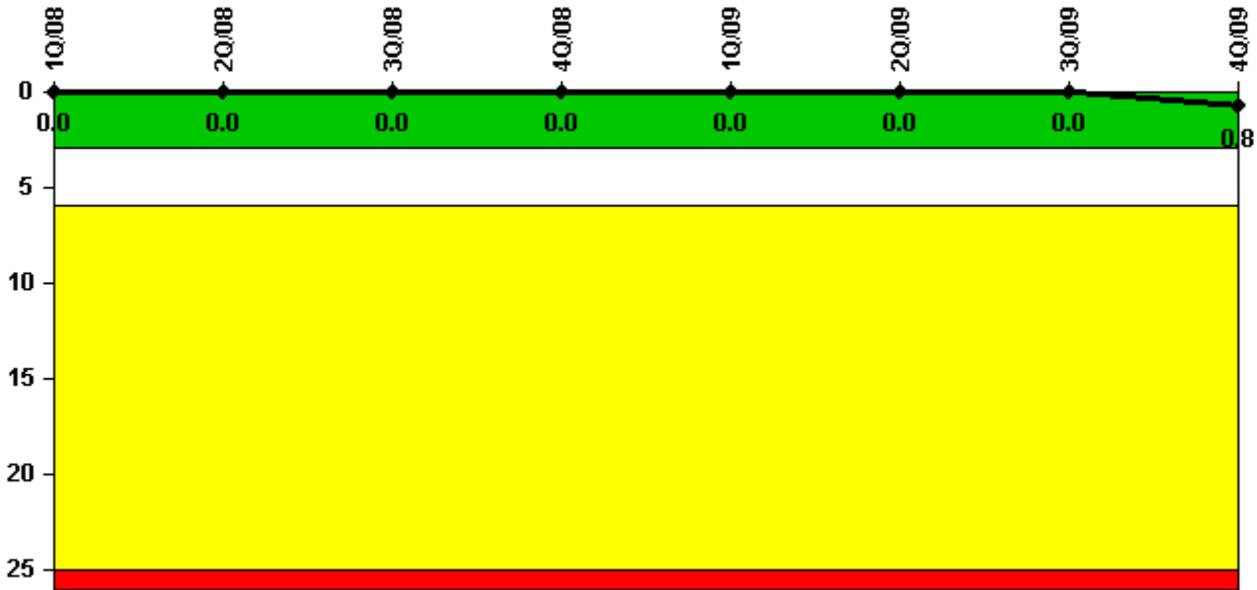


# Ginna

## 4Q/2009 Performance Indicators

Licensee's General Comments: MS08 and MS06 indicators did not change color as a result of the adjusted data.

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

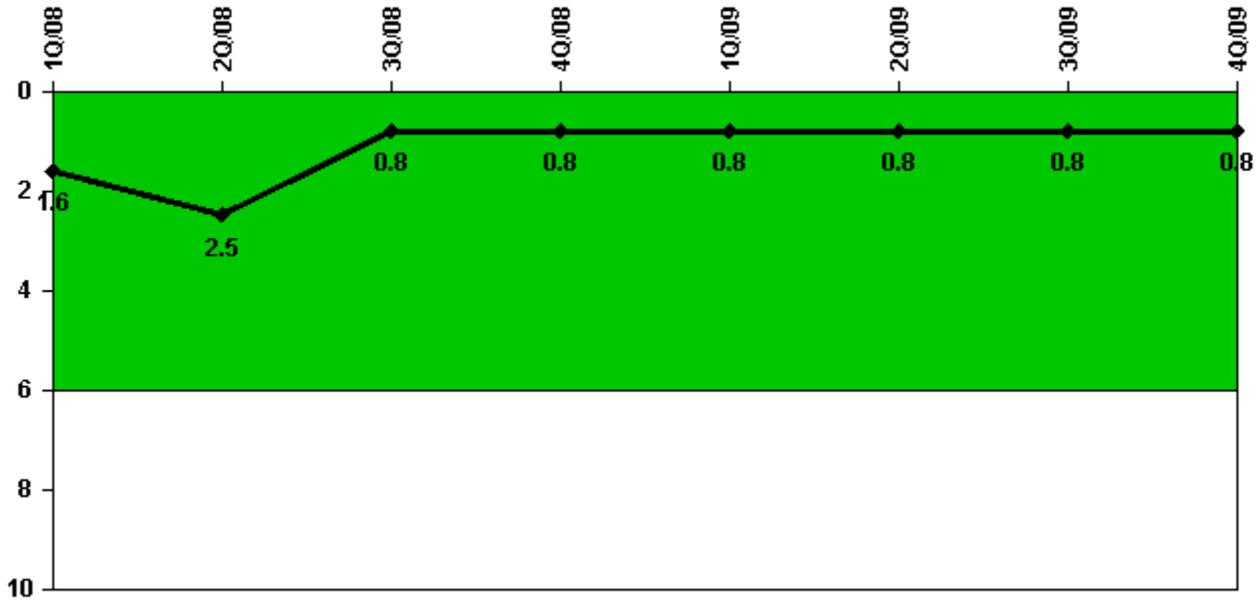
### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2183.0	1697.6	2208.0	2209.0	2159.0	2184.0	1796.0	2125.0
Indicator value	0	0	0	0	0	0	0	0.8

Licensee Comments: none

---

## Unplanned Power Changes per 7000 Critical Hrs



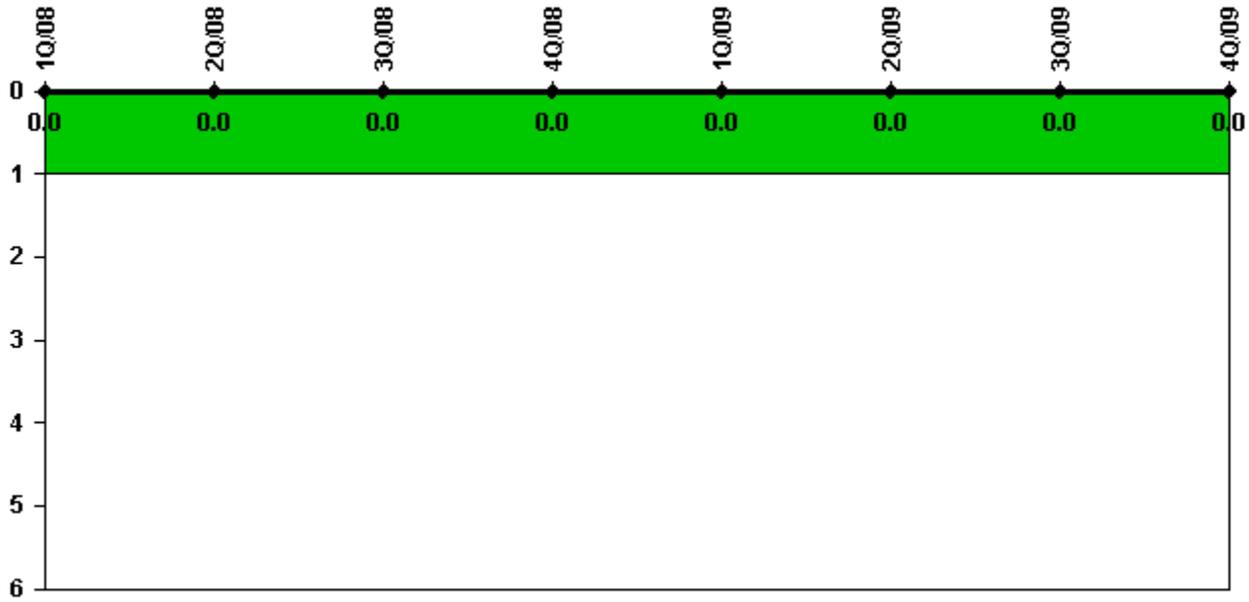
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	1.0	0	0	0	1.0	0	0
Critical hours	2183.0	1697.6	2208.0	2209.0	2159.0	2184.0	1796.0	2125.0
Indicator value	1.6	2.5	0.8	0.8	0.8	0.8	0.8	0.8

Licensee Comments: none

# Unplanned Scrams with Complications



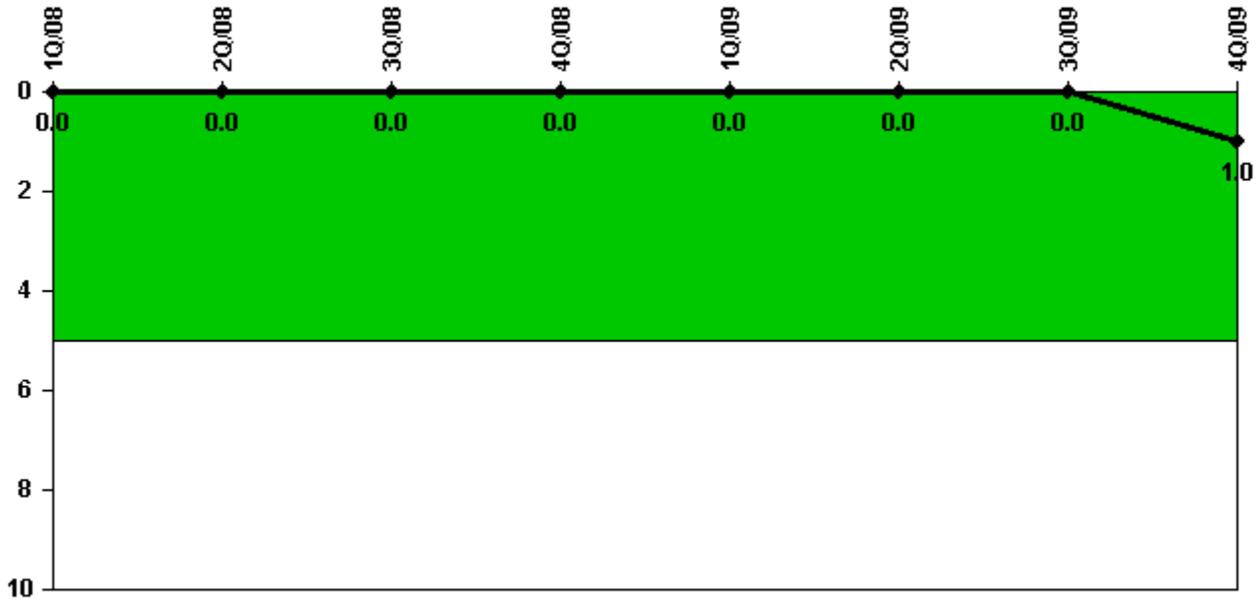
Thresholds: White > 1.0

## Notes

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

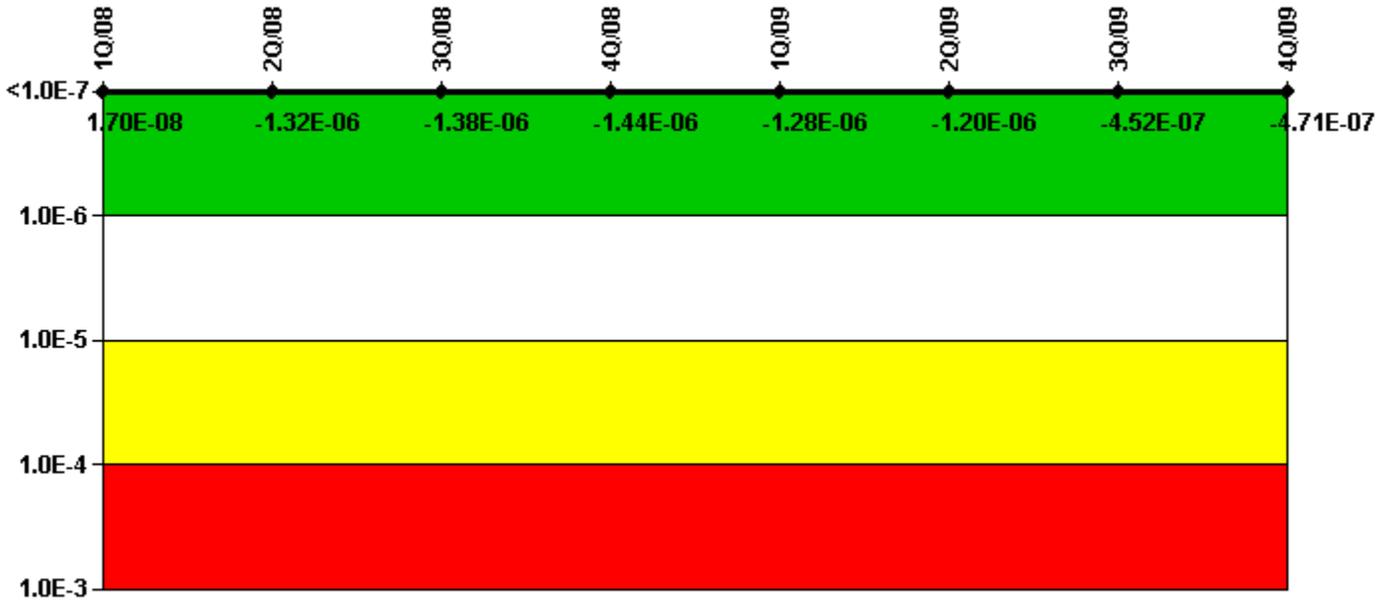
### Notes

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

Licensee Comments:

4Q/09: 4Q 2009: LER 2009-001

# Mitigating Systems Performance Index, Emergency AC Power System



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

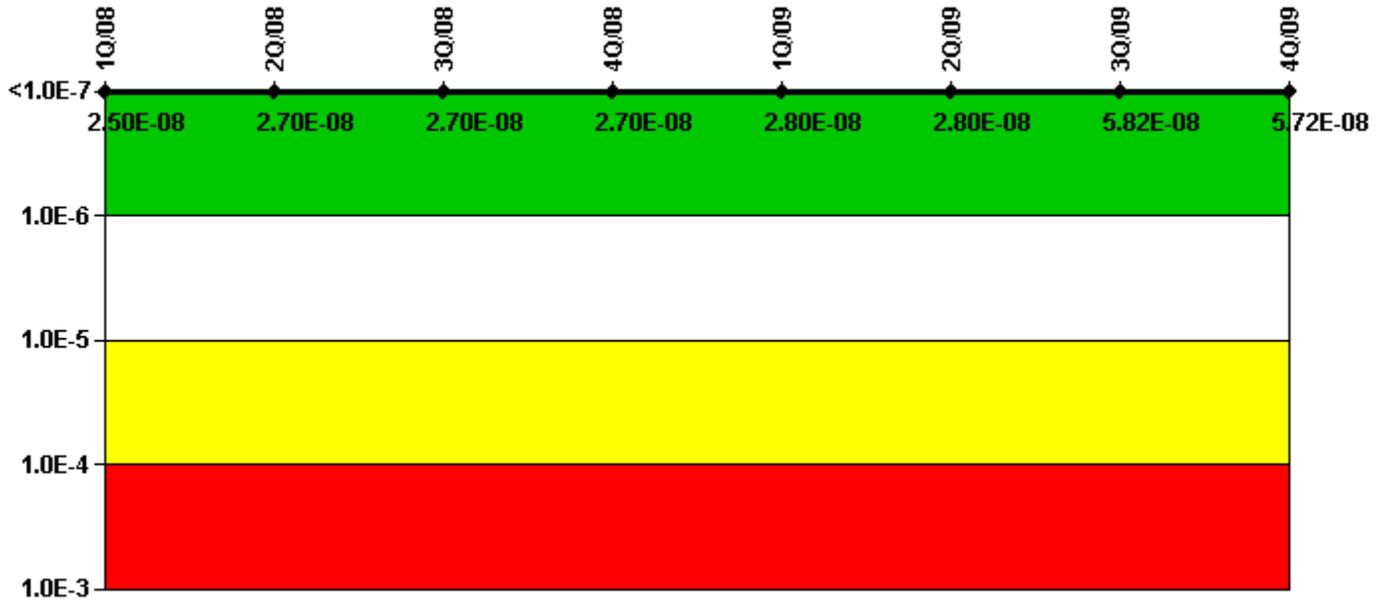
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	3.50E-08	-2.10E-08	-7.90E-08	-1.40E-07	1.80E-08	9.70E-08	8.80E-08	7.90E-08
URI ( $\Delta$ CDF)	-1.80E-08	-1.30E-06	-1.30E-06	-1.30E-06	-1.30E-06	-1.30E-06	-5.40E-07	-5.50E-07
PLE	NO							
Indicator value	1.70E-08	-1.32E-06	-1.38E-06	-1.44E-06	-1.28E-06	-1.20E-06	-4.52E-07	-4.71E-07

Licensee Comments:

4Q/09: Reporting of start and load demands and run hours for the Emergency AC power system was changed from estimated data to actual data beginning 4Q2009 to improve the accuracy of the system's monitored performance. The color of the indicator has not changed.

# Mitigating Systems Performance Index, High Pressure Injection System



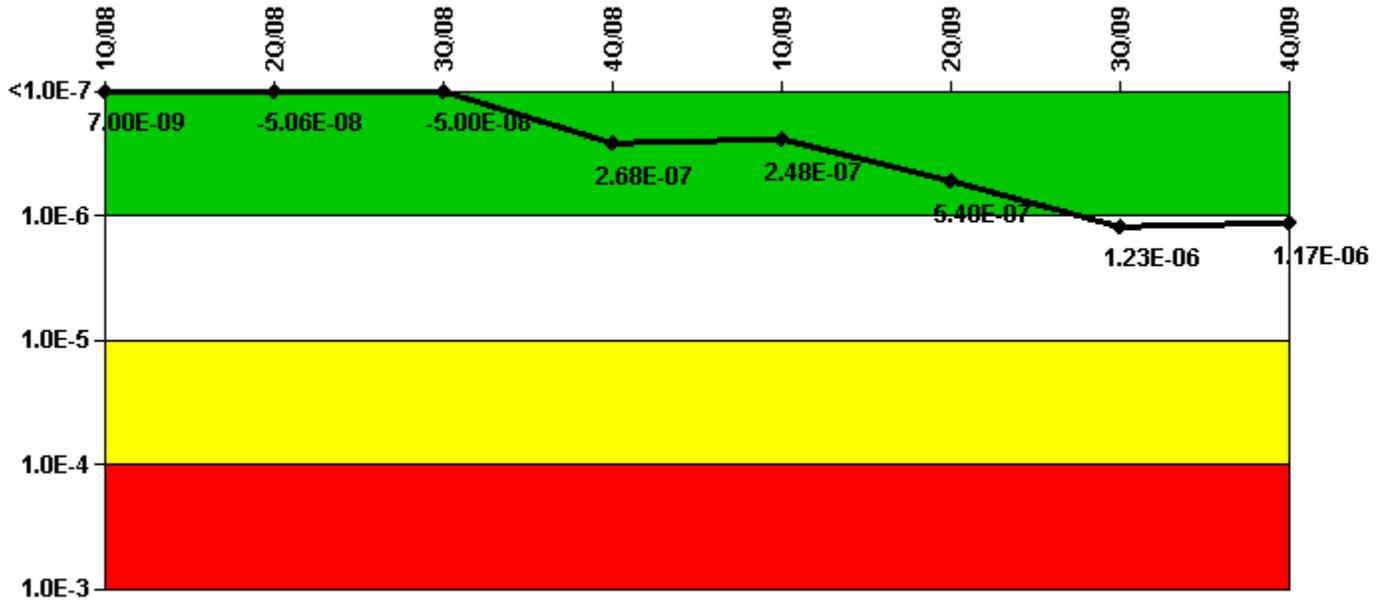
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	4.60E-08	4.70E-08	4.70E-08	4.70E-08	4.70E-08	4.70E-08	6.30E-08	6.20E-08
URI ( $\Delta$ CDF)	-2.10E-08	-2.00E-08	-2.00E-08	-2.00E-08	-1.90E-08	-1.90E-08	-4.80E-09	-4.80E-09
PLE	NO							
Indicator value	2.50E-08	2.70E-08	2.70E-08	2.70E-08	2.80E-08	2.80E-08	5.82E-08	5.72E-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	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	6.20E-08	6.40E-09	8.00E-09	5.80E-08	4.80E-08	1.10E-07	3.10E-07	3.00E-07
URI ( $\Delta$ CDF)	-5.50E-08	-5.70E-08	-5.80E-08	2.10E-07	2.00E-07	4.30E-07	9.20E-07	8.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.00E-09	-5.06E-08	-5.00E-08	2.68E-07	2.48E-07	5.40E-07	1.23E-06	1.17E-06

## Licensee Comments:

4Q/09: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

3Q/09: The Ginna PRA (GPRA) was updated to meet the quality standards in Regulatory Guide (RG) 1.200. Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

2Q/09: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

1Q/09: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

4Q/08: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

3Q/08: Reporting of start demands and run hours for the Heat Removal System pumps was changed from

estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

2Q/08: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

1Q/08: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

4Q/07: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

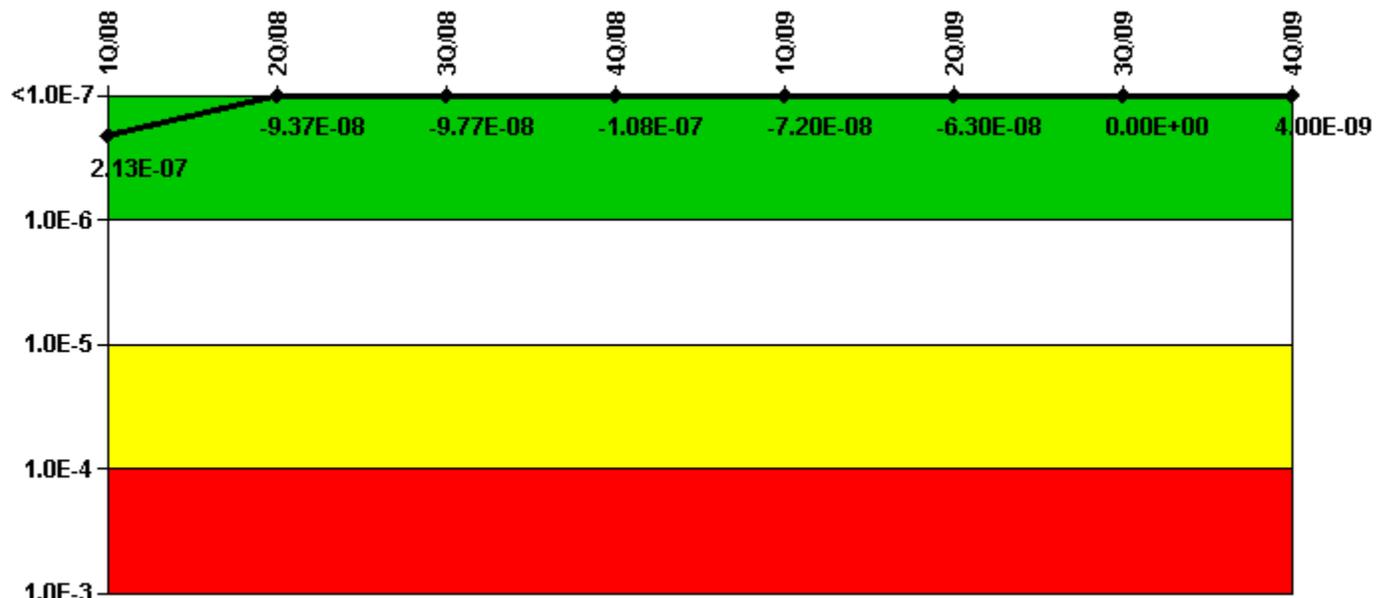
3Q/07: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

2Q/07: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

1Q/07: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

4Q/06: Reporting of start demands and run hours for the Heat Removal System pumps was changed from estimated data to actual data to improve the accuracy of the system's monitored performance. Data has been adjusted from October 2006 forward. The color of the indicator has not changed.

### Mitigating Systems Performance Index, Residual Heat Removal System



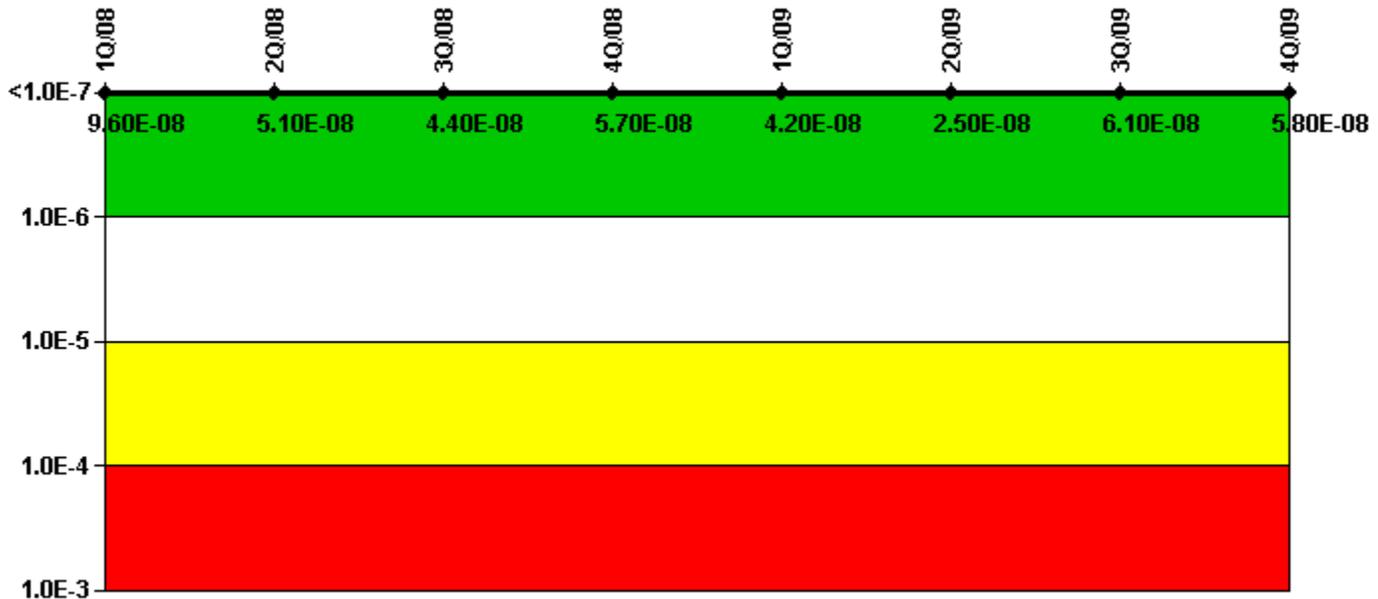
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	3.40E-09	2.30E-09	2.30E-09	2.30E-09	3.80E-08	5.70E-08	2.20E-08	2.40E-08
URI ( $\Delta$ CDF)	2.10E-07	-9.60E-08	-1.00E-07	-1.10E-07	-1.10E-07	-1.20E-07	-2.20E-08	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.13E-07	-9.37E-08	-9.77E-08	-1.08E-07	-7.20E-08	-6.30E-08	0.00E+00	4.00E-09

Licensee Comments: none

## Mitigating Systems Performance Index, Cooling Water Systems



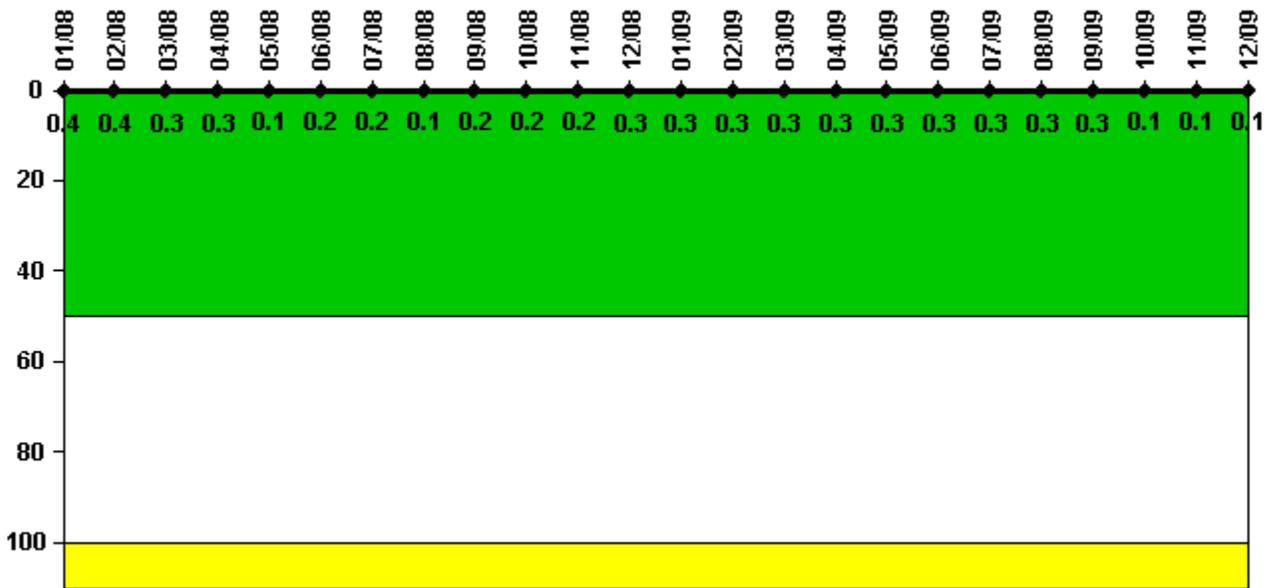
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	7.70E-08	7.90E-08	7.20E-08	8.50E-08	6.90E-08	5.20E-08	9.00E-08	8.60E-08
URI ( $\Delta$ CDF)	1.90E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.70E-08	-2.70E-08	-2.90E-08	-2.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.60E-08	5.10E-08	4.40E-08	5.70E-08	4.20E-08	2.50E-08	6.10E-08	5.80E-08

Licensee Comments: none

## Reactor Coolant System Activity



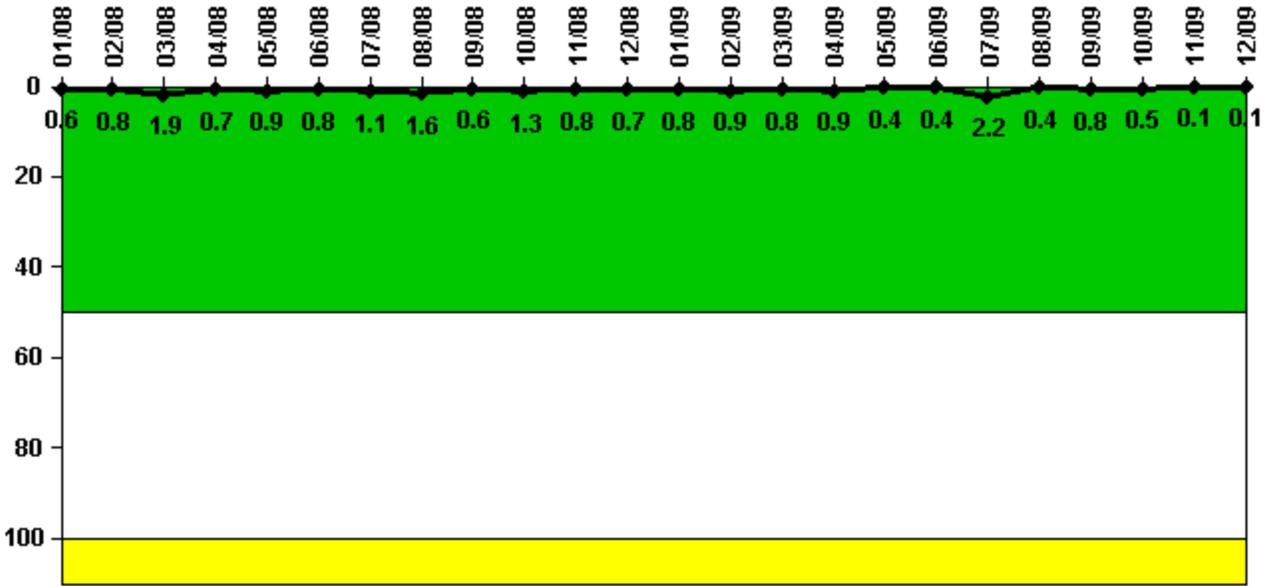
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.003520	0.003710	0.003010	0.003490	0.001250	0.001500	0.001710	0.001460	0.001620	0.002190	0.002260	0.002690
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	0.4	0.4	0.3	0.3	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.3
Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.002720	0.002680	0.002550	0.002590	0.002630	0.002700	0.002800	0.002830	0.002530	0.001000	0.001130	0.001270
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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1

Licensee Comments: none

## Reactor Coolant System Leakage



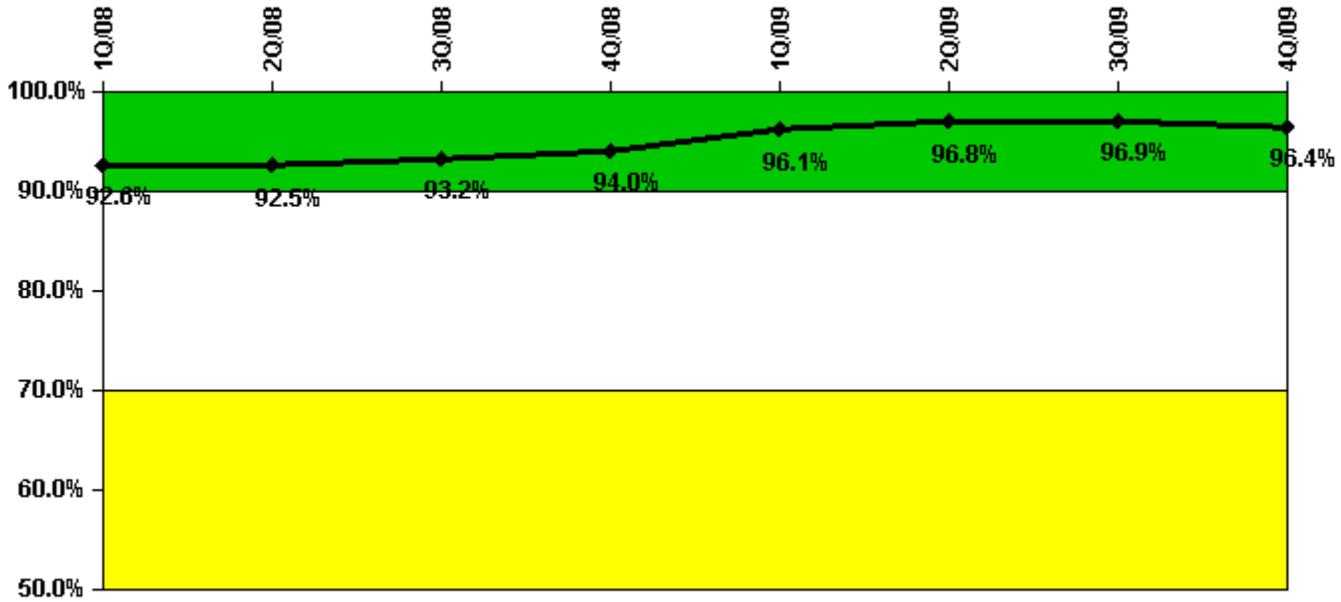
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.060	0.076	0.188	0.067	0.089	0.081	0.107	0.158	0.058	0.134	0.077	0.069
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	0.8	1.9	0.7	0.9	0.8	1.1	1.6	0.6	1.3	0.8	0.7
Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	0.078	0.094	0.080	0.089	0.038	0.035	0.216	0.035	0.079	0.045	0.012	0.012
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	0.8	0.9	0.4	0.4	2.2	0.4	0.8	0.5	0.1	0.1

Licensee Comments: none

## Drill/Exercise Performance



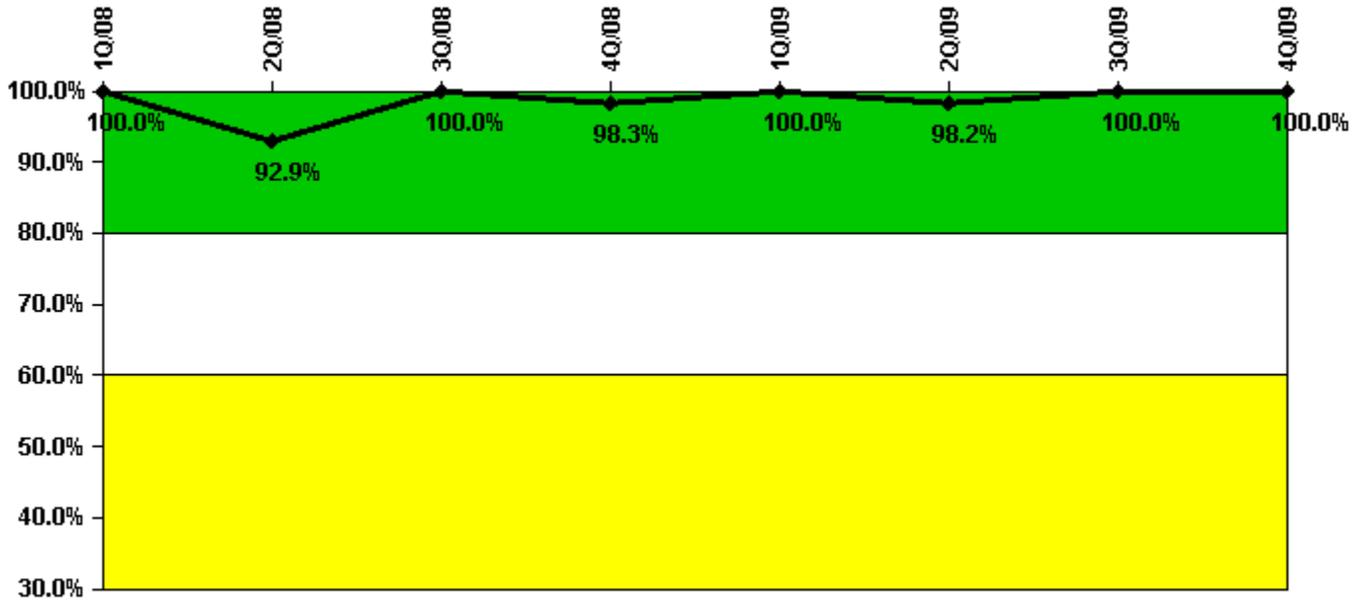
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	63.0	0	38.0	32.0	55.0	15.0	14.0	23.0
Total opportunities	68.0	0	38.0	32.0	55.0	16.0	14.0	26.0
Indicator value	92.6%	92.5%	93.2%	94.0%	96.1%	96.8%	96.9%	96.4%

Licensee Comments: none

## ERO Drill Participation



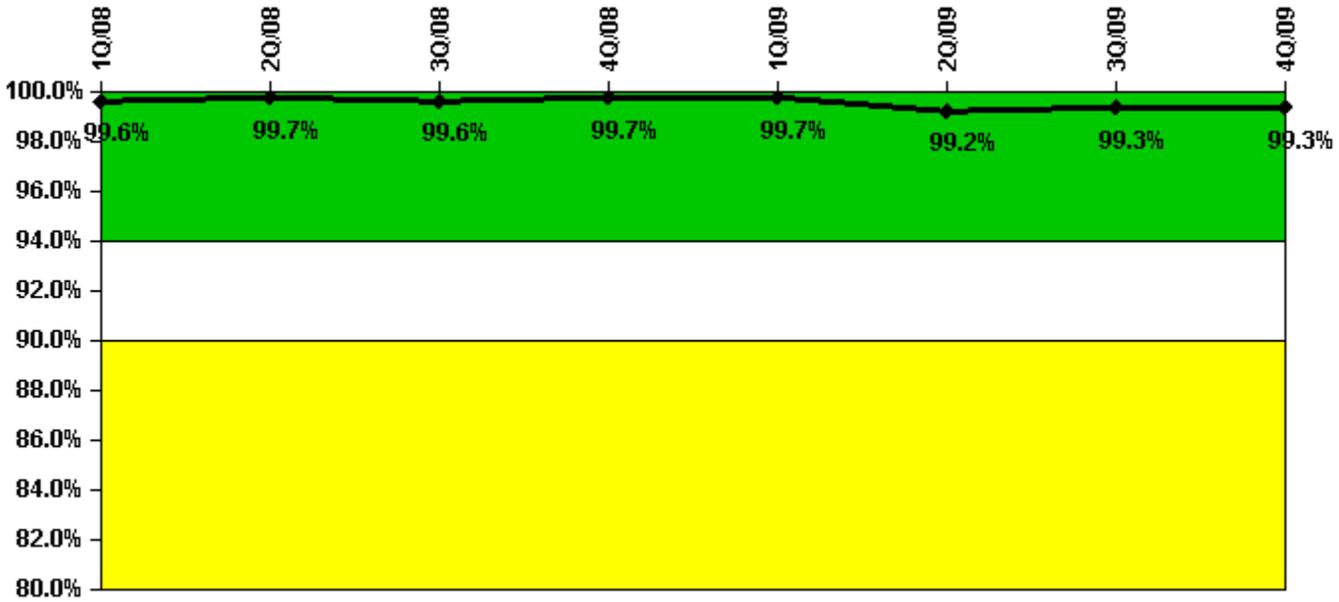
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	57.0	52.0	57.0	58.0	58.0	54.0	53.0	50.0
Total Key personnel	57.0	56.0	57.0	59.0	58.0	55.0	53.0	50.0
Indicator value	100.0%	92.9%	100.0%	98.3%	100.0%	98.2%	100.0%	100.0%

Licensee Comments: none

# Alert & Notification System



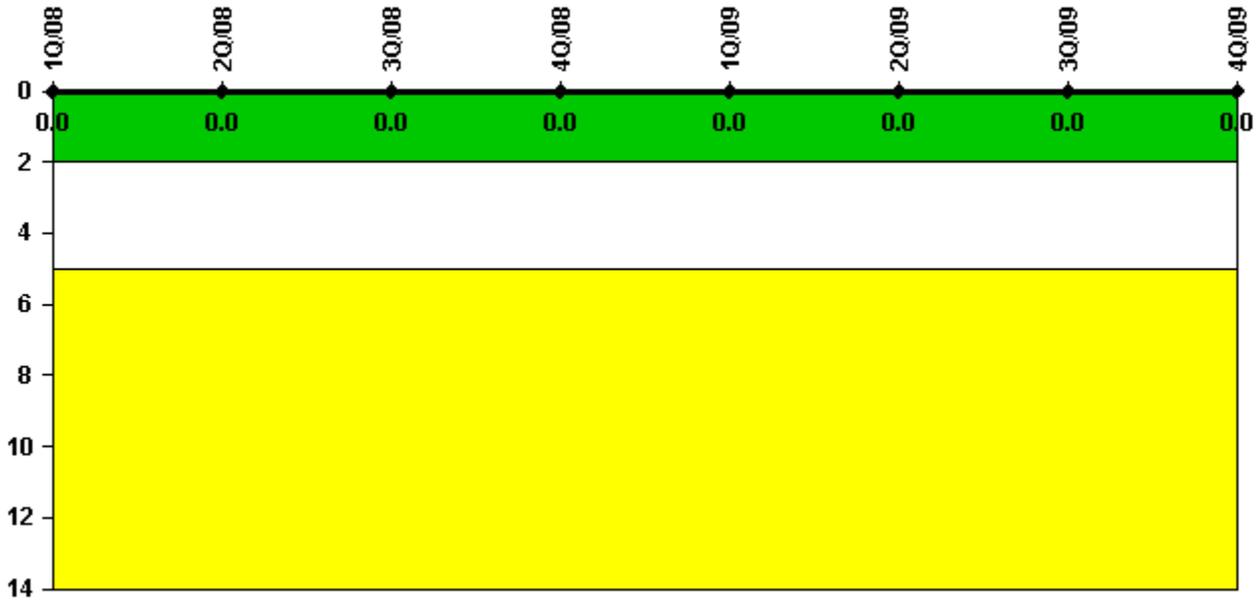
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	1241	1245	1239	1248	1245	1221	1243	1247
Total sirens-tests	1248	1247	1247	1248	1248	1248	1248	1248
Indicator value	99.6%	99.7%	99.6%	99.7%	99.7%	99.2%	99.3%	99.3%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



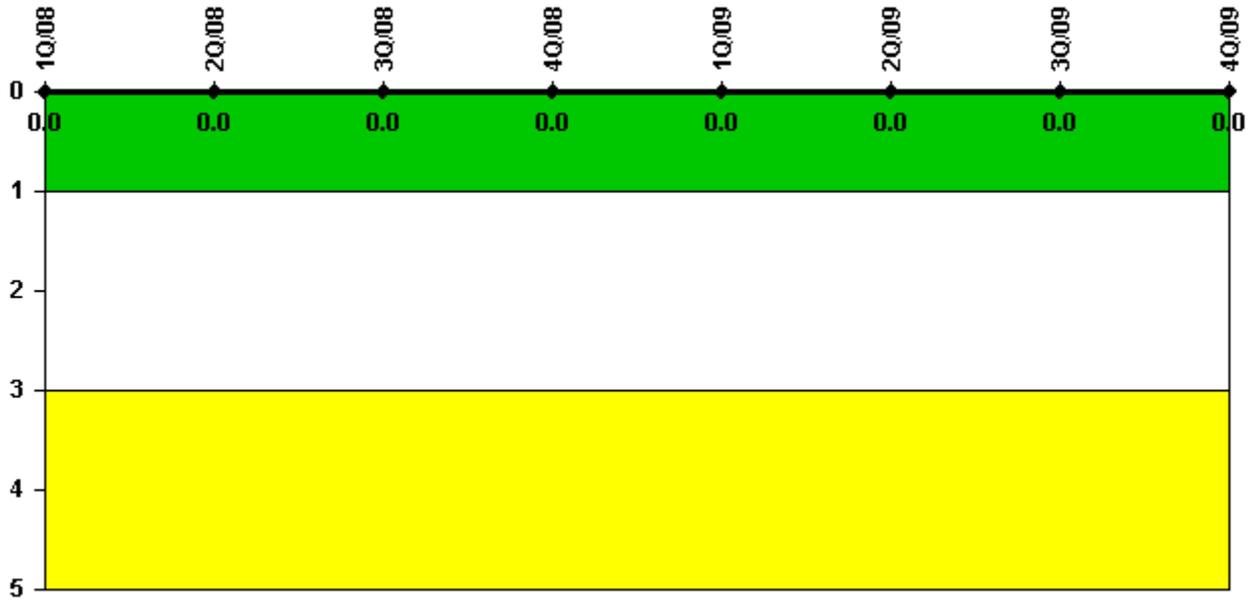
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
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>							

Licensee Comments: none

# RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

## Notes

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