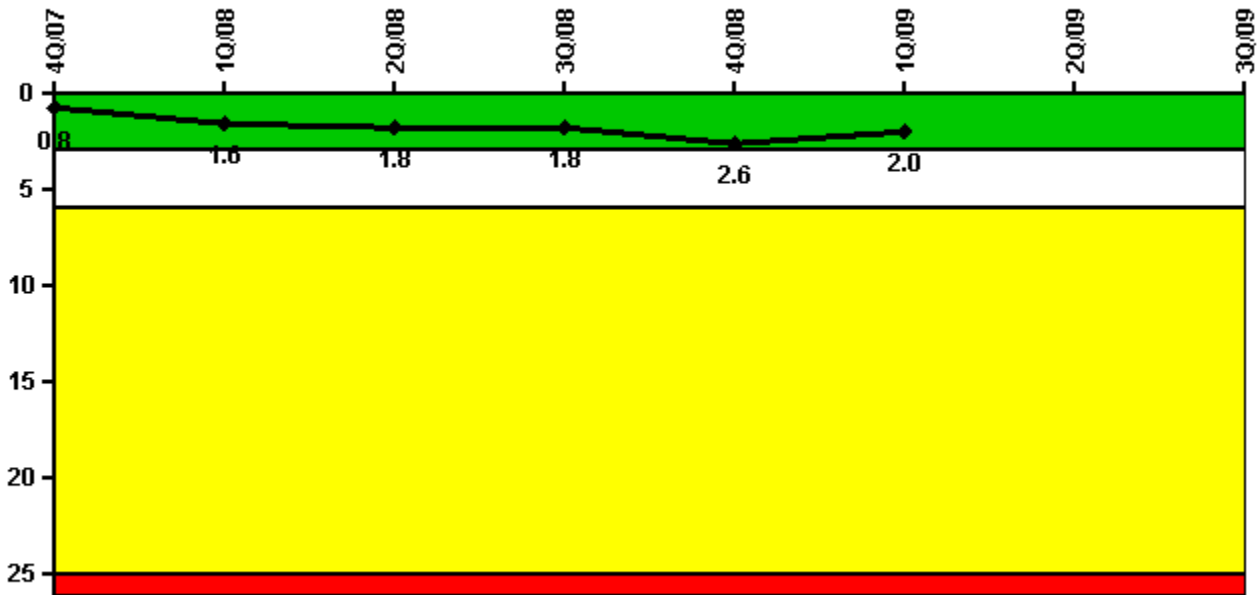


# D.C. Cook 1

## 3Q/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

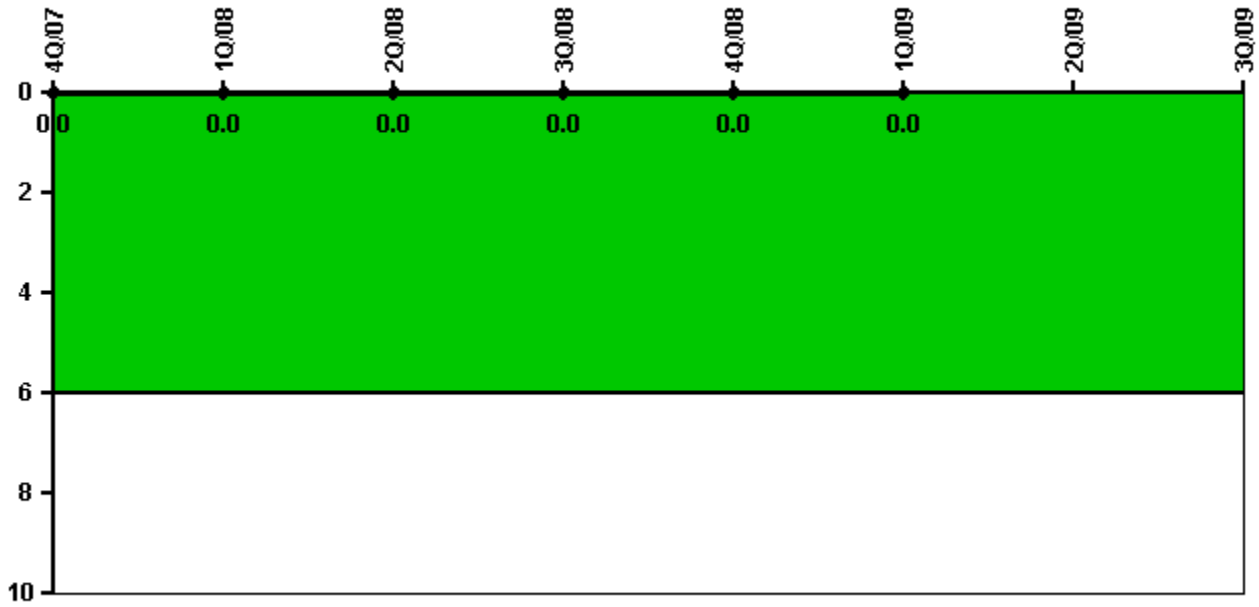
Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	1.0	0	1.0	0	0	0	0
Critical hours	2209.0	2006.3	1497.5	1964.1	0	0	0	0
Indicator value	0.8	1.6	1.8	1.8	2.6	2.0	N/A	N/A

Licensee Comments:

3Q/09: Less than 2400 critical hours in previous 4 quarters due to extended forced outage.

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## 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	2006.3	1497.5	1964.1	0	0	0	0
Indicator value	0	0	0	0	0	0	N/A	N/A

Licensee Comments:

3Q/09: Less than 2400 critical hours in previous 4 quarters due to extended forced outage.

## Unplanned Scrams with Complications



Thresholds: White > 1.0

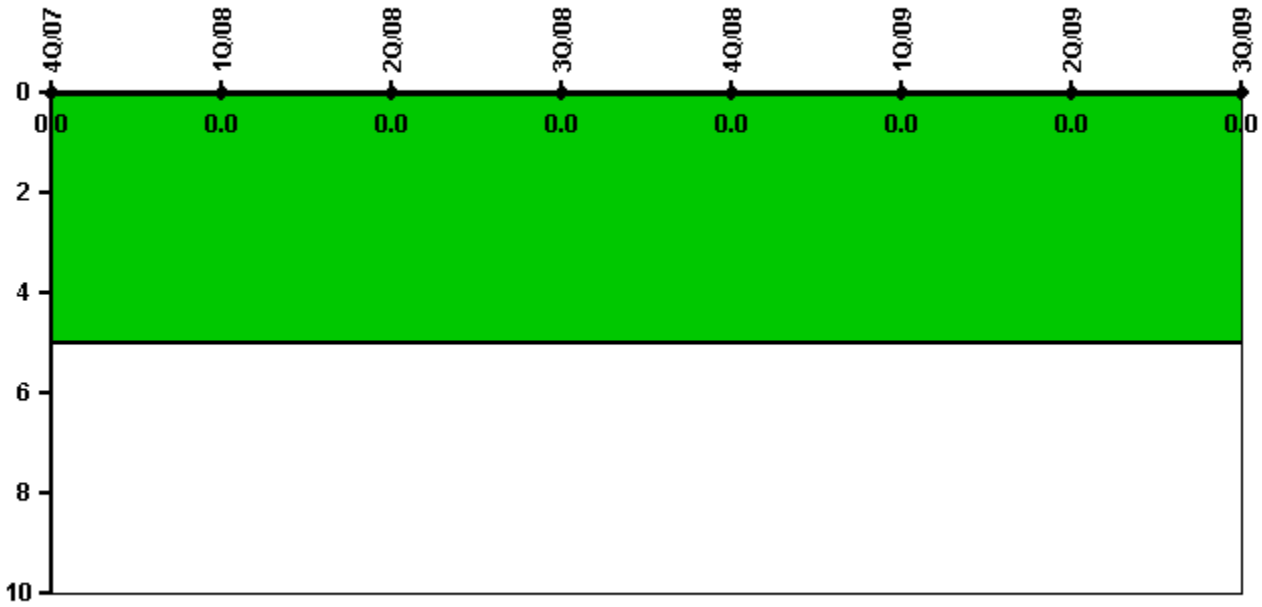
### Notes

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

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## Safety System Functional Failures (PWR)



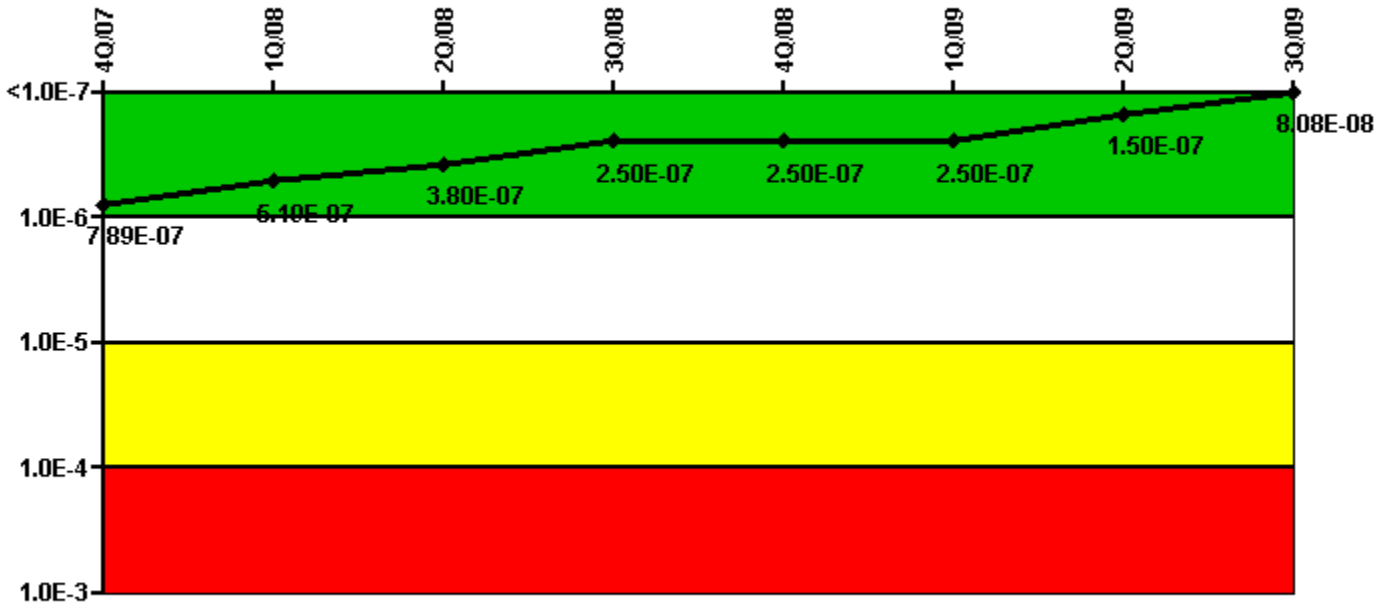
Thresholds: White > 5.0

### 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	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



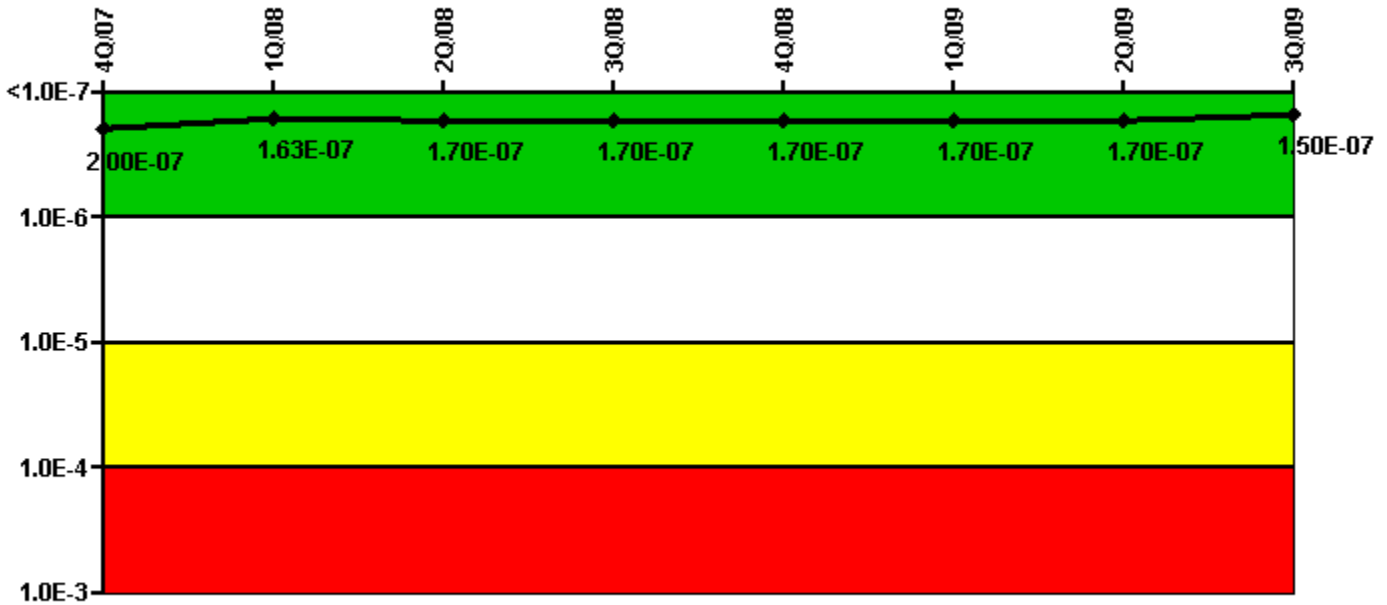
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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)	8.60E-09	8.70E-09	9.00E-11	-3.70E-10	-3.50E-10	-3.20E-10	-3.70E-10	-1.80E-10
URI ( $\Delta$ CDF)	7.80E-07	5.10E-07	3.80E-07	2.50E-07	2.50E-07	2.50E-07	1.50E-07	8.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.89E-07	5.19E-07	3.80E-07	2.50E-07	2.50E-07	2.50E-07	1.50E-07	8.08E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



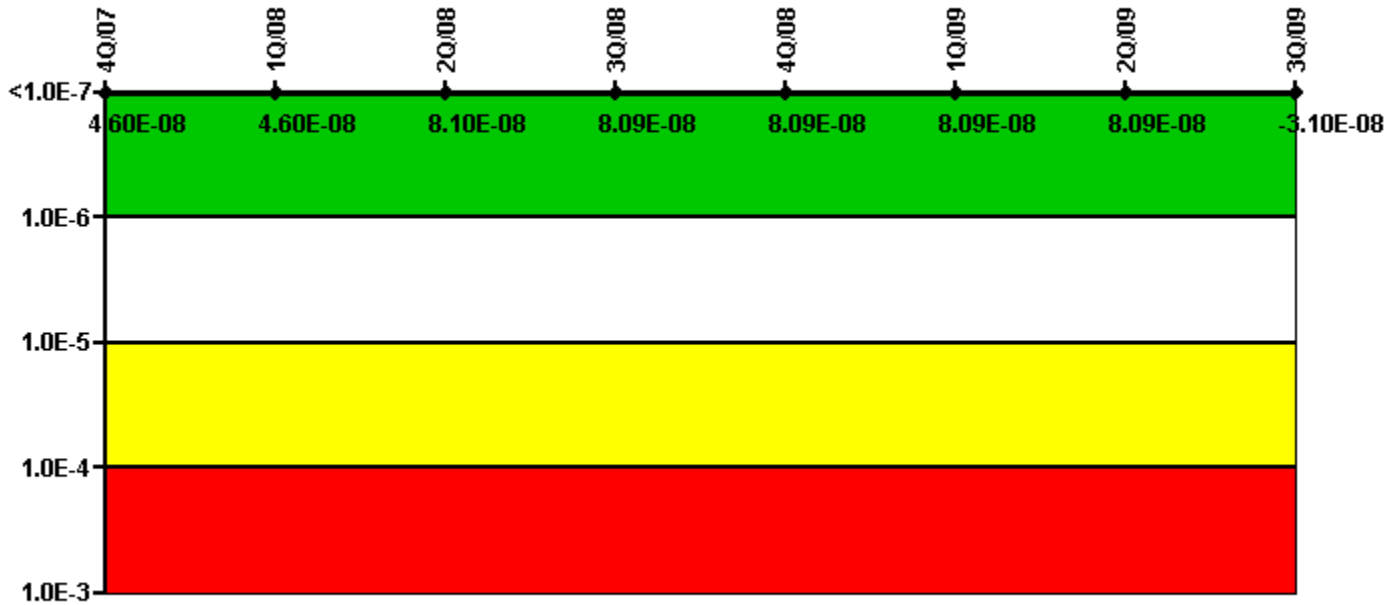
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	9.80E-09	-1.70E-08	-3.30E-11	-3.30E-11	-3.20E-11	-3.10E-11	-2.90E-11	-1.20E-11
URI ( $\Delta$ CDF)	1.90E-07	1.80E-07	1.70E-07	1.70E-07	1.70E-07	1.70E-07	1.70E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	1.63E-07	1.70E-07	1.70E-07	1.70E-07	1.70E-07	1.70E-07	1.50E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



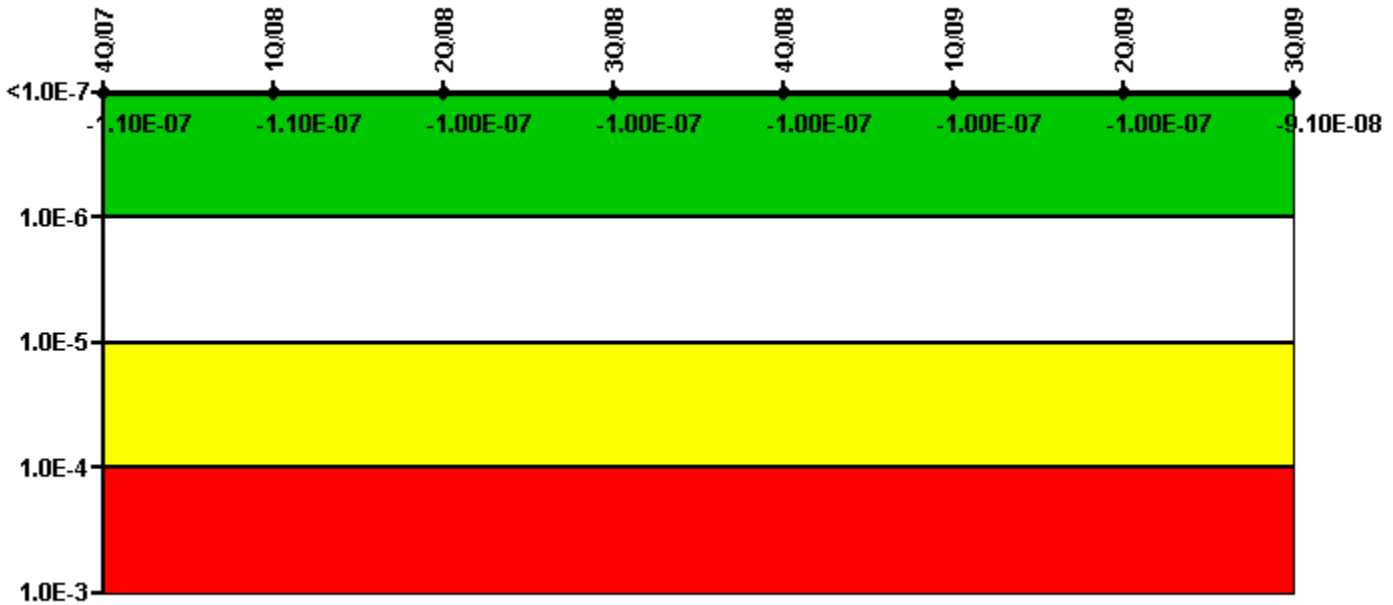
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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)	-1.20E-08	-1.20E-08	-3.70E-11	-5.60E-11	-6.00E-11	-5.80E-11	-5.60E-11	-2.90E-11
URI ( $\Delta$ CDF)	5.80E-08	5.80E-08	8.10E-08	8.10E-08	8.10E-08	8.10E-08	8.10E-08	-3.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.60E-08	4.60E-08	8.10E-08	8.09E-08	8.09E-08	8.09E-08	8.09E-08	-3.10E-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	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	4.30E-11	2.60E-11	-5.70E-14	-2.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-3.20E-13
URI ( $\Delta$ CDF)	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.10E-08

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



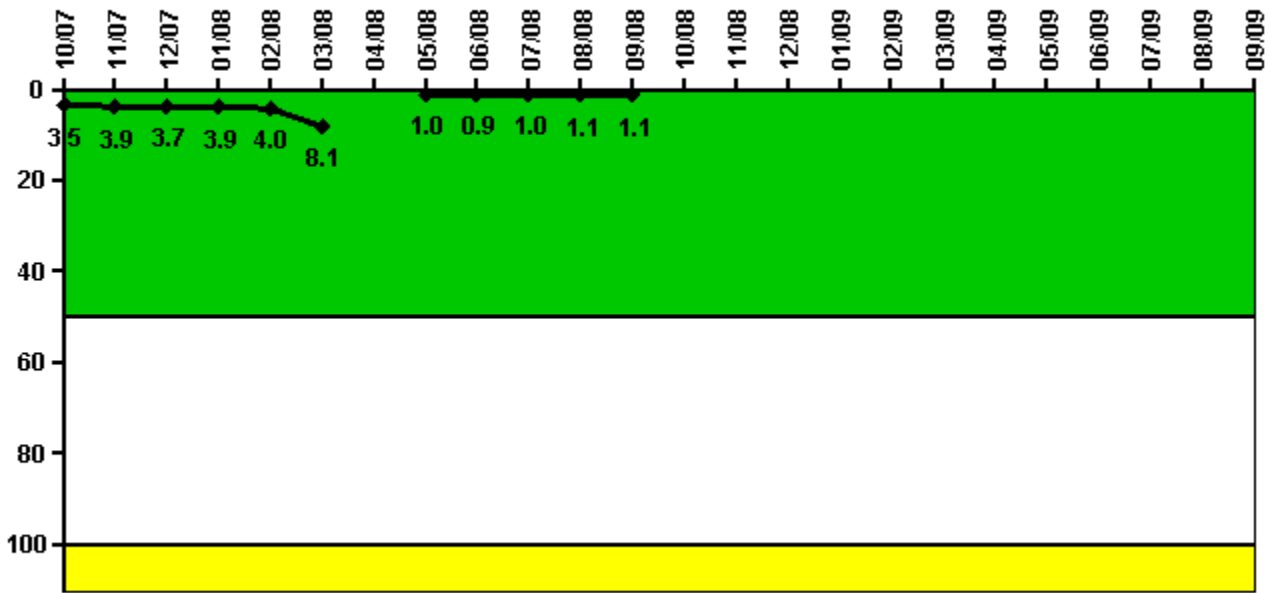
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	1.60E-07	1.20E-07	4.30E-11	3.40E-11	2.60E-11	2.90E-11	3.70E-11	3.00E-11
URI ( $\Delta$ CDF)	-7.80E-08	-7.80E-08	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.20E-08	4.20E-08	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.40E-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	0.005820	0.006460	0.006180	0.006450	0.006710	0.013500	N/A	0.001700	0.001530	0.001720	0.001890	0.001920
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	3.5	3.9	3.7	3.9	4.0	8.1	N/A	1.0	0.9	1.0	1.1	1.1

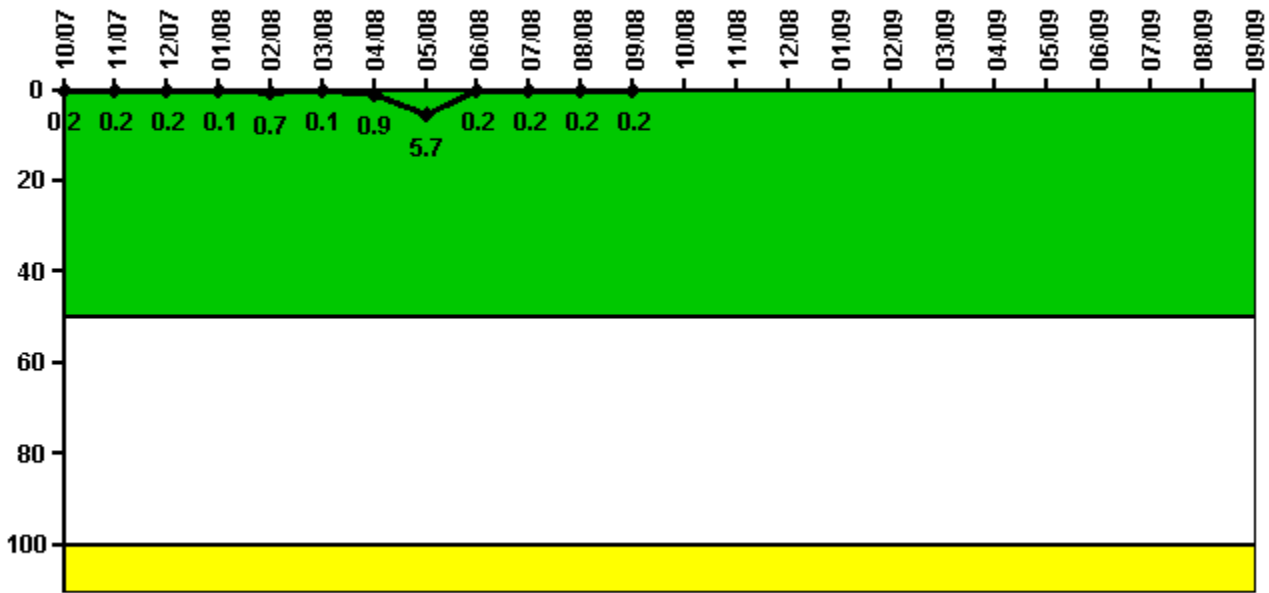
  

Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments:

9/09: Unit 1 remained shut down during the months of July, August, and September 2009 (forced outage due to main turbine damage)

## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

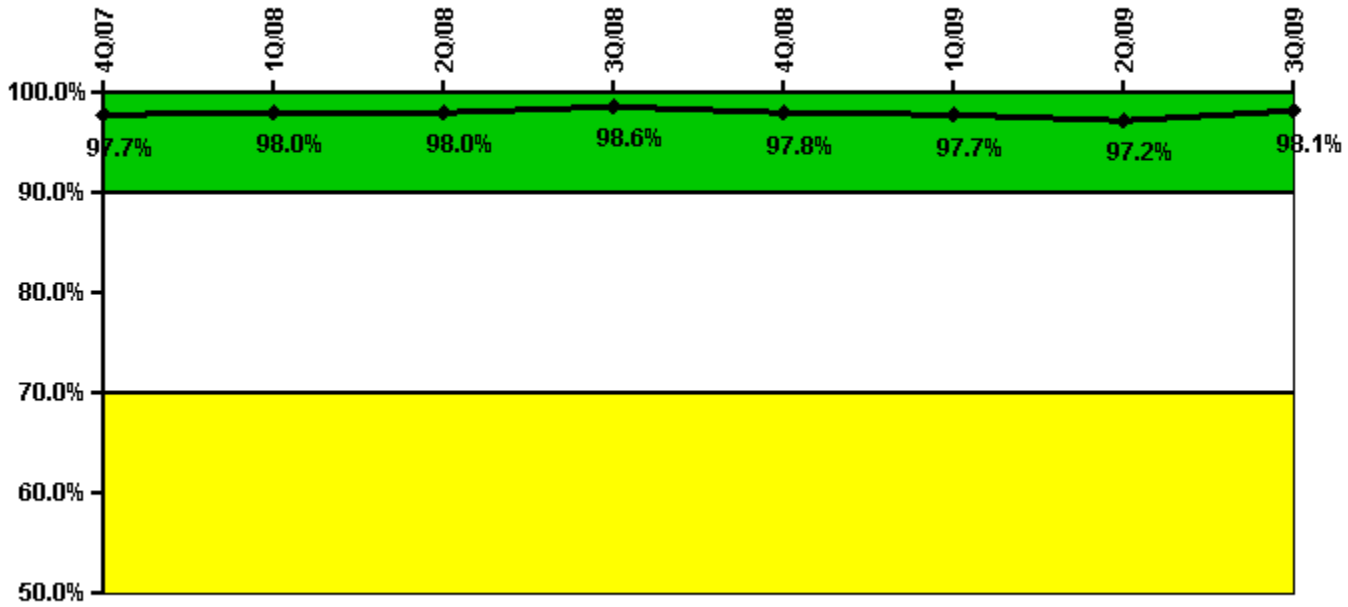
### Notes

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	0.019	0.023	0.018	0.016	0.071	0.016	0.095	0.614	0.024	0.026	0.020	0.022
Technical specification limit	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
Indicator value	0.2	0.2	0.2	0.1	0.7	0.1	0.9	5.7	0.2	0.2	0.2	0.2
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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
Indicator value	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments:

9/09: Unit 1 remained shut down during the months of July, August, and September 2009 (forced outage due to main turbine damage)

## Drill/Exercise Performance



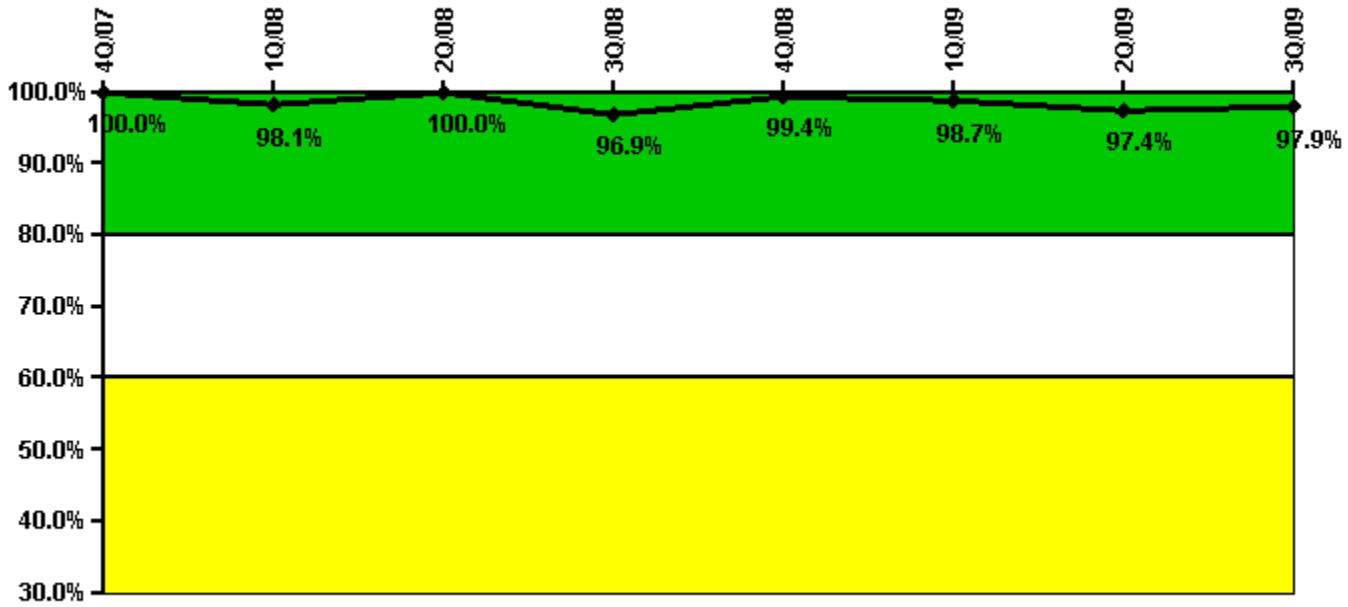
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	51.0	87.0	27.0	132.0	96.0	47.0	5.0	82.0
Total opportunities	51.0	89.0	27.0	132.0	101.0	47.0	5.0	85.0
Indicator value	97.7%	98.0%	98.0%	98.6%	97.8%	97.7%	97.2%	98.1%

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

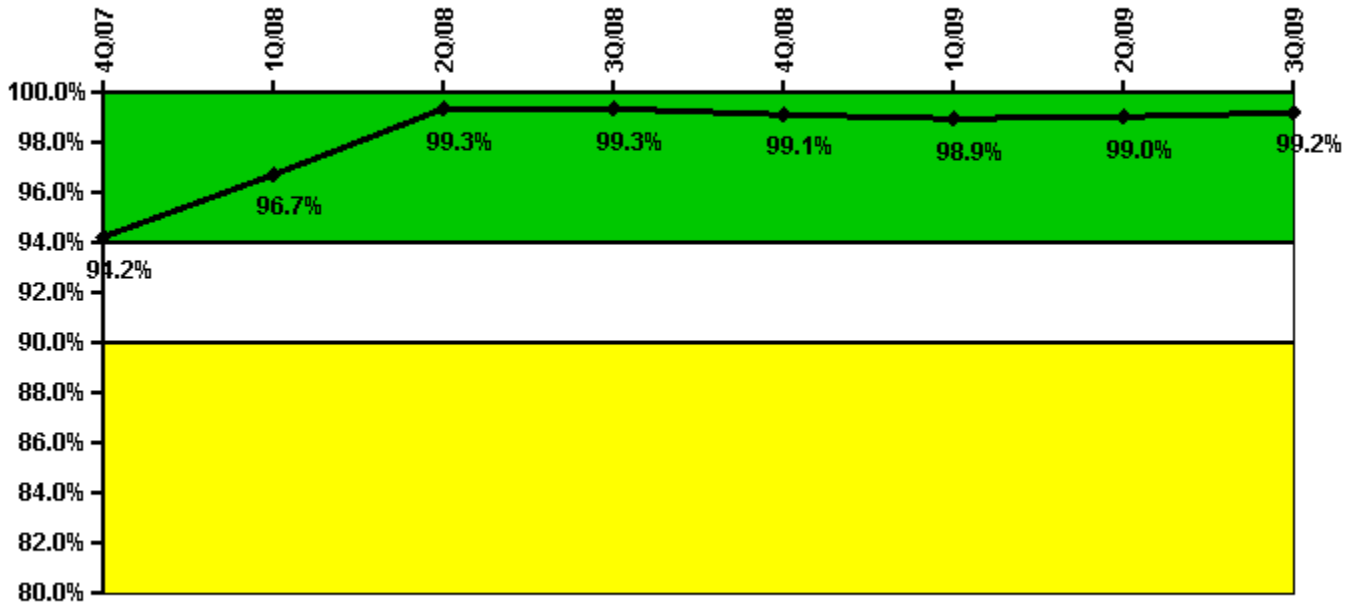
### Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	160.0	151.0	157.0	155.0	153.0	156.0	152.0	140.0
Total Key personnel	160.0	154.0	157.0	160.0	154.0	158.0	156.0	143.0
Indicator value	100.0%	98.1%	100.0%	96.9%	99.4%	98.7%	97.4%	97.9%

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	1108	1112	1112	1111	1171	1035	1117	1190
Total sirens-tests	1116	1120	1119	1120	1190	1050	1119	1190
Indicator value	94.2%	96.7%	99.3%	99.3%	99.1%	98.9%	99.0%	99.2%

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

# 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.