

Millstone 3

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



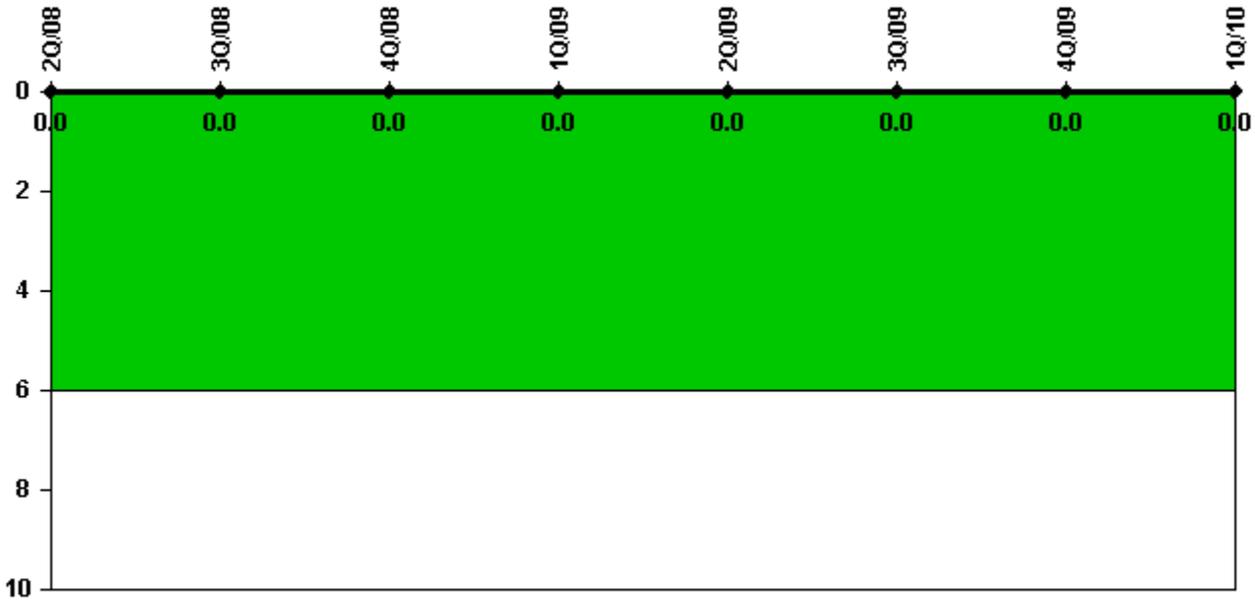
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	1.0	0
Critical hours	2184.0	2208.0	1194.9	2159.0	2184.0	2208.0	1919.9	2048.7
Indicator value	0	0	0.9	0.9	0.9	0.9	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



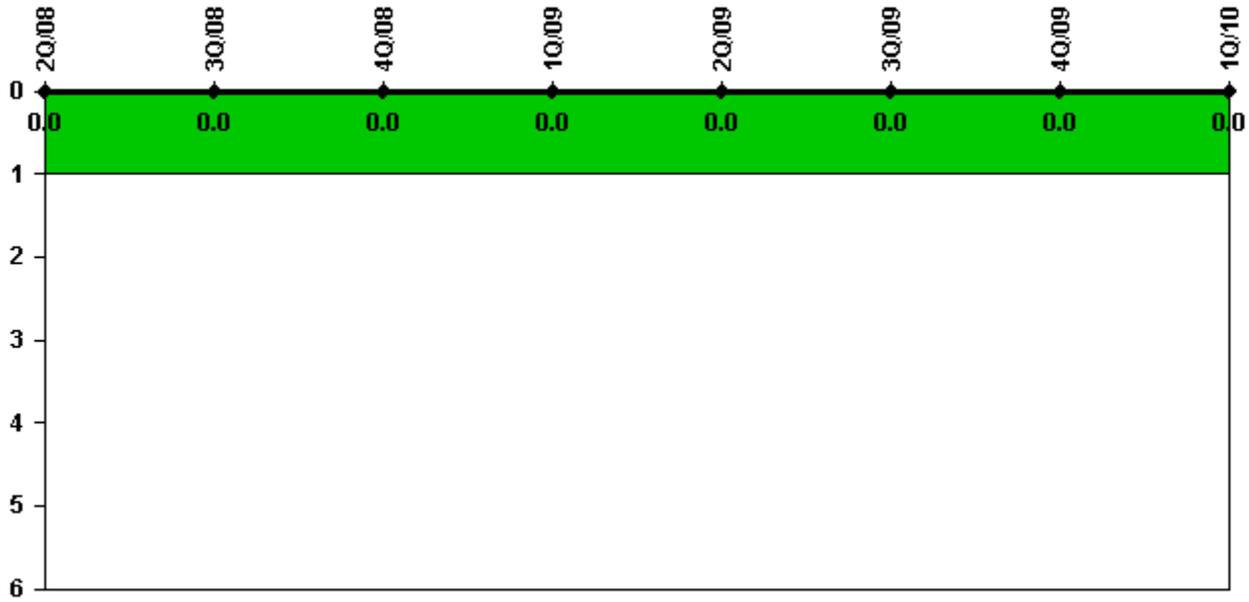
Thresholds: White > 6.0

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	0	0
Critical hours	2184.0	2208.0	1194.9	2159.0	2184.0	2208.0	1919.9	2048.7
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



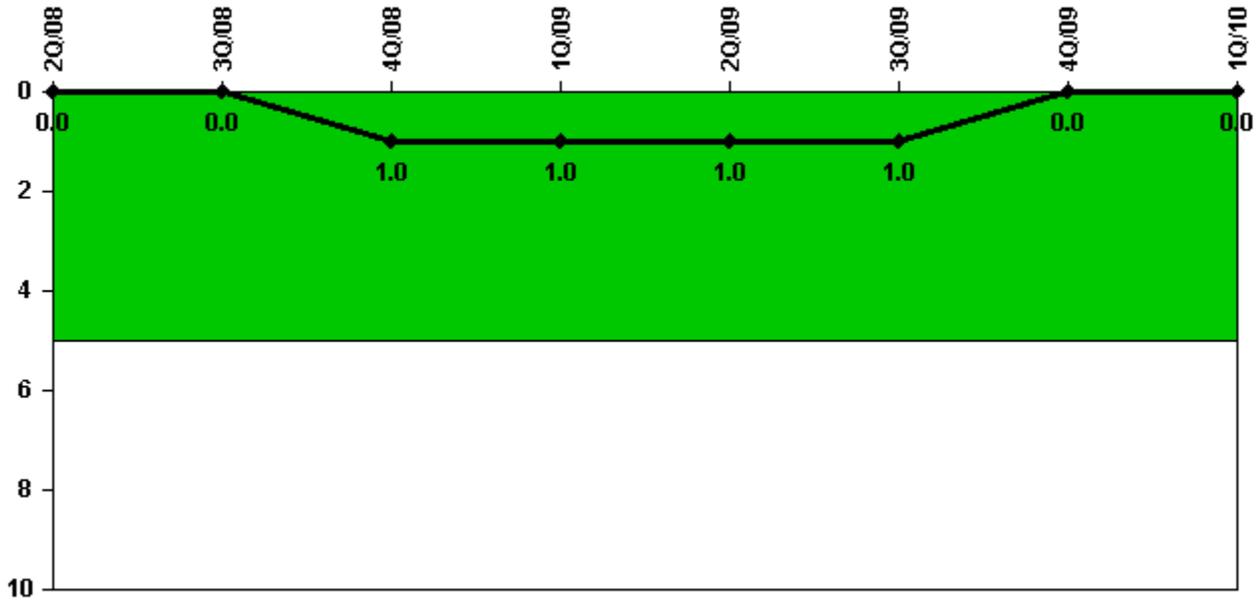
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Scrams with complications	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)



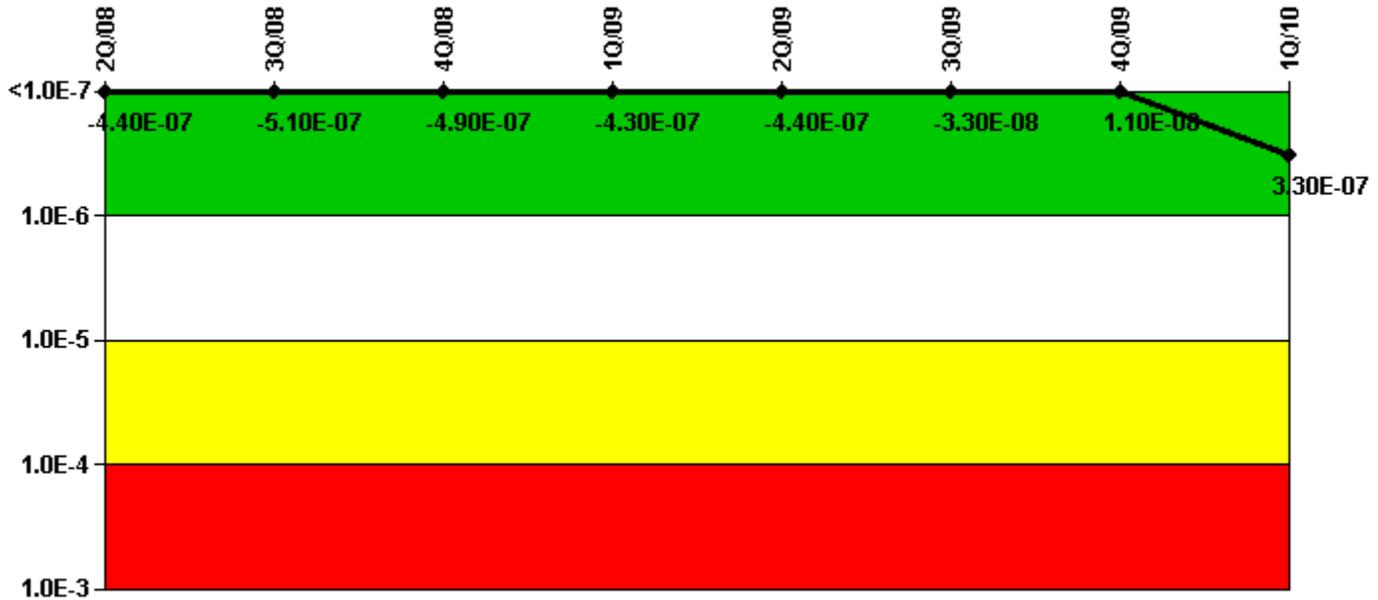
Thresholds: White > 5.0

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	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

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 (ΔCDF)	1.34E-07	7.53E-08	9.39E-08	1.01E-07	9.97E-08	5.70E-08	1.08E-07	7.84E-08
URI (ΔCDF)	-5.72E-07	-5.83E-07	-5.79E-07	-5.29E-07	-5.38E-07	-9.01E-08	-9.75E-08	2.47E-07
PLE	NO	NO						
Indicator value	-4.40E-07	-5.10E-07	-4.90E-07	-4.30E-07	-4.40E-07	-3.30E-08	1.10E-08	3.30E-07

Licensee Comments:

1Q/10: Two issues on the diesel are being reviewed for MSPI impact. This review will be completed in the 2nd qtr.

3Q/09: Revised PRA values based on PRA model revision dated 4/09. This was a periodic PRA model update.

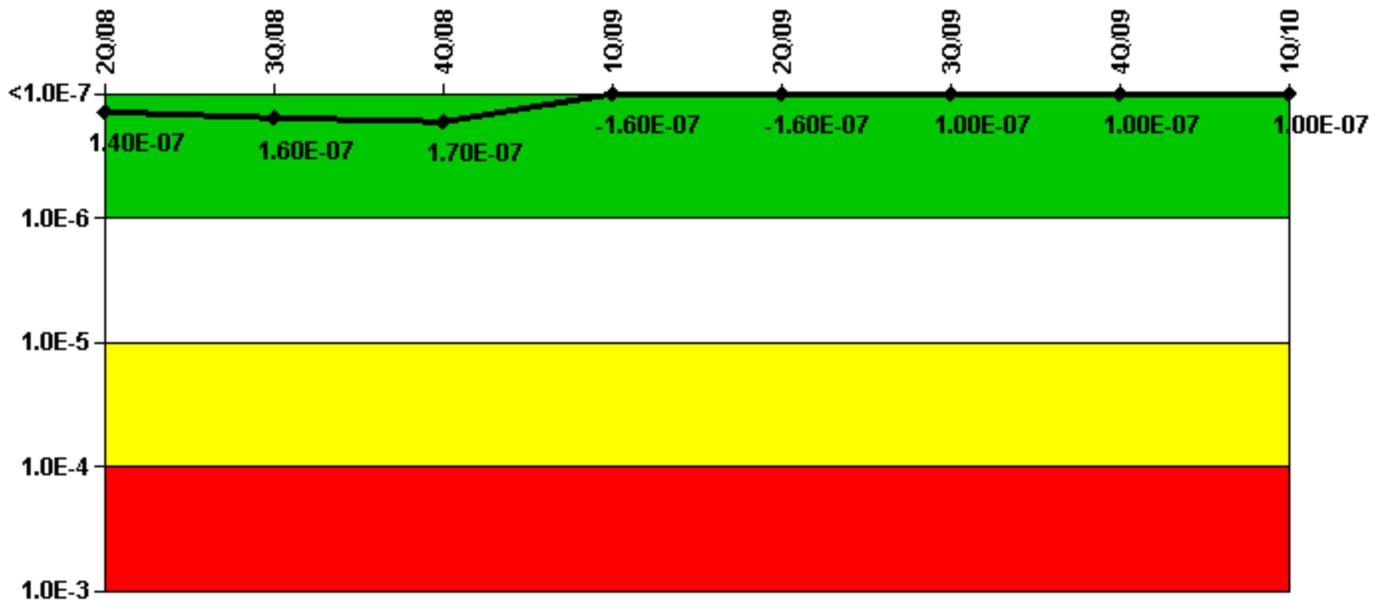
1Q/09: Changed the baseline for only 1 overhaul in 3 yr period. 'A' diesel effective 4th qtr 08 & 'B' diesel effective 2nd qtr 2008. The diesel remains within the green band.

4Q/07: PRA model updated in 3rd qtr and incorporated into the 4th qtr data per NEI 99-02. The baseline unavailability was changed based on 2 overhauls in 3 year period and changes to the maintenance practices.

1Q/07: Adjusted baseline unavailability based on diesel overhauls.

3Q/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)	1.72E-08	2.89E-08	2.89E-08	1.43E-08	1.06E-08	-5.06E-09	-9.58E-09	-1.09E-08
URI (Δ CDF)	1.24E-07	1.30E-07	1.37E-07	-1.75E-07	-1.71E-07	1.07E-07	1.09E-07	1.12E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	1.60E-07	1.70E-07	-1.60E-07	-1.60E-07	1.00E-07	1.00E-07	1.00E-07

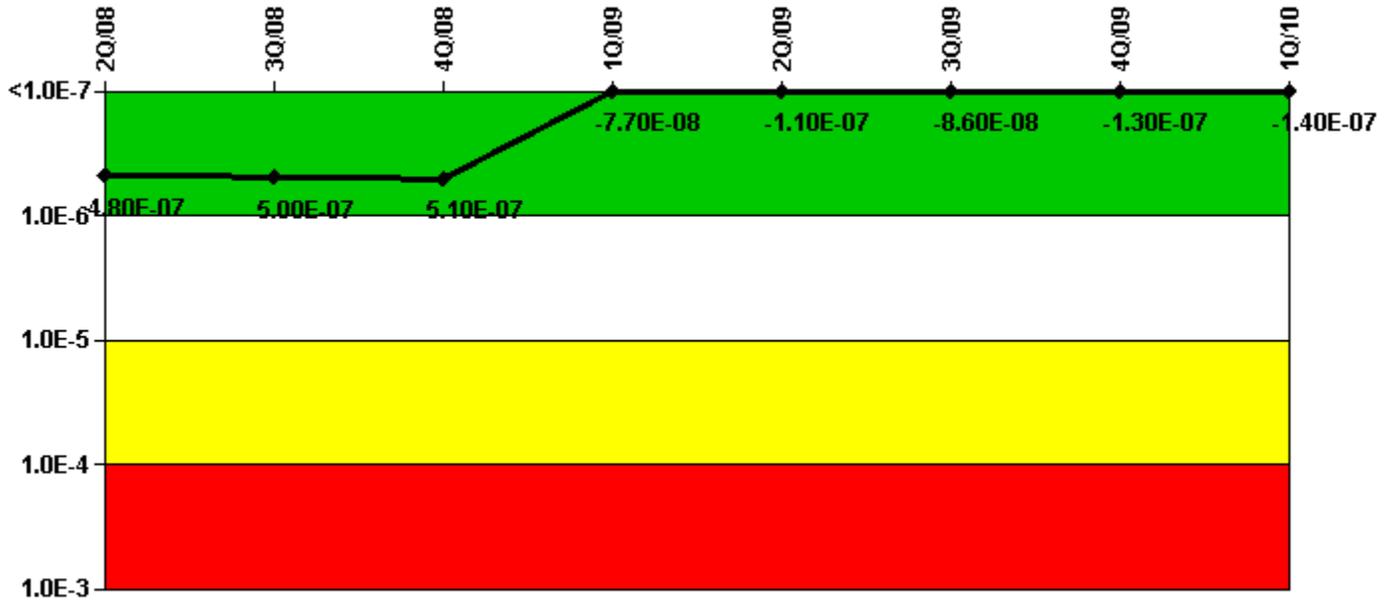
Licensee Comments:

3Q/09: Revised PRA values based on PRA model revision dated 4/09. This was a periodic PRA model update.

4Q/07: PRA model updated in 3rd qtr and incorporated into the 4th qtr data per NEI 99-02. Updated the HPSI estimates based on changes in operational practices.

1Q/07: Adjusted demand estimates based on change of greater than 25%.

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)	1.18E-07	1.40E-07	1.39E-07	3.66E-08	-4.88E-10	3.35E-09	-4.06E-08	-5.13E-08
URI (Δ CDF)	3.63E-07	3.64E-07	3.75E-07	-1.14E-07	-1.14E-07	-8.95E-08	-9.26E-08	-9.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.80E-07	5.00E-07	5.10E-07	-7.70E-08	-1.10E-07	-8.60E-08	-1.30E-07	-1.40E-07

Licensee Comments:

3Q/09: Revised PRA values based on PRA model revision dated 4/09. This was a periodic PRA model update.

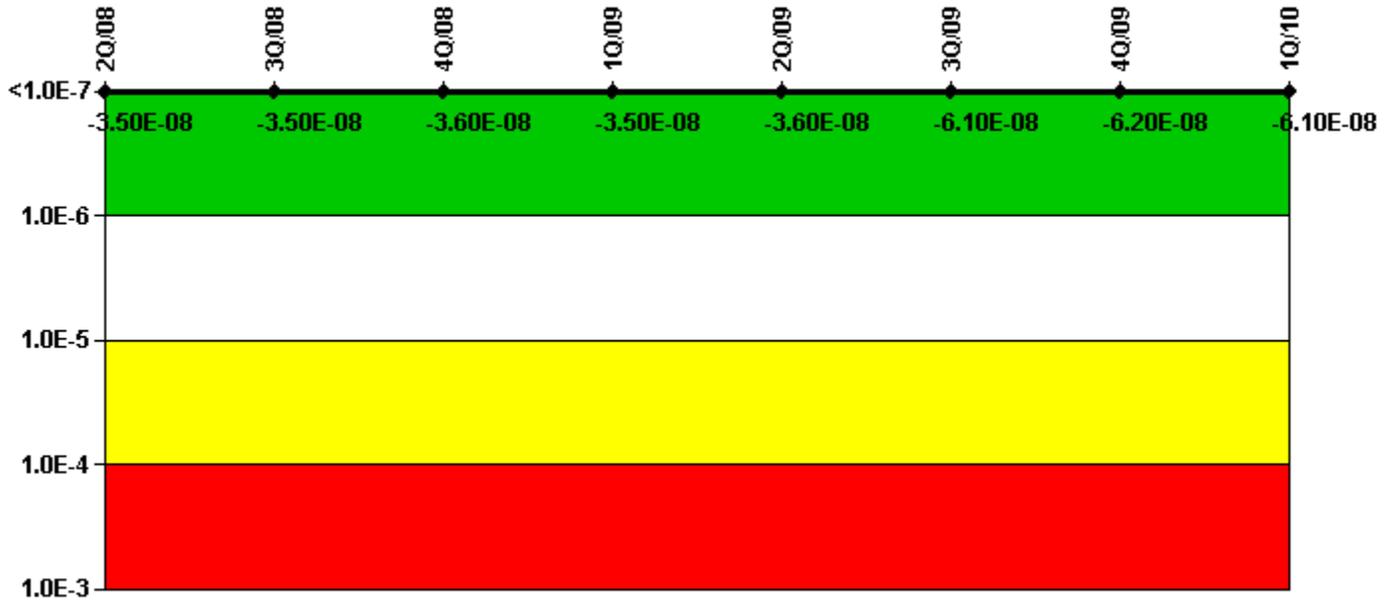
4Q/08: Risk Cap Invoked.

4Q/07: PRA model updated in 3rd qtr and incorporated into the 4th qtr data per NEI 99-02.

4Q/06: Changed PRA Parameter(s).

3Q/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)	-9.77E-09	-9.77E-09	-9.77E-09	-9.77E-09	-9.77E-09	-1.74E-08	-1.74E-08	-1.74E-08
URI (Δ CDF)	-2.51E-08	-2.53E-08	-2.65E-08	-2.56E-08	-2.60E-08	-4.40E-08	-4.46E-08	-4.40E-08
PLE	NO							
Indicator value	-3.50E-08	-3.50E-08	-3.60E-08	-3.50E-08	-3.60E-08	-6.10E-08	-6.20E-08	-6.10E-08

Licensee Comments:

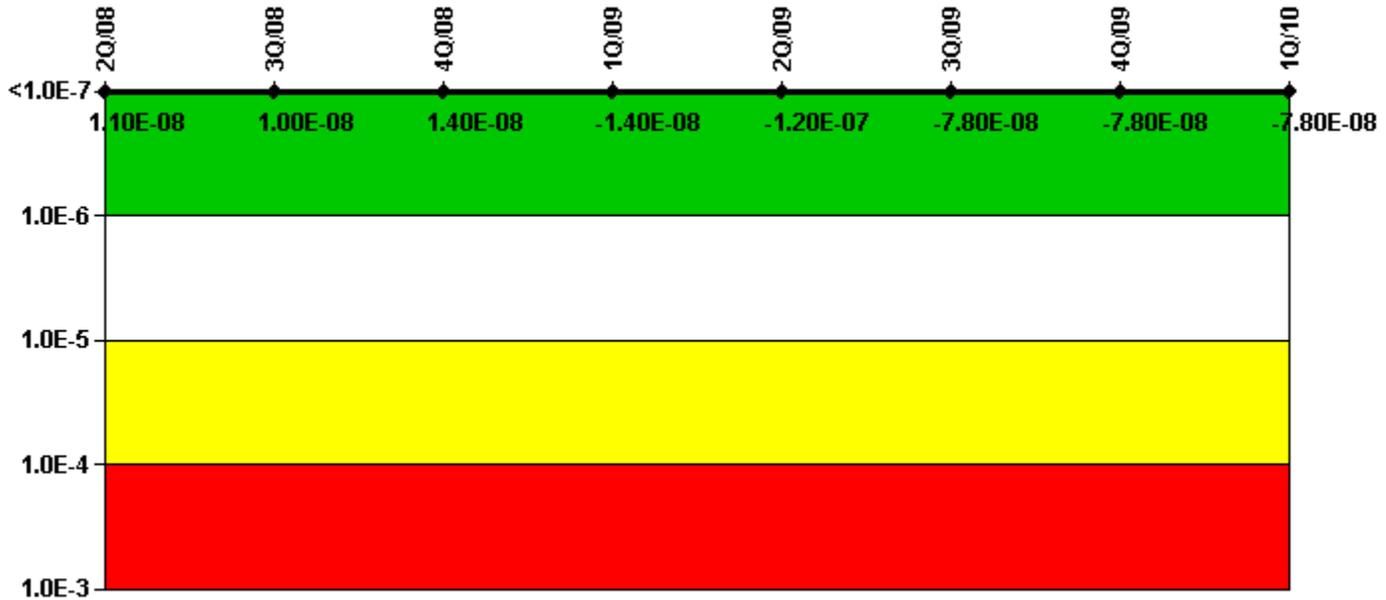
3Q/09: Revised PRA values based on PRA model revision dated 4/09. This was a periodic PRA model update.

4Q/07: PRA model updated in 3rd qtr and incorporated into the 4th qtr data per NEI 99-02.

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.

3Q/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, 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)	3.57E-08	3.50E-08	3.91E-08	1.09E-08	-9.96E-08	-3.52E-08	-3.50E-08	-3.55E-08
URI (Δ CDF)	-2.49E-08	-2.49E-08	-2.49E-08	-2.49E-08	-2.49E-08	-4.27E-08	-4.27E-08	-4.27E-08
PLE	NO							
Indicator value	1.10E-08	1.00E-08	1.40E-08	-1.40E-08	-1.20E-07	-7.80E-08	-7.80E-08	-7.80E-08

Licensee Comments:

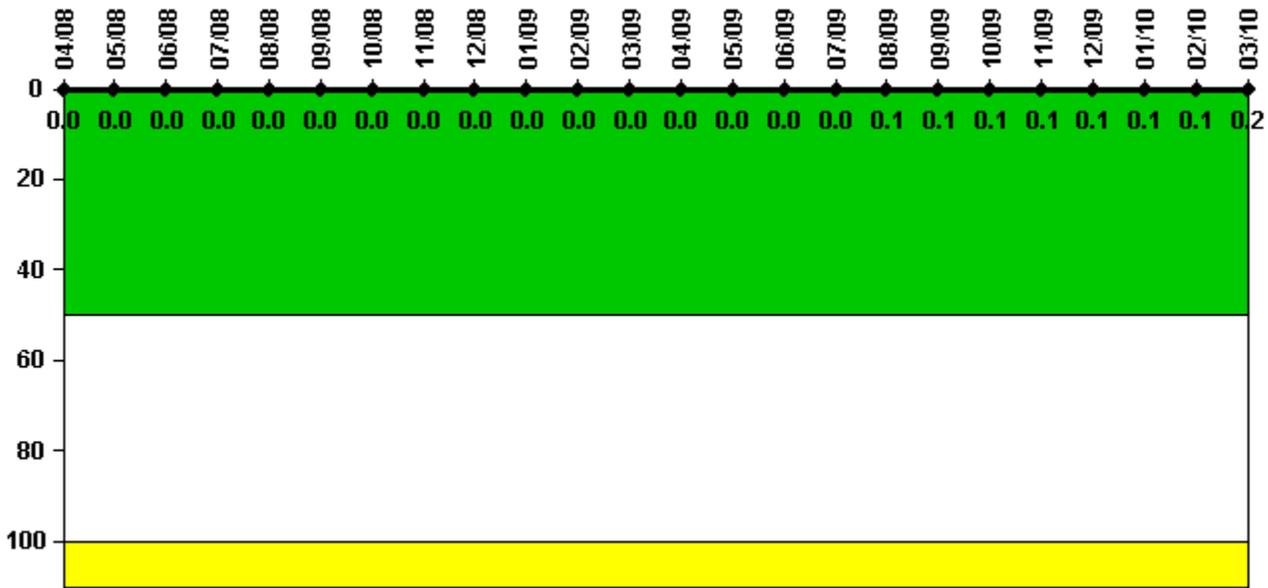
3Q/09: Revised PRA values based on PRA model revision dated 4/09. This was a periodic PRA model update.

4Q/07: PRA model updated in 3rd qtr and incorporated into the 4th qtr data per NEI 99-02.

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.

3Q/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.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

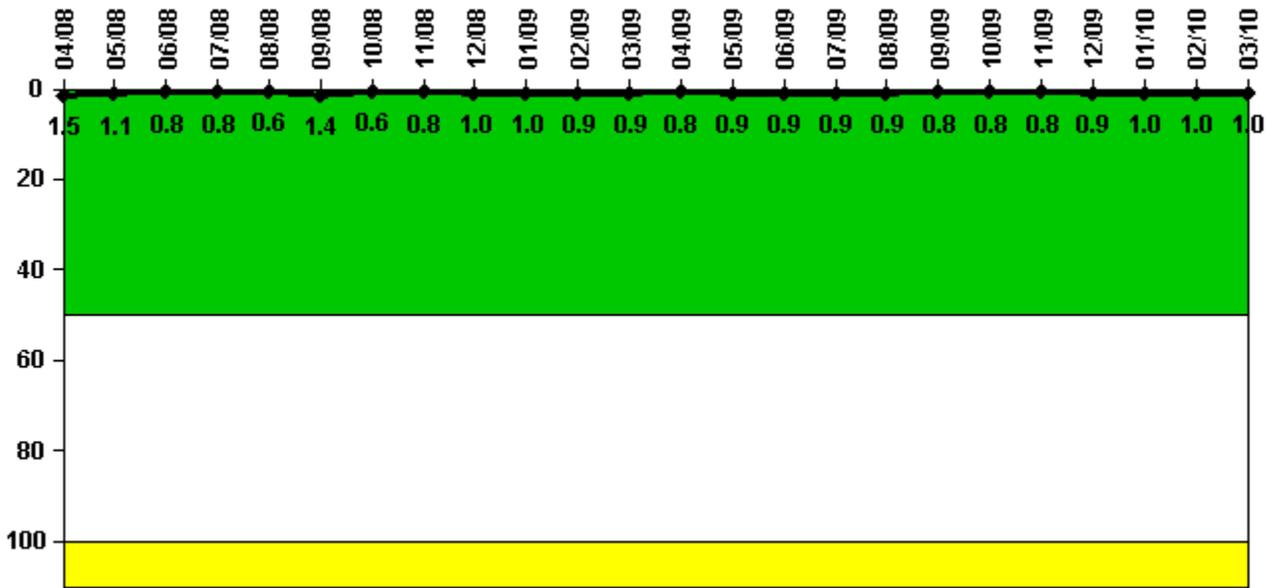
Notes

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	0.000343	0.000348	0.000345	0.000402	0.000398	0.000299	0.000299	0	0.000248	0.000251	0.000442	0.000326
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	0	0	0	0	0	0	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	0.000320	0.000339	0.000429	0.000436	0.000500	0.001033	0.000591	0.000583	0.000714	0.000775	0.000811	0.001900
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	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2

Licensee Comments: none

Reactor Coolant System Leakage



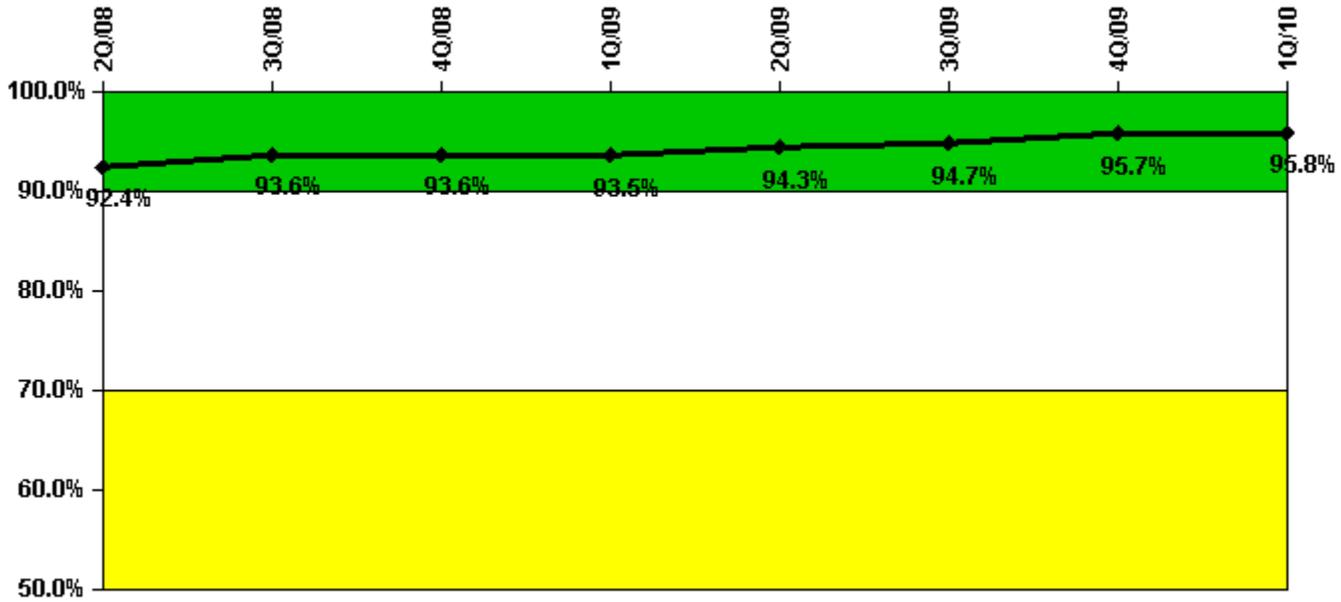
Thresholds: White > 50.0 Yellow > 100.0

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	0.147	0.111	0.078	0.077	0.063	0.144	0.058	0.083	0.096	0.102	0.087	0.093
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	1.5	1.1	0.8	0.8	0.6	1.4	0.6	0.8	1.0	1.0	0.9	0.9
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	0.082	0.087	0.091	0.087	0.085	0.076	0.077	0.084	0.086	0.100	0.101	0.096
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	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	1.0	1.0	1.0

Licensee Comments: none

Drill/Exercise Performance



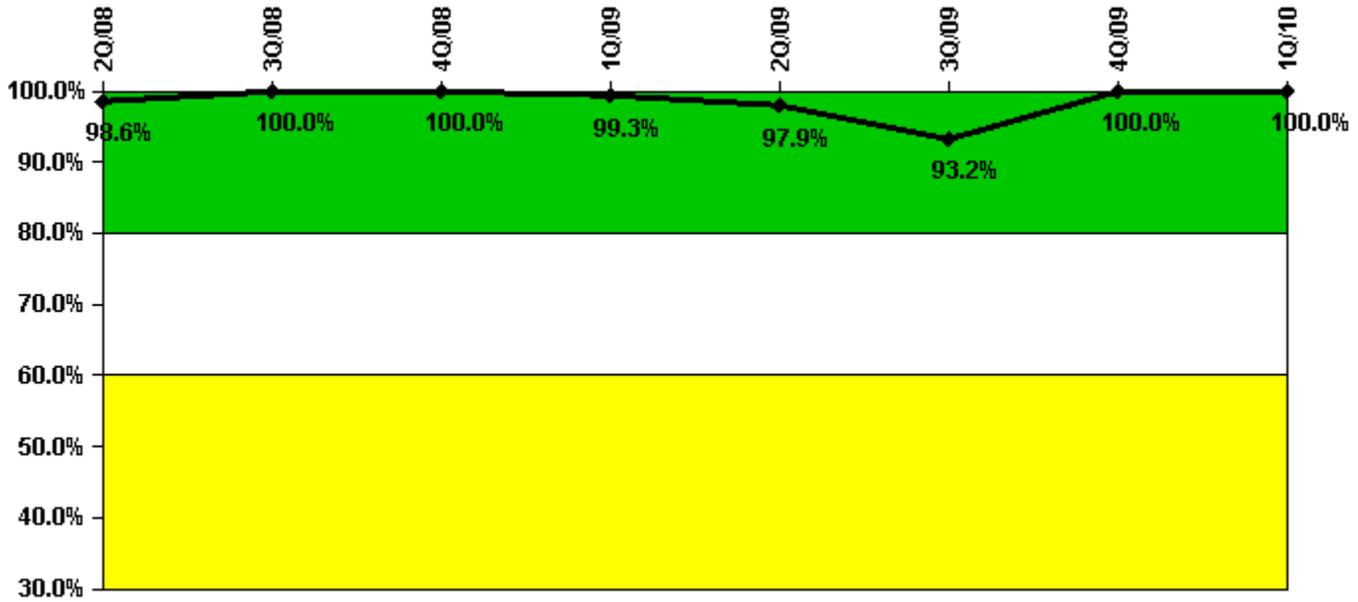
Thresholds: White < 90.0% Yellow < 70.0%

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



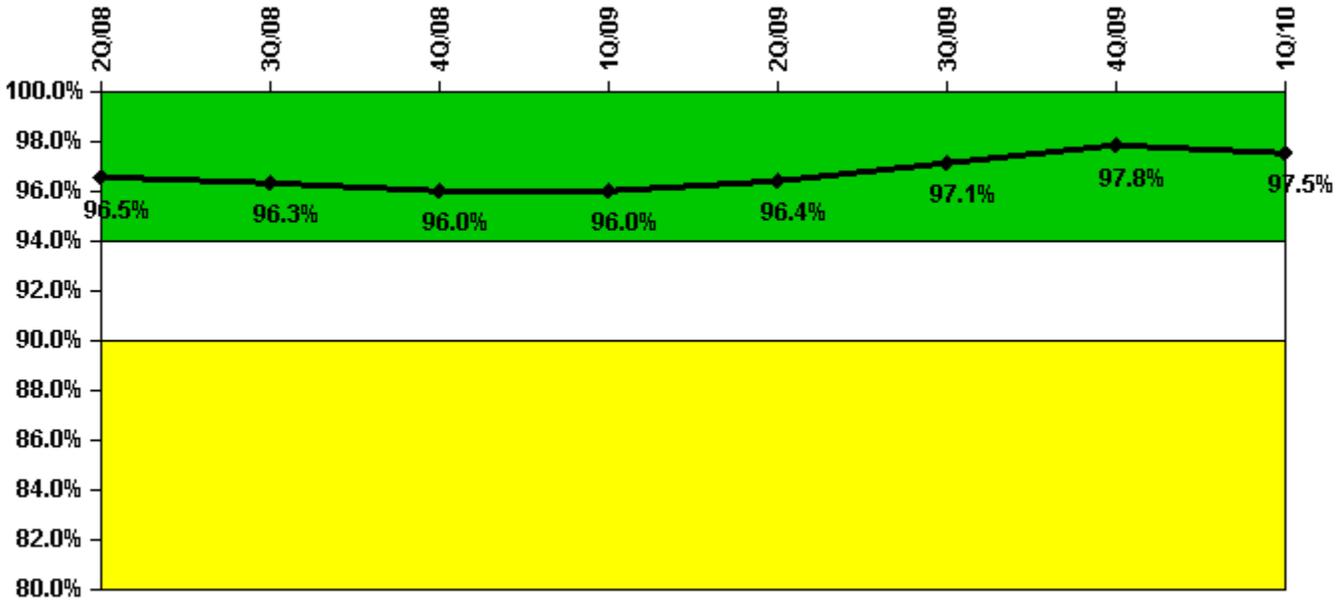
Thresholds: White < 80.0% Yellow < 60.0%

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



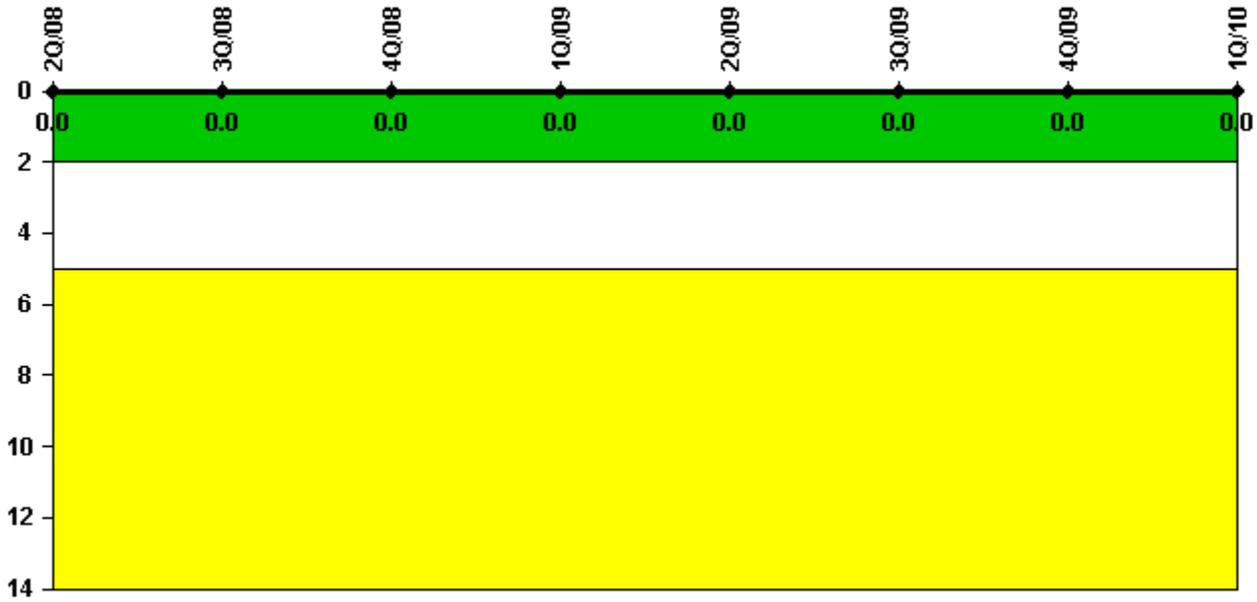
Thresholds: White < 94.0% Yellow < 90.0%

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



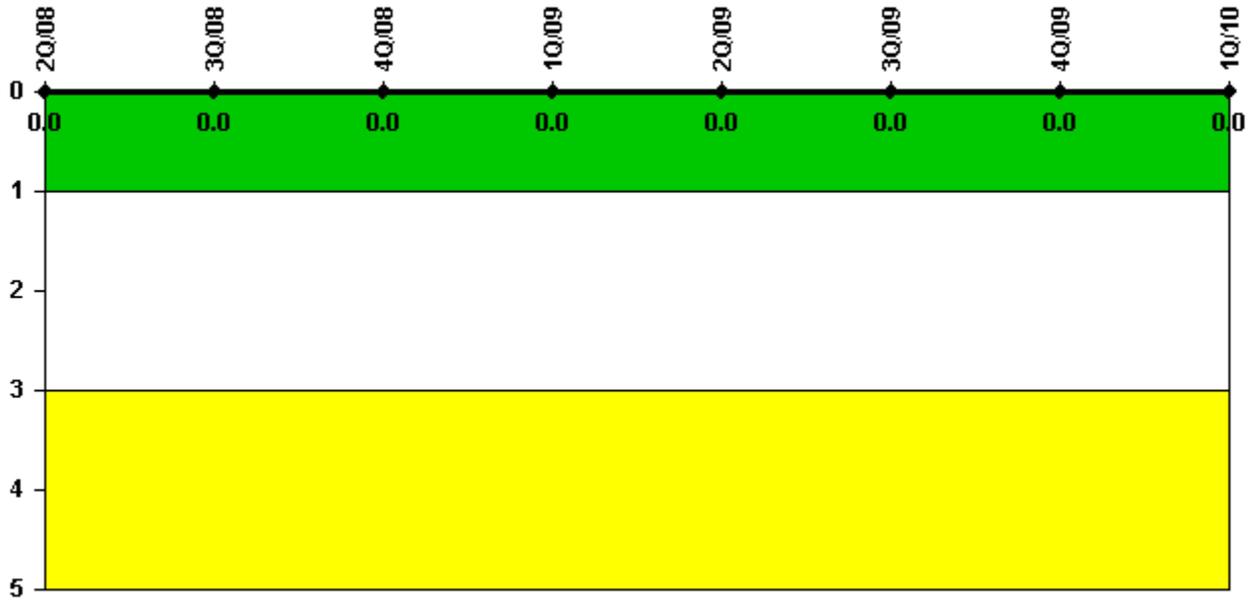
Thresholds: White > 2.0 Yellow > 5.0

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							

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.