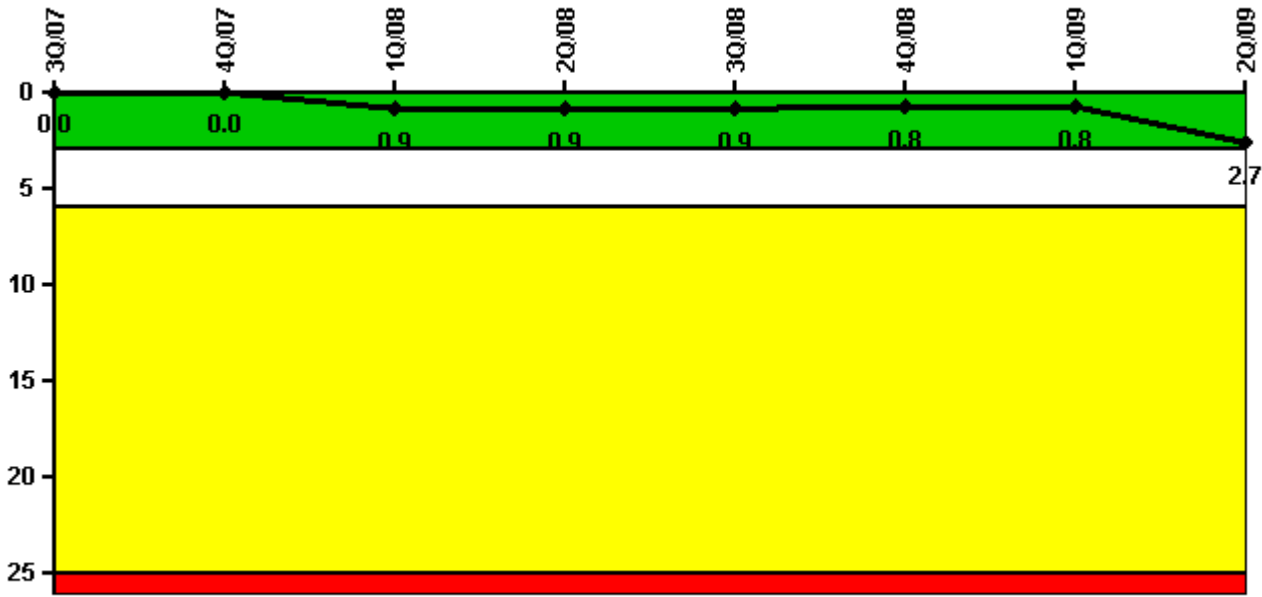


# Sequoyah 1

## 2Q/2009 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



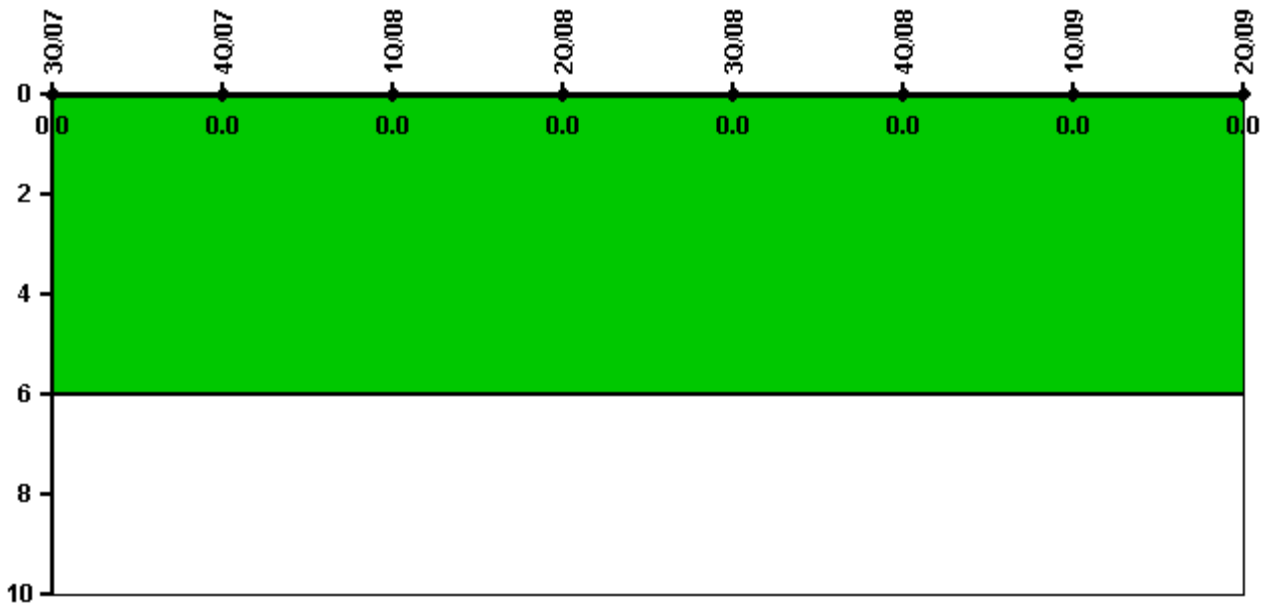
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned scrams	0	0	1.0	0	0	0	1.0	2.0
Critical hours	2208.0	1169.4	2145.1	2184.0	2208.0	2209.0	2019.9	1441.3
Indicator value	0	0	0.9	0.9	0.9	0.8	0.8	2.7

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



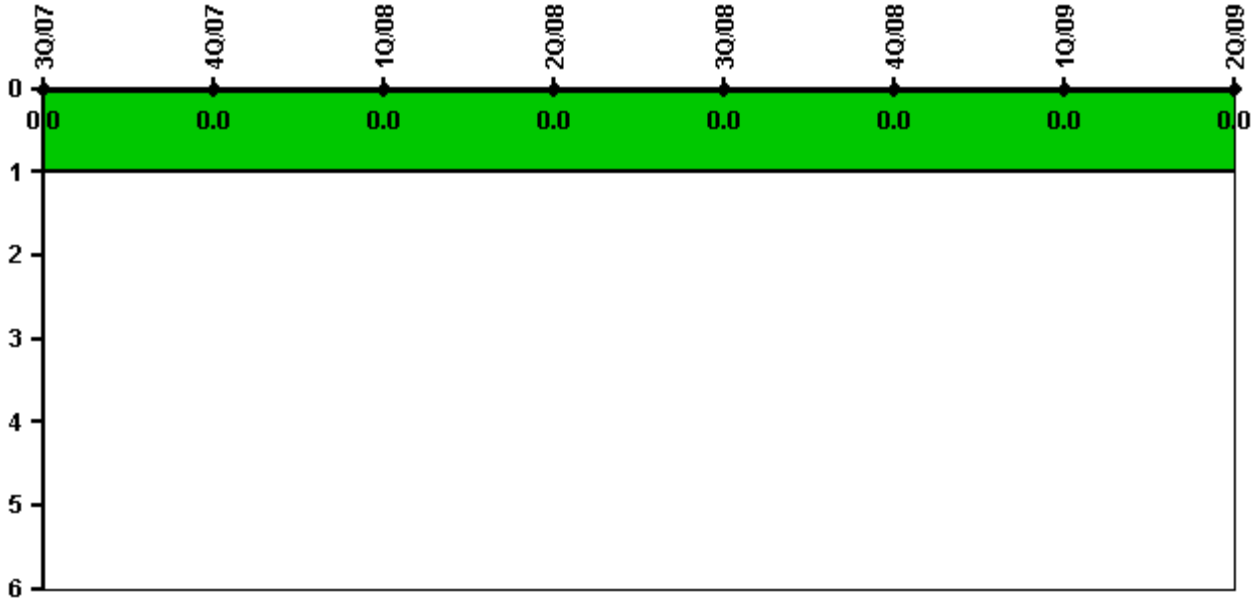
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	1169.4	2145.1	2184.0	2208.0	2209.0	2019.9	1441.3
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

# Unplanned Scrams with Complications



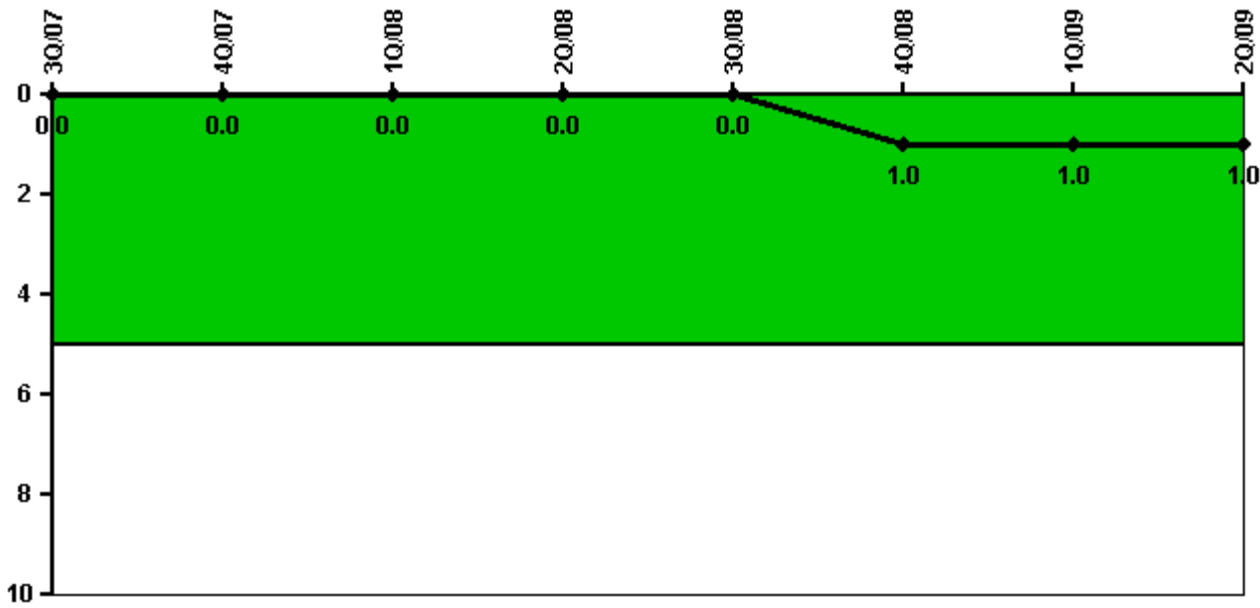
Thresholds: White > 1.0

**Notes**

Unplanned Scrams with Complications	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/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

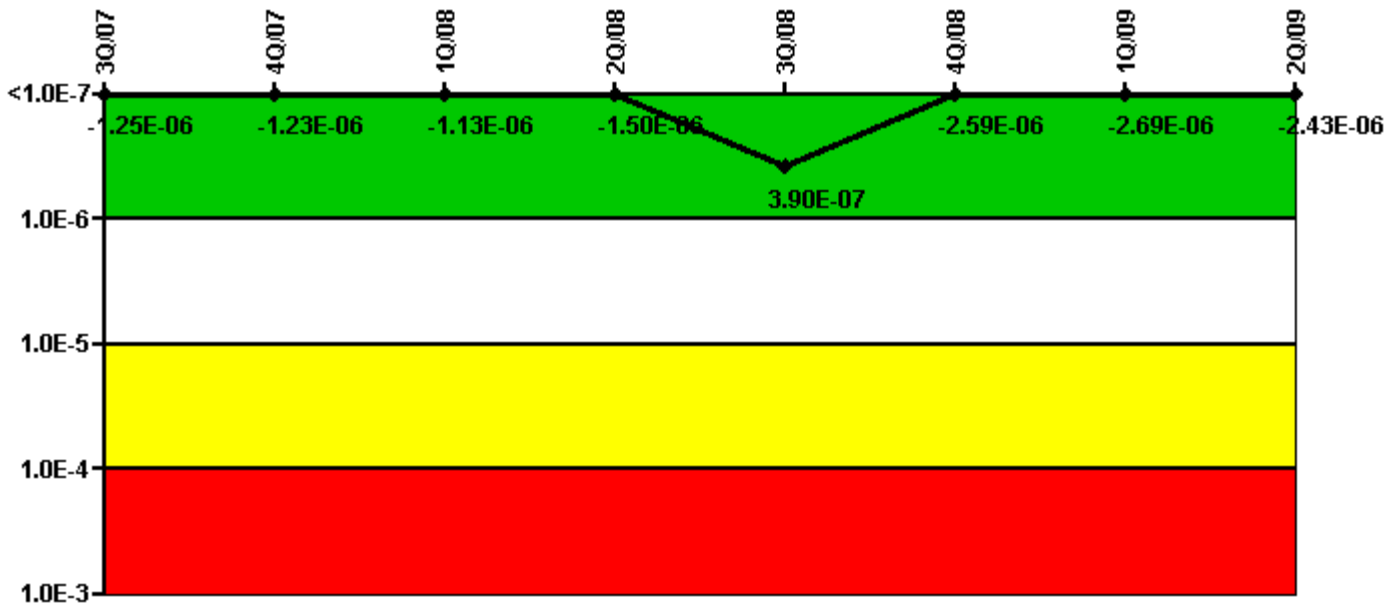
### Notes

Safety System Functional Failures (PWR)	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	0	0	0	0	0	1	1	1

Licensee Comments:

4Q/08: The event reported in LER 50-327/2008-002-00 was subsequently determined to be a condition that could have prevented the fulfillment of a safety function and therefore should have been reported as a safety system functional failure. A revised LER was submitted on June 16, 2009.

# Mitigating Systems Performance Index, Emergency AC Power System



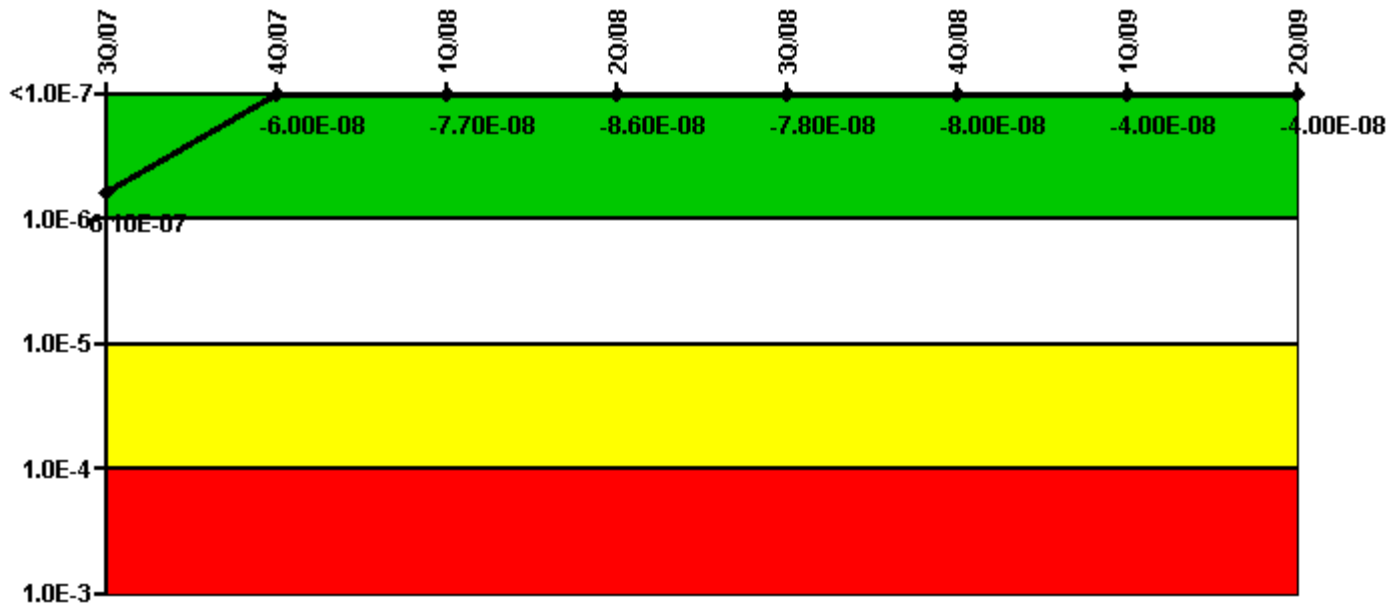
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI ( $\Delta$ CDF)	1.50E-07	1.70E-07	1.70E-07	-2.00E-07	-2.90E-07	-2.90E-07	-2.90E-07	-3.20E-08
URI ( $\Delta$ CDF)	-1.40E-06	-1.40E-06	-1.30E-06	-1.30E-06	6.80E-07	-2.30E-06	-2.40E-06	-2.40E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.25E-06	-1.23E-06	-1.13E-06	-1.50E-06	3.90E-07	-2.59E-06	-2.69E-06	-2.43E-06

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



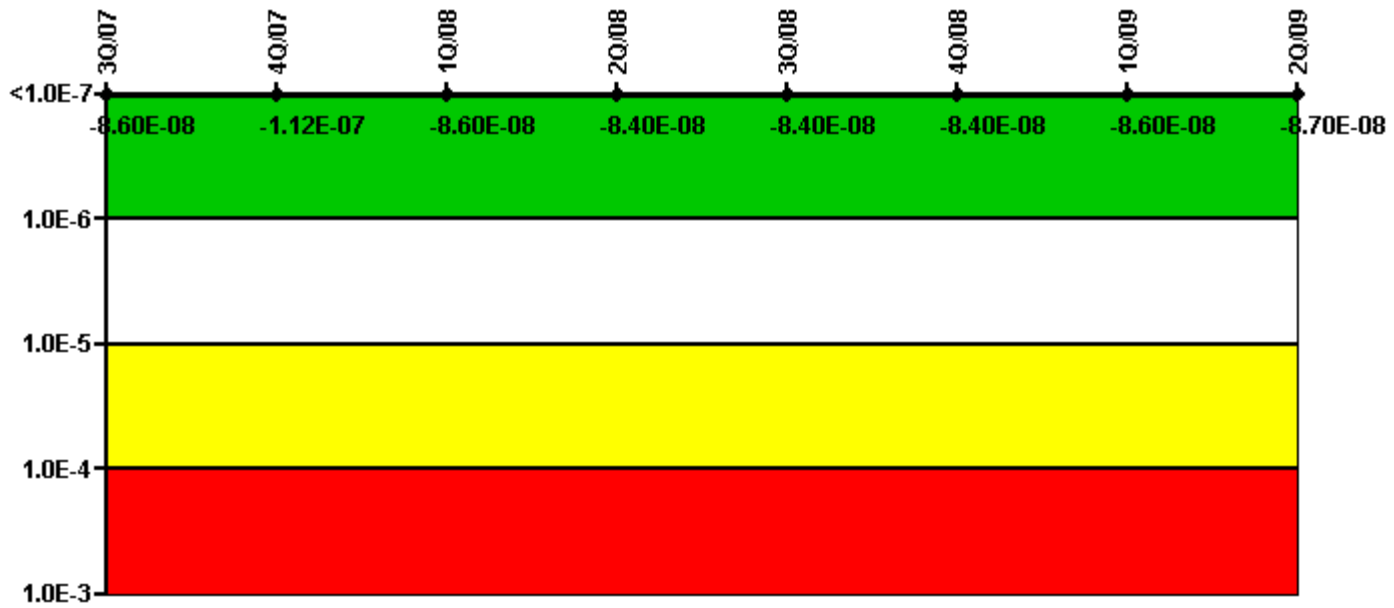
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	1.10E-07	1.10E-07	9.30E-08	8.40E-08	9.20E-08	9.00E-08	1.30E-07	1.30E-07
URI (ΔCDF)	5.00E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.10E-07	-6.00E-08	-7.70E-08	-8.60E-08	-7.80E-08	-8.00E-08	-4.00E-08	-4.00E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



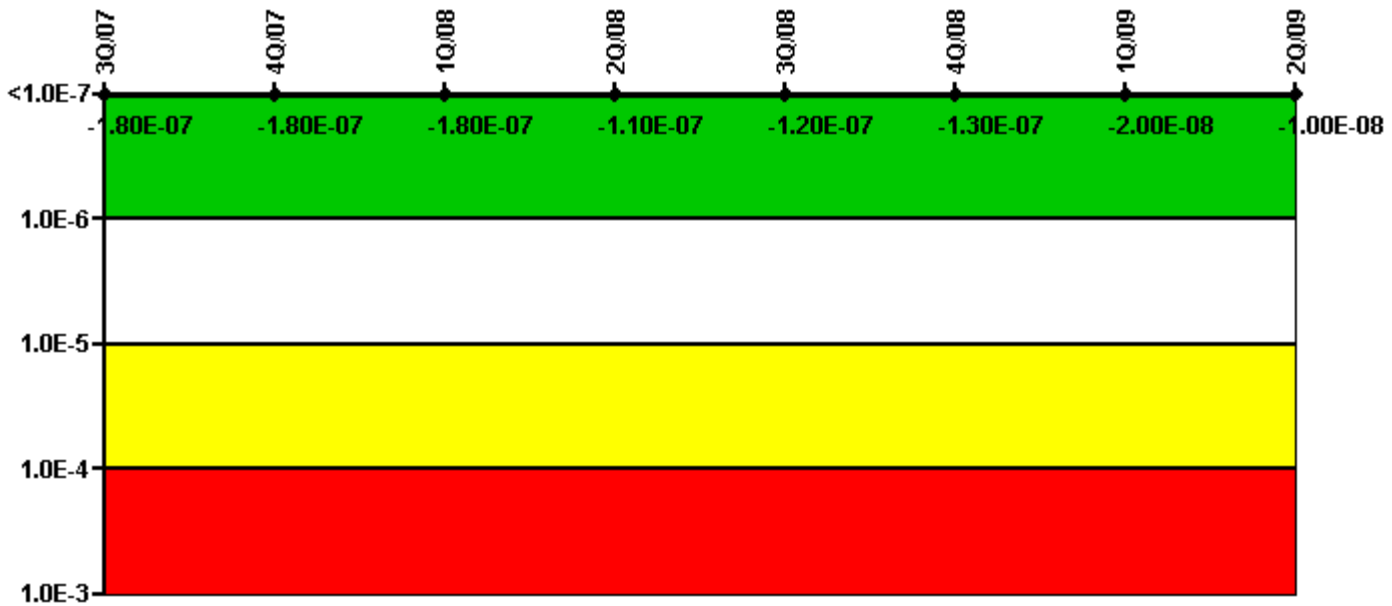
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI ( $\Delta$ CDF)	-2.20E-08	-2.30E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08
URI ( $\Delta$ CDF)	-6.40E-08	-8.90E-08	-6.60E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.60E-08	-6.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.60E-08	-1.12E-07	-8.60E-08	-8.40E-08	-8.40E-08	-8.40E-08	-8.60E-08	-8.70E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



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

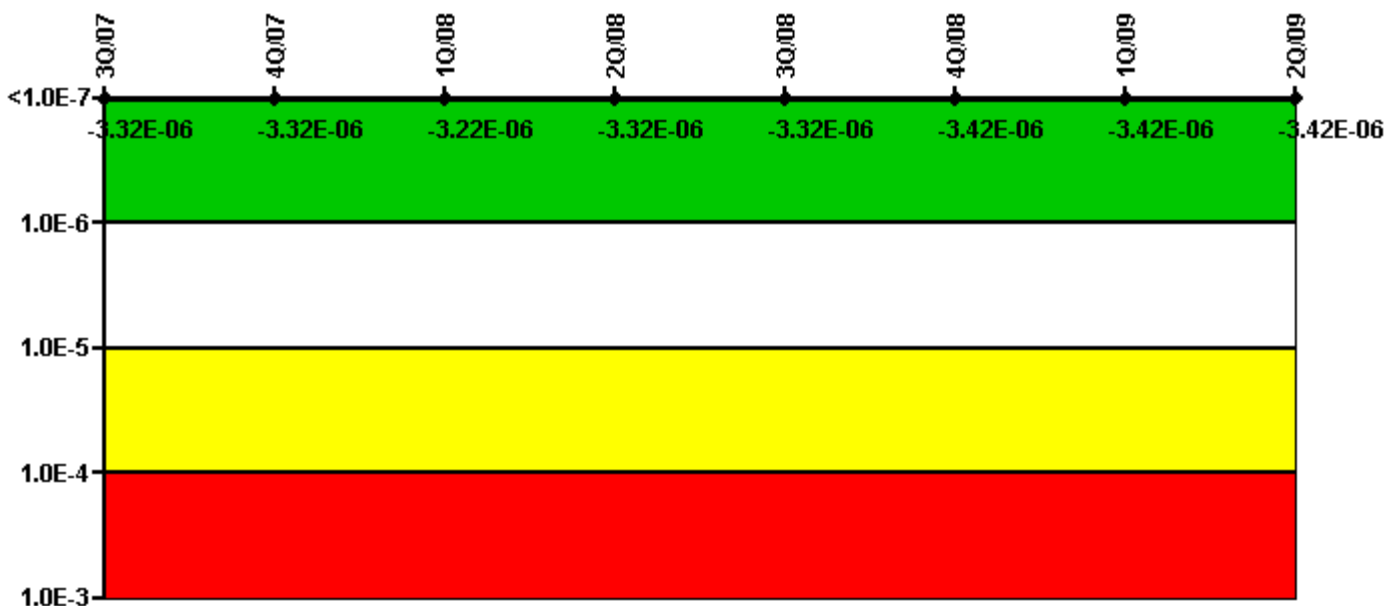
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI ( $\Delta$ CDF)	1.90E-07	1.90E-07	1.90E-07	2.60E-07	2.50E-07	2.40E-07	3.50E-07	3.60E-07
URI ( $\Delta$ CDF)	-3.70E-07	-3.70E-07	-3.70E-07	-3.70E-07	-3.70E-07	-3.70E-07	-3.70E-07	-3.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.80E-07	-1.10E-07	-1.20E-07	-1.30E-07	-2.00E-08	-1.00E-08

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



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

## Notes

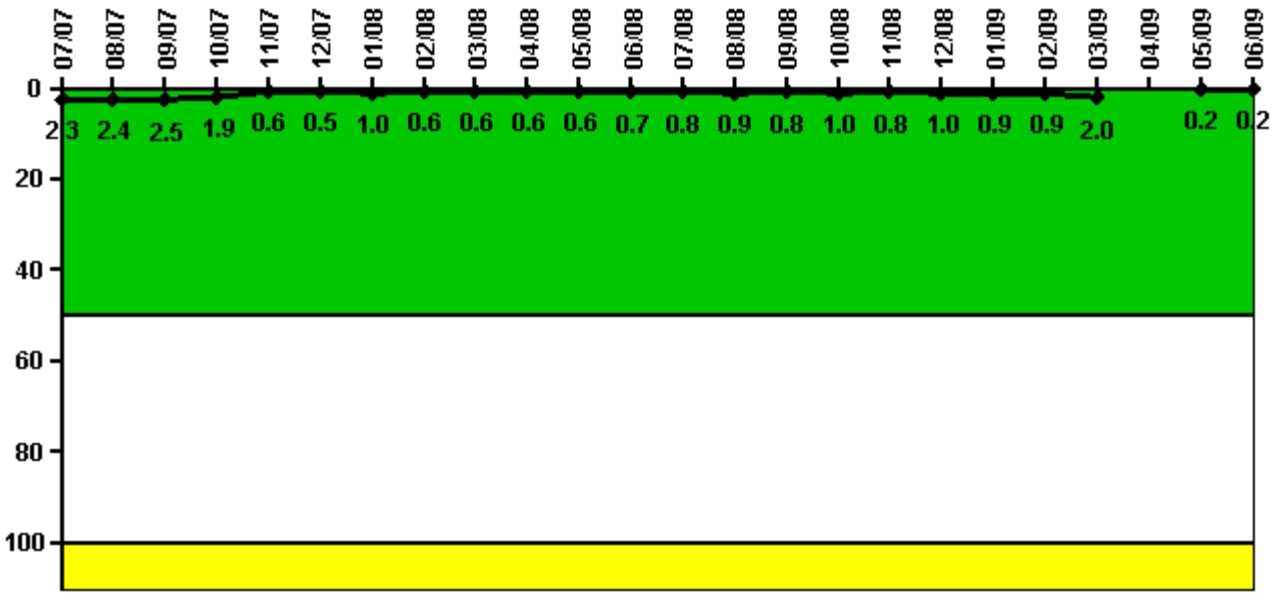
Mitigating Systems Performance Index, Cooling Water Systems	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI ( $\Delta$ CDF)	-3.10E-06	-3.10E-06	-3.00E-06	-3.10E-06	-3.10E-06	-3.20E-06	-3.20E-06	-3.20E-06
URI ( $\Delta$ CDF)	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.32E-06	-3.32E-06	-3.22E-06	-3.32E-06	-3.32E-06	-3.42E-06	-3.42E-06	-3.42E-06

Licensee Comments:

2Q/09: Changed PRA Parameter(s).

1Q/09: Changed PRA Parameter(s). Routine planned unavailability baseline update.

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

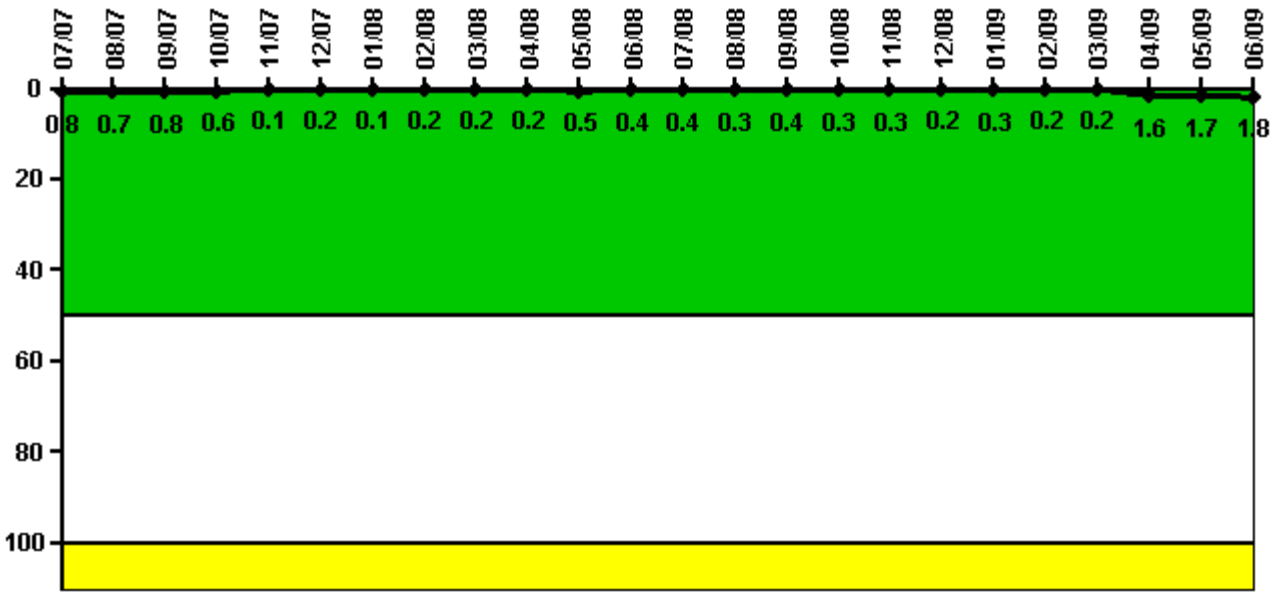
Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.007976	0.008524	0.008710	0.006488	0.001952	0.001923	0.003438	0.002020	0.002169	0.002079	0.002129	0.002289
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	2.3	2.4	2.5	1.9	0.6	0.5	1.0	0.6	0.6	0.6	0.6	0.7

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	0.002971	0.003110	0.002837	0.003438	0.002711	0.003417	0.003055	0.002984	0.007078	N/A	0.000719	0.000740
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.8	0.9	0.8	1.0	0.8	1.0	0.9	0.9	2.0	N/A	0.2	0.2

Licensee Comments: none

## Reactor Coolant System Leakage



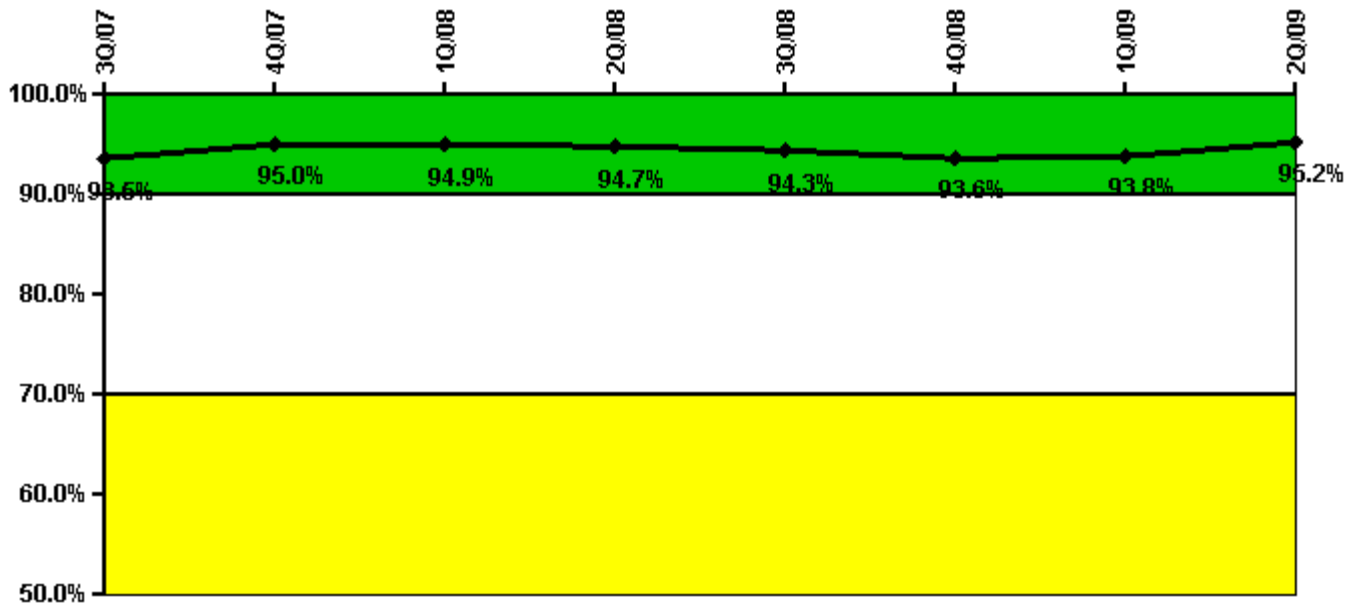
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum leakage	0.080	0.070	0.080	0.060	0.010	0.020	0.010	0.020	0.020	0.020	0.050	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	0.8	0.7	0.8	0.6	0.1	0.2	0.1	0.2	0.2	0.2	0.5	0.4
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	0.040	0.030	0.040	0.030	0.030	0.020	0.030	0.020	0.020	0.160	0.170	0.180
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	0.4	0.3	0.4	0.3	0.3	0.2	0.3	0.2	0.2	1.6	1.7	1.8

Licensee Comments: none

## Drill/Exercise Performance



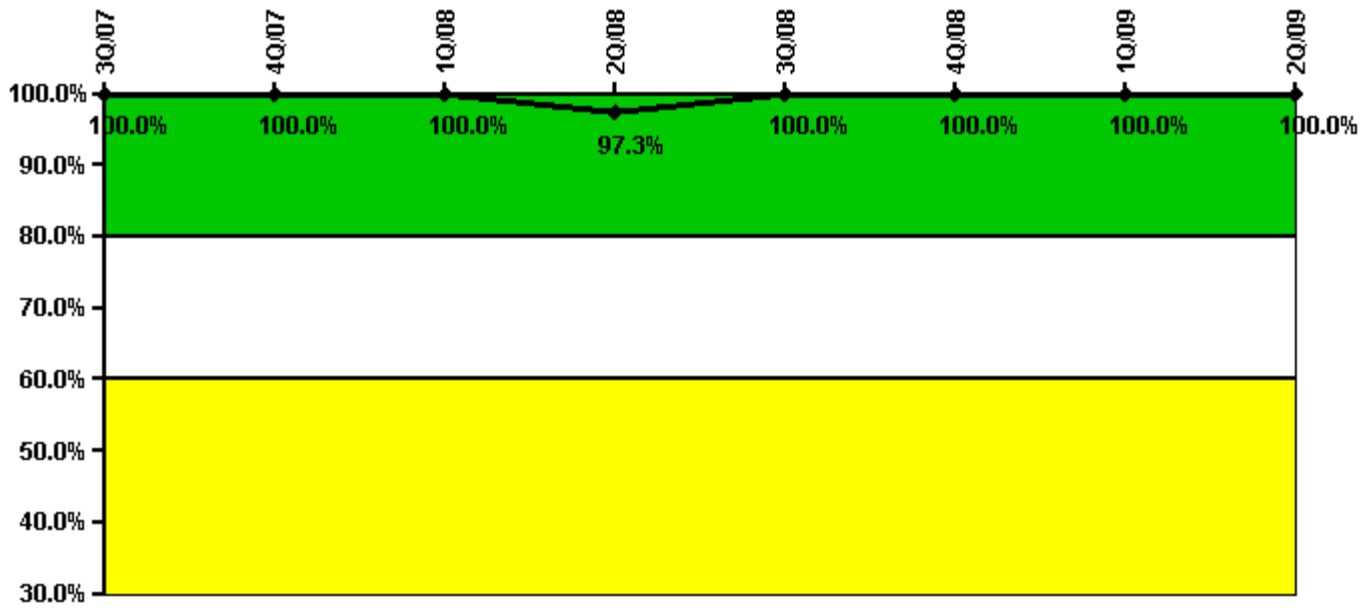
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	10.0	30.0	4.0	11.0	42.0	39.0	21.0	40.0
Total opportunities	10.0	32.0	4.0	12.0	43.0	44.0	22.0	40.0
Indicator value	93.5%	95.0%	94.9%	94.7%	94.3%	93.6%	93.8%	95.2%

Licensee Comments: none

## ERO Drill Participation



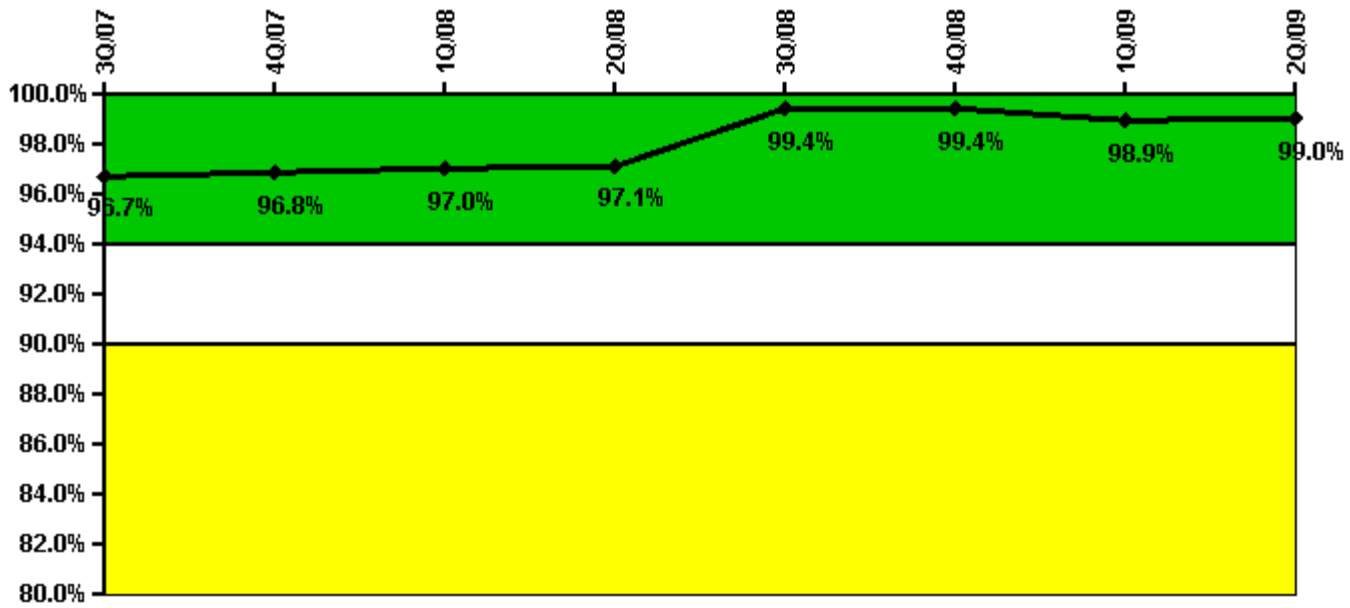
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	93.0	88.0	83.0	73.0	87.0	82.0	86.0	79.0
Total Key personnel	93.0	88.0	83.0	75.0	87.0	82.0	86.0	79.0
Indicator value	100.0%	100.0%	100.0%	97.3%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

## Alert & Notification System



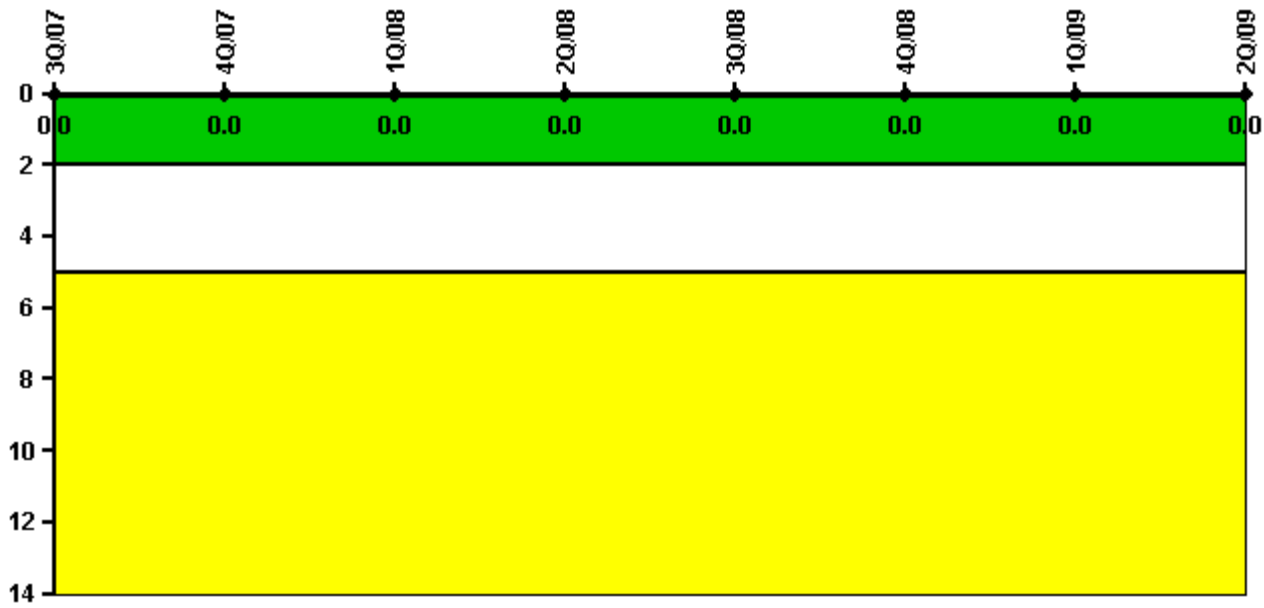
**Thresholds:** White < 94.0% Yellow < 90.0%

### Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	779	964	754	753	751	961	634	969
Total sirens-tests	864	972	756	756	756	972	648	972
Indicator value	96.7%	96.8%	97.0%	97.1%	99.4%	99.4%	98.9%	99.0%

Licensee Comments: none

## Occupational Exposure Control Effectiveness



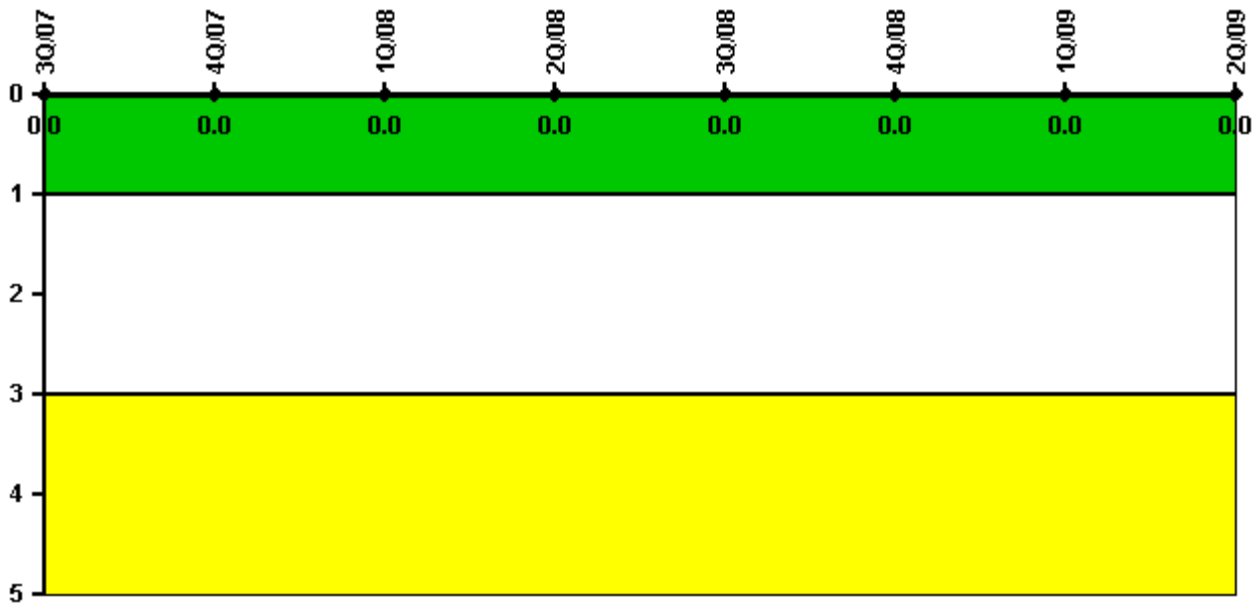
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/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
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

## RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

### Notes

RETS/ODCM Radiological Effluent	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/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.