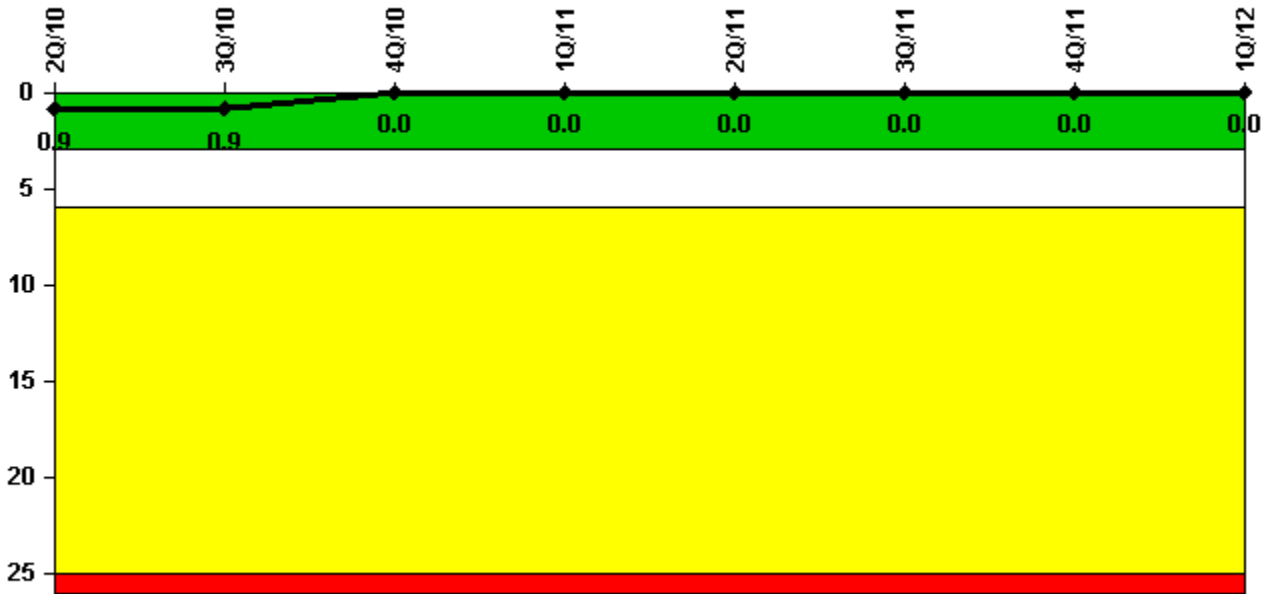


# Waterford 3

## 1Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



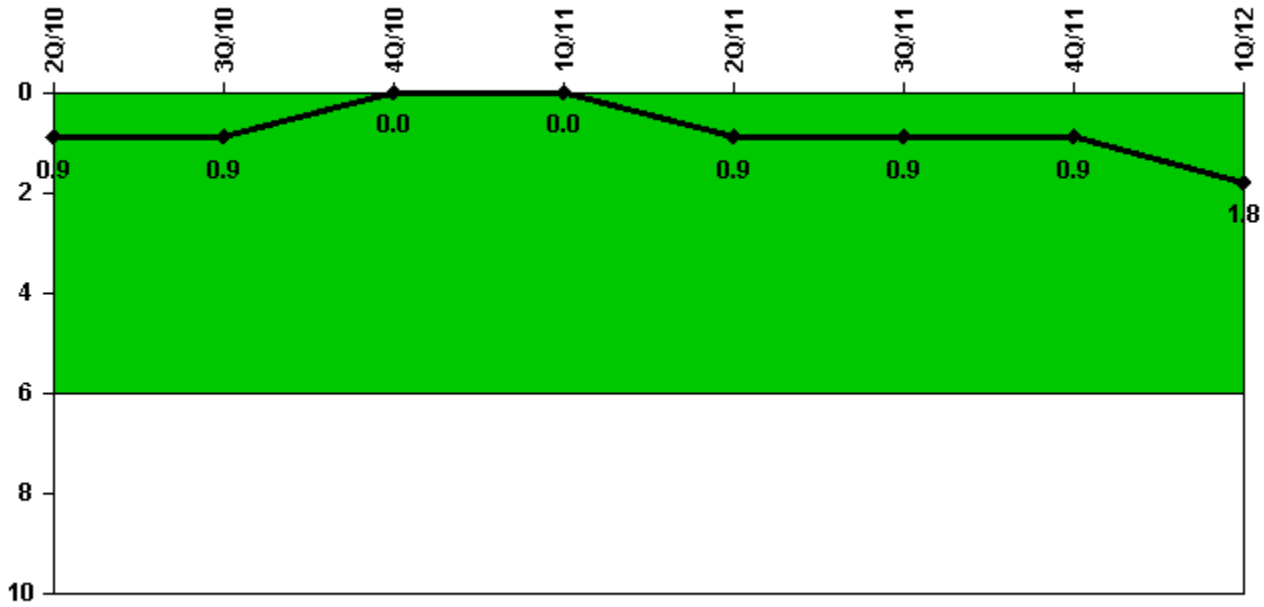
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2159.0	1341.8	2208.0	2209.0	2183.0
Indicator value	0.9	0.9	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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	0	0	1.0	0	0	1.0
Critical hours	2184.0	2208.0	2209.0	2159.0	1341.8	2208.0	2209.0	2183.0
Indicator value	0.9	0.9	0	0	0.9	0.9	0.9	1.8

Licensee Comments: none

# Unplanned Scrams with Complications



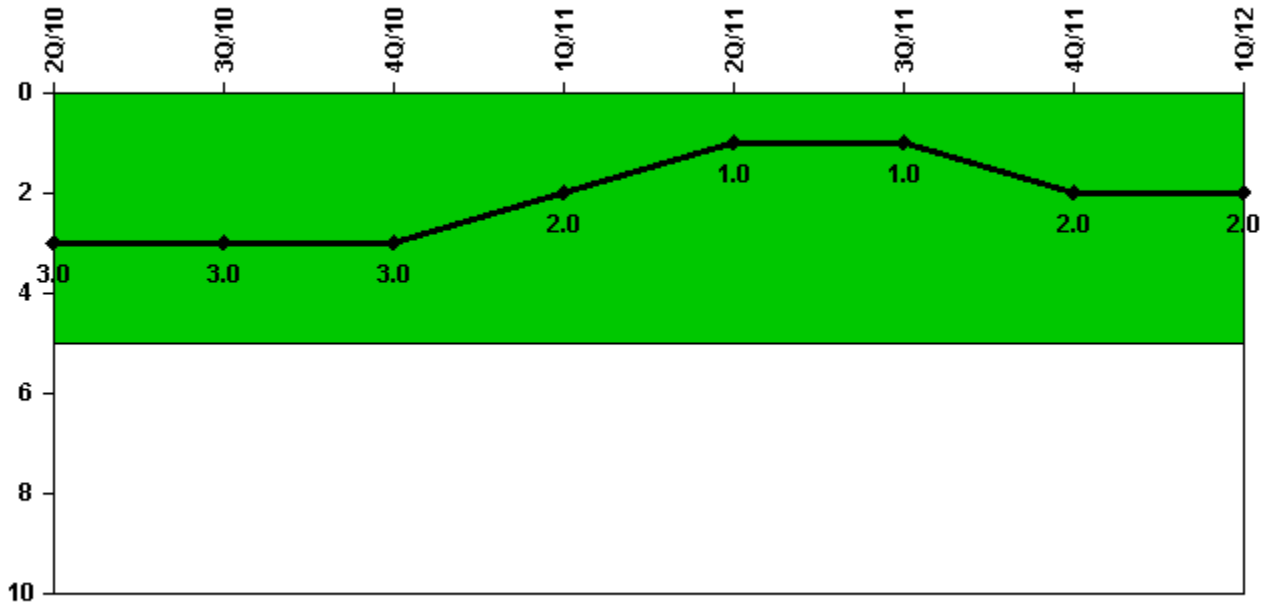
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	2	0	0	0	1	0	1	0
Indicator value	3	3	3	2	1	1	2	2

Licensee Comments:

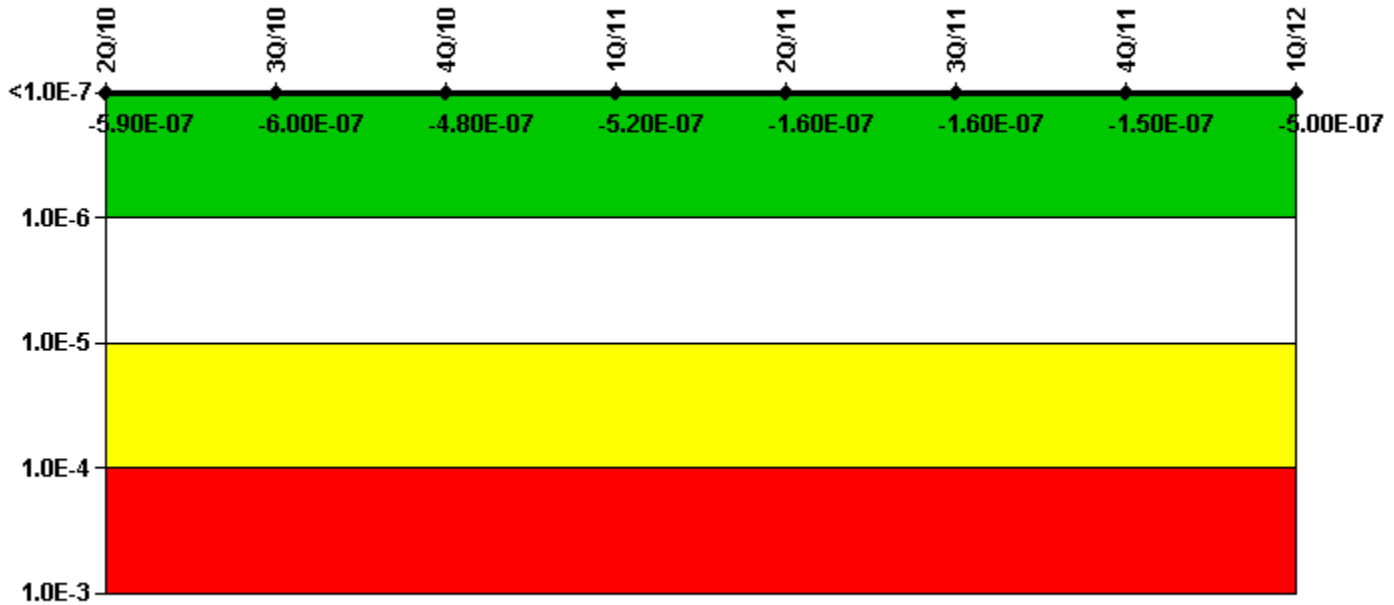
4Q/11: A SSFF associated with the Heat Removal System was reported in Licensee Event Report 2011-005-00.

3Q/11: A change file is being submitted this quarter to provide a Licensee Event Report number for a Safety System Functional Failure that occurred in the second quarter of 2011. There is no change to the PI value or color.

2Q/11: There was one Safety System Functional Failure in the 2nd quarter of 2011 reported under License Event Report 2011-003-00.

2Q/10: LER 2010-003-00 reported on 5/20/10 that a worn fuel oil supply line on the A Emergency Diesel Generator would not support 30 days of operation. While this condition existed, the opposite train Emergency Diesel Generator had been voluntarily taken out of service. LER 2008-004-01 reported on 6/2/10 that a loose intercell connection on the B Battery existed for several days and during that same period, safety systems in the A Train were taken out of service.

# Mitigating Systems Performance Index, Emergency AC Power System



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

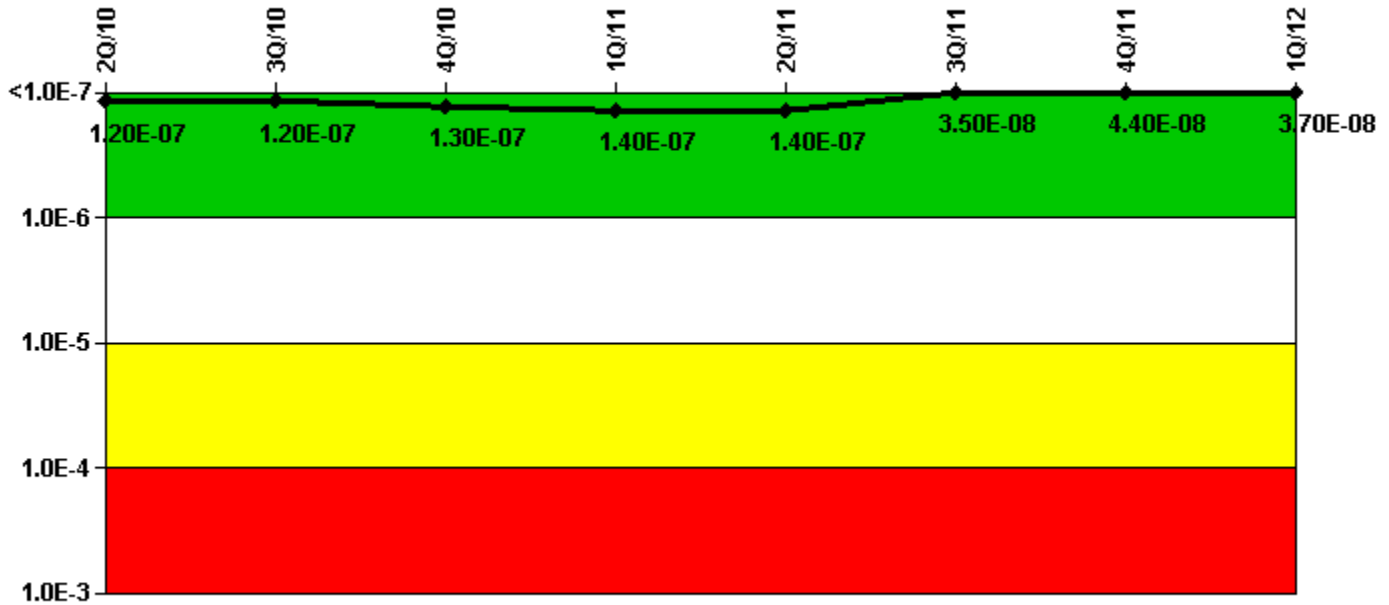
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	9.10E-09	7.37E-10	1.20E-07	7.11E-08	1.37E-07	1.38E-07	1.38E-07	4.65E-08
URI ( $\Delta$ CDF)	-5.98E-07	-5.96E-07	-5.96E-07	-5.91E-07	-3.00E-07	-2.99E-07	-2.86E-07	-5.47E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.90E-07	-6.00E-07	-4.80E-07	-5.20E-07	-1.60E-07	-1.60E-07	-1.50E-07	-5.00E-07

Licensee Comments:

1Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and is effective with the 1st quarter 2012 MSPI data.

# Mitigating Systems Performance Index, High Pressure Injection System



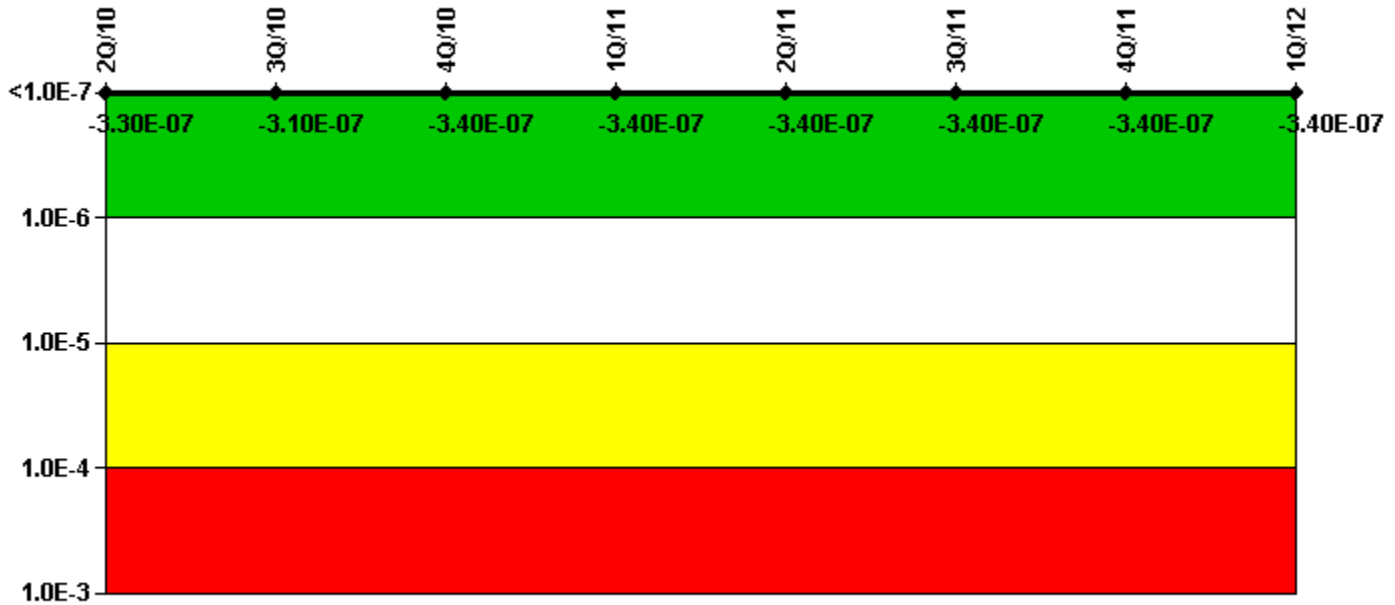
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	-2.98E-10	-2.98E-10	2.92E-09	1.05E-08	1.06E-08	1.29E-08	1.29E-08	1.74E-09
URI ( $\Delta$ CDF)	1.23E-07	1.24E-07	1.29E-07	1.32E-07	1.29E-07	2.20E-08	3.10E-08	3.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.20E-07	1.20E-07	1.30E-07	1.40E-07	1.40E-07	3.50E-08	4.40E-08	3.70E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



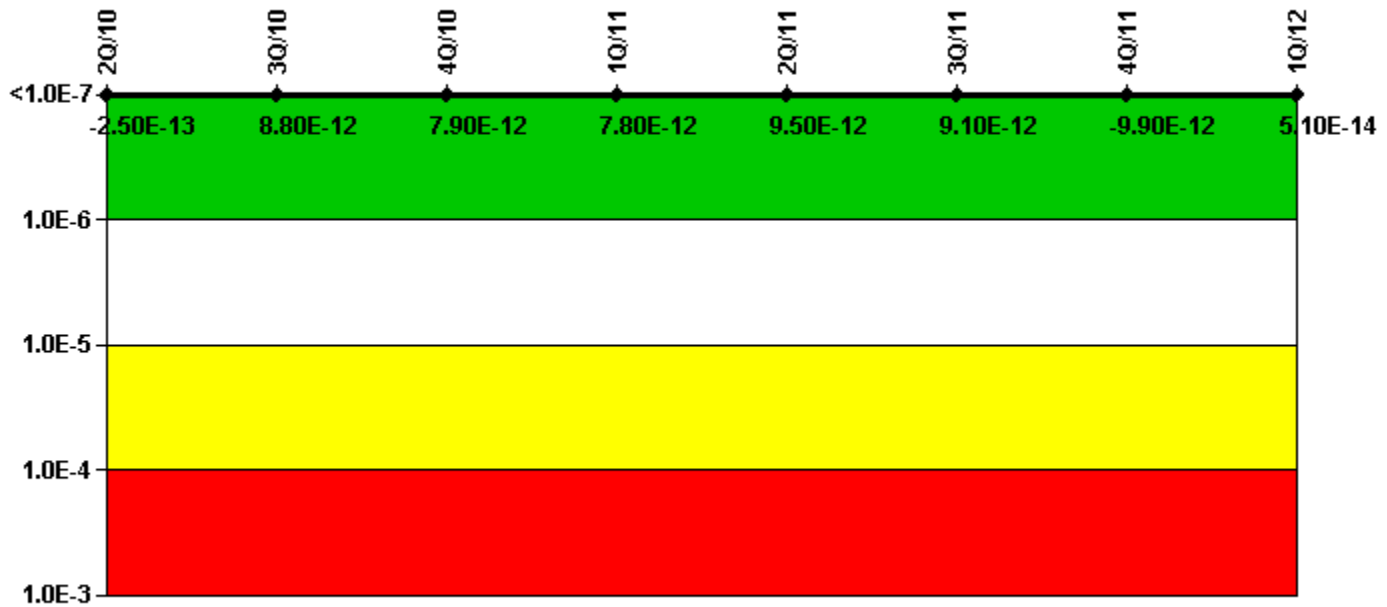
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	-3.35E-08	-7.46E-09	-3.68E-08	-4.30E-08	-4.30E-08	-4.30E-08	-4.27E-08	-4.27E-08
URI ( $\Delta$ CDF)	-2.98E-07	-2.98E-07	-3.00E-07	-2.99E-07	-2.96E-07	-3.02E-07	-3.00E-07	-2.96E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.30E-07	-3.10E-07	-3.40E-07	-3.40E-07	-3.40E-07	-3.40E-07	-3.40E-07	-3.40E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



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

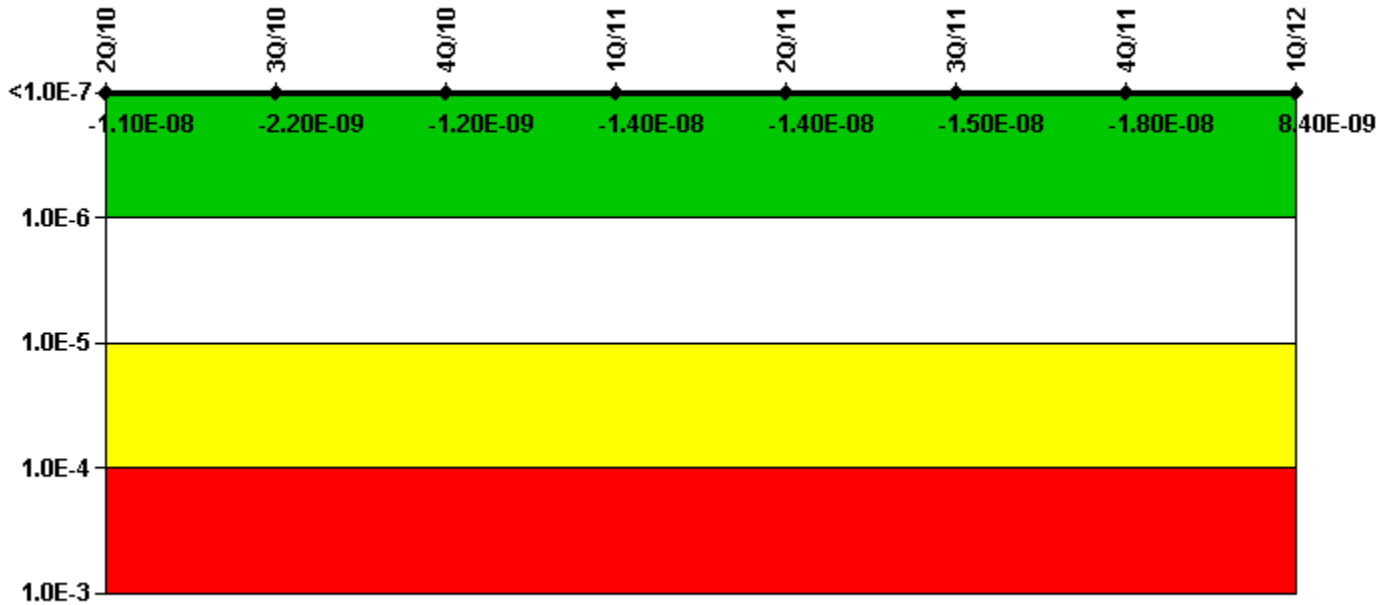
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	1.17E-11	2.07E-11	1.98E-11	1.98E-11	2.14E-11	2.08E-11	1.61E-12	1.17E-11
URI ( $\Delta$ CDF)	-1.20E-11	-1.19E-11	-1.18E-11	-1.20E-11	-1.18E-11	-1.16E-11	-1.16E-11	-1.16E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-13	8.80E-12	7.90E-12	7.80E-12	9.50E-12	9.10E-12	-9.90E-12	5.10E-14

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



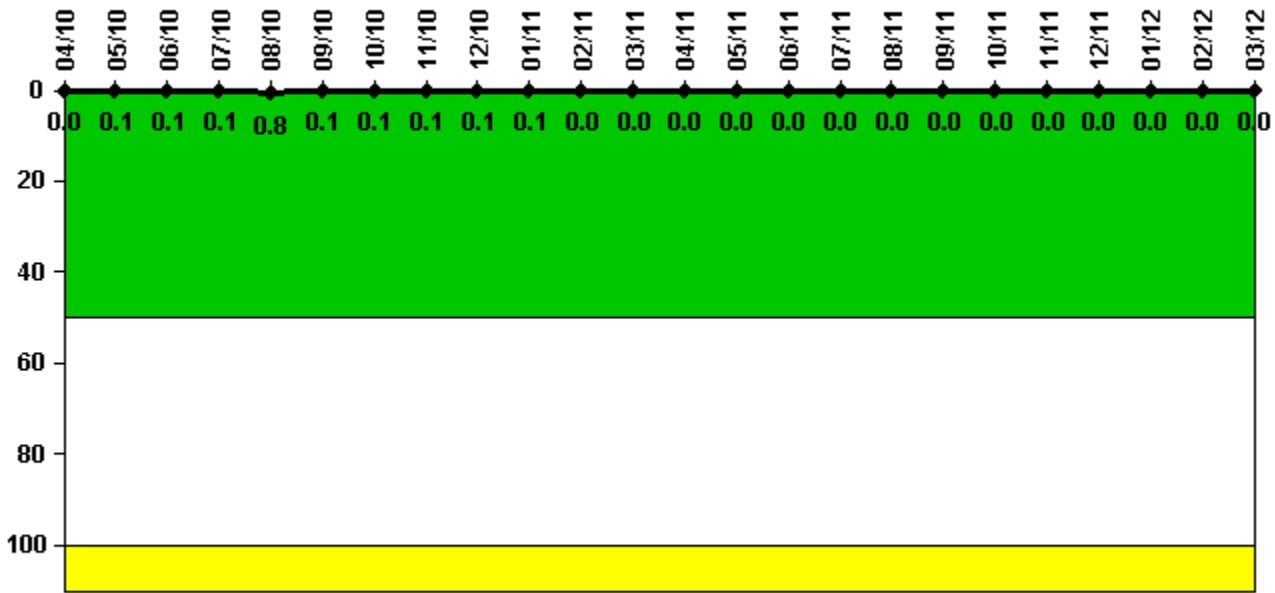
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	3.13E-09	1.03E-08	1.16E-08	1.20E-08	1.20E-08	1.13E-08	8.18E-09	3.38E-08
URI ( $\Delta$ CDF)	-1.45E-08	-1.25E-08	-1.29E-08	-2.62E-08	-2.63E-08	-2.67E-08	-2.59E-08	-2.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-08	-2.20E-09	-1.20E-09	-1.40E-08	-1.40E-08	-1.50E-08	-1.80E-08	8.40E-09

Licensee Comments: none

# Reactor Coolant System Activity



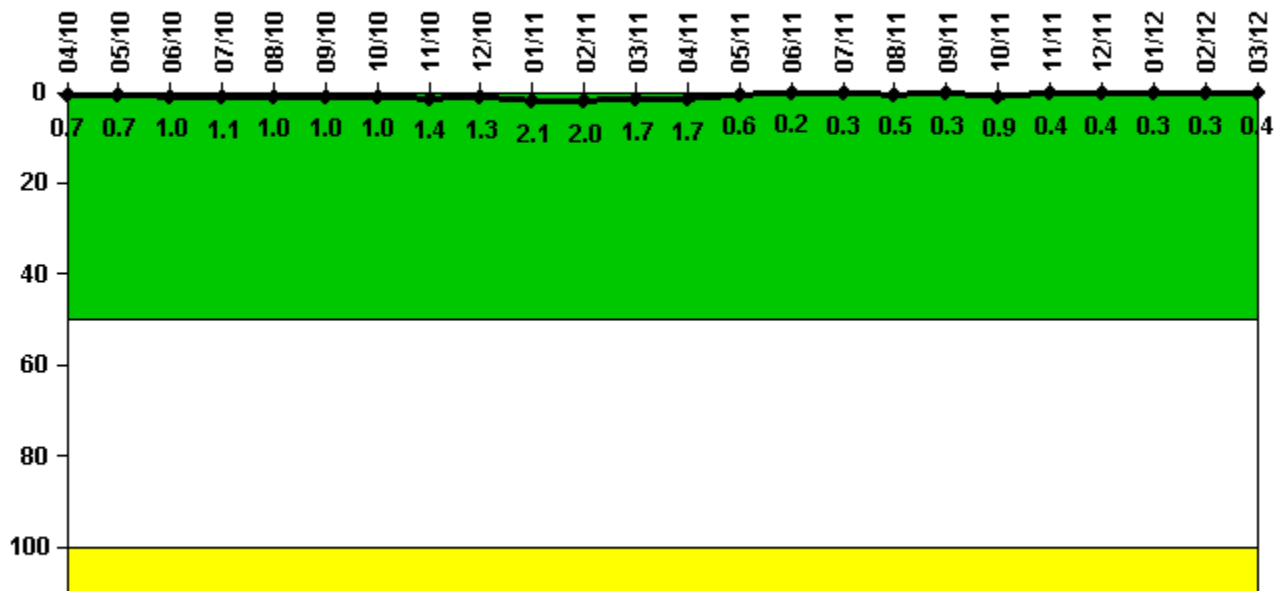
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.000407	0.001150	0.000694	0.000724	0.008380	0.000762	0.000788	0.000759	0.000813	0.000814	0.000482	0.000278
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	0.1	0.1	0.1	0.8	0.1	0.1	0.1	0.1	0.1	0	0
Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000292	0.000248	0.000418	0.000436	0.000424	0.000413	0.000307	0.000449	0.000314	0.000499	0.000331	0.000355
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

Licensee Comments: none

## Reactor Coolant System Leakage



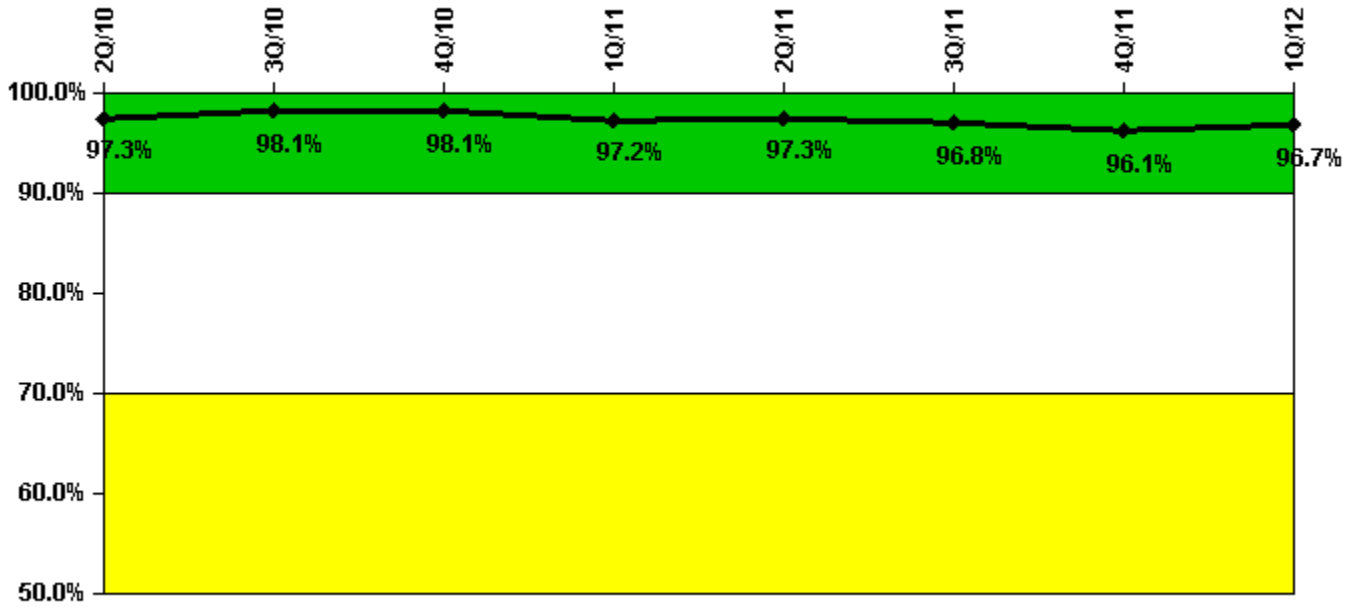
Thresholds: White > 50.0 Yellow > 100.0

### Notes

<b>Reactor Coolant System Leakage</b>	<b>4/10</b>	<b>5/10</b>	<b>6/10</b>	<b>7/10</b>	<b>8/10</b>	<b>9/10</b>	<b>10/10</b>	<b>11/10</b>	<b>12/10</b>	<b>1/11</b>	<b>2/11</b>	<b>3/11</b>
Maximum leakage	0.070	0.070	0.100	0.110	0.100	0.100	0.100	0.140	0.130	0.210	0.200	0.170
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	0.7	1.0	1.1	1.0	1.0	1.0	1.4	1.3	2.1	2.0	1.7
<b>Reactor Coolant System Leakage</b>	<b>4/11</b>	<b>5/11</b>	<b>6/11</b>	<b>7/11</b>	<b>8/11</b>	<b>9/11</b>	<b>10/11</b>	<b>11/11</b>	<b>12/11</b>	<b>1/12</b>	<b>2/12</b>	<b>3/12</b>
Maximum leakage	0.170	0.060	0.020	0.030	0.050	0.030	0.090	0.040	0.040	0.030	0.030	0.040
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	1.7	0.6	0.2	0.3	0.5	0.3	0.9	0.4	0.4	0.3	0.3	0.4

Licensee Comments: none

## Drill/Exercise Performance



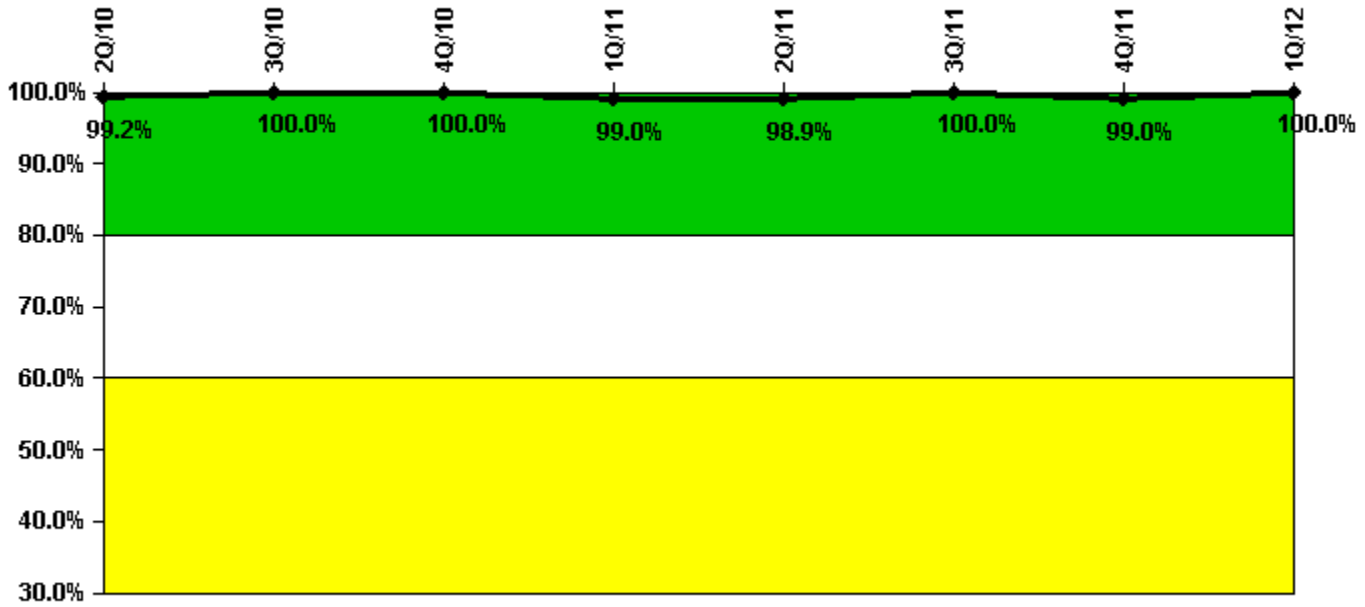
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	55.0	52.0	28.0	24.0	12.0	17.0	37.0	36.0
Total opportunities	58.0	52.0	28.0	26.0	12.0	18.0	40.0	36.0
Indicator value	97.3%	98.1%	98.1%	97.2%	97.3%	96.8%	96.1%	96.7%

Licensee Comments: none

## ERO Drill Participation



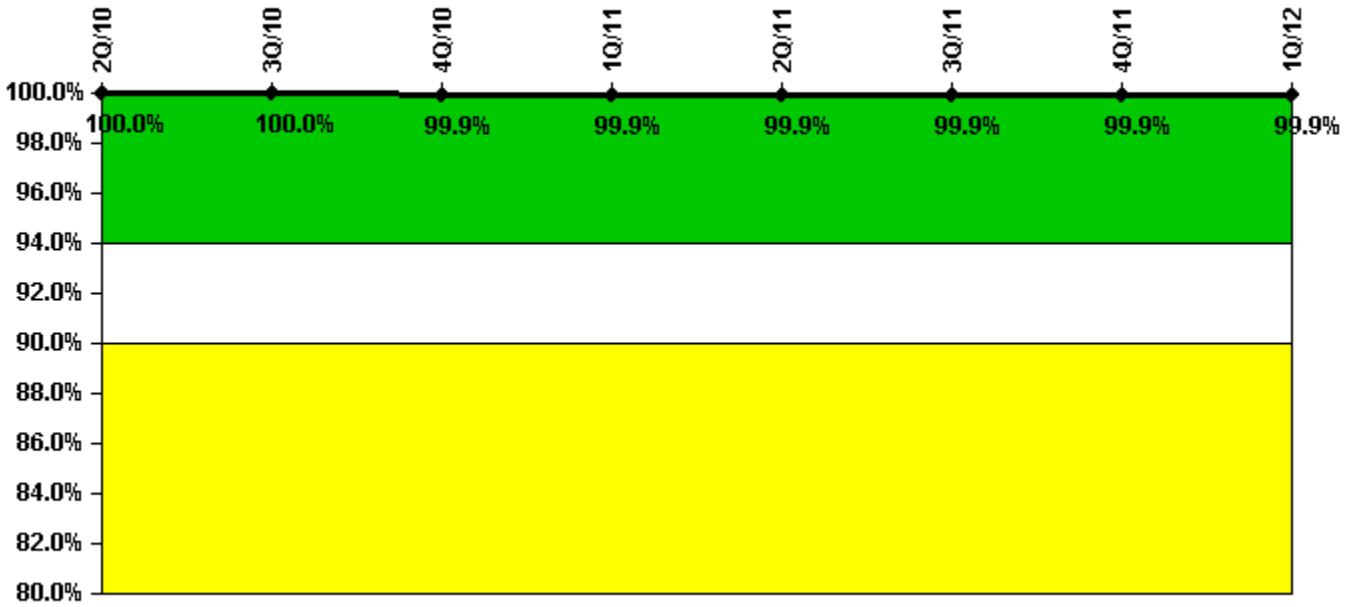
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	122.0	123.0	125.0	101.0	93.0	92.0	97.0	93.0
Total Key personnel	123.0	123.0	125.0	102.0	94.0	92.0	98.0	93.0
Indicator value	99.2%	100.0%	100.0%	99.0%	98.9%	100.0%	99.0%	100.0%

Licensee Comments: none

# Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	438	438	437	438	438	437	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	100.0%	100.0%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

---

# Occupational Exposure Control Effectiveness



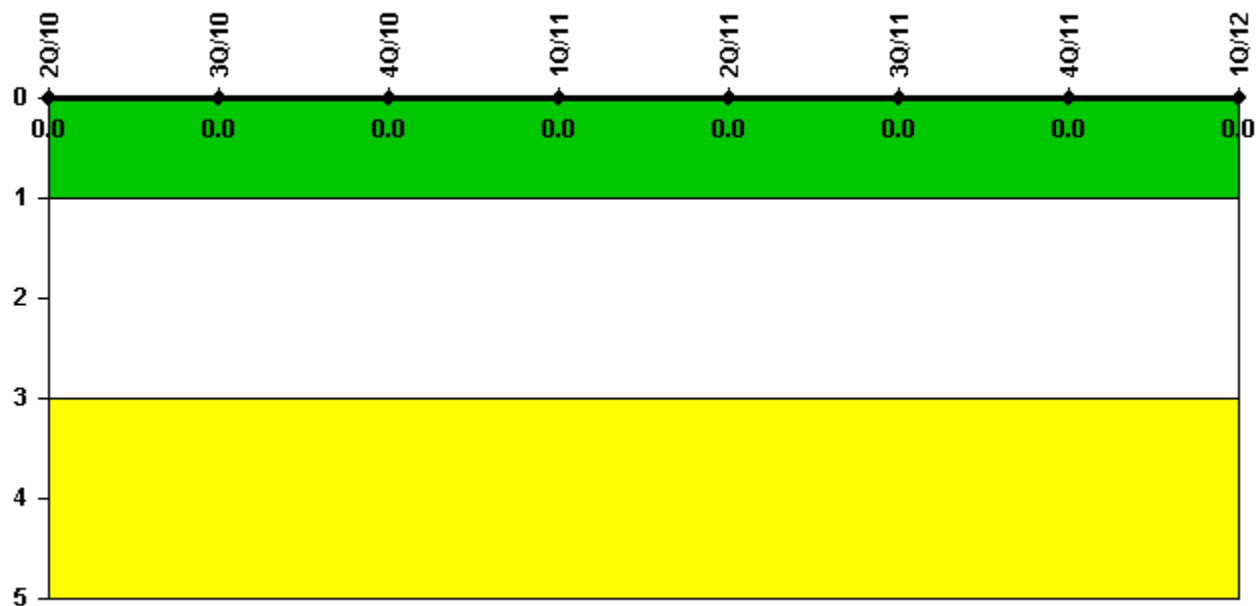
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments:

2Q/11: Revised the June 2011 RETS/ODCM Radiological Effluent occurrence from 1 to 0 to correct a typographical error. There was no RETS/ODCM Radiological Effluent occurrence in the 2nd quarter 2011. This change does not affect the PI color, which remains green.

[Security](#) information not publicly available.