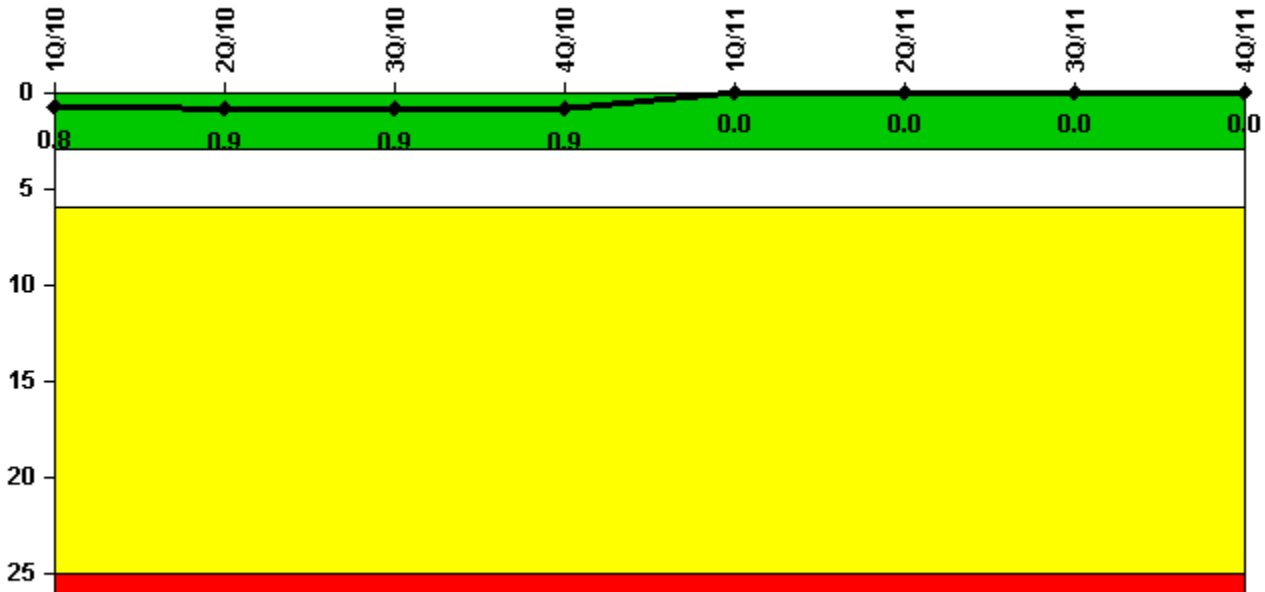


# Comanche Peak 1

## 4Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



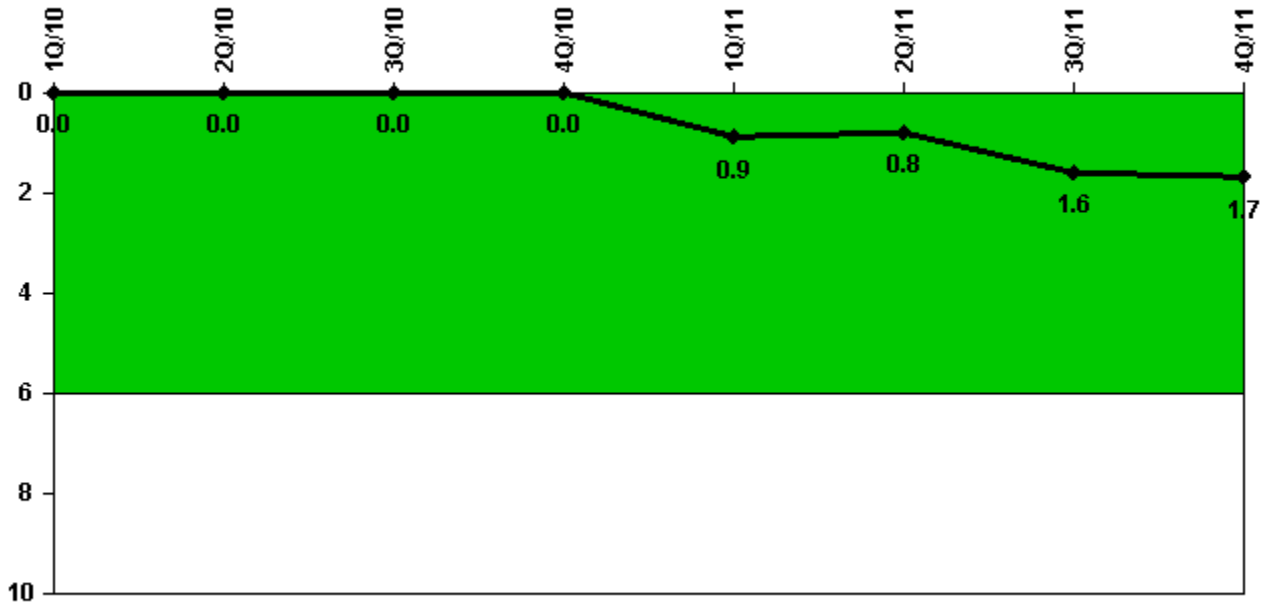
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2069.7	1621.7	2208.0	2209.0	2136.2	2184.0	2038.6	1739.0
Indicator value	0.8	0.9	0.9	0.9	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	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	0	1.0	0	1.0	0
Critical hours	2069.7	1621.7	2208.0	2209.0	2136.2	2184.0	2038.6	1739.0
Indicator value	0	0	0	0	0.9	0.8	1.6	1.7

Licensee Comments: none

# Unplanned Scrams with Complications



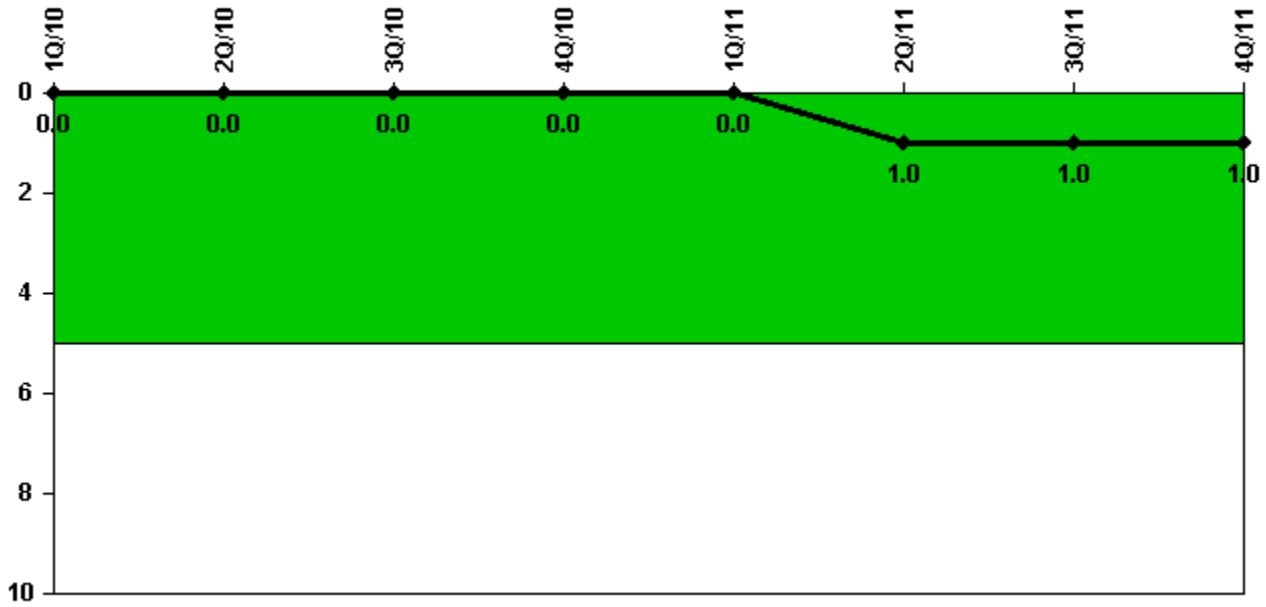
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
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)



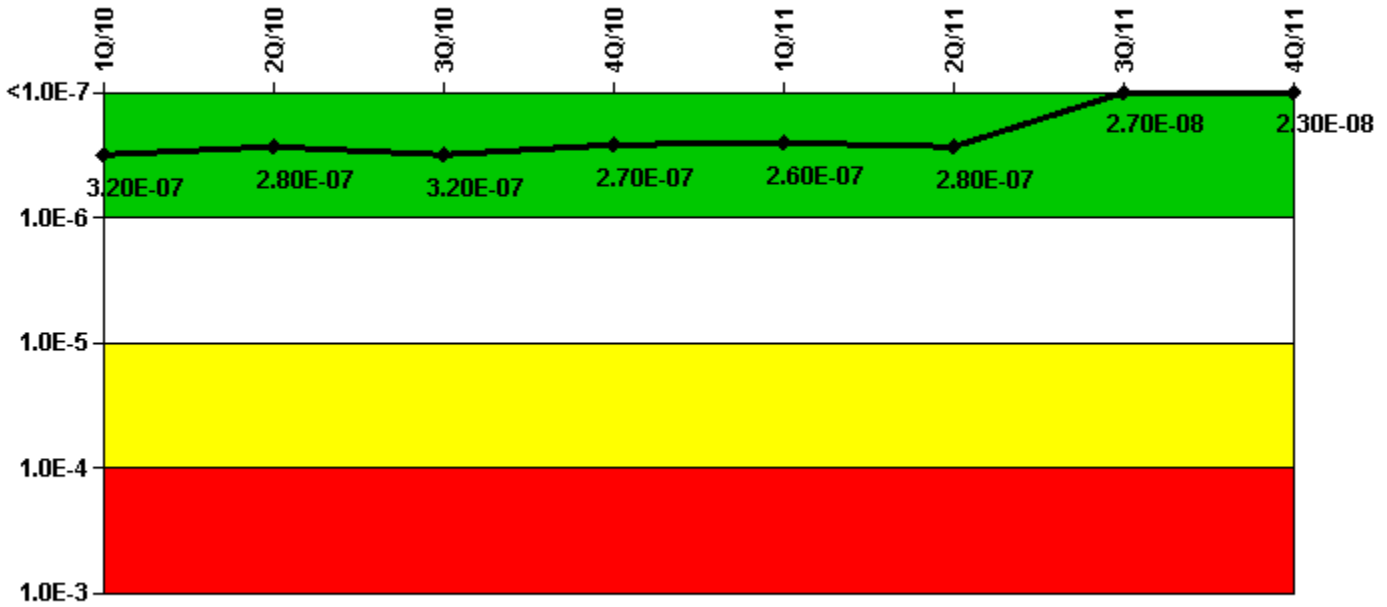
Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	0	0	0	0	0	1	1	1

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



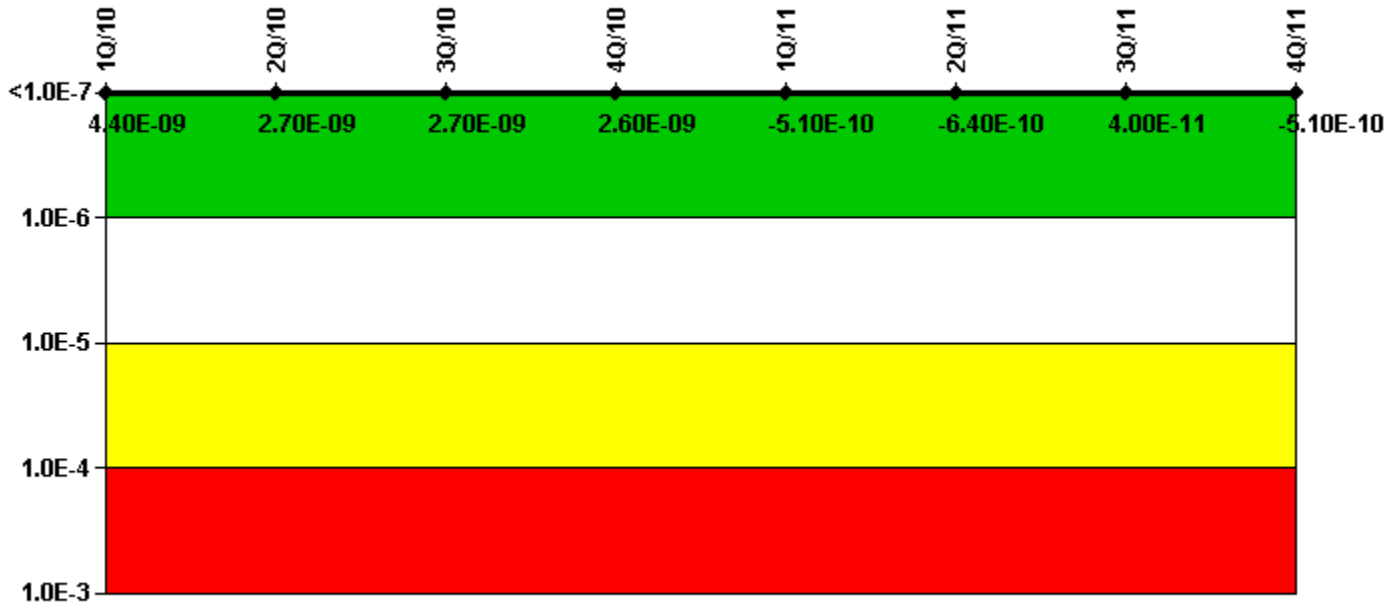
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	-2.27E-07	-2.12E-07	-1.72E-07	-2.14E-07	-3.96E-08	-2.37E-08	-1.81E-08	-1.60E-08
URI (ΔCDF)	5.50E-07	4.96E-07	4.91E-07	4.83E-07	3.03E-07	2.99E-07	4.53E-08	3.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.20E-07	2.80E-07	3.20E-07	2.70E-07	2.60E-07	2.80E-07	2.70E-08	2.30E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



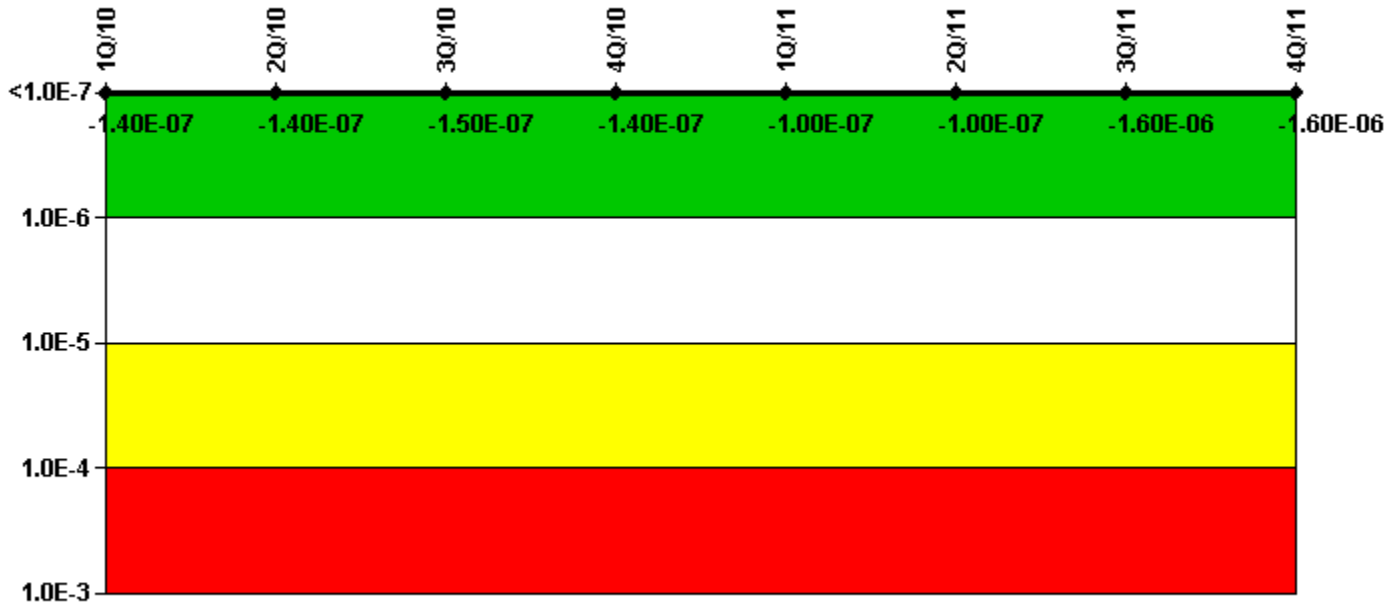
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI ( $\Delta$ CDF)	-1.33E-08	-1.43E-08	-1.43E-08	-1.43E-08	-1.41E-08	-1.42E-08	-1.82E-10	-1.82E-10
URI ( $\Delta$ CDF)	1.76E-08	1.69E-08	1.70E-08	1.68E-08	1.36E-08	1.35E-08	2.21E-10	-3.24E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.40E-09	2.70E-09	2.70E-09	2.60E-09	-5.10E-10	-6.40E-10	4.00E-11	-5.10E-10

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



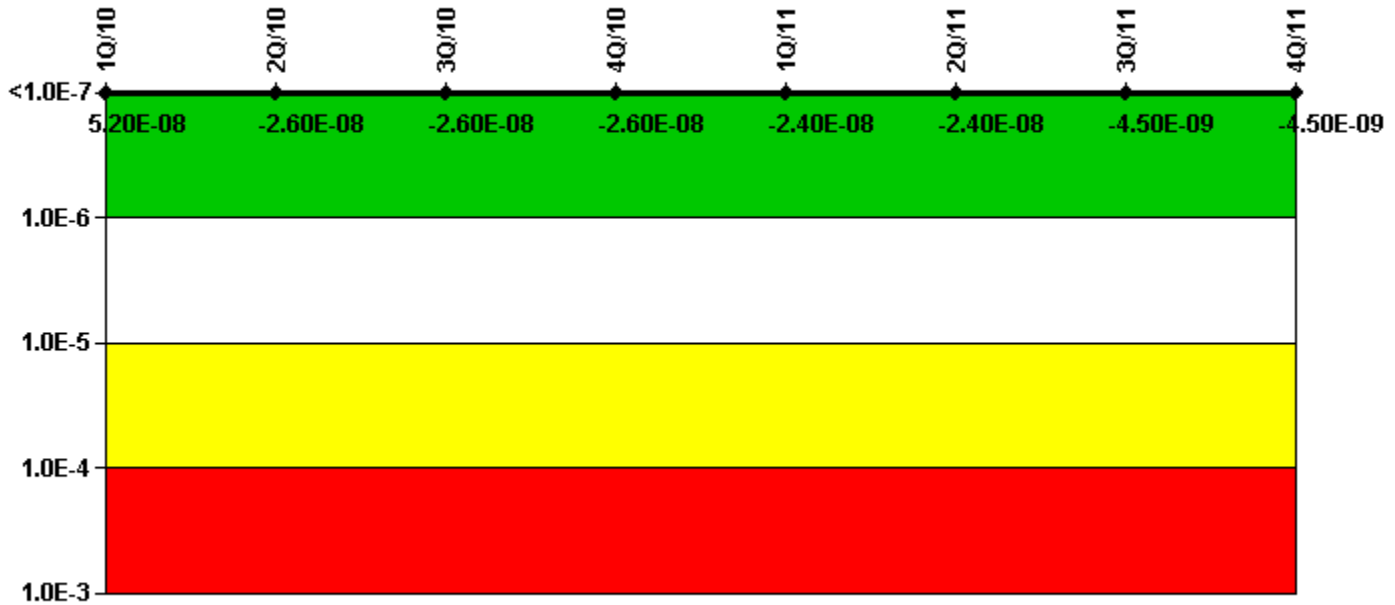
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI ( $\Delta$ CDF)	-3.67E-08	-3.61E-08	-3.61E-08	-3.61E-08	-3.81E-08	-3.85E-08	-1.35E-06	-1.35E-06
URI ( $\Delta$ CDF)	-1.00E-07	-1.08E-07	-1.09E-07	-1.09E-07	-6.36E-08	-6.33E-08	-2.85E-07	-2.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-07	-1.40E-07	-1.50E-07	-1.40E-07	-1.00E-07	-1.00E-07	-1.60E-06	-1.60E-06

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



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

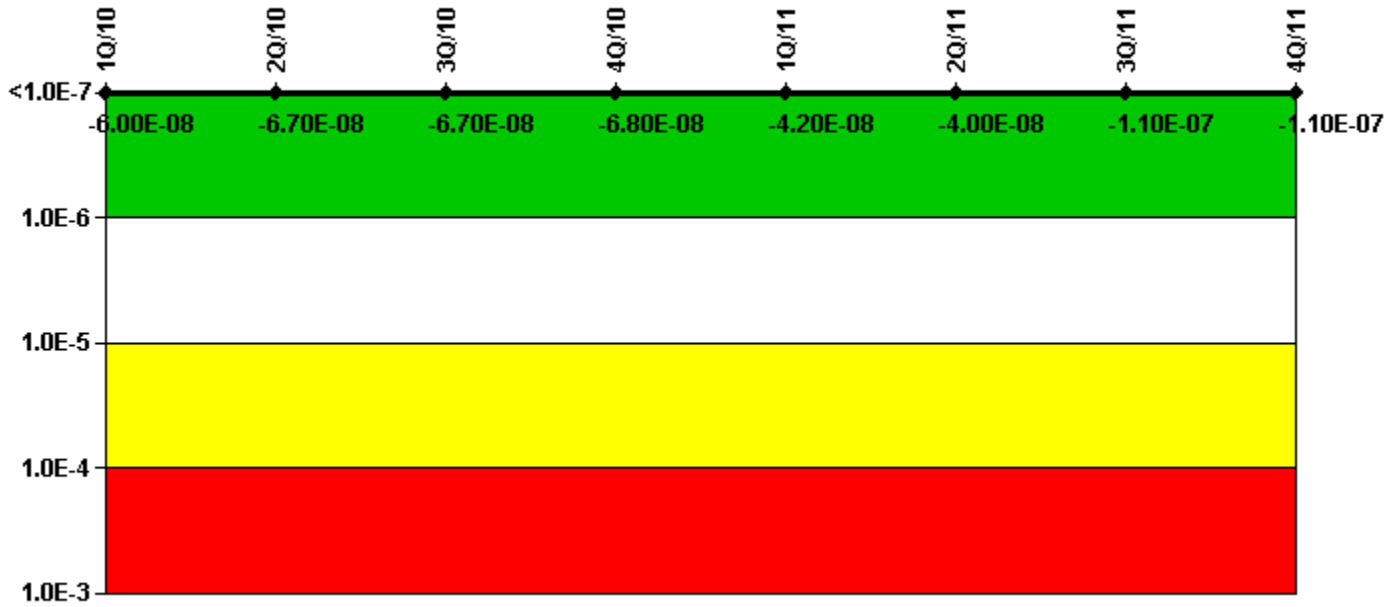
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI ( $\Delta$ CDF)	-2.18E-09	-2.15E-09	-2.15E-09	-2.15E-09	-1.94E-09	-1.94E-09	-7.15E-10	-7.23E-10
URI ( $\Delta$ CDF)	5.38E-08	-2.43E-08	-2.43E-08	-2.43E-08	-2.20E-08	-2.20E-08	-3.78E-09	-3.79E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.20E-08	-2.60E-08	-2.60E-08	-2.60E-08	-2.40E-08	-2.40E-08	-4.50E-09	-4.50E-09

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



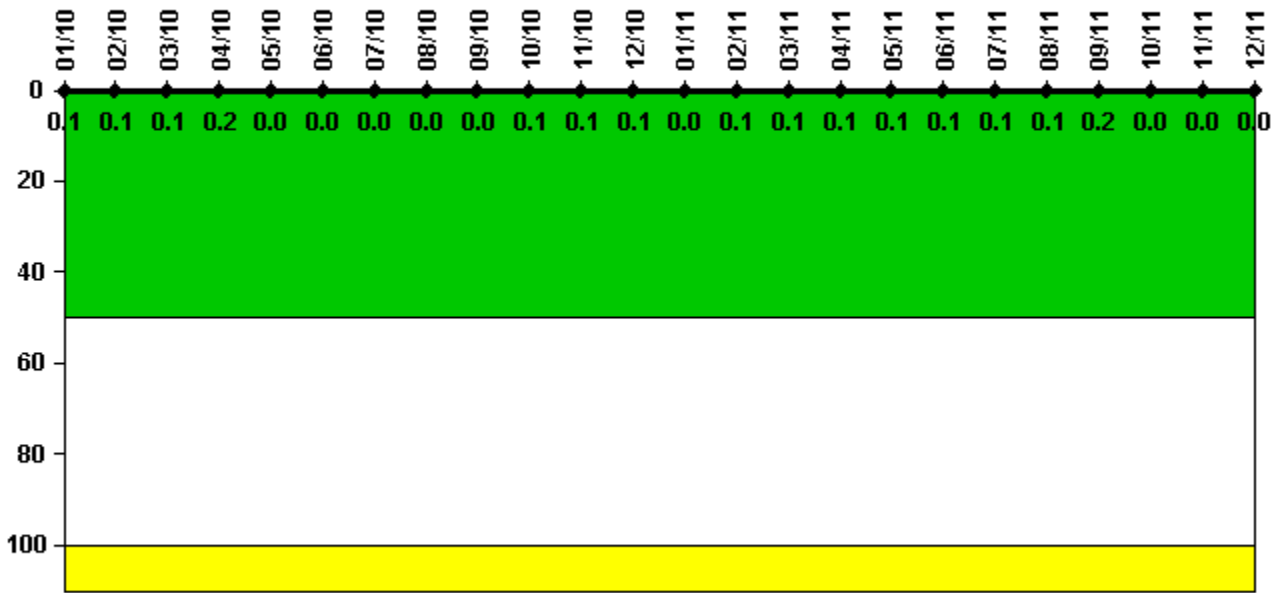
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI ( $\Delta$ CDF)	2.17E-09	2.21E-09	2.21E-09	2.21E-09	7.49E-10	4.37E-09	3.73E-09	1.21E-08
URI ( $\Delta$ CDF)	-6.23E-08	-6.90E-08	-6.97E-08	-7.00E-08	-4.28E-08	-4.40E-08	-1.15E-07	-1.18E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.00E-08	-6.70E-08	-6.70E-08	-6.80E-08	-4.20E-08	-4.00E-08	-1.10E-07	-1.10E-07

Licensee Comments: none

# Reactor Coolant System Activity



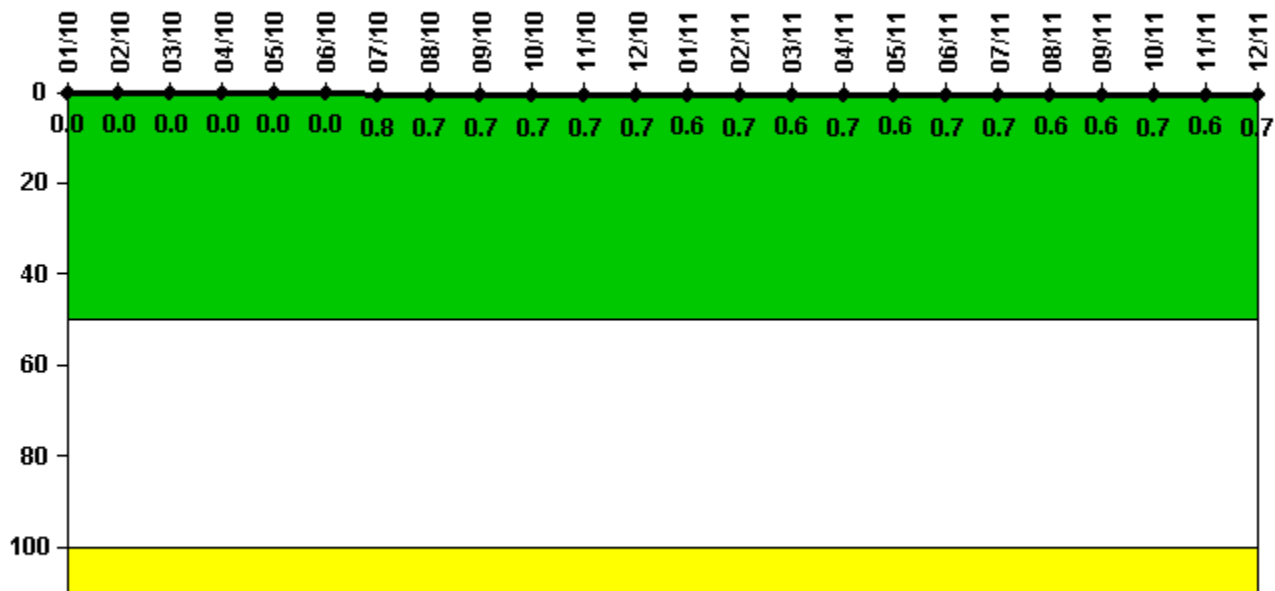
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum activity	0.000363	0.000466	0.000495	0.000816	0.000175	0.000185	0.000183	0.000203	0.000201	0.000242	0.000279	0.000242
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.2	0	0	0	0	0	0.1	0.1	0.1
Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000222	0.000268	0.000236	0.000242	0.000250	0.000253	0.000255	0.000261	0.000796	0.000106	0.000124	0.000128
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0	0	0

Licensee Comments: none

## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	0	0	0	0	0	0	0.080	0.074	0.071	0.067	0.072	0.072
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	0	0	0	0	0	0.8	0.7	0.7	0.7	0.7	0.7

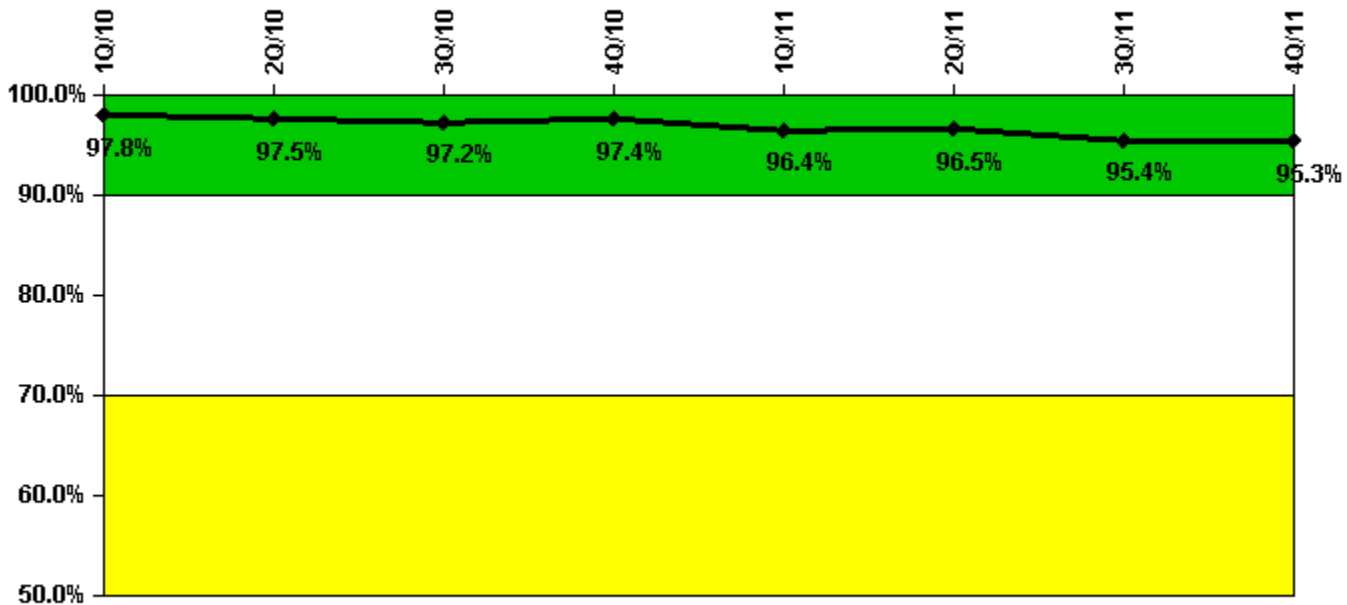
  

Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	0.064	0.069	0.062	0.067	0.057	0.065	0.066	0.058	0.060	0.071	0.061	0.066
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.6	0.7	0.6	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.6	0.7

Licensee Comments:

12/11: RCS Total Leakage is being reported as Identified Leakage.

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

### Notes

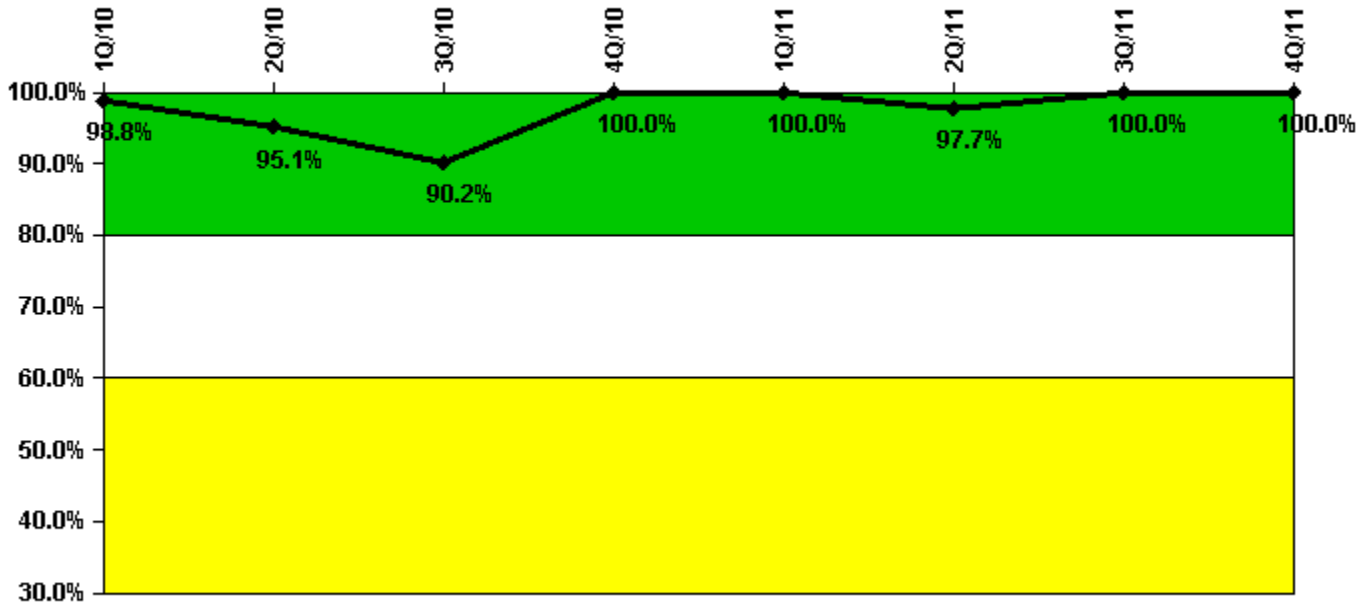
Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	6.0	8.0	15.0	10.0	19.0	23.0	35.0	6.0
Total opportunities	6.0	9.0	16.0	10.0	20.0	24.0	37.0	6.0
Indicator value	97.8%	97.5%	97.2%	97.4%	96.4%	96.5%	95.4%	95.3%

### Licensee Comments:

3Q/11: Based on NRC feedback during an inspection, the Emergency Preparedness Drill and Exercise Performance data has been changed for 3Q 2010 to include unexpected simulator drill opportunities that were not included in the original indicator data submission. This data change did not result in a change to the indicator color.

3Q/10: Based on NRC feedback during an inspection, the Emergency Preparedness Drill and Exercise Performance data has been changed for September to include unexpected simulator drill opportunities that were not included in the original indicator data submission.

## ERO Drill Participation



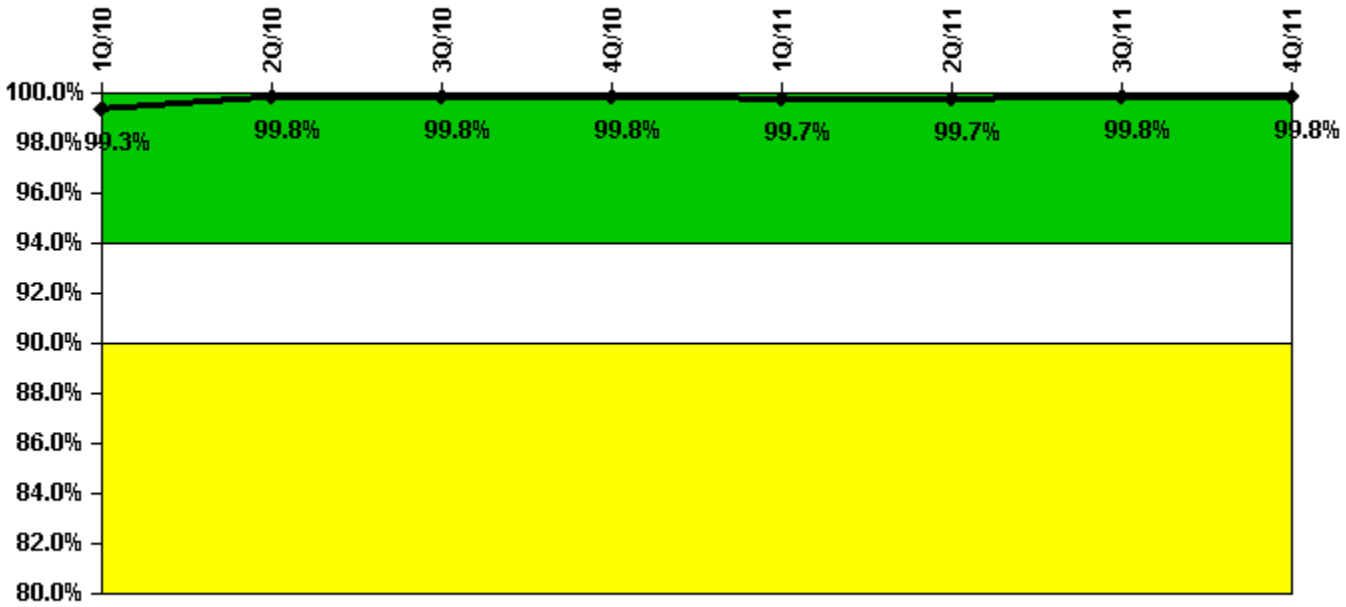
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	82.0	77.0	74.0	82.0	84.0	84.0	87.0	88.0
Total Key personnel	83.0	81.0	82.0	82.0	84.0	86.0	87.0	88.0
Indicator value	98.8%	95.1%	90.2%	100.0%	100.0%	97.7%	100.0%	100.0%

Licensee Comments: none

# Alert & Notification System



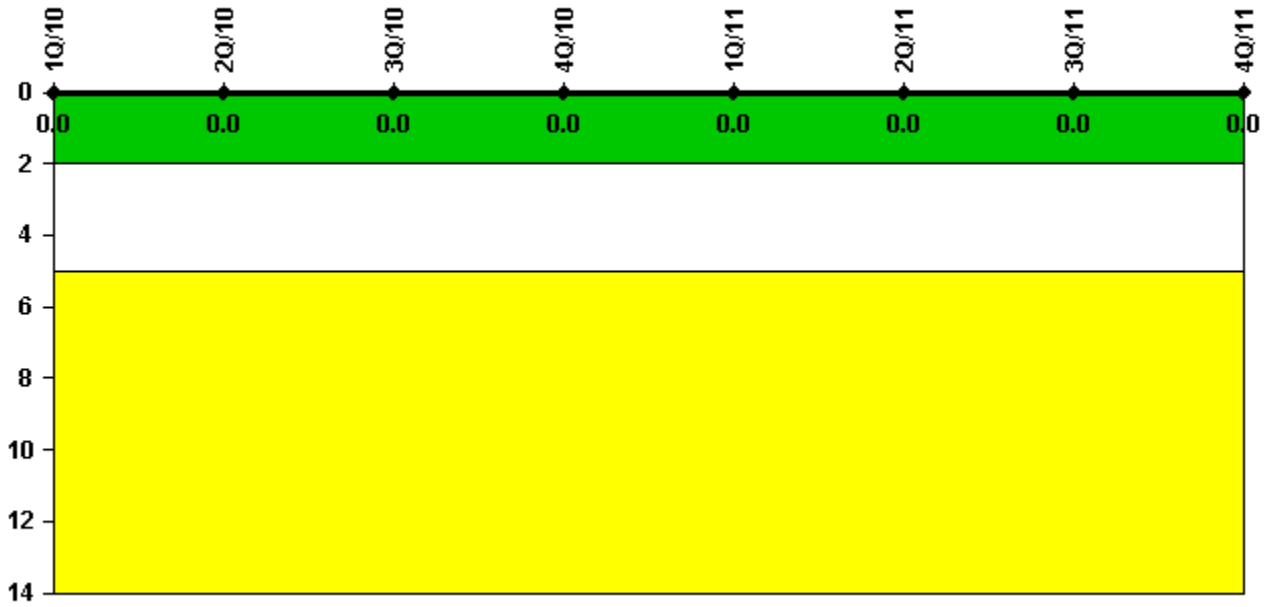
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	432	432	430	429	430	431	432	431
Total sirens-tests	432	432	432	430	432	432	432	431
Indicator value	99.3%	99.8%	99.8%	99.8%	99.7%	99.7%	99.8%	99.8%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



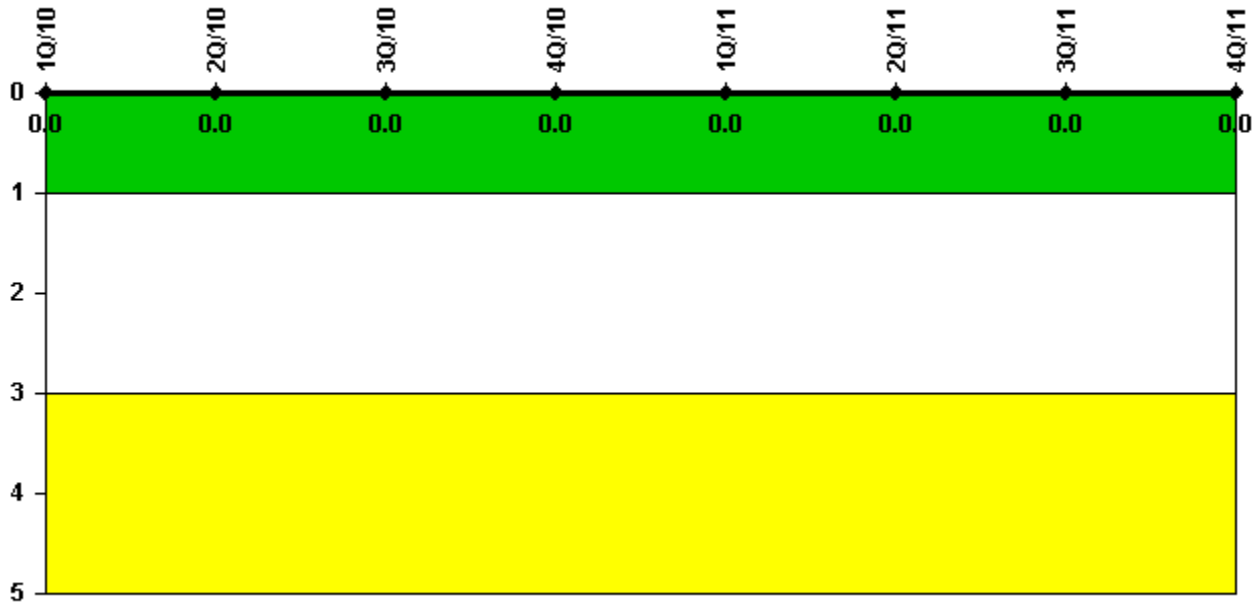
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
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	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
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.