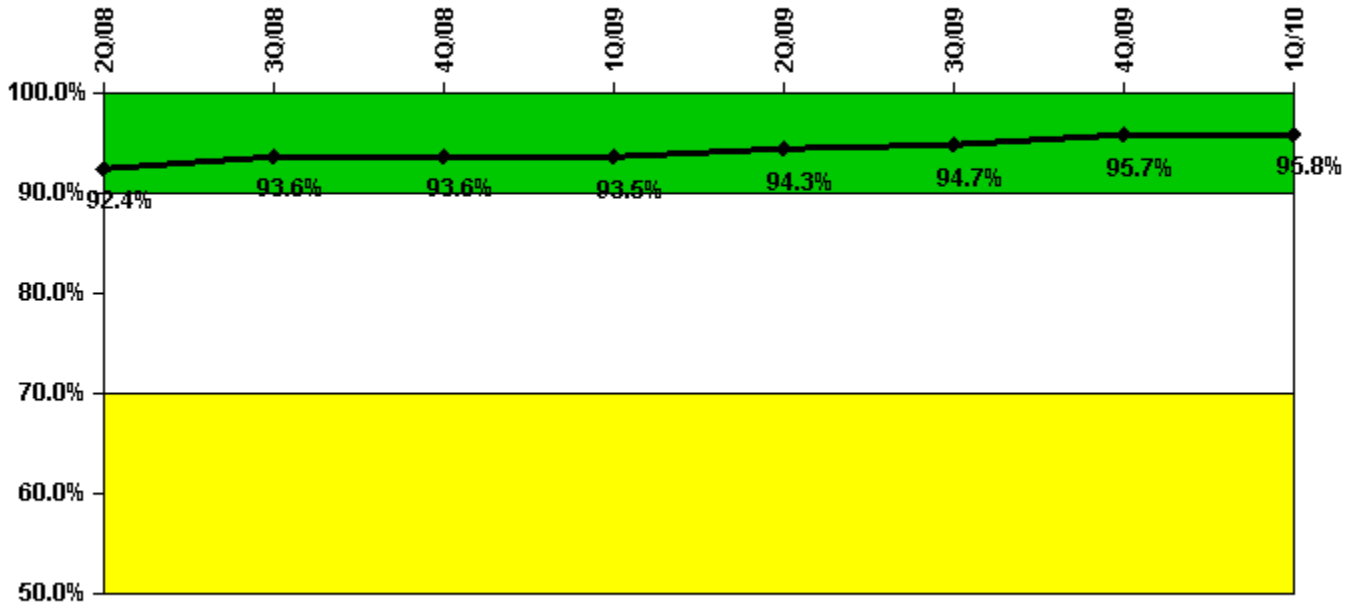
Thresholds: White > 50.0 Yellow > 100.0

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	0.004	0.180	0.145	0.093	0.124	0.096	0.067	0.092	0.069	0.073	0.085	0.080
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	0	1.8	1.5	0.9	1.2	1.0	0.7	0.9	0.7	0.7	0.9	0.8
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	0.067	0.117	0.069	0.091	0.098	0.086	0.085	0.647	0.032	0.027	0.162	0.172
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	0.7	1.2	0.7	0.9	1.0	0.9	0.9	6.5	0.3	0.3	1.6	1.7

Licensee Comments: none

Drill/Exercise Performance



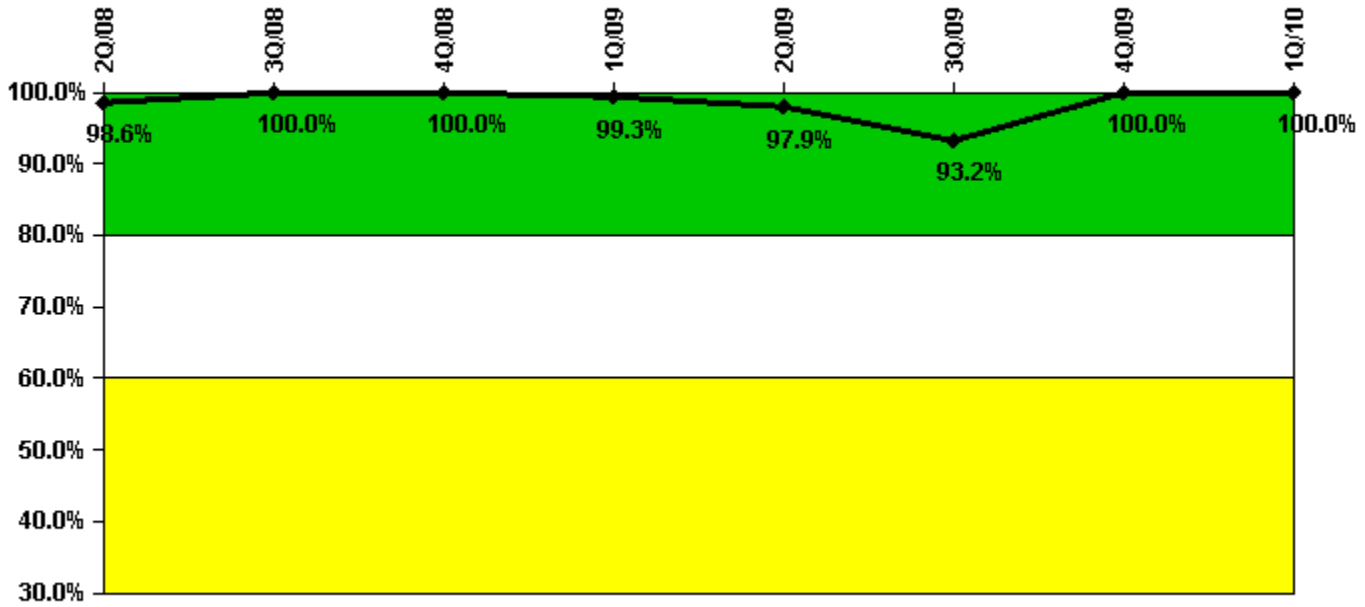
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	38.0	57.0	0	23.0	48.0	50.0	36.0	47.0
Total opportunities	41.0	59.0	0	26.0	49.0	51.0	37.0	49.0
Indicator value	92.4%	93.6%	93.6%	93.5%	94.3%	94.7%	95.7%	95.8%

License Comments: none

ERO Drill Participation



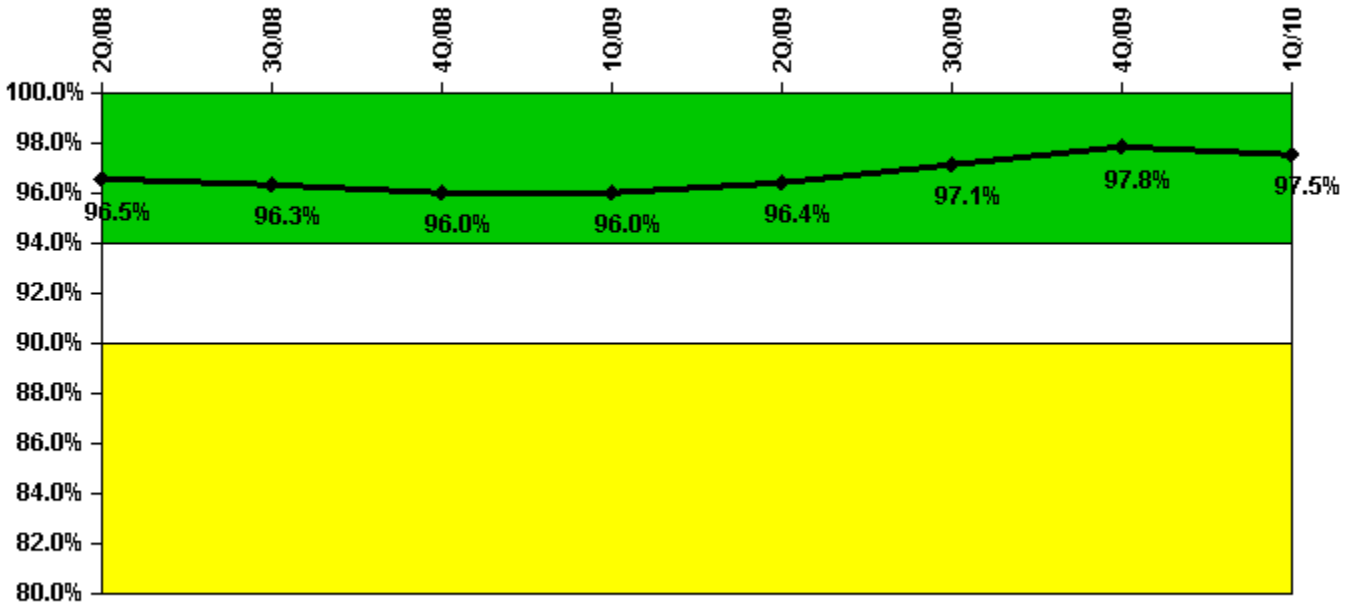
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	144.0	147.0	145.0	142.0	140.0	136.0	145.0	139.0
Total Key personnel	146.0	147.0	145.0	143.0	143.0	146.0	145.0	139.0
Indicator value	98.6%	100.0%	100.0%	99.3%	97.9%	93.2%	100.0%	100.0%

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	304	450	304	316	310	459	314	312
Total sirens-tests	318	477	318	318	318	477	318	318
Indicator value	96.5%	96.3%	96.0%	96.0%	96.4%	97.1%	97.8%	97.5%

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	0	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	0	0	0

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.