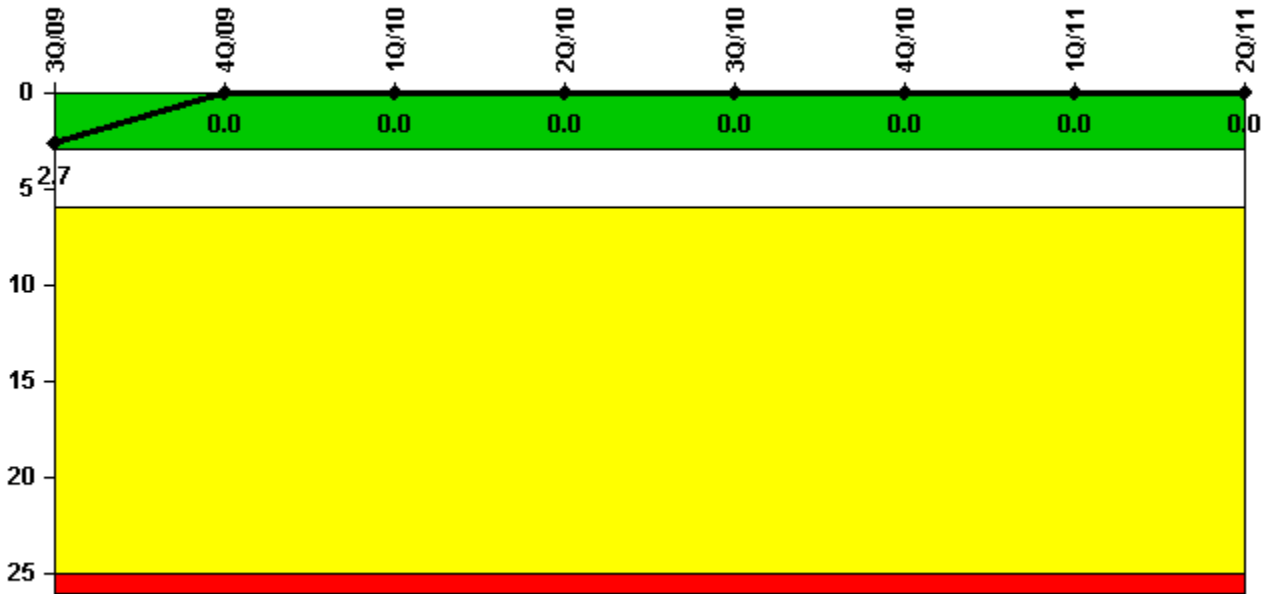


# Callaway

## 2Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



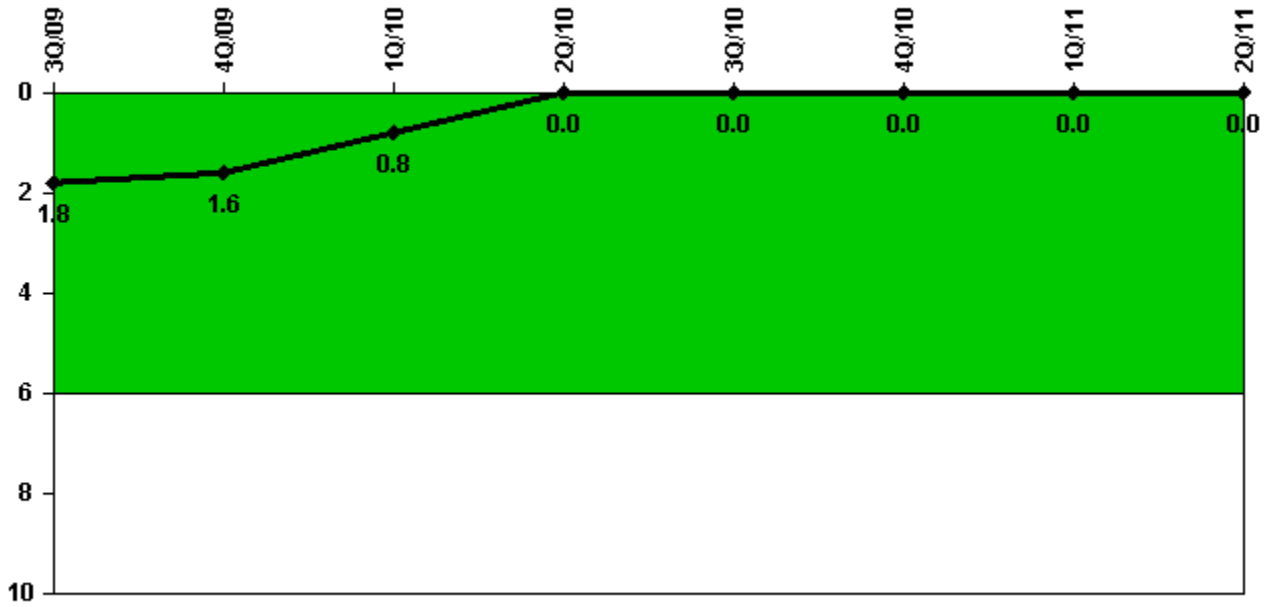
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	849.6	2208.0	2209.0	2159.0	2184.0
Indicator value	2.7	0	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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	849.6	2208.0	2209.0	2159.0	2184.0
Indicator value	1.8	1.6	0.8	0	0	0	0	0

Licensee Comments: none

# Unplanned Scrams with Complications



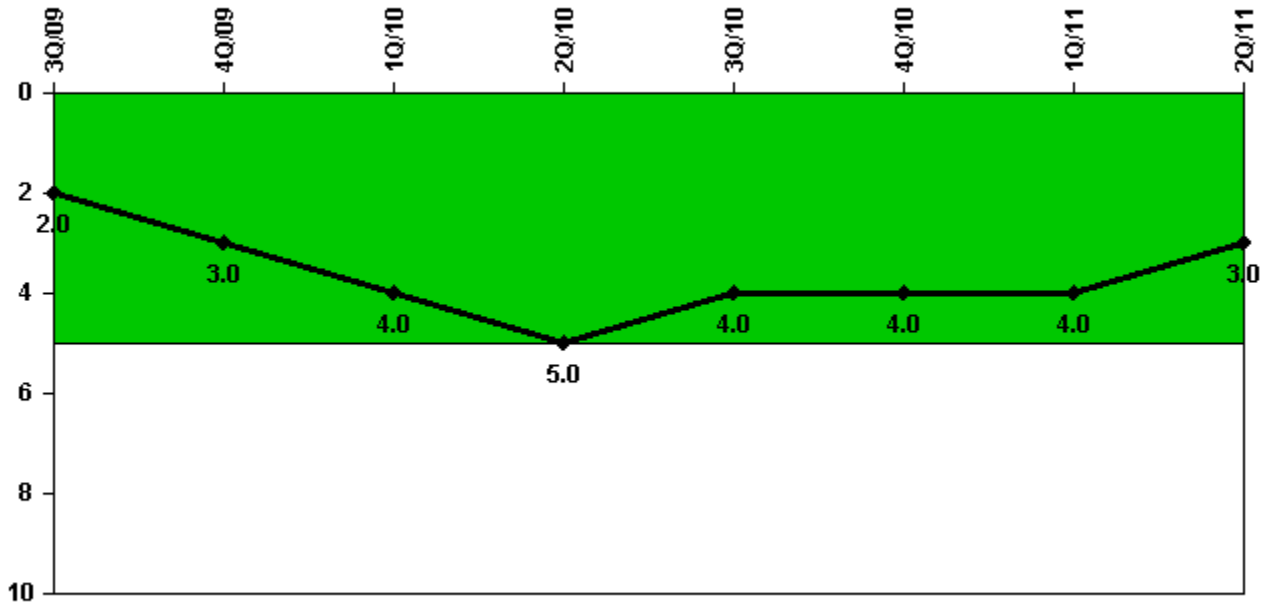
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
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)



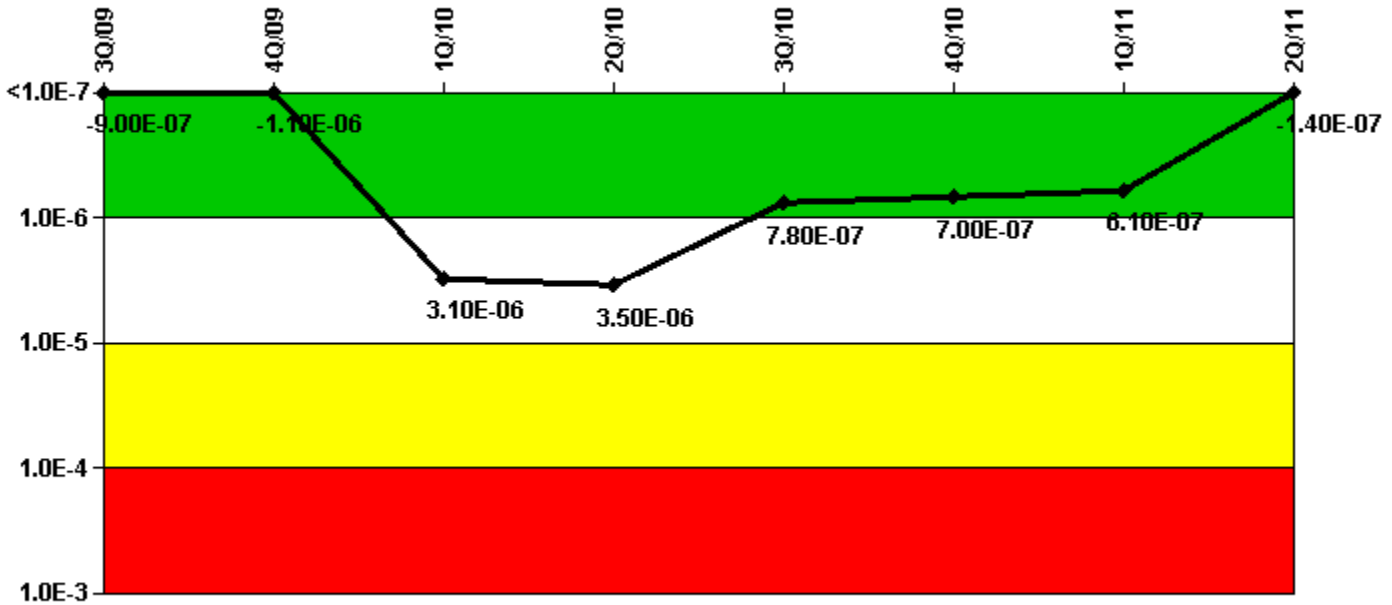
Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Safety System Functional Failures	2	1	1	1	1	1	1	0
Indicator value	2	3	4	5	4	4	4	3

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



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

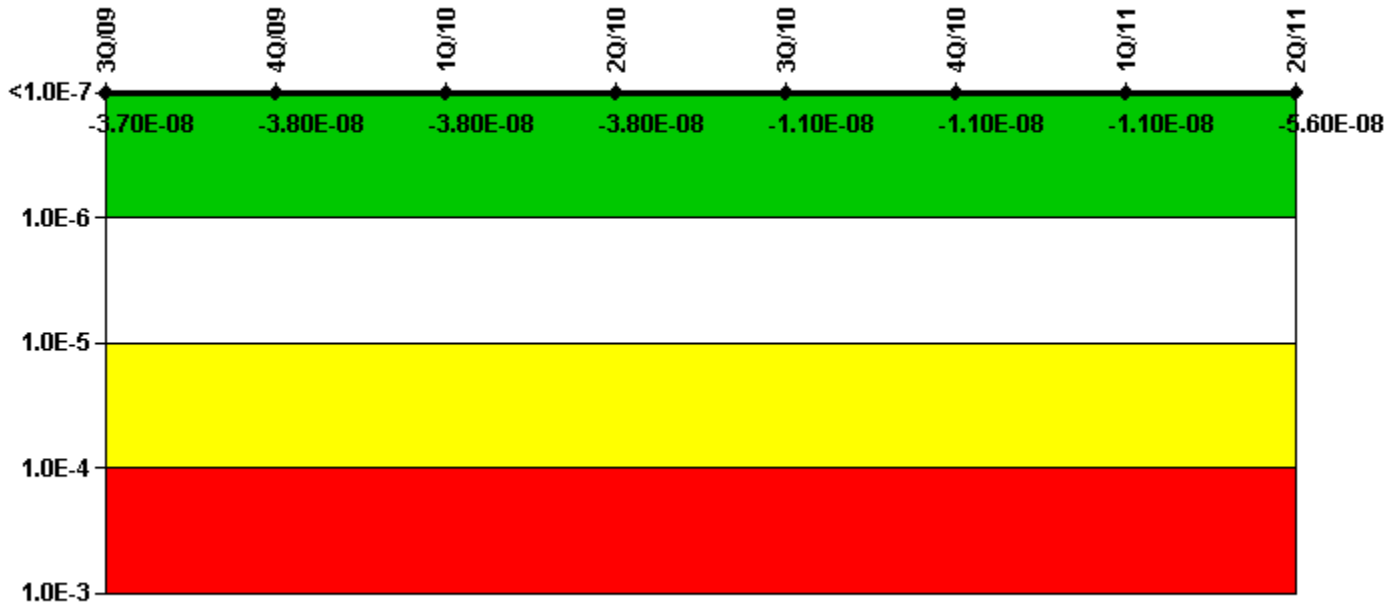
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI ( $\Delta$ CDF)	9.57E-07	7.77E-07	1.18E-06	1.61E-06	3.41E-07	2.55E-07	1.71E-07	1.03E-07
URI ( $\Delta$ CDF)	-1.86E-06	-1.87E-06	1.94E-06	1.89E-06	4.41E-07	4.41E-07	4.41E-07	-2.47E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.00E-07	-1.10E-06	3.10E-06	3.50E-06	7.80E-07	7.00E-07	6.10E-07	-1.40E-07

Licensee Comments:

2Q/11: Changed PRA Parameter(s). A change was made to the MSPI Basis Document that affected the PRA parameters for all MSPI systems for 2Q2011 forward. This change to the Basis Document reflects the installation of an alternate emergency power system.

# Mitigating Systems Performance Index, High Pressure Injection System



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

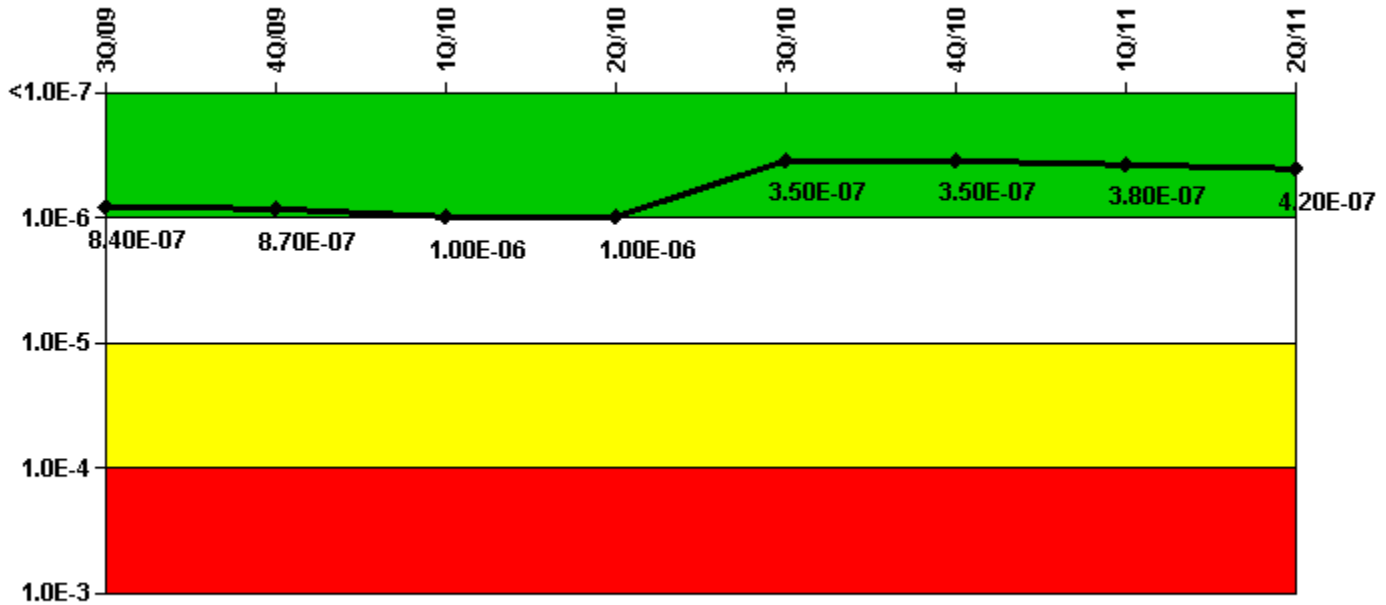
## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI ( $\Delta$ CDF)	-4.85E-09	-4.85E-09	-4.85E-09	-4.85E-09	-1.50E-09	-1.47E-09	-1.54E-09	-6.33E-09
URI ( $\Delta$ CDF)	-3.24E-08	-3.27E-08	-3.31E-08	-3.35E-08	-9.29E-09	-9.29E-09	-9.29E-09	-4.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.70E-08	-3.80E-08	-3.80E-08	-3.80E-08	-1.10E-08	-1.10E-08	-1.10E-08	-5.60E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). A change was made to the MSPI Basis Document that affected the PRA parameters for all MSPI systems for 2Q2011 forward. This change to the Basis Document reflects the installation of an alternate emergency power system.

# Mitigating Systems Performance Index, Heat Removal System



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

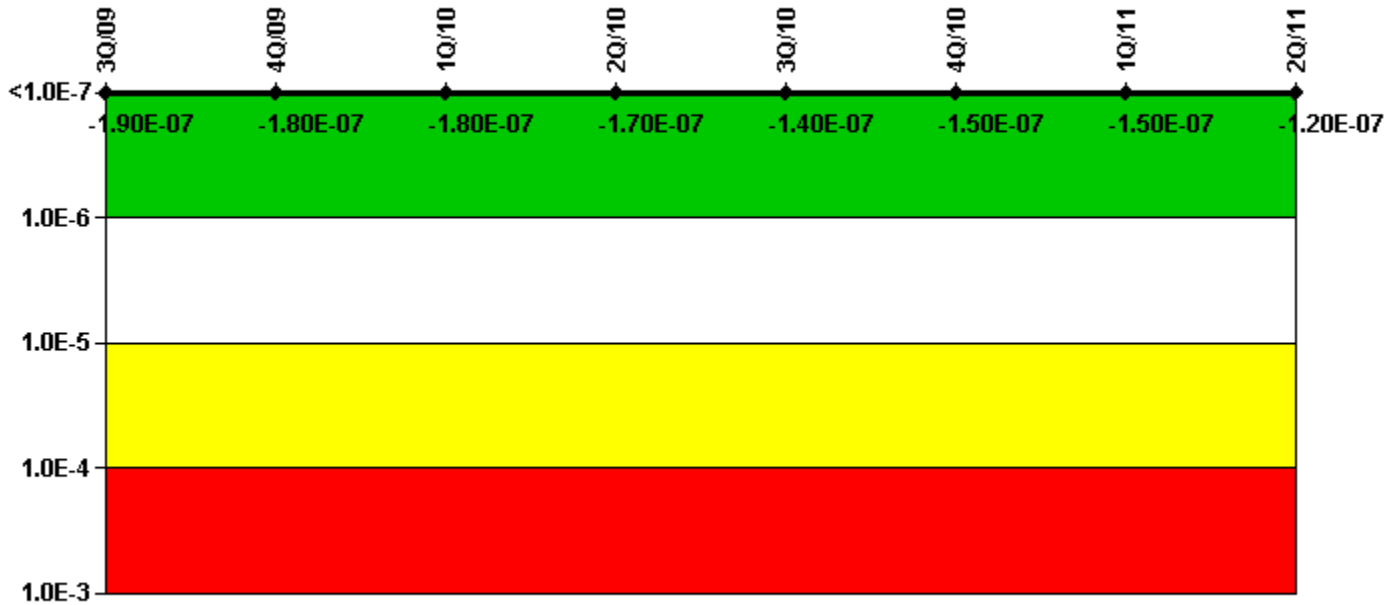
## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	-3.46E-08	-2.24E-08	1.09E-07	1.13E-07	7.28E-09	1.55E-08	3.94E-08	3.22E-08
URI (ΔCDF)	8.74E-07	8.91E-07	8.92E-07	9.10E-07	3.38E-07	3.38E-07	3.38E-07	3.83E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.40E-07	8.70E-07	1.00E-06	1.00E-06	3.50E-07	3.50E-07	3.80E-07	4.20E-07

Licensee Comments:

2Q/11: Changed PRA Parameter(s). A change was made to the MSPI Basis Document that affected the PRA parameters for all MSPI systems for 2Q2011 forward. This change to the Basis Document reflects the installation of an alternate emergency power system.

# Mitigating Systems Performance Index, Residual Heat Removal System



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

## Notes

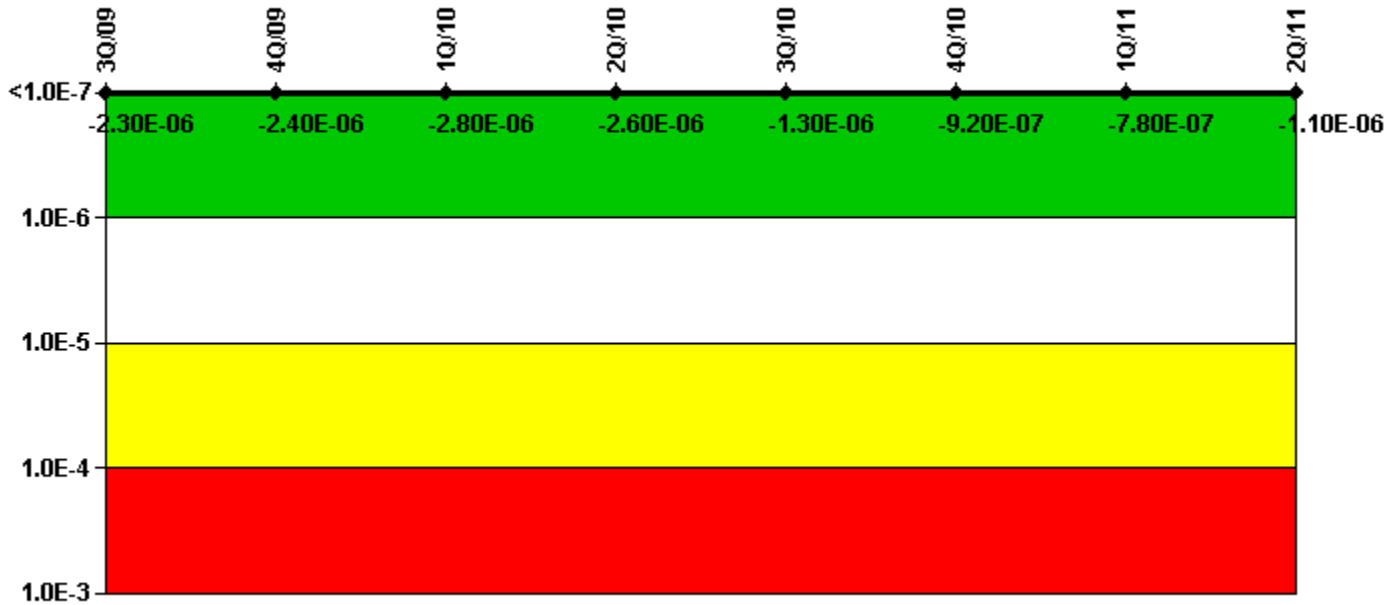
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI ( $\Delta$ CDF)	-7.50E-09	-7.26E-09	-5.28E-09	-1.22E-10	-6.10E-09	-1.88E-08	-1.88E-08	7.64E-09
URI ( $\Delta$ CDF)	-1.81E-07	-1.76E-07	-1.71E-07	-1.65E-07	-1.34E-07	-1.34E-07	-1.34E-07	-1.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.80E-07	-1.80E-07	-1.70E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.20E-07

Licensee Comments:

2Q/11: Changed PRA Parameter(s). A change was made to the MSPI Basis Document that affected the PRA parameters for all MSPI systems for 2Q2011 forward. This change to the Basis Document reflects the installation of an alternate emergency power system.



# Mitigating Systems Performance Index, Cooling Water Systems



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

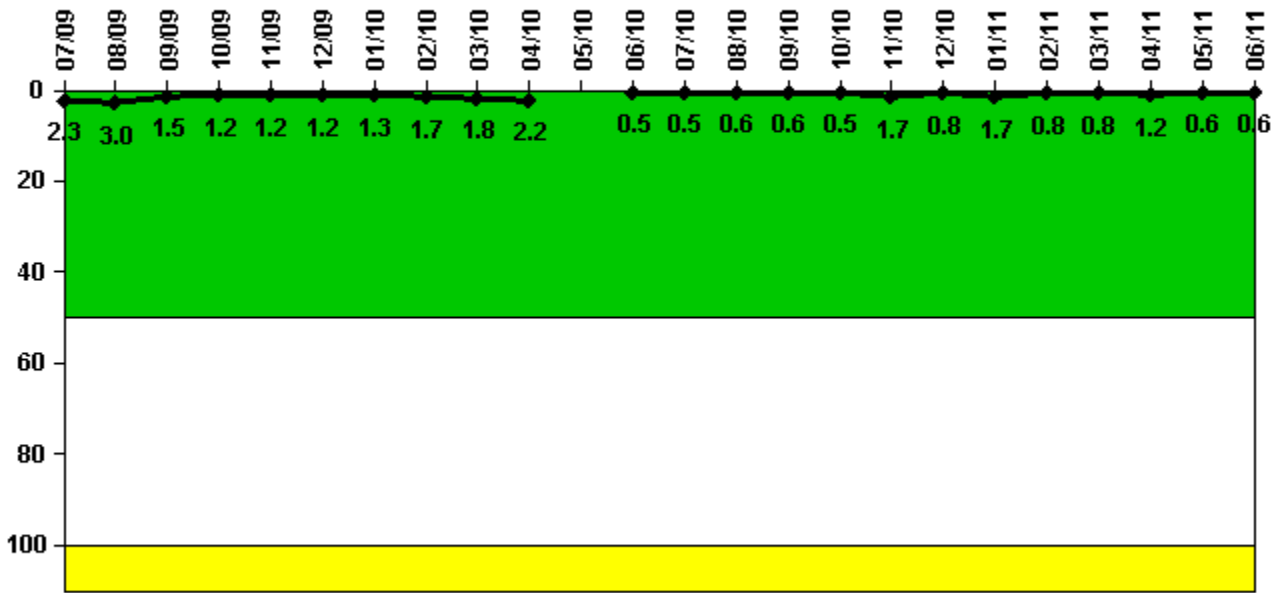
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI ( $\Delta$ CDF)	-1.14E-06	-1.19E-06	-1.67E-06	-1.46E-06	-5.59E-07	-2.25E-07	-8.29E-08	-1.90E-07
URI ( $\Delta$ CDF)	-1.16E-06	-1.16E-06	-1.16E-06	-1.16E-06	-6.97E-07	-6.97E-07	-6.97E-07	-9.15E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-06	-2.40E-06	-2.80E-06	-2.60E-06	-1.30E-06	-9.20E-07	-7.80E-07	-1.10E-06

Licensee Comments:

2Q/11: Risk Cap Invoked. Changed PRA Parameter(s). A change was made to the MSPI Basis Document that affected the PRA parameters for all MSPI systems for 2Q2011 forward. This change to the Basis Document reflects the installation of an alternate emergency power system.

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

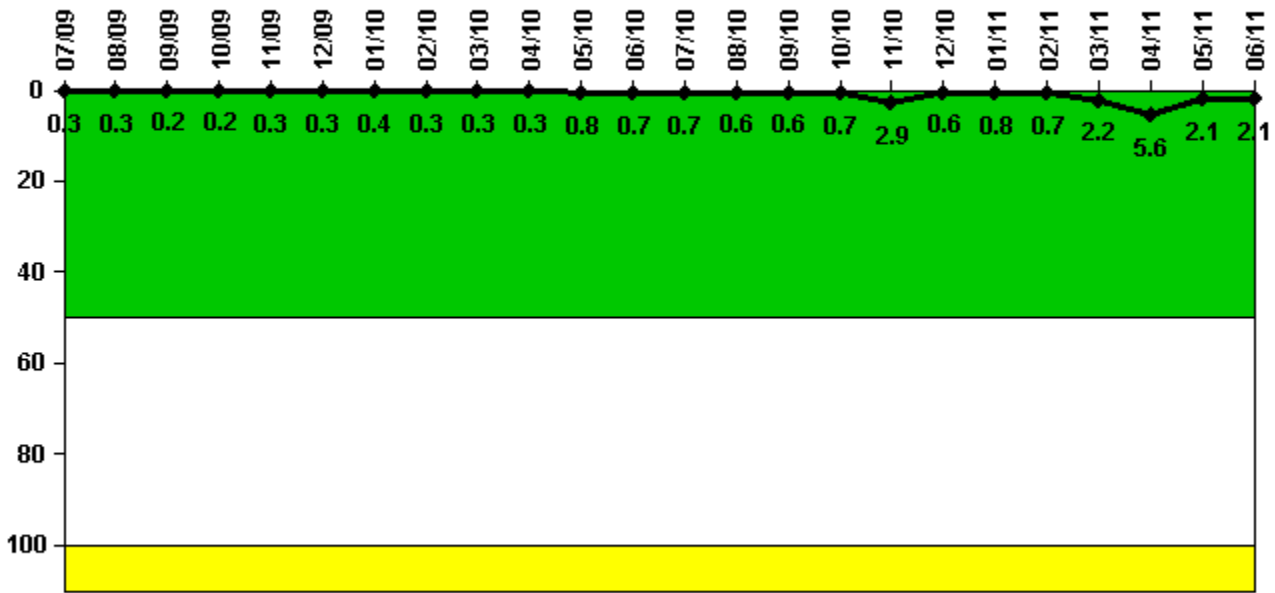
Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.023000	0.030000	0.015000	0.012000	0.011700	0.012300	0.012600	0.012800	0.013600	0.016800	N/A	0.003680
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8
Indicator value	2.3	3.0	1.5	1.2	1.2	1.2	1.3	1.7	1.8	2.2	N/A	0.5

Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.003410	0.004570	0.004640	0.003980	0.012500	0.005750	0.013000	0.006000	0.006000	0.012000	0.005980	0.006260
Technical specification limit	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0
Indicator value	0.5	0.6	0.6	0.5	1.7	0.8	1.7	0.8	0.8	1.2	0.6	0.6

Licensee Comments: none

## Reactor Coolant System Leakage



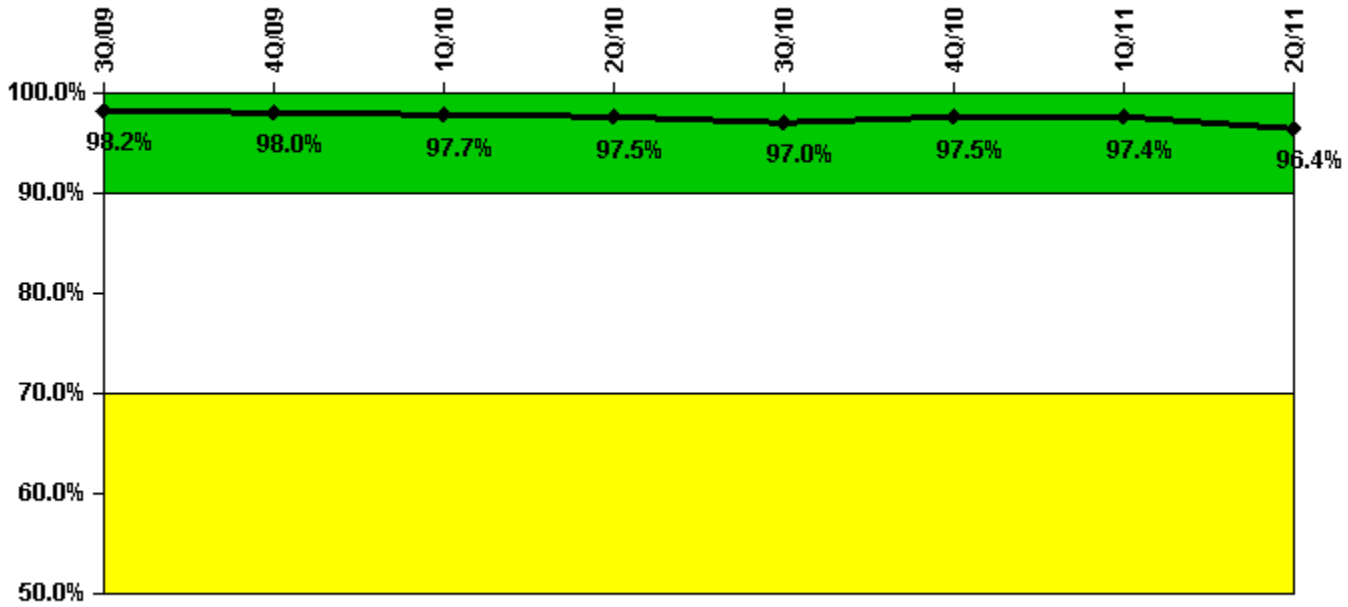
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.034	0.031	0.023	0.023	0.027	0.032	0.039	0.025	0.031	0.034	0.076	0.066
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	0.3	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.8	0.7
Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.068	0.058	0.058	0.072	0.294	0.062	0.080	0.066	0.218	0.564	0.212	0.208
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	0.6	0.6	0.7	2.9	0.6	0.8	0.7	2.2	5.6	2.1	2.1

Licensee Comments: none

## Drill/Exercise Performance



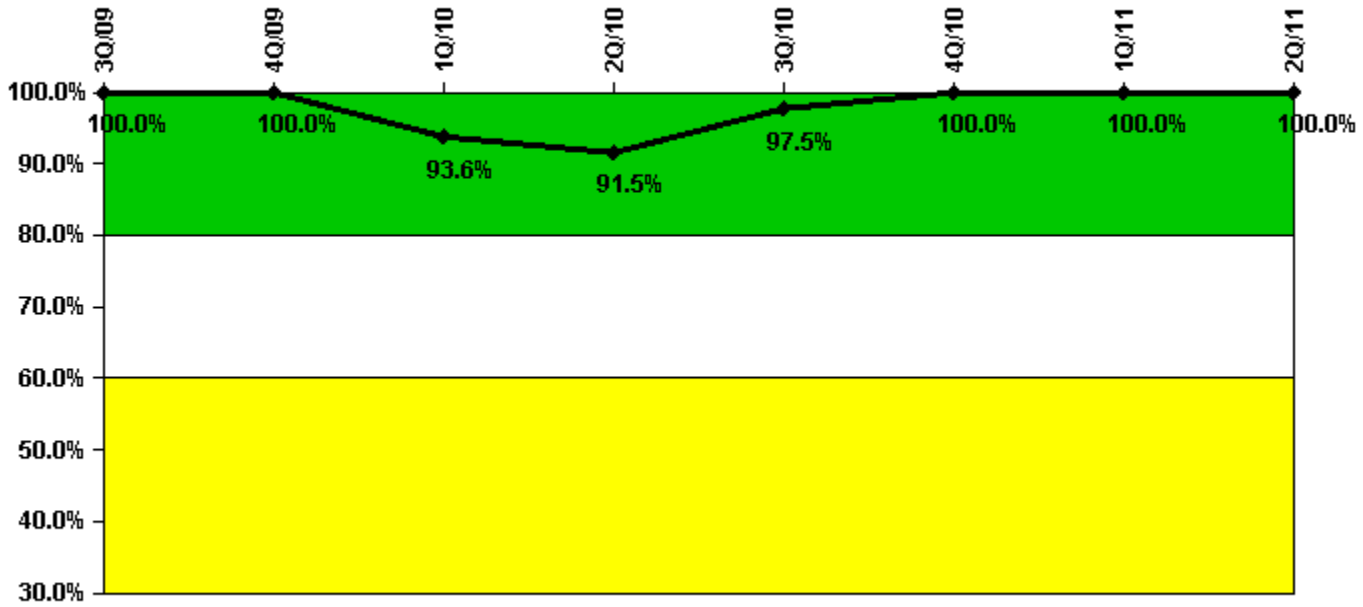
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	25.0	45.0	6.0	0	37.0	31.0	50.0	23.0
Total opportunities	26.0	47.0	6.0	1.0	39.0	32.0	50.0	24.0
Indicator value	98.2%	98.0%	97.7%	97.5%	97.0%	97.5%	97.4%	96.4%

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

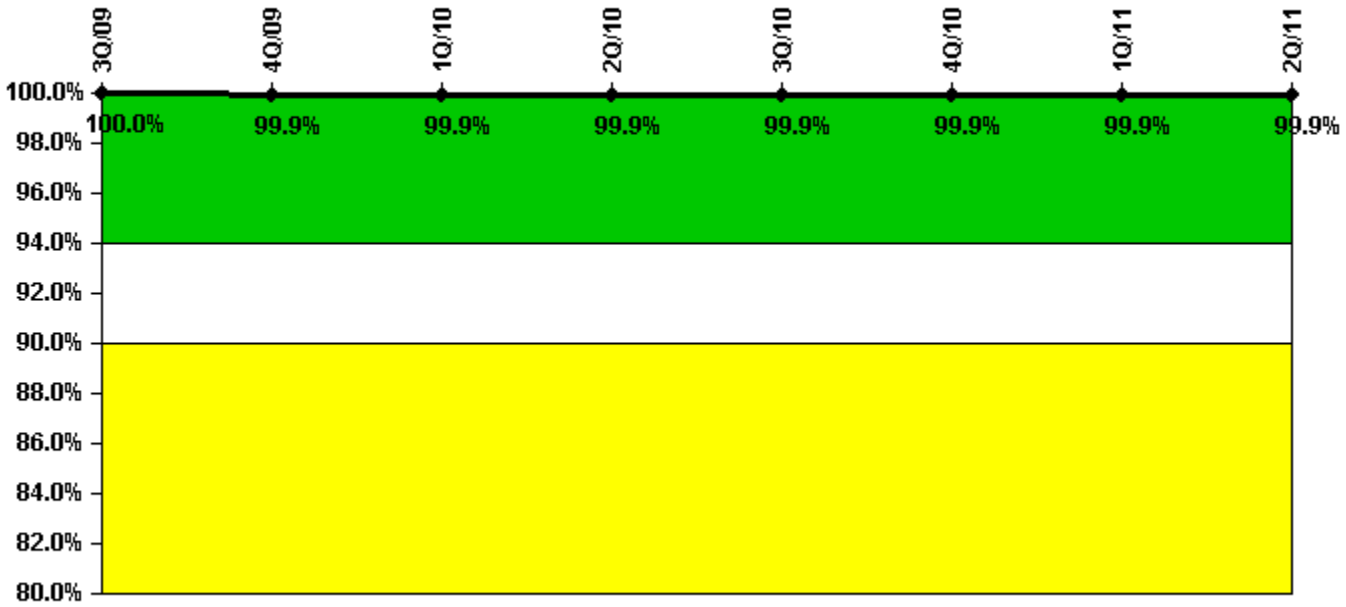
### Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	106.0	105.0	102.0	97.0	115.0	113.0	90.0	93.0
Total Key personnel	106.0	105.0	109.0	106.0	118.0	113.0	90.0	93.0
Indicator value	100.0%	100.0%	93.6%	91.5%	97.5%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/11: The ERO Drill Participation data for 3Q2010 was changed from 116 of 118 to 115 of 118. This change corrected an error in which one individual was inadvertently reported as having participated in an ERO drill. This error was discovered by an NRC Emergency Preparedness inspector.

# Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	377	376	377	377	377	376	377	405
Total sirens-tests	377	377	377	377	377	377	377	406
Indicator value	100.0%	99.9%	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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
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.