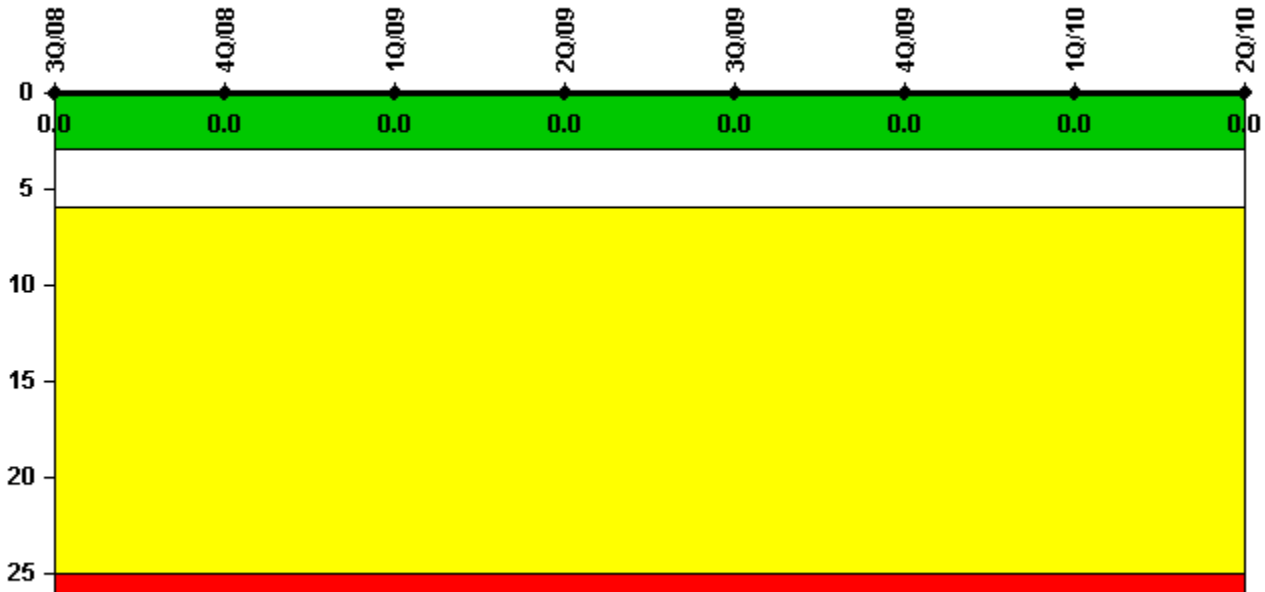


# San Onofre 3

## 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

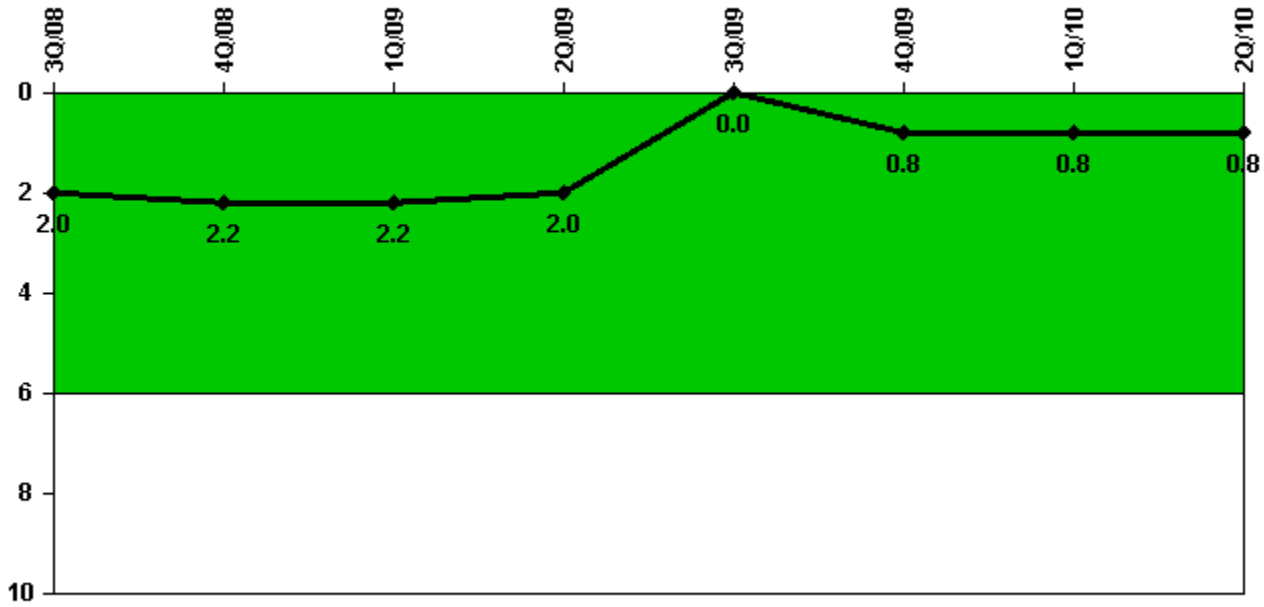
### Notes

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	1970.1	682.2	2159.0	2184.0	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

---

## 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	1.0	0	0
Critical hours	1970.1	682.2	2159.0	2184.0	2208.0	2209.0	2159.0	2184.0
Indicator value	2.0	2.2	2.2	2.0	0	0.8	0.8	0.8

Licensee Comments: none

# Unplanned Scrams with Complications



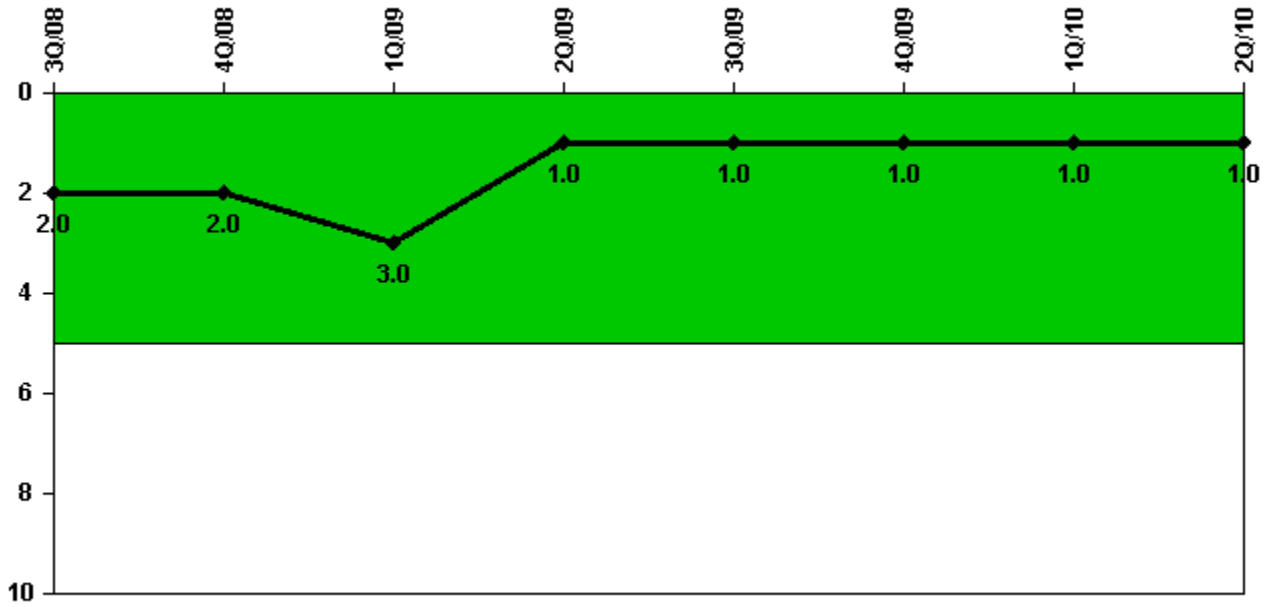
Thresholds: White > 1.0

## 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

## Safety System Functional Failures (PWR)



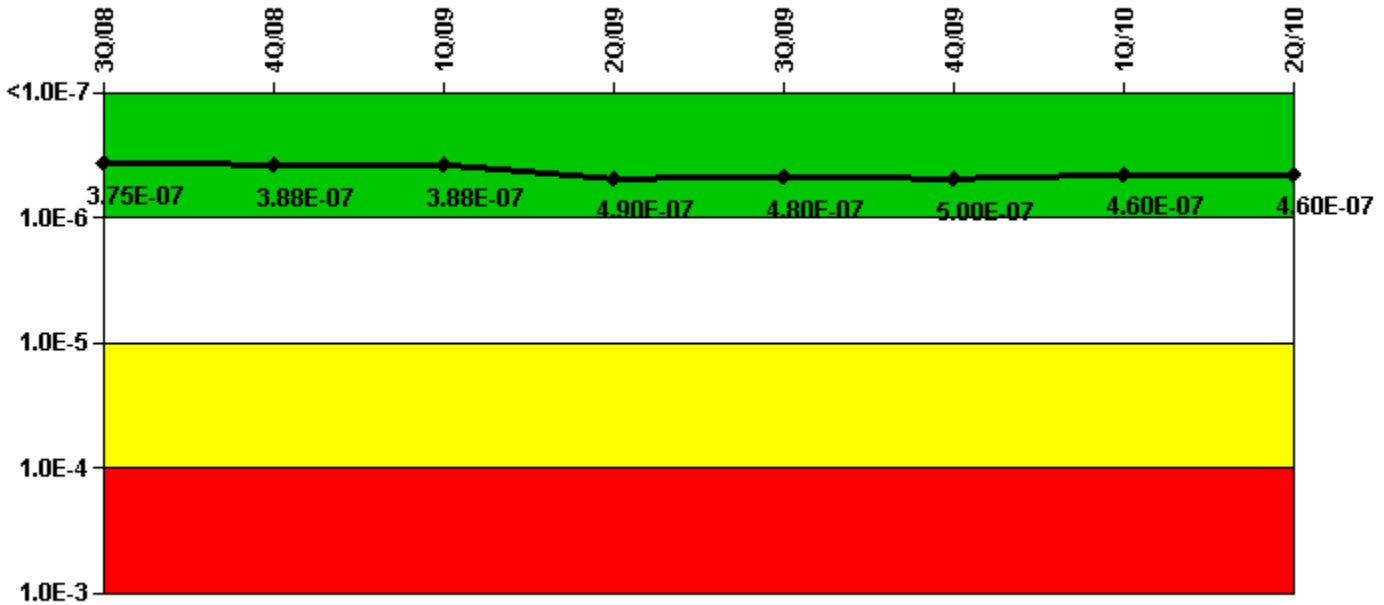
Thresholds: White > 5.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



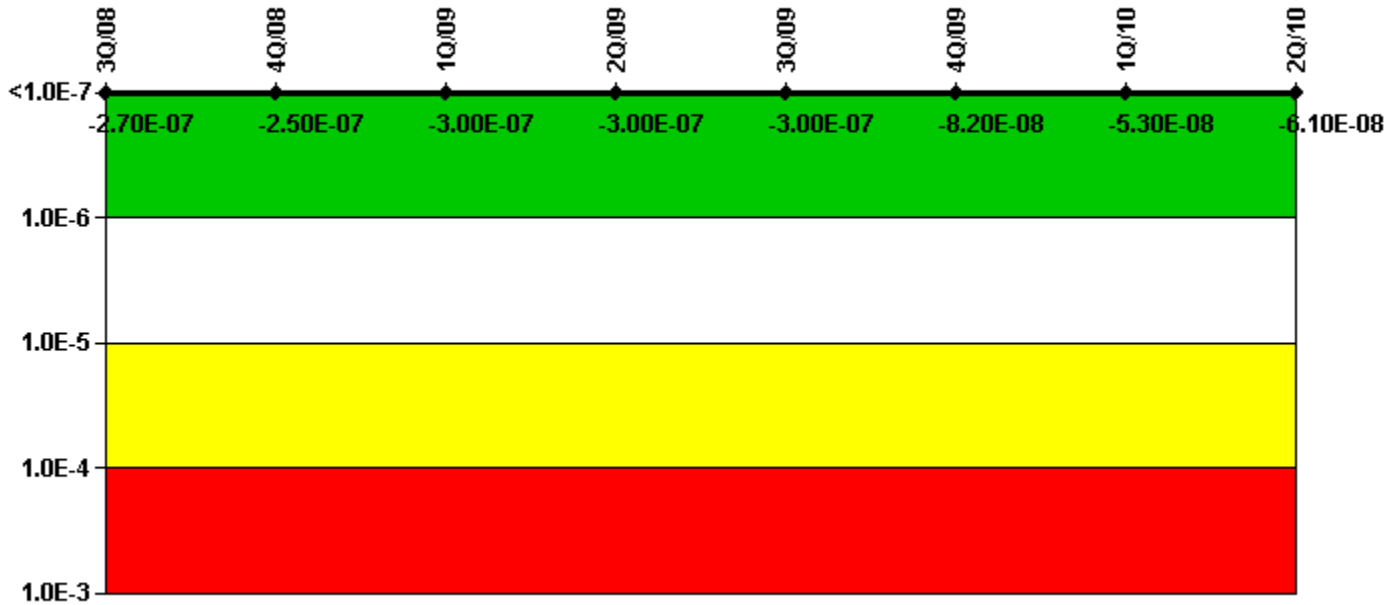
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	8.50E-08	9.80E-08	9.80E-08	1.60E-07	1.10E-07	1.10E-07	1.12E-07	1.12E-07
URI ( $\Delta$ CDF)	2.90E-07	2.90E-07	2.90E-07	3.30E-07	3.70E-07	3.90E-07	3.52E-07	3.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.75E-07	3.88E-07	3.88E-07	4.90E-07	4.80E-07	5.00E-07	4.60E-07	4.60E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



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

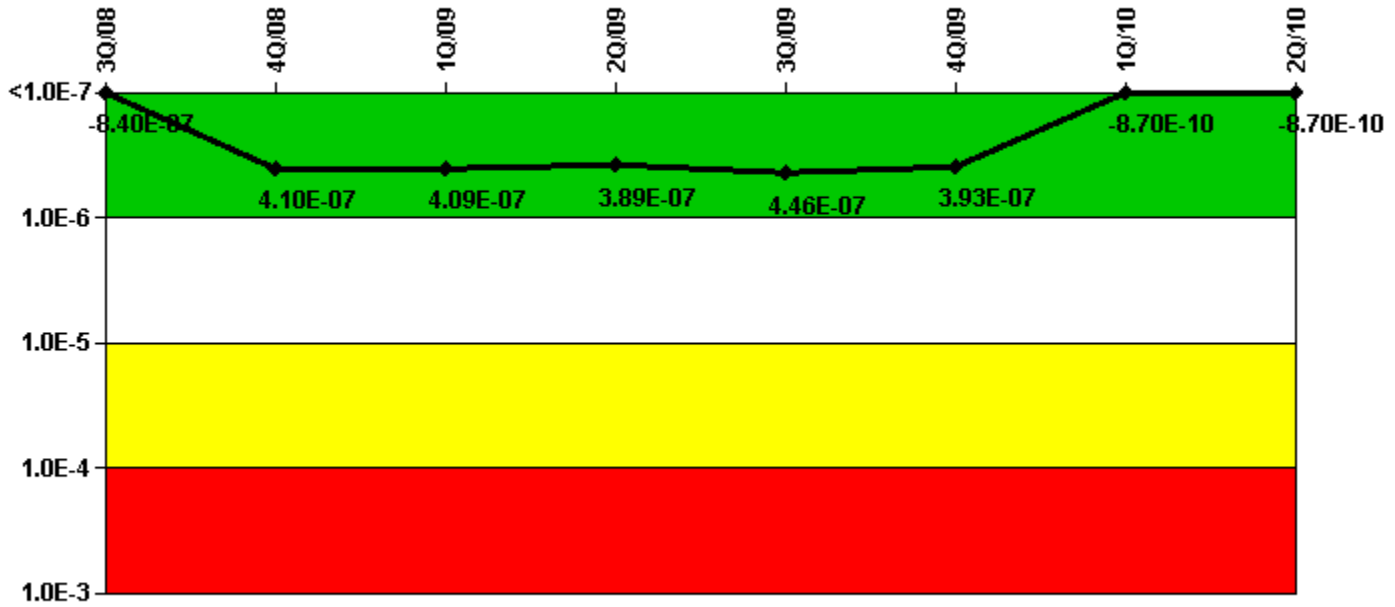
## Notes

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)	-1.30E-07	-1.20E-07	-1.70E-07	-1.70E-07	-1.70E-07	-3.20E-08	-4.30E-09	-8.77E-09
URI ( $\Delta$ CDF)	-1.40E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-5.00E-08	-4.89E-08	-5.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-07	-2.50E-07	-3.00E-07	-3.00E-07	-3.00E-07	-8.20E-08	-5.30E-08	-6.10E-08

Licensee Comments:

2Q/10: The FV/UR ratios for HPSI pumps were calculated using Option 1 in NEI 99-02 Section F.2.3.3. For 2Q10, Option 2 is used to calculate separate FV/UR ratios for failure to start and failure to run modes.

# Mitigating Systems Performance Index, Heat Removal System



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

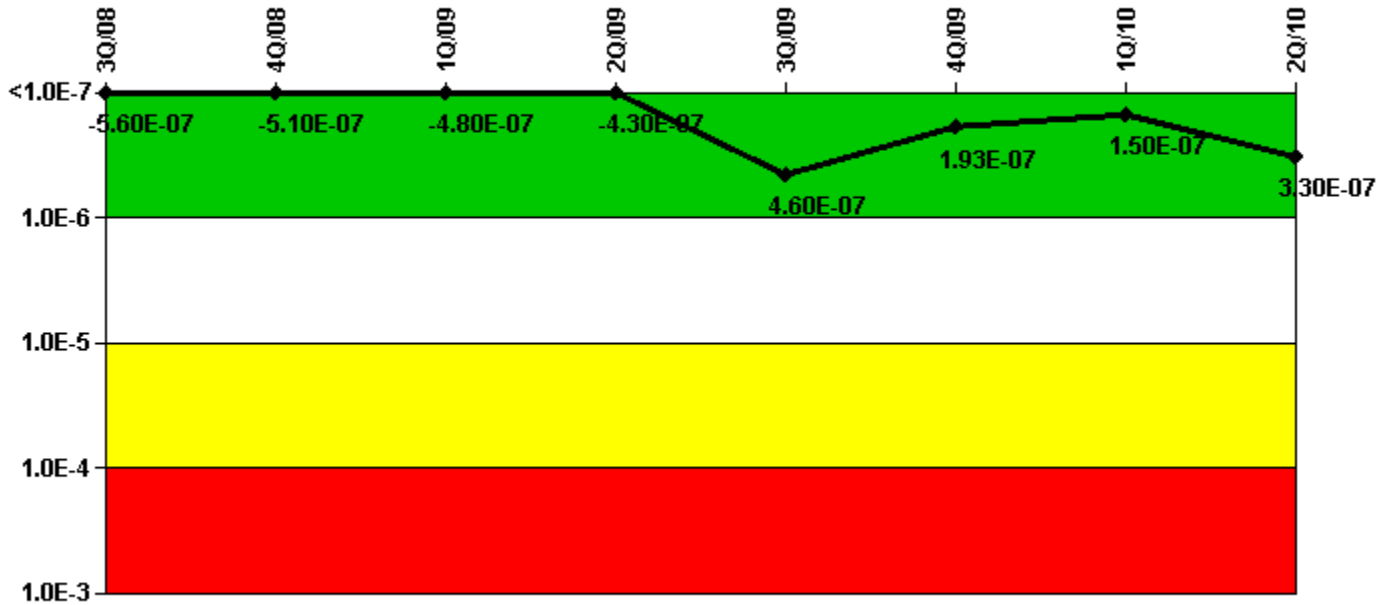
## Notes

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)	-1.40E-07	-5.00E-08	-5.10E-08	-7.10E-08	-7.40E-08	-6.70E-08	-4.92E-08	-4.92E-08
URI ( $\Delta$ CDF)	-7.00E-07	4.60E-07	4.60E-07	4.60E-07	5.20E-07	4.60E-07	4.83E-08	4.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.40E-07	4.10E-07	4.09E-07	3.89E-07	4.46E-07	3.93E-07	-8.70E-10	-8.70E-10

Licensee Comments:

2Q/10: Risk Cap Invoked.

# Mitigating Systems Performance Index, Residual Heat Removal System



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

## Notes

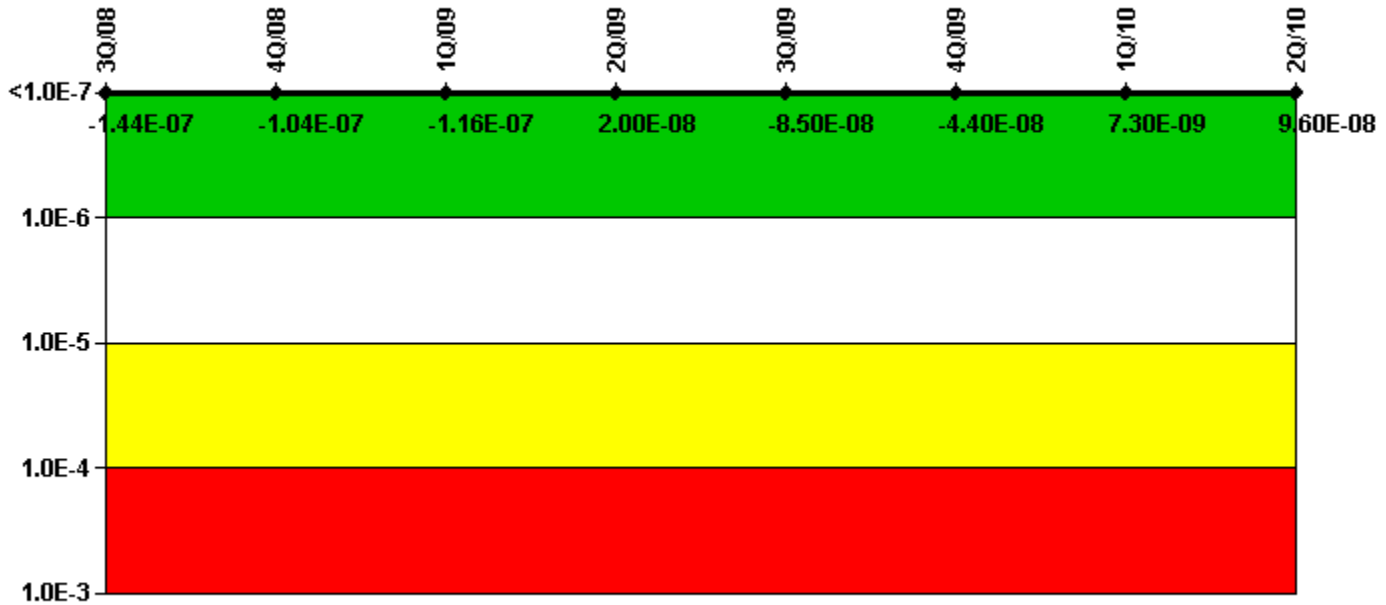
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	-4.40E-07	-3.90E-07	-3.60E-07	-3.10E-07	5.80E-07	2.20E-07	1.74E-07	3.56E-07
URI ( $\Delta$ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-2.70E-08	-2.62E-08	-2.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.60E-07	-5.10E-07	-4.80E-07	-4.30E-07	4.60E-07	1.93E-07	1.50E-07	3.30E-07

Licensee Comments:

2Q/10: The FV/UR ratios for CS pumps were calculated using Option 1 in NEI 99-02 Section F.2.3.3. For 2Q10, Option 2 is used to calculate separate FV/UR ratios for failure to start and failure to run modes.



# Mitigating Systems Performance Index, Cooling Water Systems



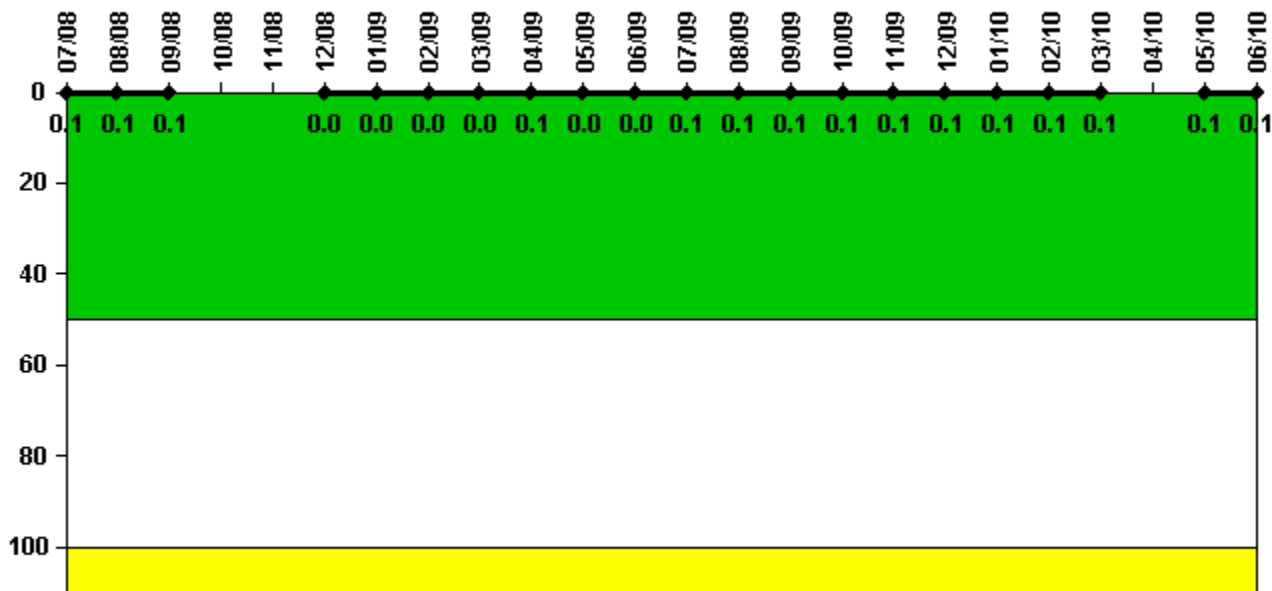
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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)	1.60E-08	4.60E-08	3.40E-08	1.70E-07	6.50E-08	6.60E-08	1.21E-07	2.11E-07
URI ( $\Delta$ CDF)	-1.60E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.10E-07	-1.14E-07	-1.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.44E-07	-1.04E-07	-1.16E-07	2.00E-08	-8.50E-08	-4.40E-08	7.30E-09	9.60E-08

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

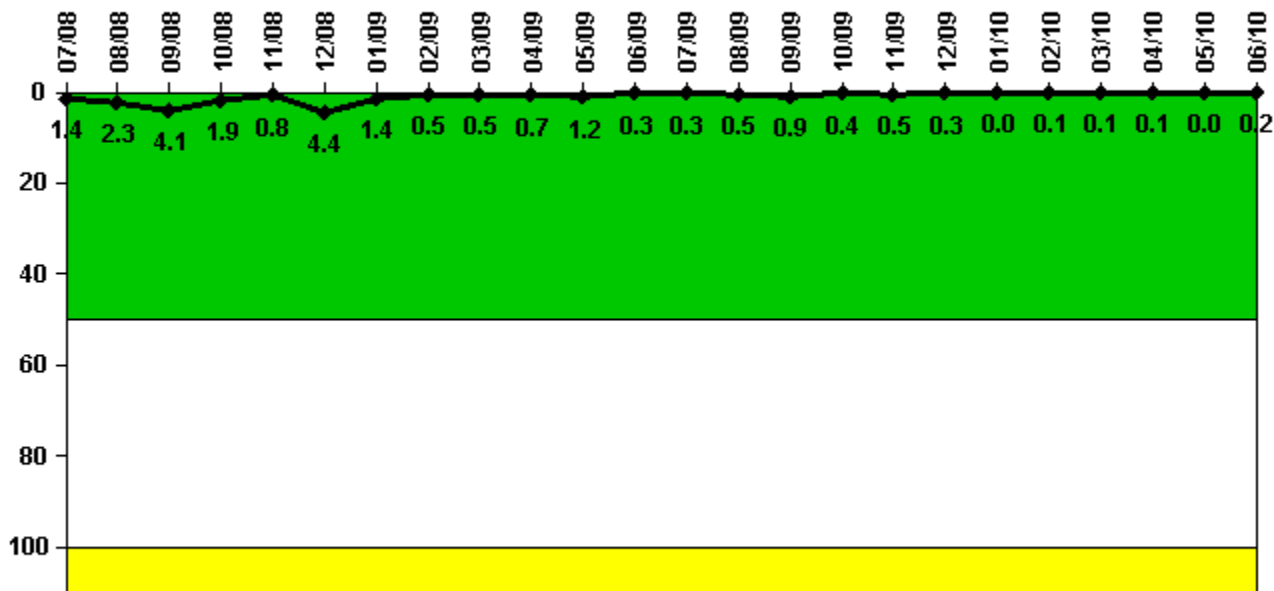
Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.000921	0.000845	0.001060	N/A	N/A	0.000309	0.000369	0.000342	0.000442	0.000509	0.000444	0.000480
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	N/A	N/A	0	0	0	0	0.1	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	0.000523	0.000579	0.000687	0.000652	0.000721	0.000689	0.000679	0.000718	0.000667	N/A	0.001080	0.001030
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A	0.1	0.1

Licensee Comments: none

## Reactor Coolant System Leakage



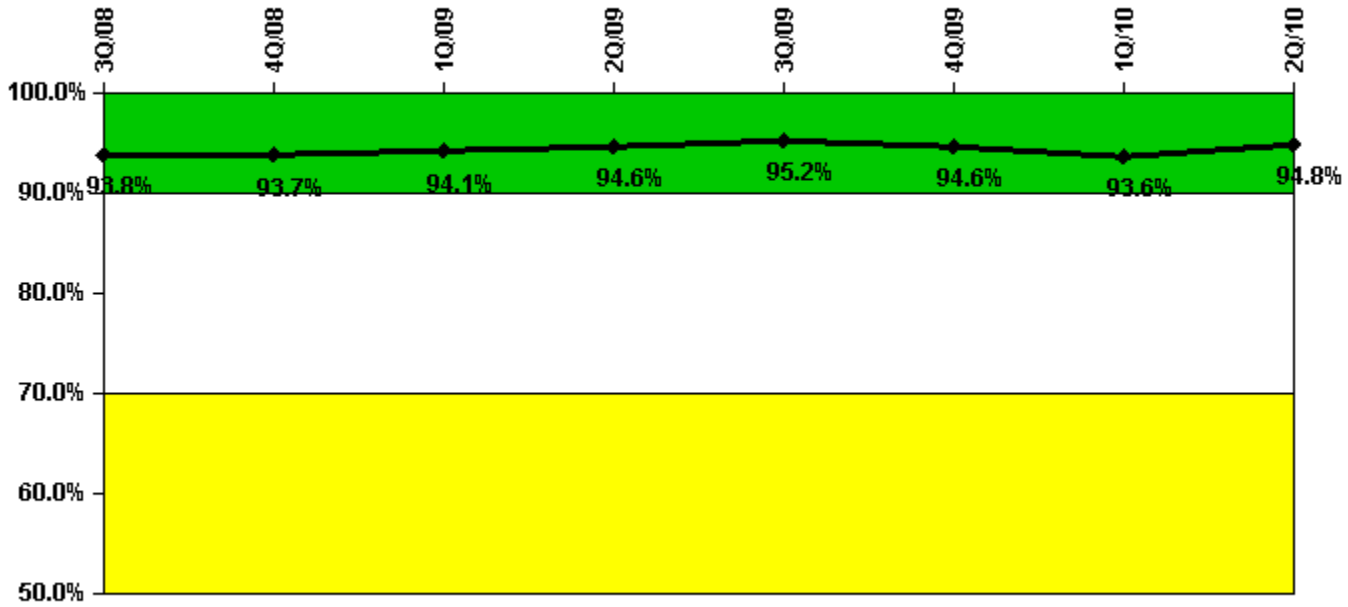
Thresholds: White > 50.0 Yellow > 100.0

### 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	0.140	0.230	0.410	0.190	0.080	0.440	0.140	0.050	0.050	0.070	0.120	0.030
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	1.4	2.3	4.1	1.9	0.8	4.4	1.4	0.5	0.5	0.7	1.2	0.3
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	0.030	0.050	0.090	0.040	0.050	0.030	0	0.010	0.010	0.010	0	0.020
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	0.3	0.5	0.9	0.4	0.5	0.3	0	0.1	0.1	0.1	0	0.2

Licensee Comments: none

## Drill/Exercise Performance



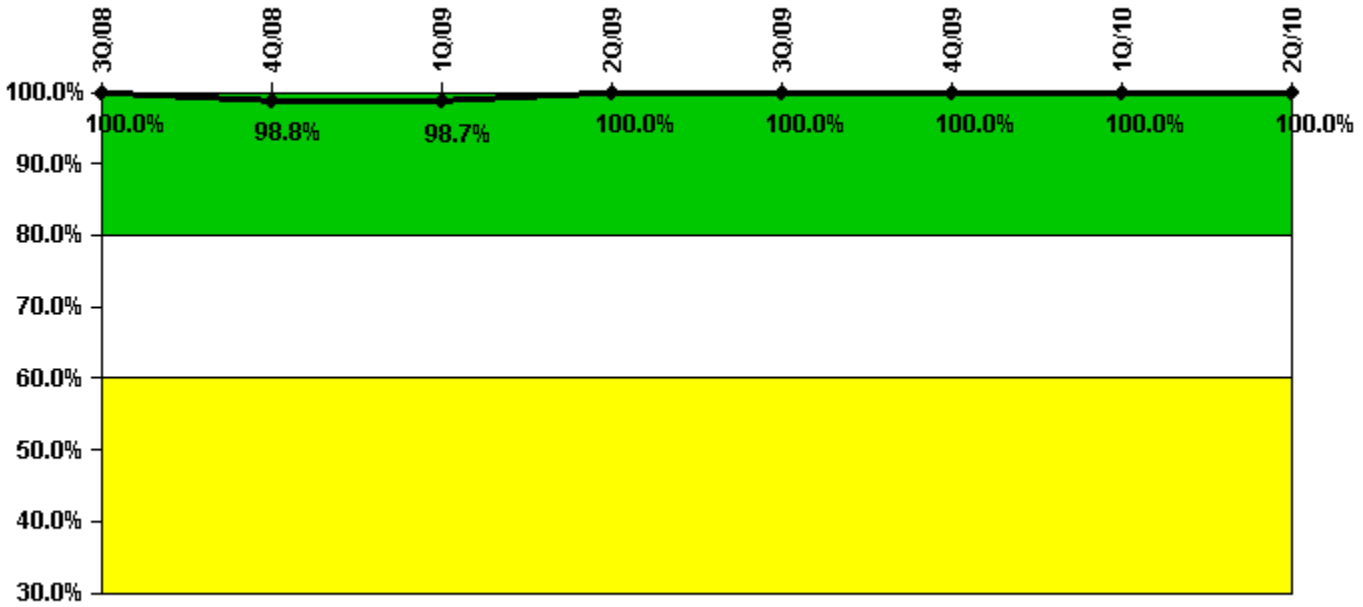
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	28.0	60.0	15.0	89.0	33.0	24.0	11.0	53.0
Total opportunities	29.0	63.0	15.0	93.0	38.0	24.0	15.0	53.0
Indicator value	93.8%	93.7%	94.1%	94.6%	95.2%	94.6%	93.6%	94.8%

Licensee Comments: none

## ERO Drill Participation



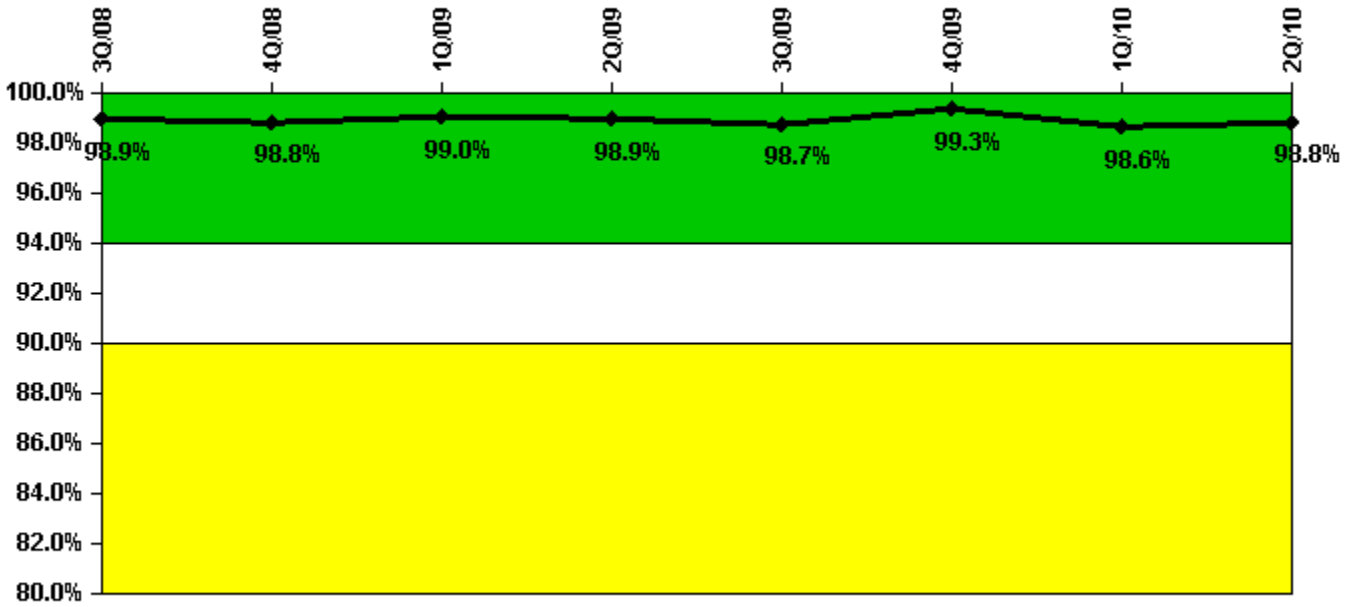
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	77.0	80.0	76.0	74.0	74.0	79.0	72.0	74.0
Total Key personnel	77.0	81.0	77.0	74.0	74.0	79.0	72.0	74.0
Indicator value	100.0%	98.8%	98.7%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

# Alert & Notification System



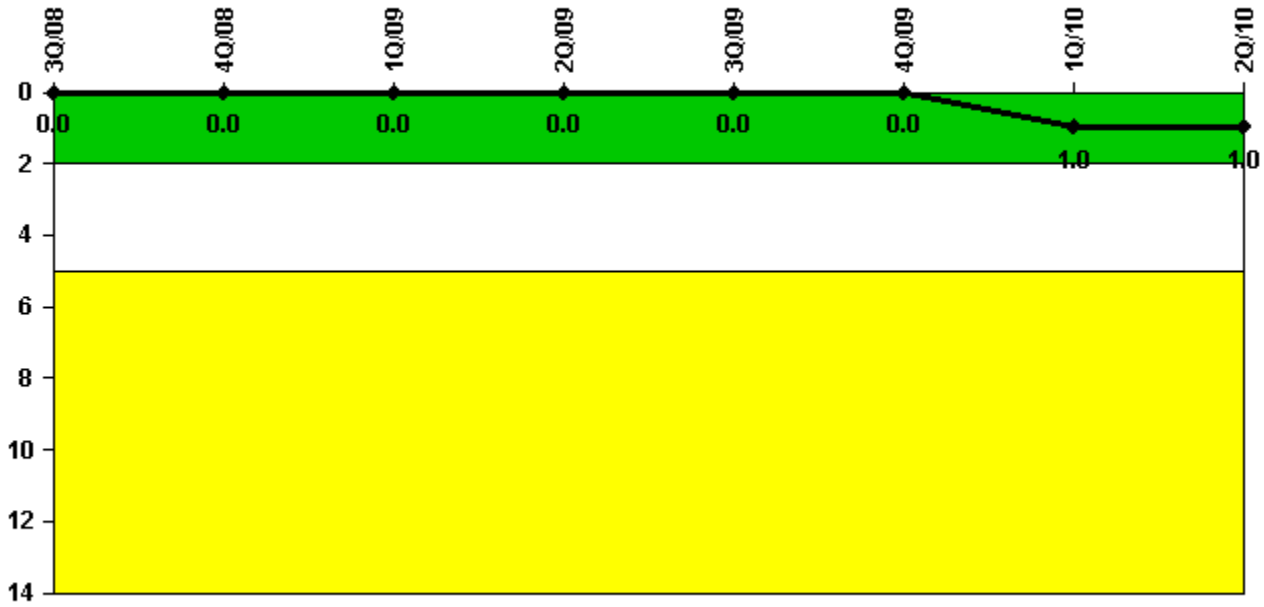
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	413	457	415	360	359	519	350	405
Total sirens-tests	416	468	416	364	364	520	362	406
Indicator value	98.9%	98.8%	99.0%	98.9%	98.7%	99.3%	98.6%	98.8%

Licensee Comments: none

## Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

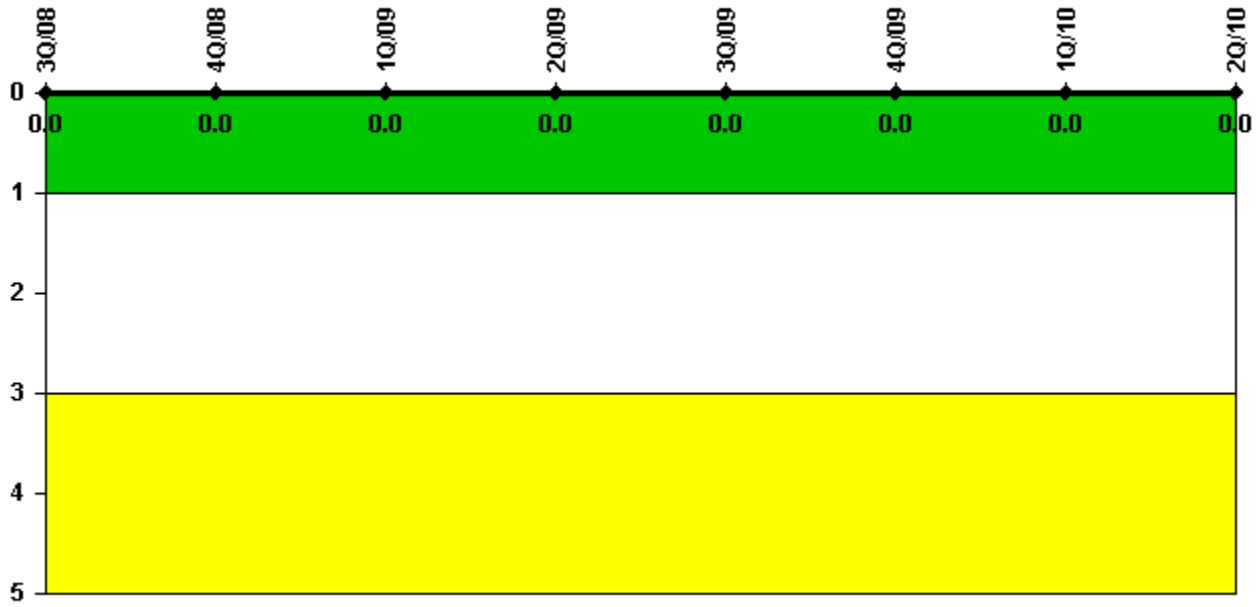
### Notes

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	1	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>1</b>	<b>1</b>

Licensee Comments:

1Q/10: The 1Q10 Occupational Radiation Safety Cornerstone was updated to reflect a single Technical Specification High Radiation Area Occurrence in March 2010, which was identified in the NRC Inspection Report (2010-002) dated May 4, 2010.

# 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.