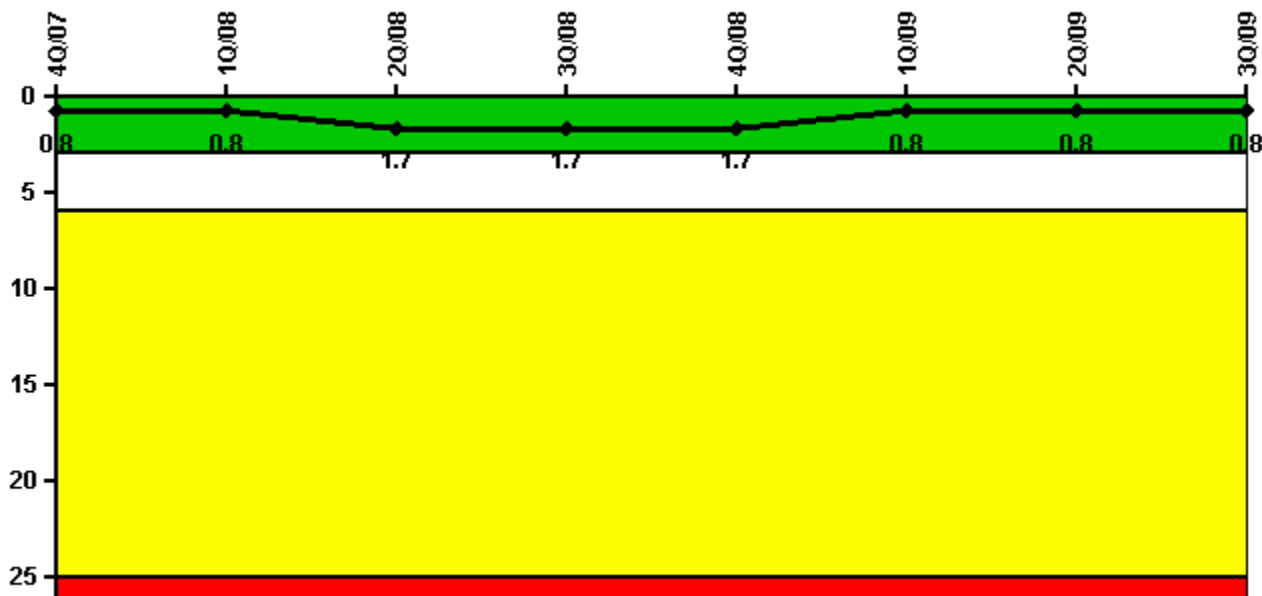


# Indian Point 2

## 3Q/2009 Performance Indicators

Licensee's General Comments: MS05 (7/09): SSFF reported in LER-2009-003 on July 27, 2009, due to an inoperable 21 pressurizer back-up heater caused by an inoperable breaker due to a misaligned anti pump lever. The 21 pressurizer back-up heater is credited in TS 3.3.4 as a single train safety function for remote shutdown from the control room. MS05 (8/09): SSFF reported in LER-2009-004 on August 7, 2009, for an inoperable 23 charging pump due to an internal check valve failure. The 23 charging pump is credited in TS 3.3.4 as a single train safety function for remote shutdown from the control room.

### Unplanned Scrams per 7000 Critical Hrs



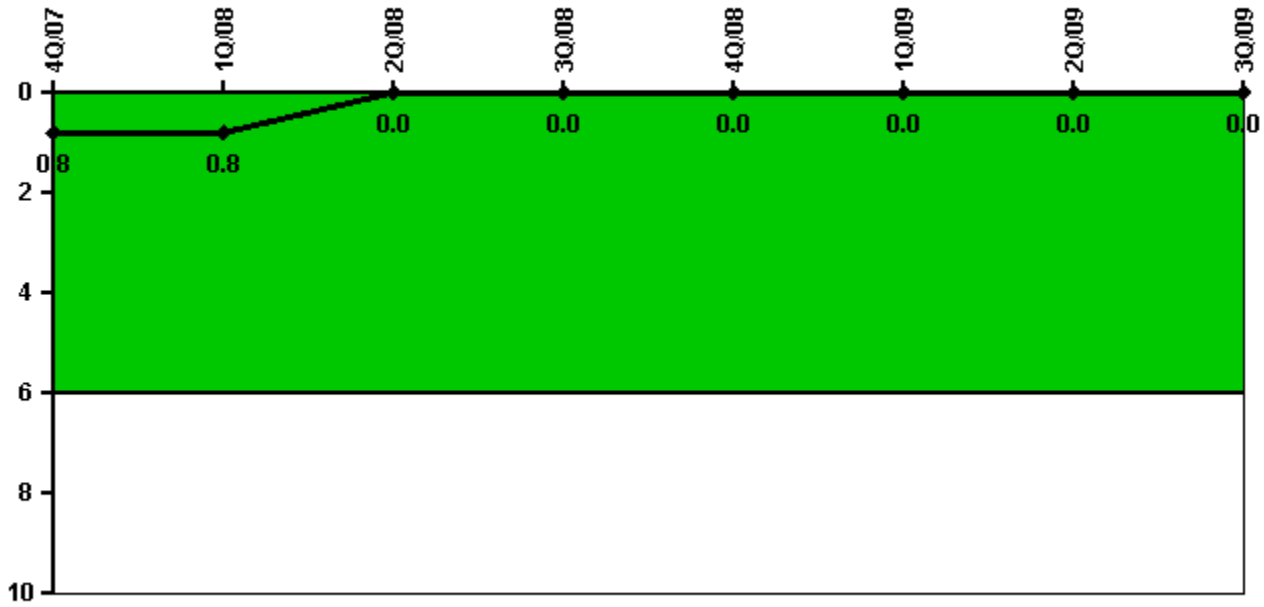
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	1.0	1.0	0	0	0	1.0	0
Critical hours	2209.0	1989.3	1724.9	2208.0	2209.0	2159.0	2160.3	2208.0
Indicator value	0.8	0.8	1.7	1.7	1.7	0.8	0.8	0.8

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



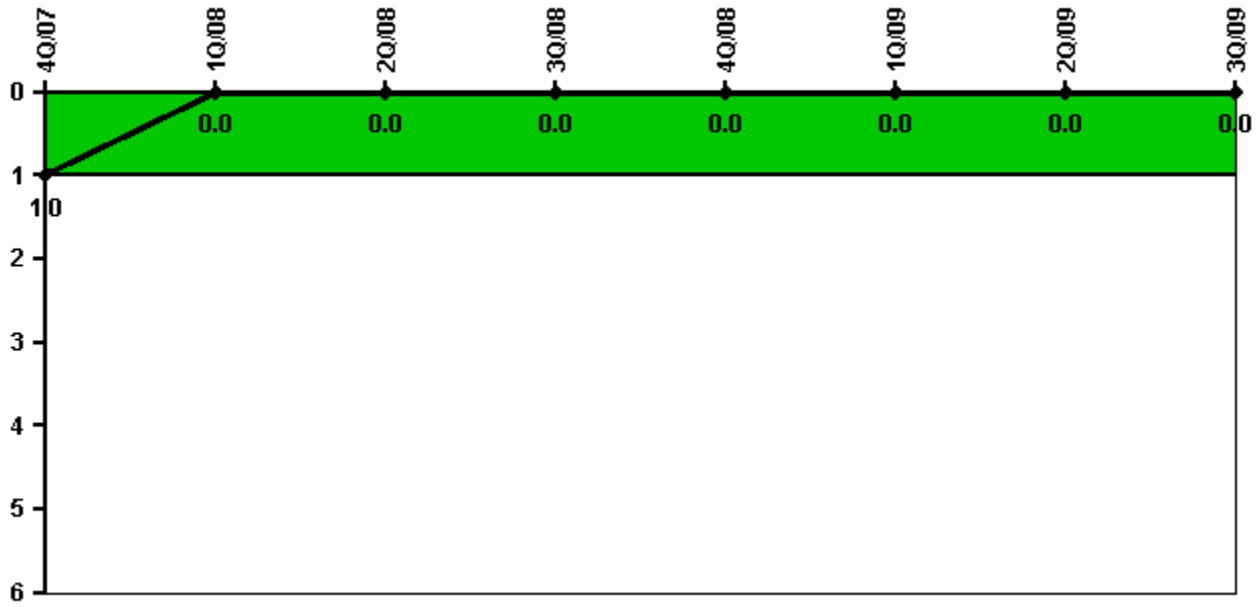
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	1989.3	1724.9	2208.0	2209.0	2159.0	2160.3	2208.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

# Unplanned Scrams with Complications



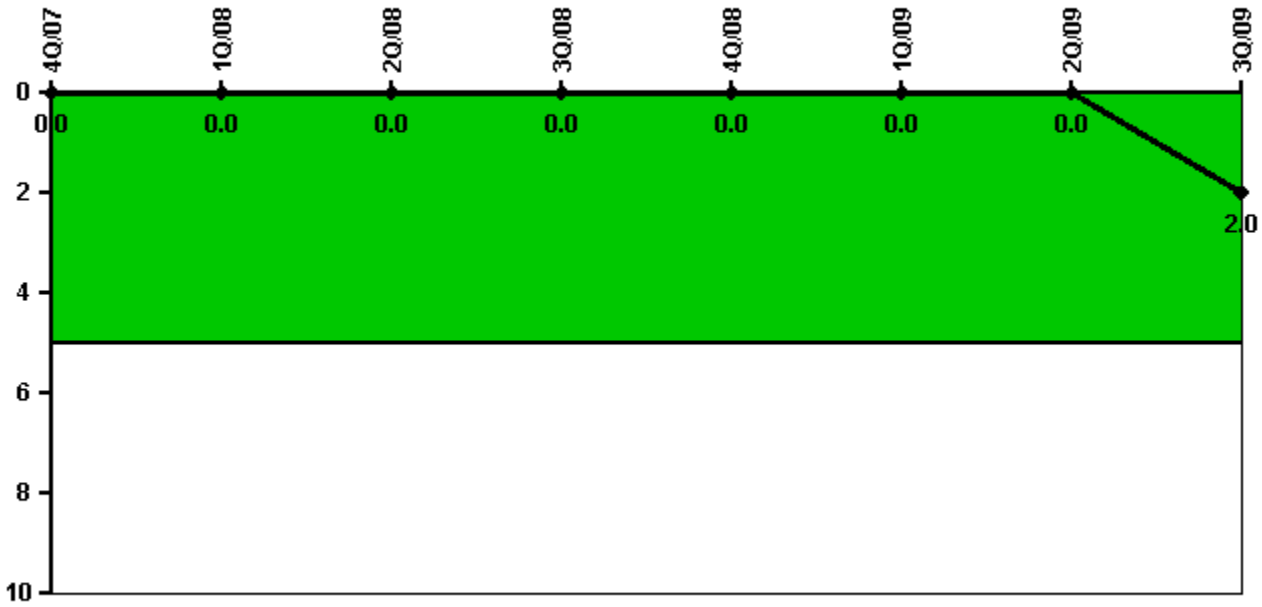
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

## Safety System Functional Failures (PWR)



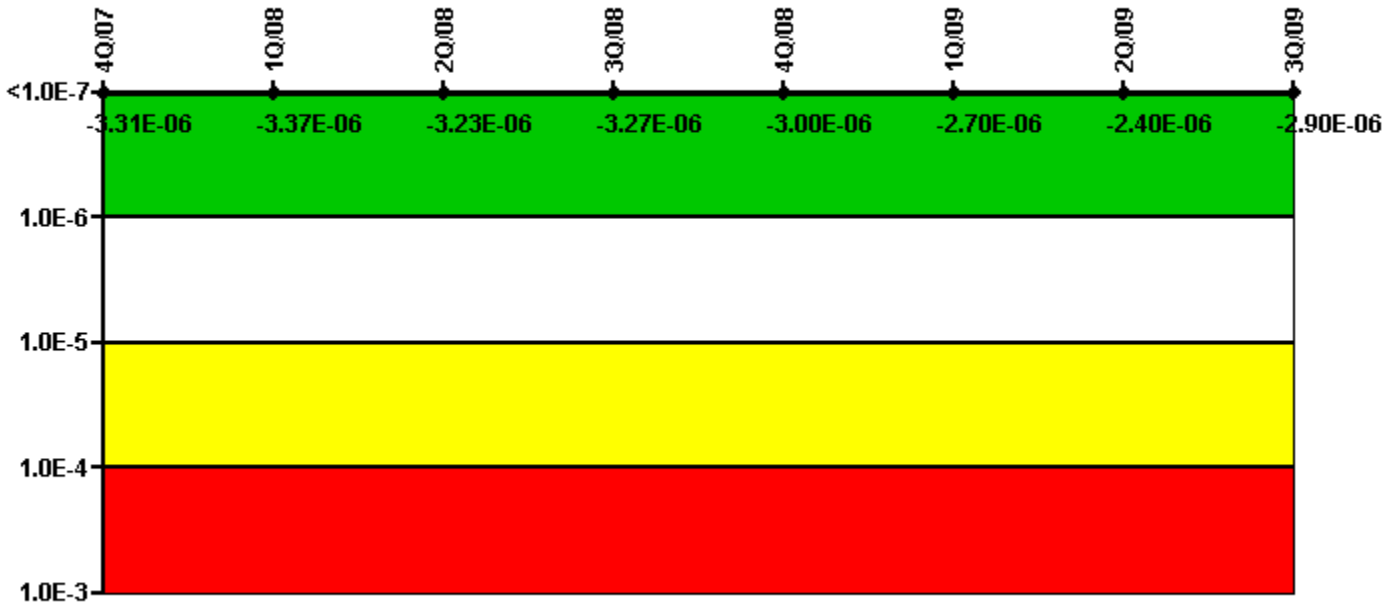
Thresholds: White > 5.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



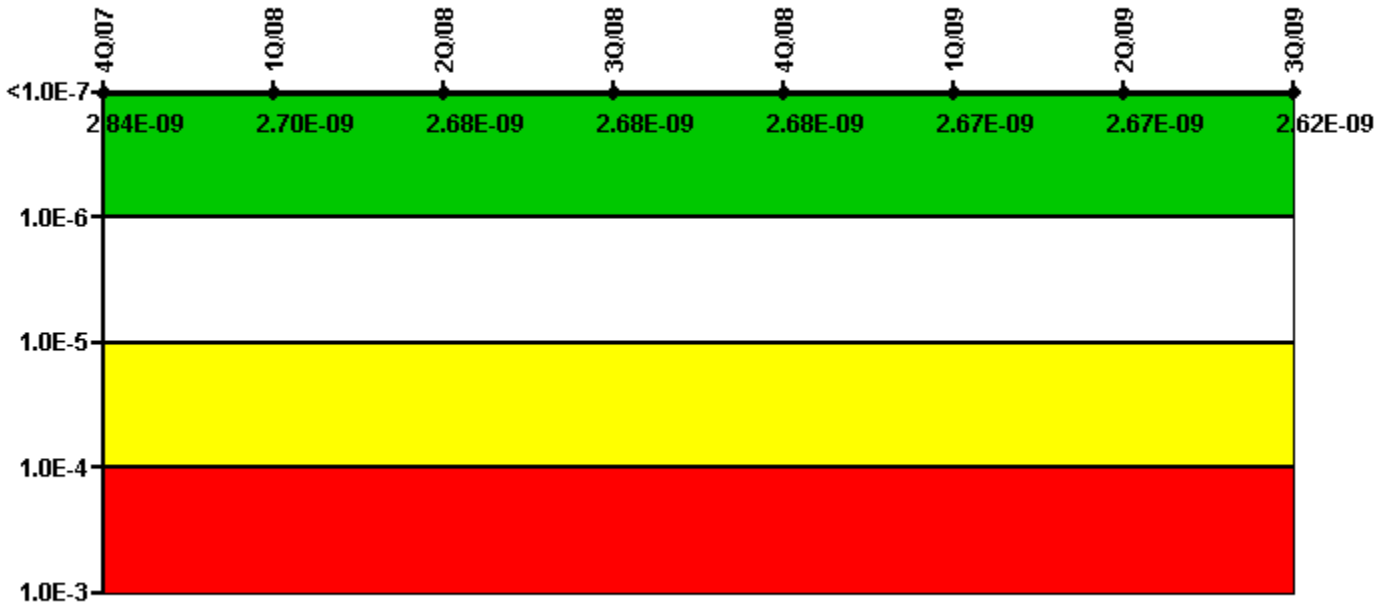
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	4.90E-07	5.30E-07	6.70E-07	6.30E-07	8.00E-07	1.10E-06	1.10E-06	6.00E-07
URI ( $\Delta$ CDF)	-3.80E-06	-3.90E-06	-3.90E-06	-3.90E-06	-3.80E-06	-3.80E-06	-3.50E-06	-3.50E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.31E-06	-3.37E-06	-3.23E-06	-3.27E-06	-3.00E-06	-2.70E-06	-2.40E-06	-2.90E-06

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



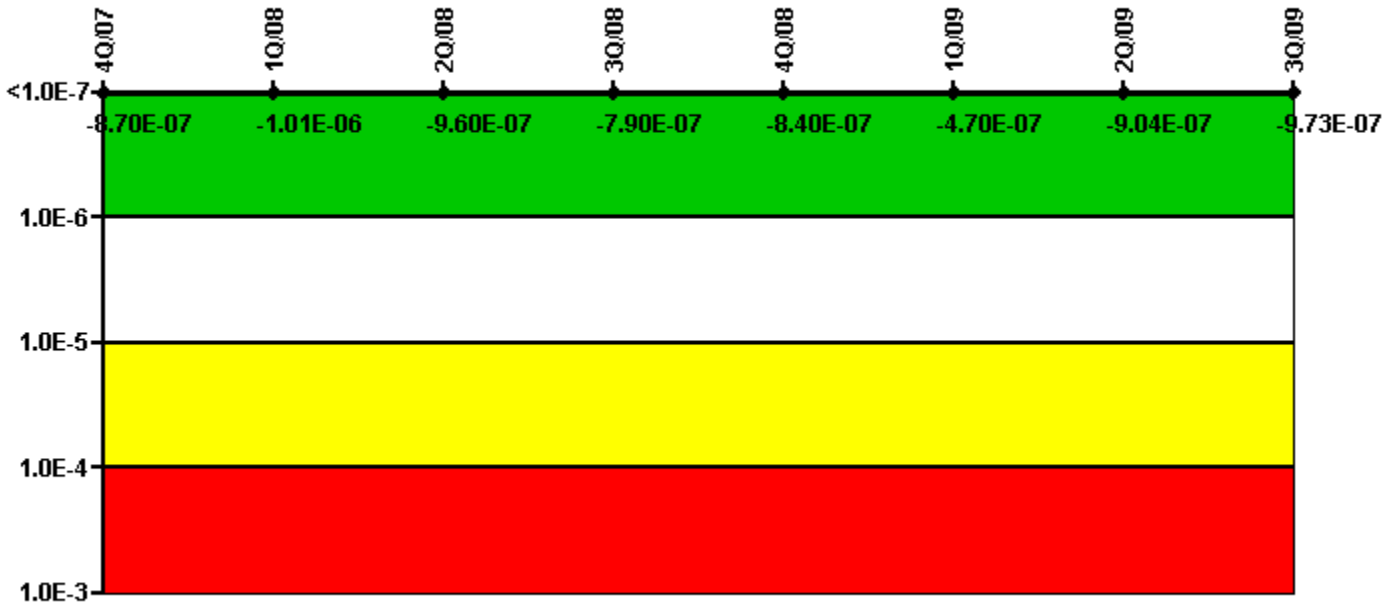
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	4.40E-11	-9.80E-11	-1.20E-10	-1.20E-10	-1.20E-10	-1.30E-10	-1.30E-10	-1.80E-10
URI ( $\Delta$ CDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.84E-09	2.70E-09	2.68E-09	2.68E-09	2.68E-09	2.67E-09	2.67E-09	2.62E-09

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



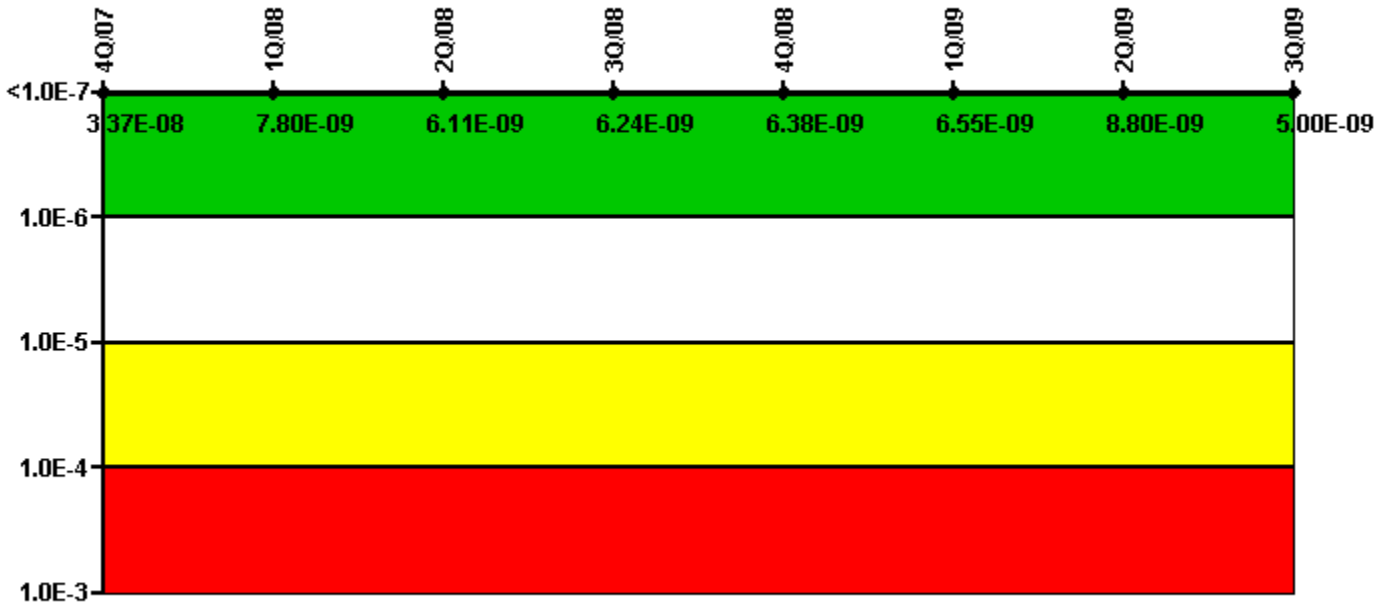
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	2.30E-07	1.90E-07	2.40E-07	4.10E-07	3.60E-07	6.30E-07	9.60E-08	-1.30E-08
URI ( $\Delta$ CDF)	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06	-1.00E-06	-9.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.70E-07	-1.01E-06	-9.60E-07	-7.90E-07	-8.40E-07	-4.70E-07	-9.04E-07	-9.73E-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

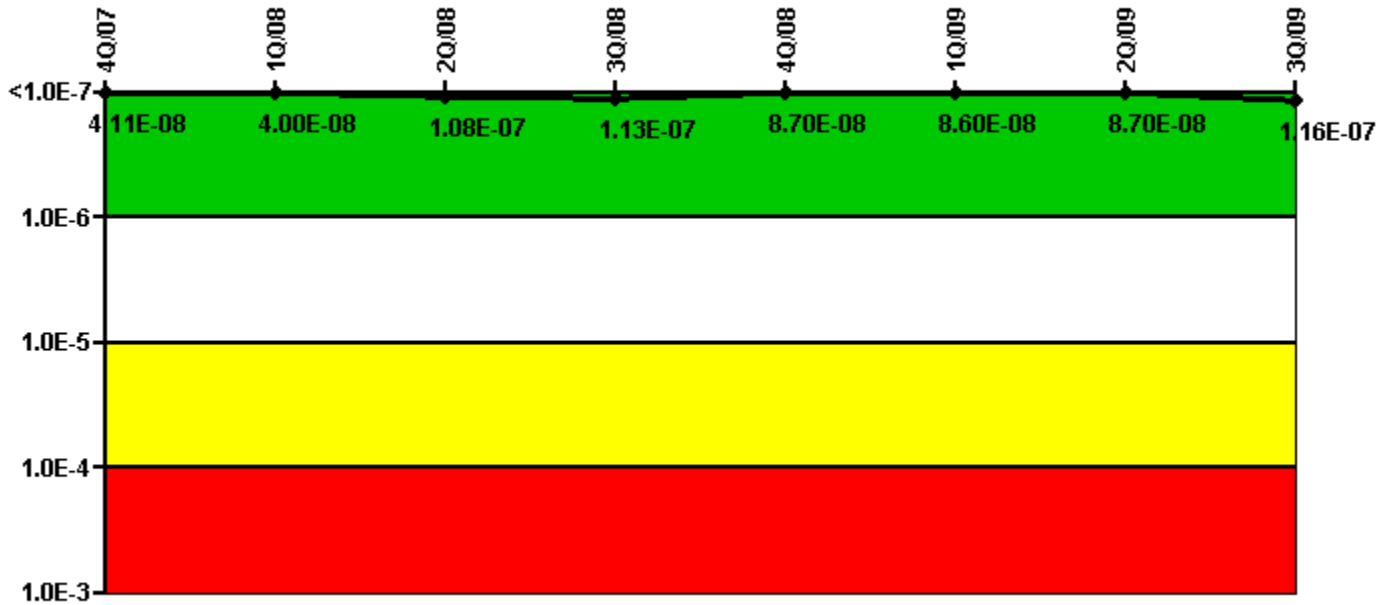
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	-1.30E-09	-1.10E-09	-9.90E-10	-9.60E-10	-9.20E-10	-9.50E-10	-1.20E-09	-6.00E-09
URI ( $\Delta$ CDF)	3.50E-08	8.90E-09	7.10E-09	7.20E-09	7.30E-09	7.50E-09	1.00E-08	1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.37E-08	7.80E-09	6.11E-09	6.24E-09	6.38E-09	6.55E-09	8.80E-09	5.00E-09

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



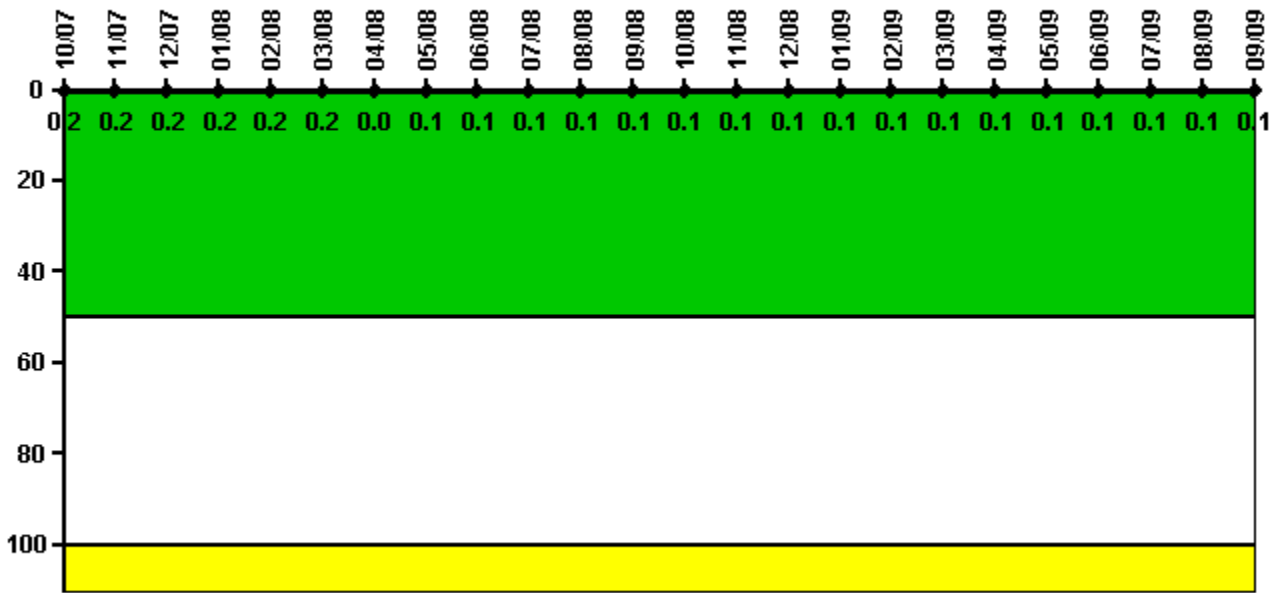
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	-7.90E-09	-6.00E-09	3.70E-08	4.20E-08	1.60E-08	1.50E-08	1.40E-08	1.60E-08
URI ( $\Delta$ CDF)	4.90E-08	4.60E-08	7.10E-08	7.10E-08	7.10E-08	7.10E-08	7.30E-08	1.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.11E-08	4.00E-08	1.08E-07	1.13E-07	8.70E-08	8.60E-08	8.70E-08	1.16E-07

Licensee Comments: none

# Reactor Coolant System Activity



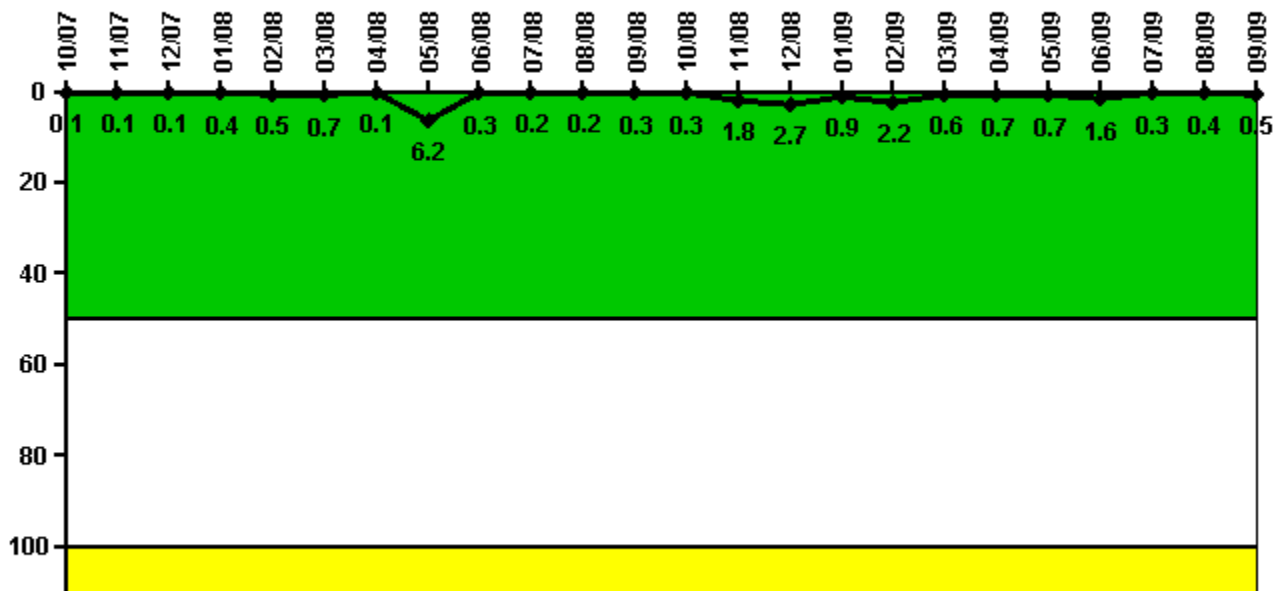
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	0.002050	0.002020	0.002040	0.002140	0.002070	0.002220	0.000449	0.000501	0.000717	0.000595	0.000579	0.000614
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	0.2	0.2	0.2	0.2	0.2	0.2	0	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.000667	0.000608	0.000647	0.000627	0.000653	0.000690	0.000740	0.000733	0.000725	0.000809	0.000816	0.000795
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	0.1	0.1	0.1

Licensee Comments: none

## Reactor Coolant System Leakage



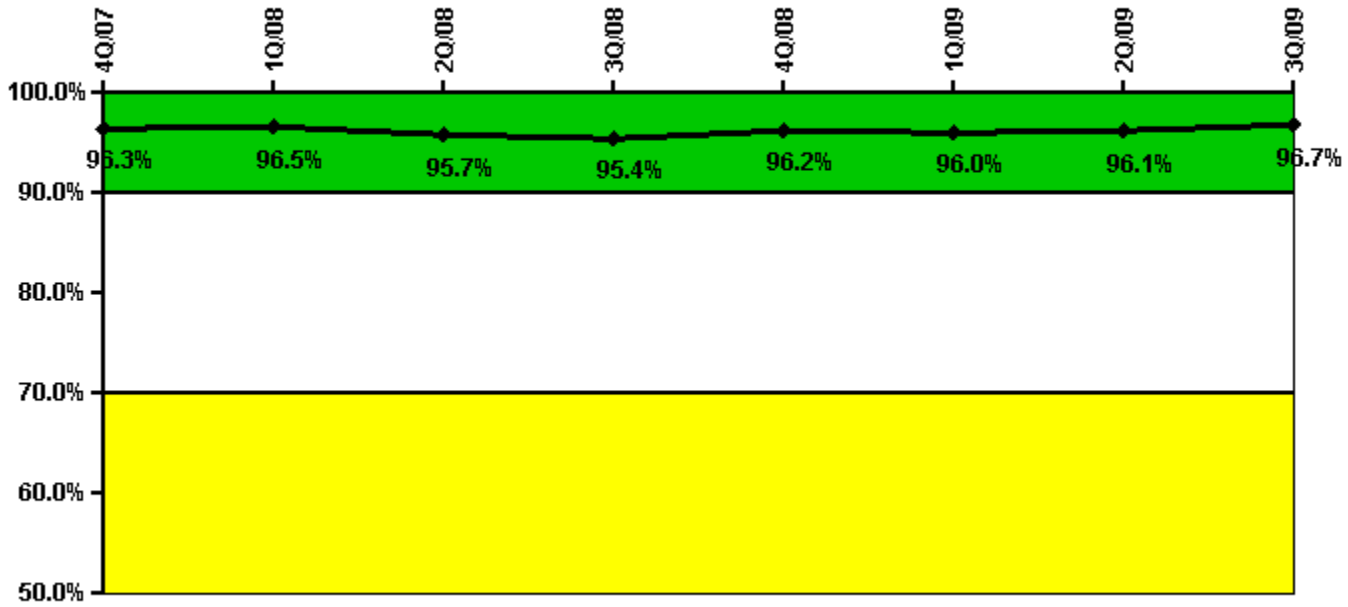
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	0.010	0.010	0.010	0.040	0.050	0.070	0.010	0.620	0.030	0.020	0.020	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	0.1	0.1	0.1	0.4	0.5	0.7	0.1	6.2	0.3	0.2	0.2	0.3
Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	0.030	0.180	0.270	0.090	0.220	0.060	0.070	0.070	0.160	0.030	0.040	0.050
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	1.8	2.7	0.9	2.2	0.6	0.7	0.7	1.6	0.3	0.4	0.5

Licensee Comments: none

## Drill/Exercise Performance



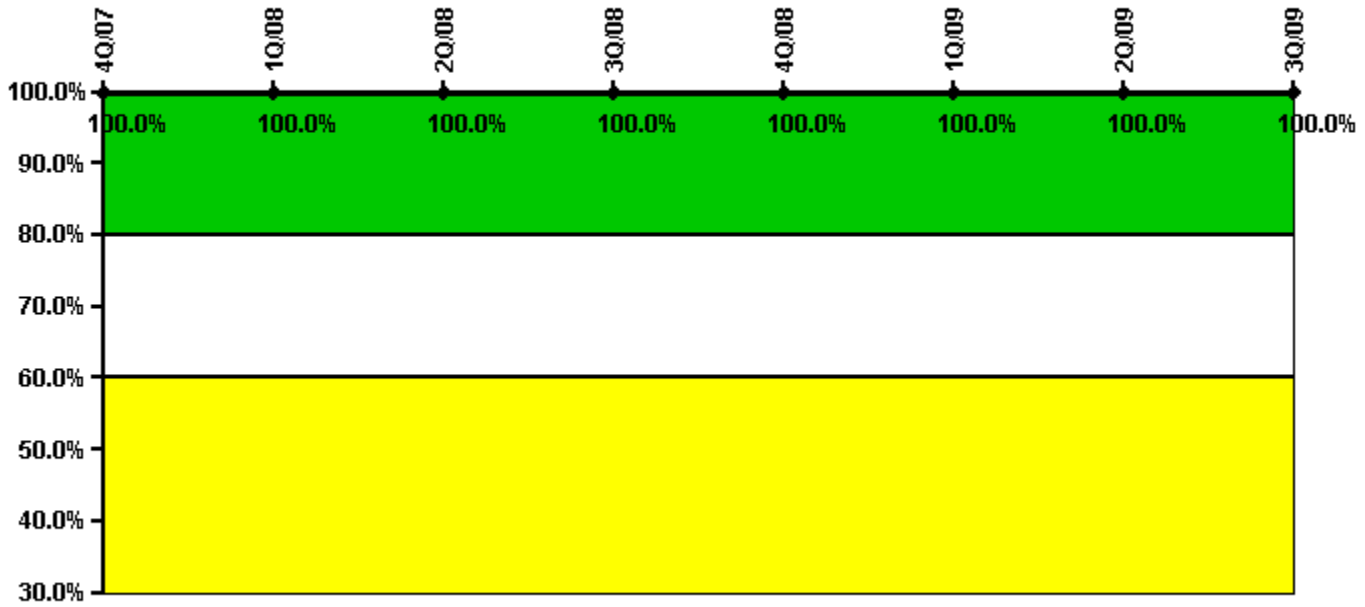
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	66.0	28.0	50.0	90.0	74.0	22.0	38.0	95.0
Total opportunities	71.0	28.0	54.0	92.0	76.0	24.0	38.0	96.0
Indicator value	96.3%	96.5%	95.7%	95.4%	96.2%	96.0%	96.1%	96.7%

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

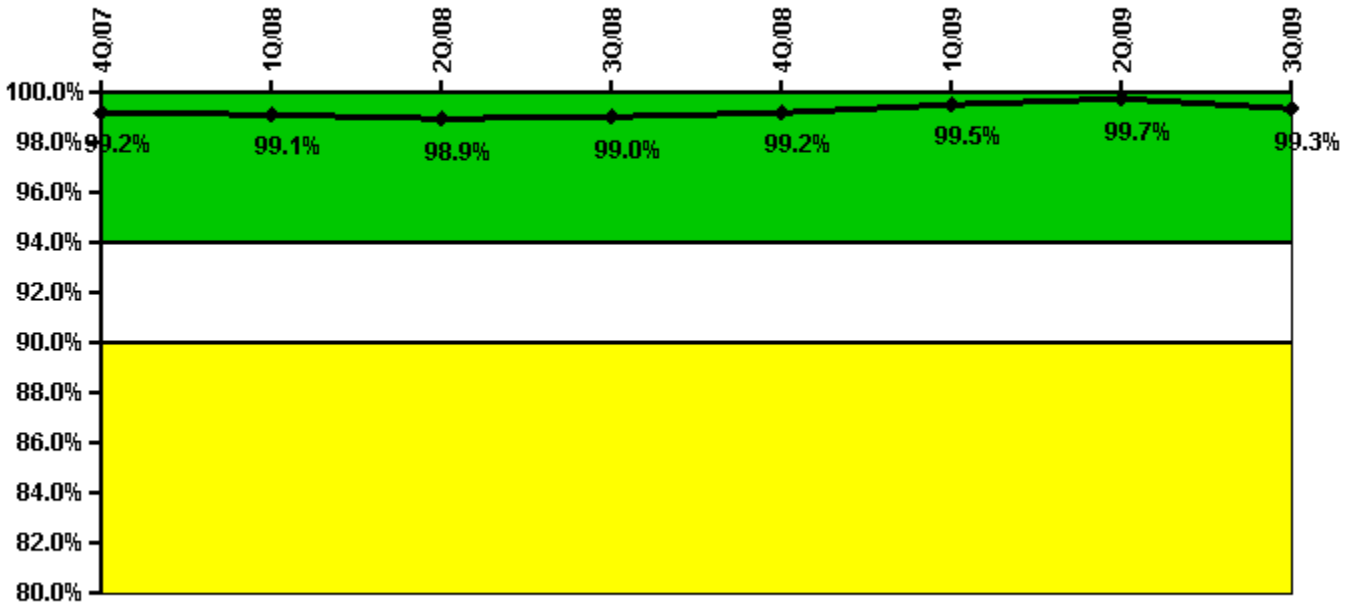
### Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	111.0	114.0	99.0	94.0	93.0	94.0	98.0	100.0
Total Key personnel	111.0	114.0	99.0	94.0	93.0	94.0	98.0	100.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

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# Alert & Notification System



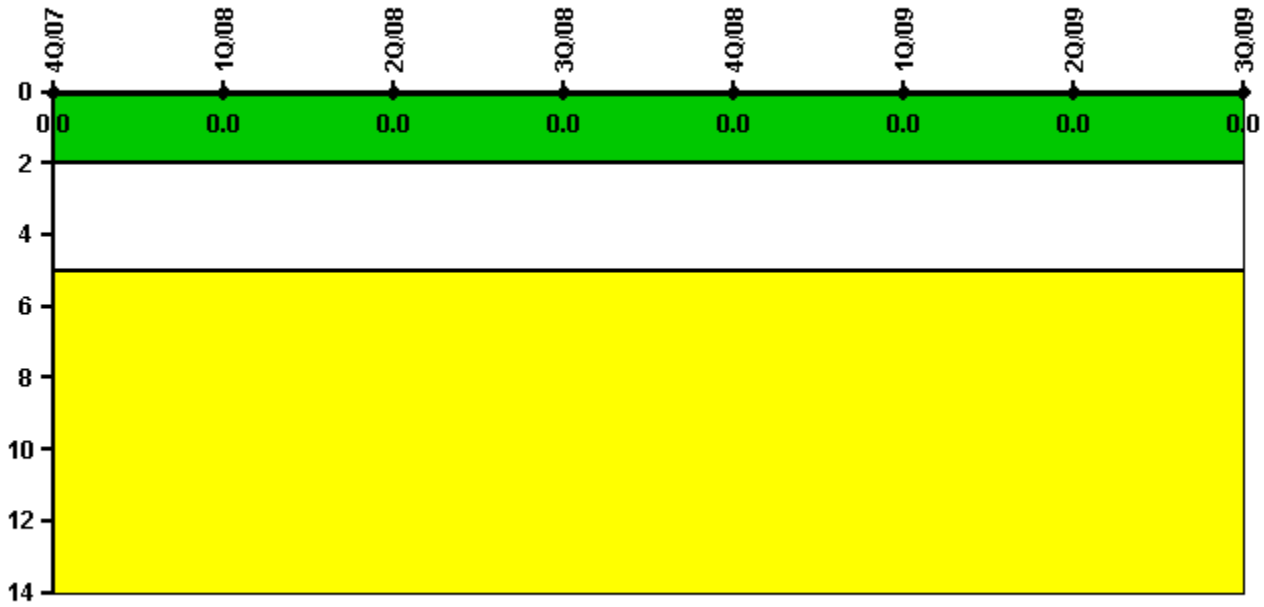
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	618	786	627	486	1220	1156	1200	1159
Total sirens-tests	625	793	637	488	1225	1158	1204	1181
Indicator value	99.2%	99.1%	98.9%	99.0%	99.2%	99.5%	99.7%	99.3%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/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>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

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# RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

## Notes

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

▲ [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: November 30, 2009