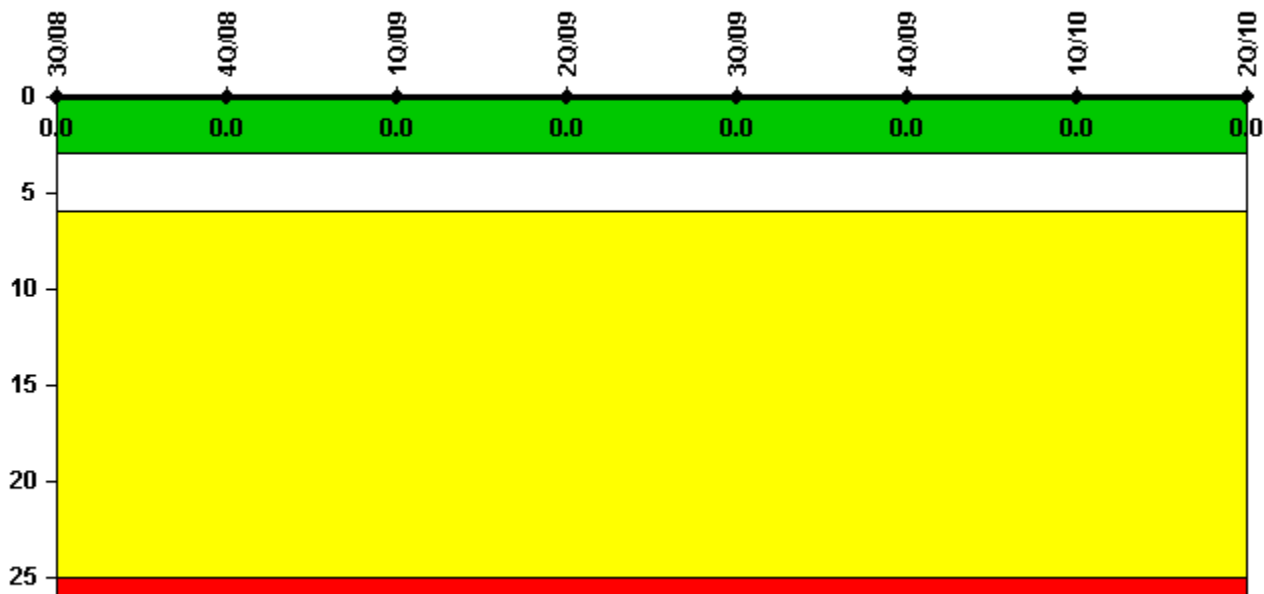


# Dresden 2

## 2Q/2010 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

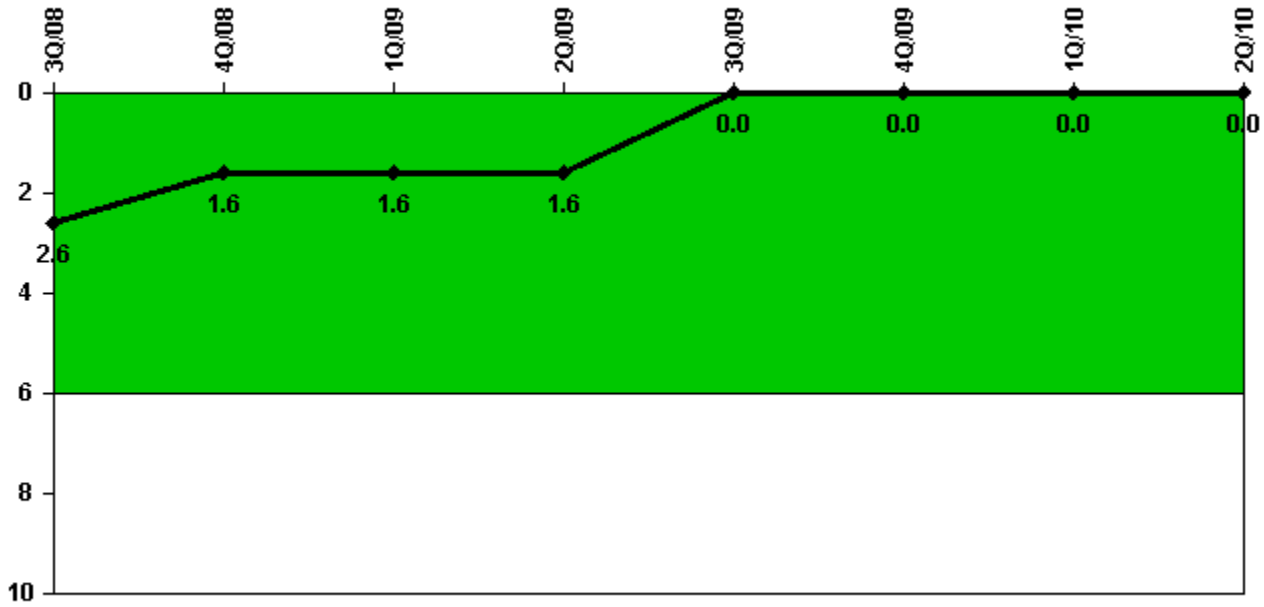
### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2087.4	2209.0	2159.0	2184.0	2208.0	1508.4	2159.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	2.0	0	0	0	0	0	0	0
Critical hours	2087.4	2209.0	2159.0	2184.0	2208.0	1508.4	2159.0	2184.0
Indicator value	2.6	1.6	1.6	1.6	0	0	0	0

Licensee Comments: none

## Unplanned Scrams with Complications



Thresholds: White > 1.0

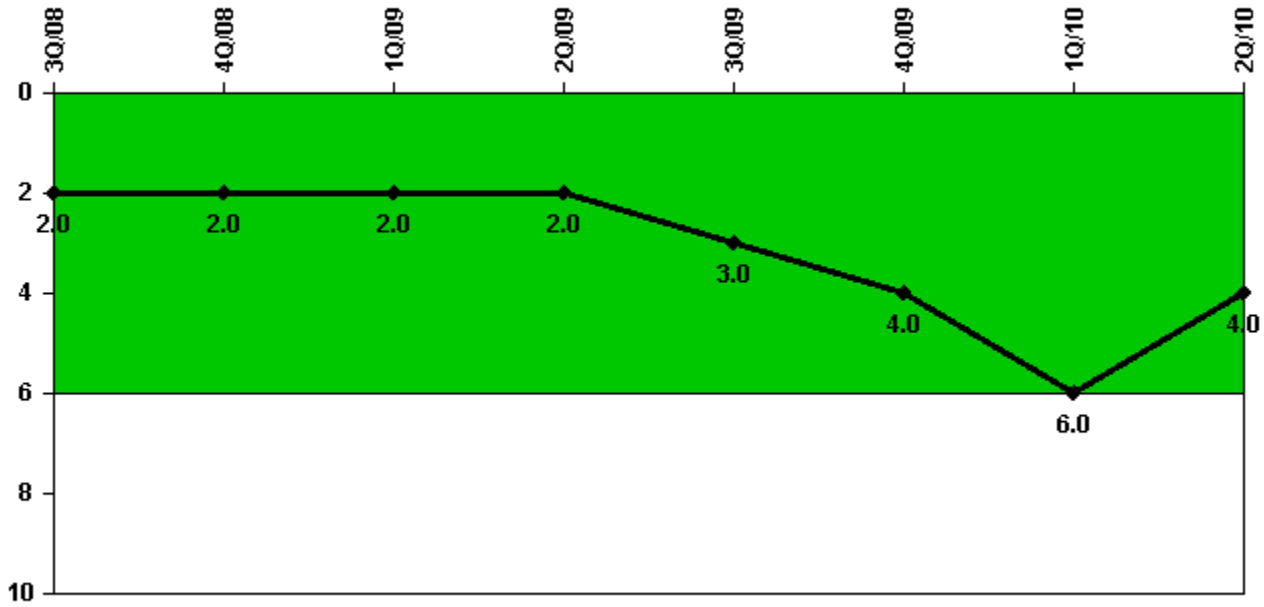
### Notes

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

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## Safety System Functional Failures (BWR)



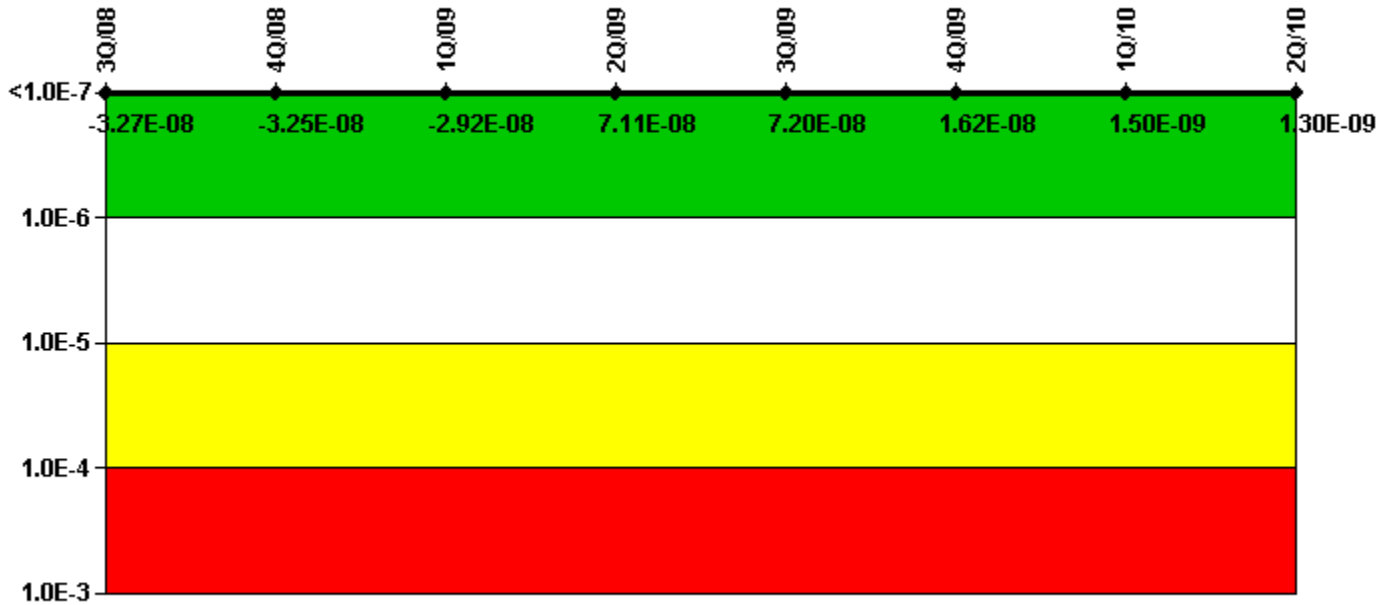
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Safety System Functional Failures	0	0	0	2	1	1	2	0
Indicator value	2	2	2	2	3	4	6	4

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



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

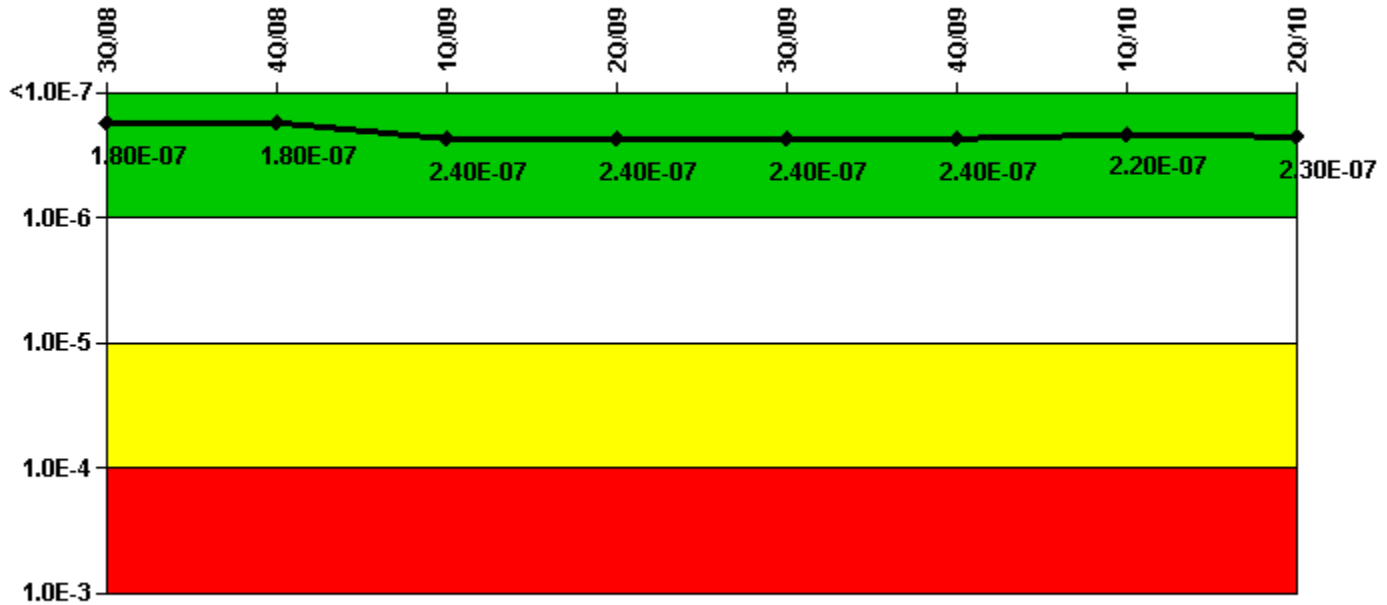
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	3.50E-10	5.20E-10	5.80E-09	8.10E-09	9.00E-09	1.40E-08	8.87E-10	4.83E-10
URI ( $\Delta$ CDF)	-3.30E-08	-3.30E-08	-3.50E-08	6.30E-08	6.30E-08	2.20E-09	5.99E-10	7.94E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.27E-08	-3.25E-08	-2.92E-08	7.11E-08	7.20E-08	1.62E-08	1.50E-09	1.30E-09

Licensee Comments:

1Q/10: A scheduled periodic update of the PRA models was performed in 2009 and completed on October 30, 2009. Separate PRA models exist for Unit 2 and 3, but the base PRA results for Units 2 and 3 are nearly identical. Therefore, the current MSPI calculations for Unit 2 are applied to Unit 3. CDE changes effective for the first quarter of 2010 were made to incorporate updated PRA coefficients and PRA Base Core Damage Frequency.

# Mitigating Systems Performance Index, High Pressure Injection System



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

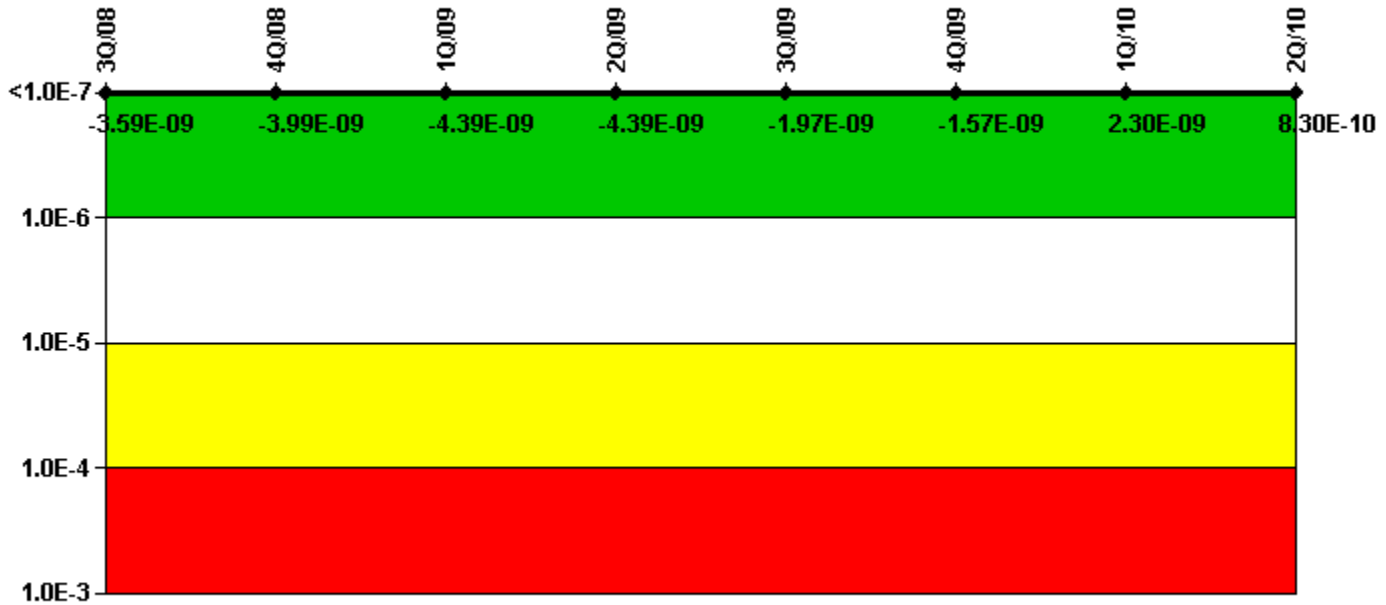
## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-3.63E-08	-3.63E-08
URI ( $\Delta$ CDF)	2.20E-07	2.20E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.54E-07	2.61E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.80E-07	1.80E-07	2.40E-07	2.40E-07	2.40E-07	2.40E-07	2.20E-07	2.30E-07

## Licensee Comments:

1Q/10: A scheduled periodic update of the PRA models was performed in 2009 and completed on October 30, 2009. Separate PRA models exist for Unit 2 and 3, but the base PRA results for Units 2 and 3 are nearly identical. Therefore, the current MSPI calculations for Unit 2 are applied to Unit 3. CDE changes effective for the first quarter of 2010 were made to incorporate updated PRA coefficients and PRA Base Core Damage Frequency.

# Mitigating Systems Performance Index, Heat Removal System



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

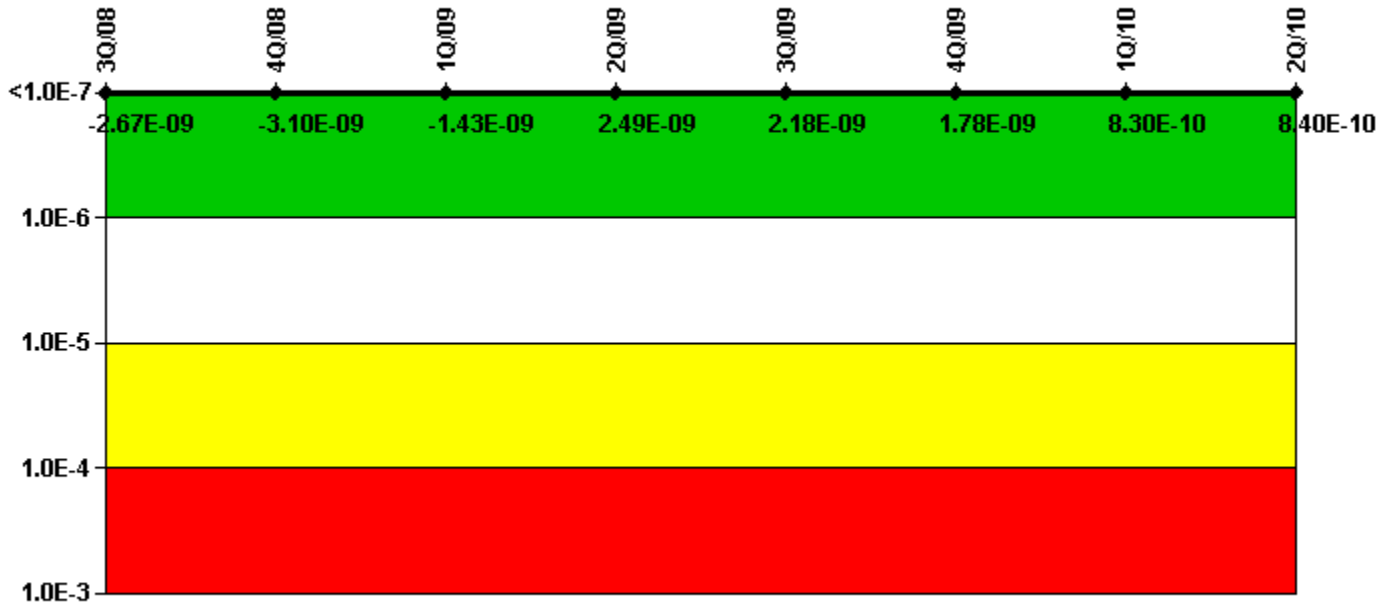
## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	-3.50E-09	-3.90E-09	-4.30E-09	-4.30E-09	-1.90E-09	-1.50E-09	2.40E-09	9.29E-10
URI ( $\Delta$ CDF)	-8.80E-11	-8.80E-11	-8.80E-11	-8.80E-11	-7.10E-11	-7.10E-11	-1.18E-10	-9.92E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.59E-09	-3.99E-09	-4.39E-09	-4.39E-09	-1.97E-09	-1.57E-09	2.30E-09	8.30E-10

## Licensee Comments:

1Q/10: A scheduled periodic update of the PRA models was performed in 2009 and completed on October 30, 2009. Separate PRA models exist for Unit 2 and 3, but the base PRA results for Units 2 and 3 are nearly identical. Therefore, the current MSPI calculations for Unit 2 are applied to Unit 3. CDE changes effective for the first quarter of 2010 were made to incorporate updated PRA coefficients and PRA Base Core Damage Frequency.

# Mitigating Systems Performance Index, Residual Heat Removal System



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

## Notes

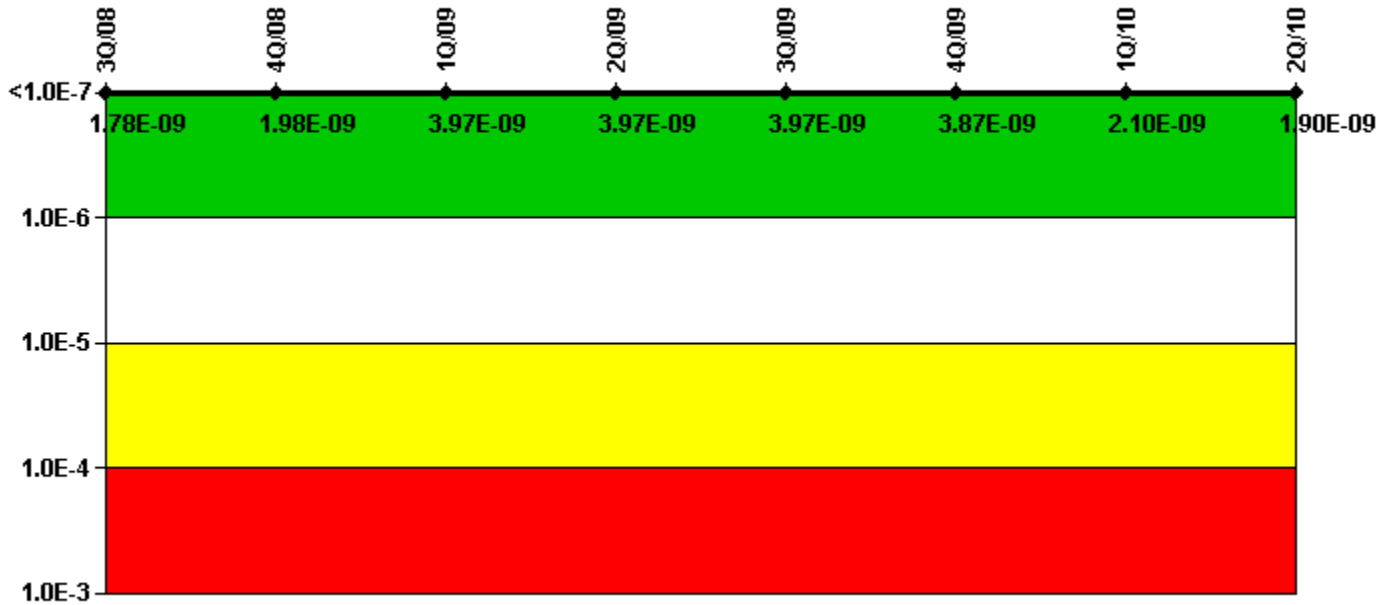
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	-7.70E-10	-1.20E-09	5.70E-10	8.90E-10	8.80E-10	6.80E-10	-3.39E-10	-3.39E-10
URI ( $\Delta$ CDF)	-1.90E-09	-1.90E-09	-2.00E-09	1.60E-09	1.30E-09	1.10E-09	1.17E-09	1.18E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.67E-09	-3.10E-09	-1.43E-09	2.49E-09	2.18E-09	1.78E-09	8.30E-10	8.40E-10

Licensee Comments:

1Q/10: A scheduled periodic update of the PRA models was performed in 2009 and completed on October 30, 2009. Separate PRA models exist for Unit 2 and 3, but the base PRA results for Units 2 and 3 are nearly identical. Therefore, the current MSPI calculations for Unit 2 are applied to Unit 3. CDE changes effective for the first quarter of 2010 were made to incorporate updated PRA coefficients and PRA Base Core Damage Frequency.



# Mitigating Systems Performance Index, Cooling Water Systems



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

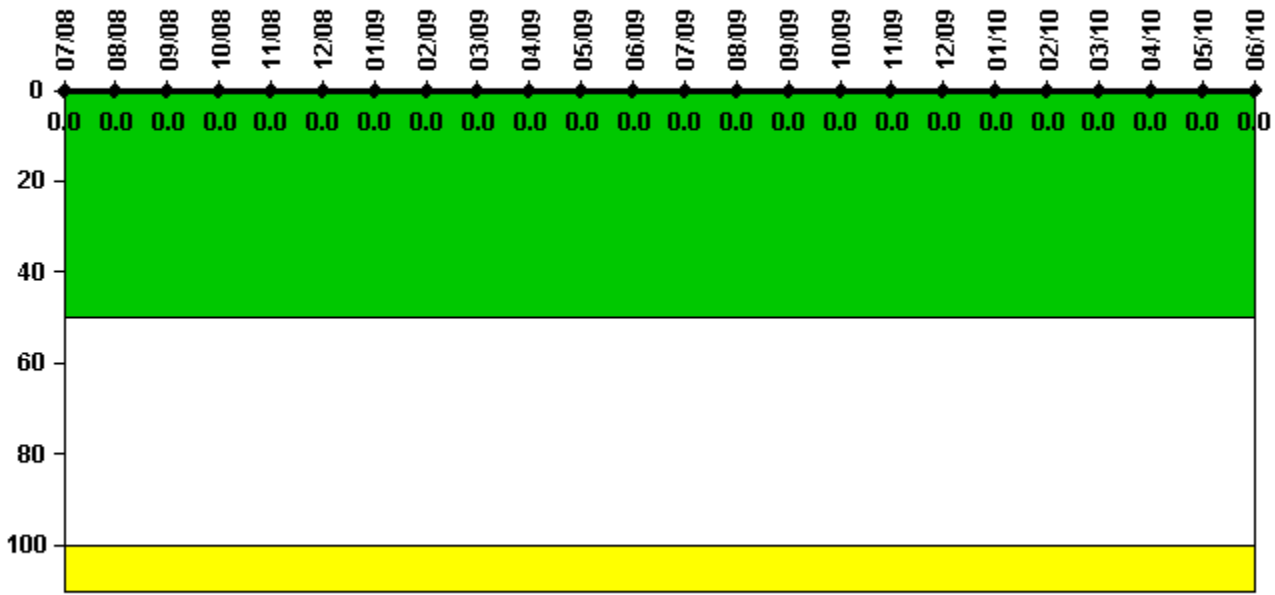
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	1.80E-09	2.00E-09	4.00E-09	4.00E-09	4.00E-09	3.90E-09	2.09E-09	1.90E-09
URI ( $\Delta$ CDF)	-2.50E-11	-2.50E-11	-2.60E-11	-2.70E-11	-2.90E-11	-3.00E-11	-1.56E-11	-1.56E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.78E-09	1.98E-09	3.97E-09	3.97E-09	3.97E-09	3.87E-09	2.10E-09	1.90E-09

Licensee Comments:

1Q/10: A scheduled periodic update of the PRA models was performed in 2009 and completed on October 30, 2009. Separate PRA models exist for Unit 2 and 3, but the base PRA results for Units 2 and 3 are nearly identical. Therefore, the current MSPI calculations for Unit 2 are applied to Unit 3. CDE changes effective for the first quarter of 2010 were made to incorporate updated PRA coefficients and PRA Base Core Damage Frequency.

# Reactor Coolant System Activity



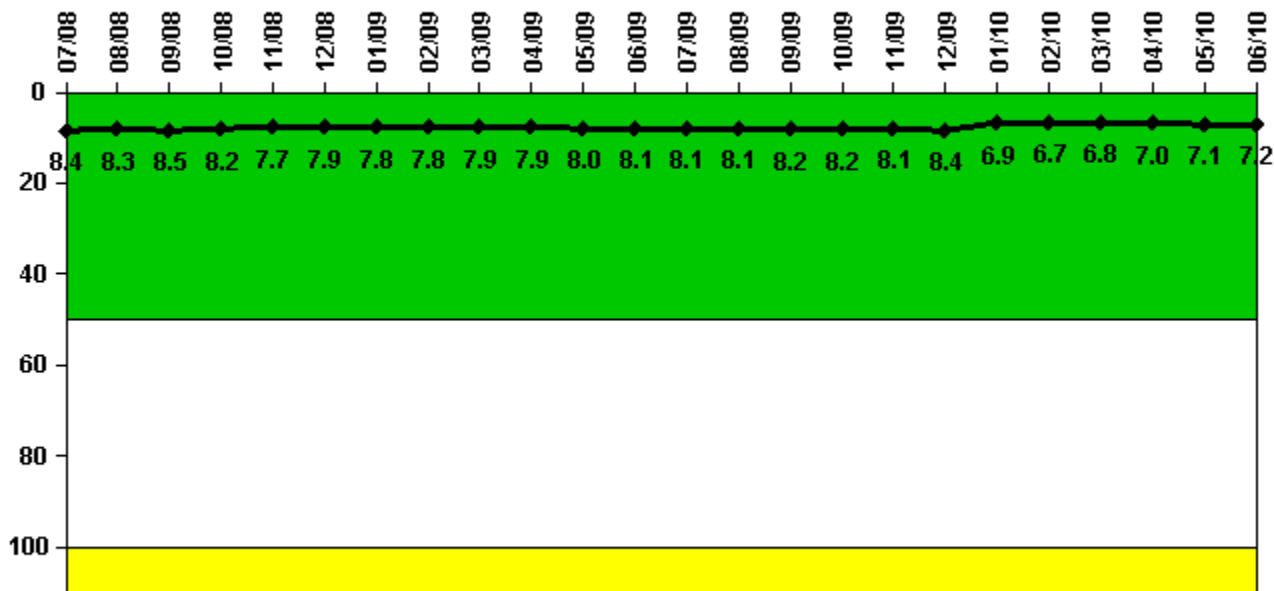
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.000002	0.000003	0.000002	0.000003	0.000003	0.000003	0.000002	0.000002	0.000003	0.000003	0.000003	0.000003
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.000003	0.000003	0.000003	0.000003	0.000009	0.000003	0.000003	0.000002	0.000003	0.000002	0.000003	0.000003
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

## Reactor Coolant System Leakage



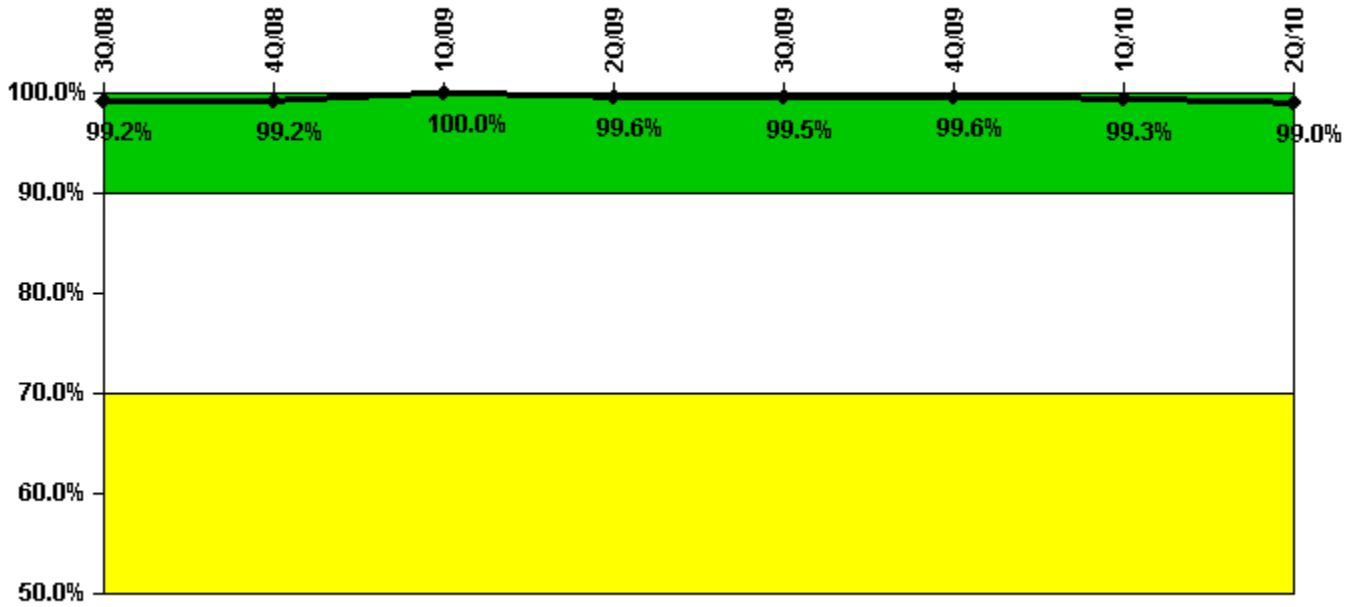
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	2.105	2.083	2.115	2.045	1.928	1.973	1.942	1.950	1.980	1.975	1.992	2.015
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	8.4	8.3	8.5	8.2	7.7	7.9	7.8	7.8	7.9	7.9	8.0	8.1
Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	2.017	2.023	2.042	2.040	2.018	2.100	1.718	1.685	1.707	1.745	1.778	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	8.1	8.1	8.2	8.2	8.1	8.4	6.9	6.7	6.8	7.0	7.1	7.2

Licensee Comments: none

## Drill/Exercise Performance



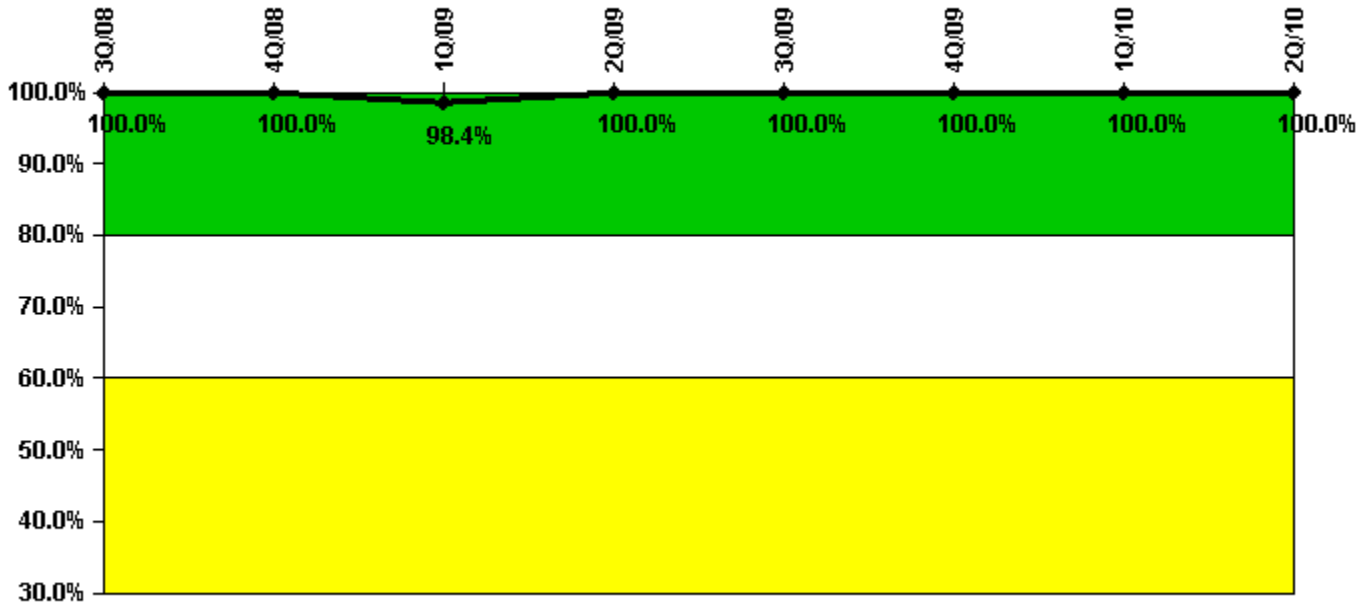
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	40.0	24.0	46.0	33.0	36.0	34.0	41.0	39.0
Total opportunities	40.0	24.0	46.0	34.0	36.0	34.0	42.0	40.0
Indicator value	99.2%	99.2%	100.0%	99.6%	99.5%	99.6%	99.3%	99.0%

Licensee Comments: none

# ERO Drill Participation



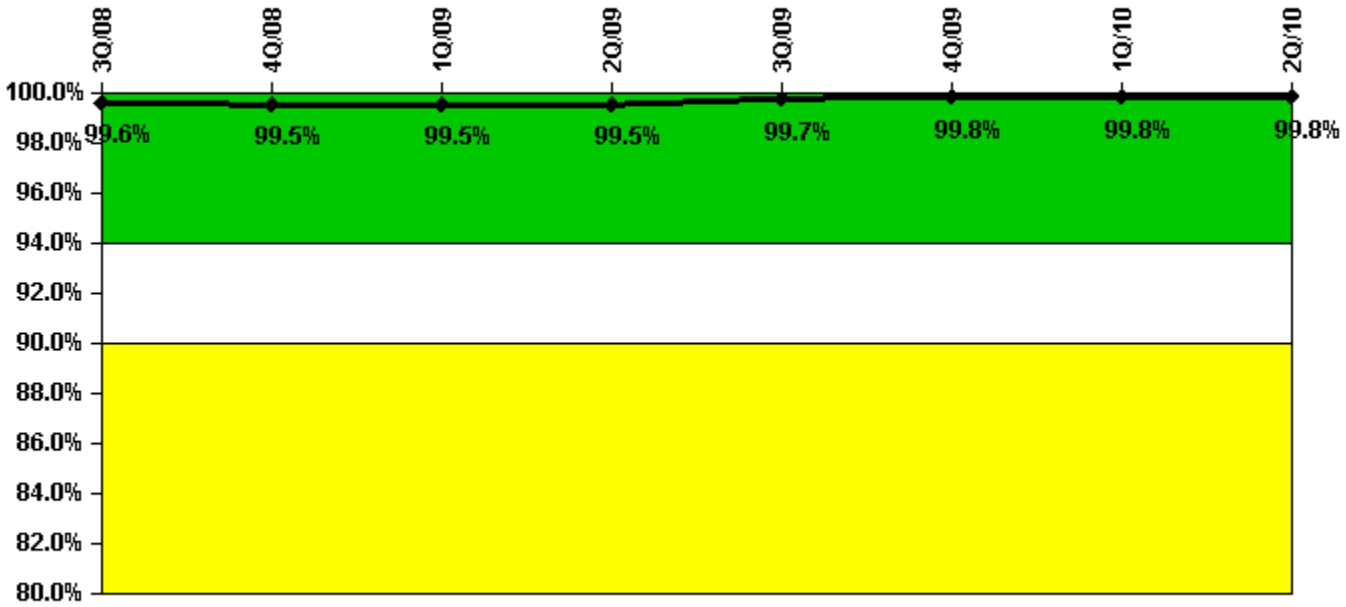
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	64.0	64.0	63.0	65.0	65.0	71.0	72.0	71.0
Total Key personnel	64.0	64.0	64.0	65.0	65.0	71.0	72.0	71.0
Indicator value	100.0%	100.0%	98.4%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

# Alert & Notification System



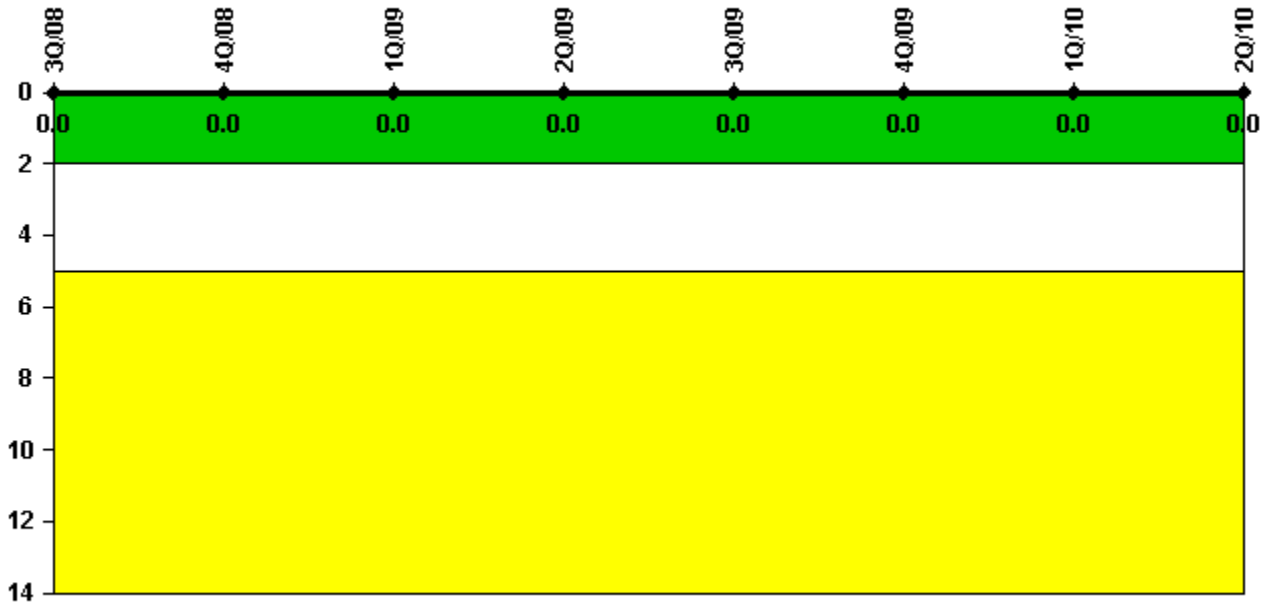
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	5037	4963	4900	4978	5064	4983	2893	2929
Total sirens-tests	5070	4992	4914	4992	5070	4992	2898	2944
Indicator value	99.6%	99.5%	99.5%	99.5%	99.7%	99.8%	99.8%	99.8%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



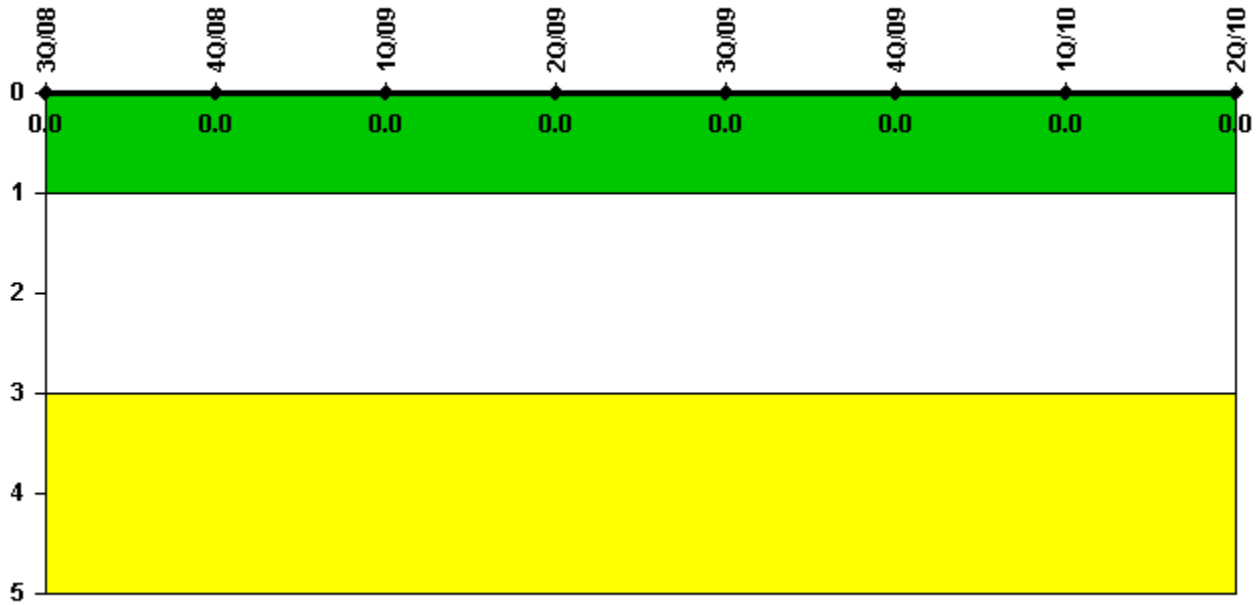
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/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
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

# RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

## Notes

RETS/ODCM Radiological Effluent	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/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.