

# Davis-Besse

## 3Q/2010 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

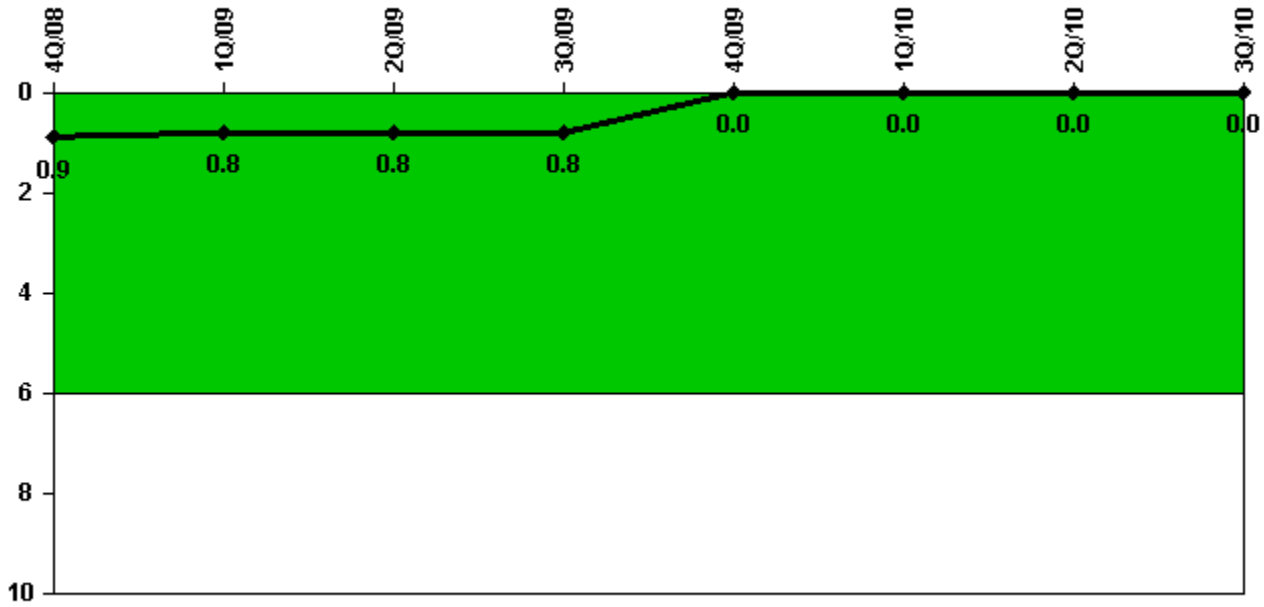
### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	1807.0	2208.0	2209.0	1394.5	70.5	2208.0
Indicator value	0	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	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	1807.0	2208.0	2209.0	1394.5	70.5	2208.0
Indicator value	0.9	0.8	0.8	0.8	0	0	0	0

Licensee Comments: none

## Unplanned Scrams with Complications



Thresholds: White > 1.0

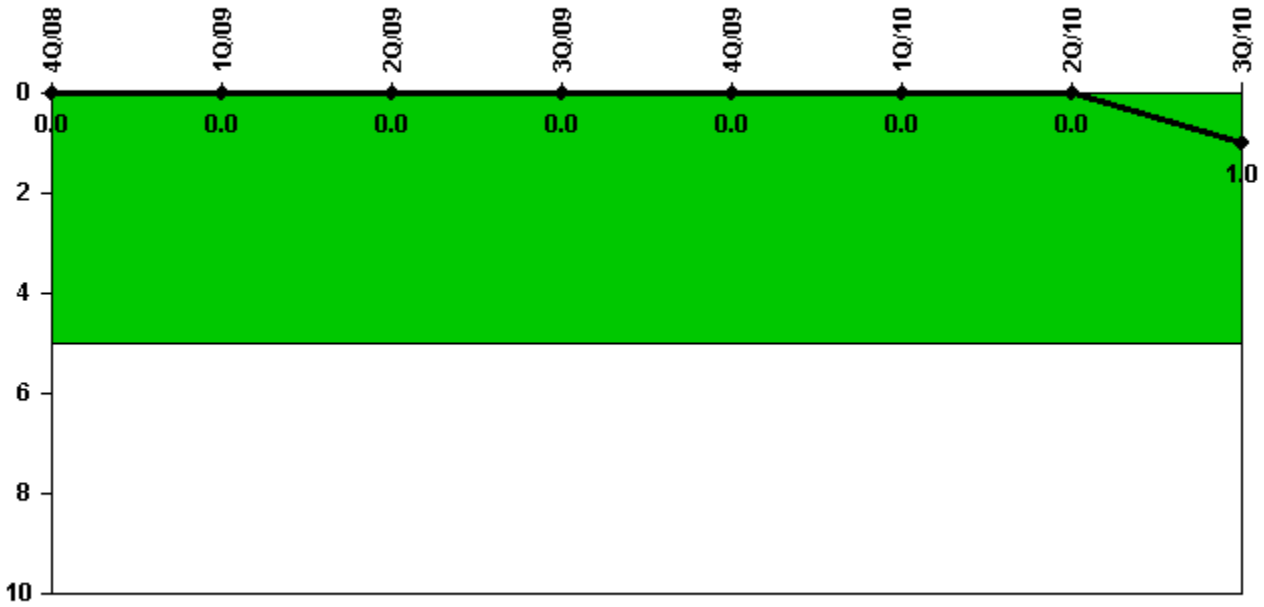
### Notes

Unplanned Scrams with Complications	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
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

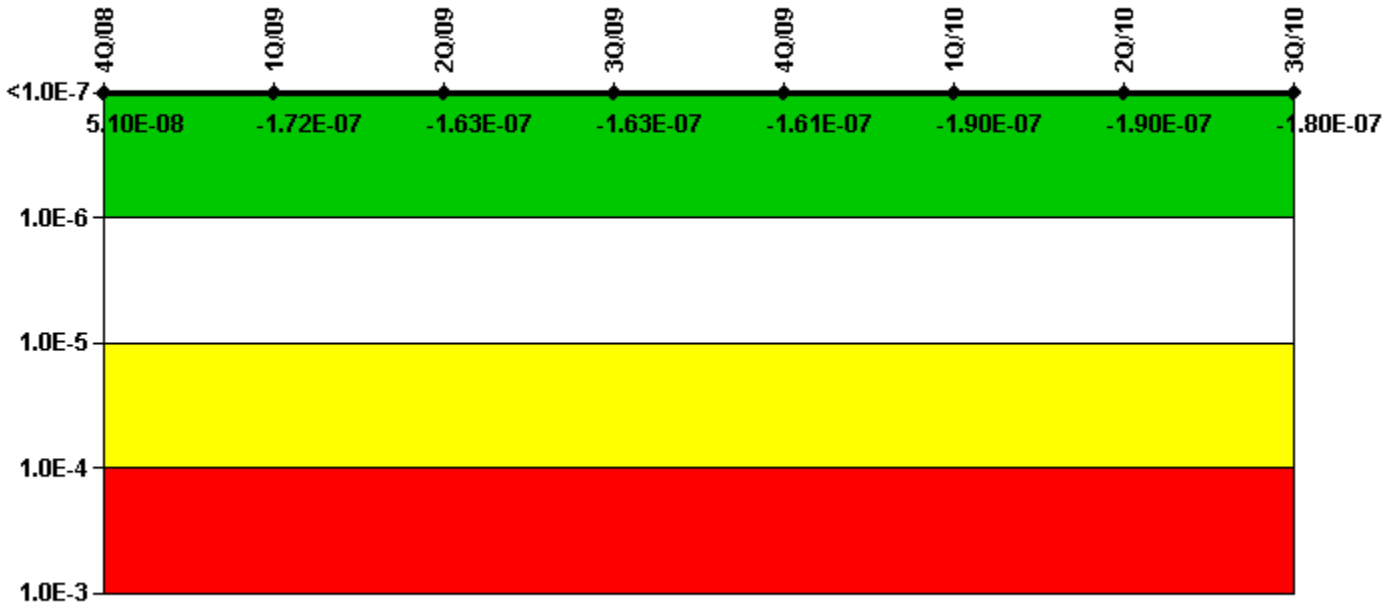
Safety System Functional Failures (PWR)	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Safety System Functional Failures	0	0	0	0	0	0	0	1
Indicator value	0	0	0	0	0	0	0	1

Licensee Comments:

3Q/10: LER 2009-001 Revision 01 submitted to document event was SSFF

---

# Mitigating Systems Performance Index, Emergency AC Power System



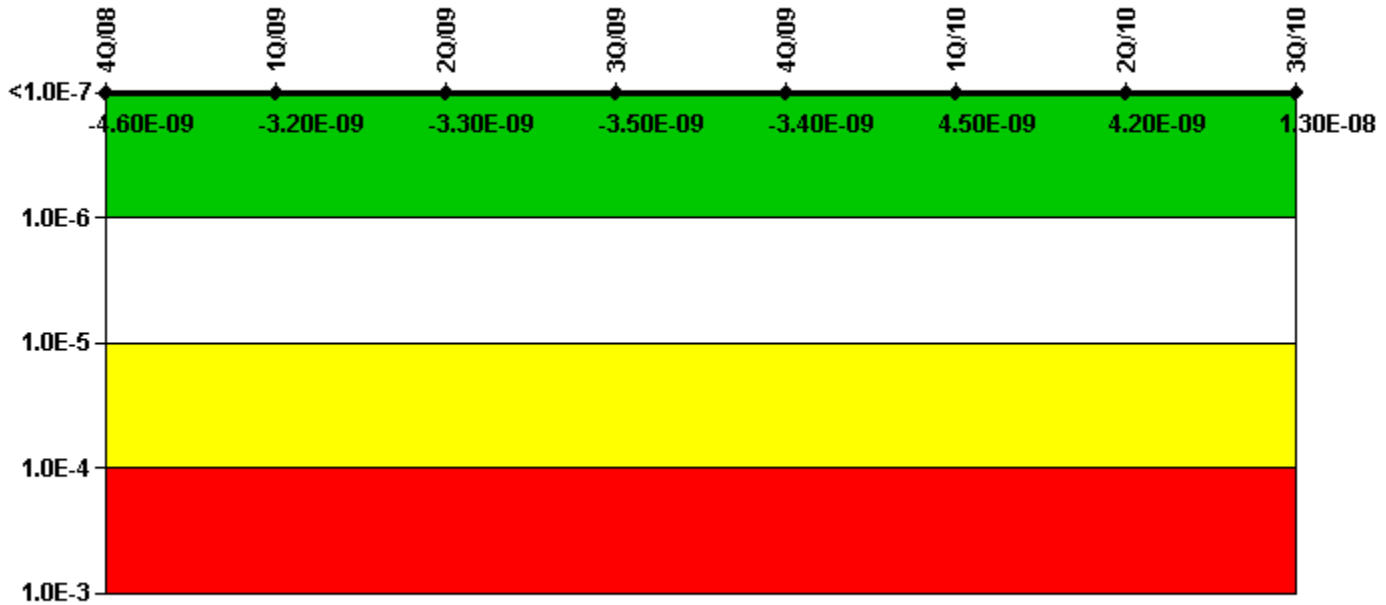
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	3.90E-08	-2.40E-09	-2.90E-09	-3.10E-09	-1.10E-09	-3.65E-08	-3.64E-08	-2.82E-08
URI ( $\Delta$ CDF)	1.20E-08	-1.70E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.58E-07	-1.54E-07	-1.54E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.10E-08	-1.72E-07	-1.63E-07	-1.63E-07	-1.61E-07	-1.90E-07	-1.90E-07	-1.80E-07

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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	-6.60E-10	6.99E-10	2.22E-10	2.27E-10	6.25E-10	8.67E-09	8.35E-09	1.70E-08
URI ( $\Delta$ CDF)	-3.90E-09	-3.86E-09	-3.55E-09	-3.70E-09	-4.02E-09	-4.21E-09	-4.15E-09	-4.19E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.60E-09	-3.20E-09	-3.30E-09	-3.50E-09	-3.40E-09	4.50E-09	4.20E-09	1.30E-08

Licensee Comments:

3Q/10: Changed PRA Parameter(s).

2Q/10: Changed PRA Parameter(s).

1Q/10: Changed PRA Parameter(s).

4Q/09: Changed PRA Parameter(s).

3Q/09: Changed PRA Parameter(s).

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

1Q/09: Changed PRA Parameter(s). PRA parameters changed for 4Q2007 forward to correct previous data entry error.

4Q/08: Changed PRA Parameter(s).

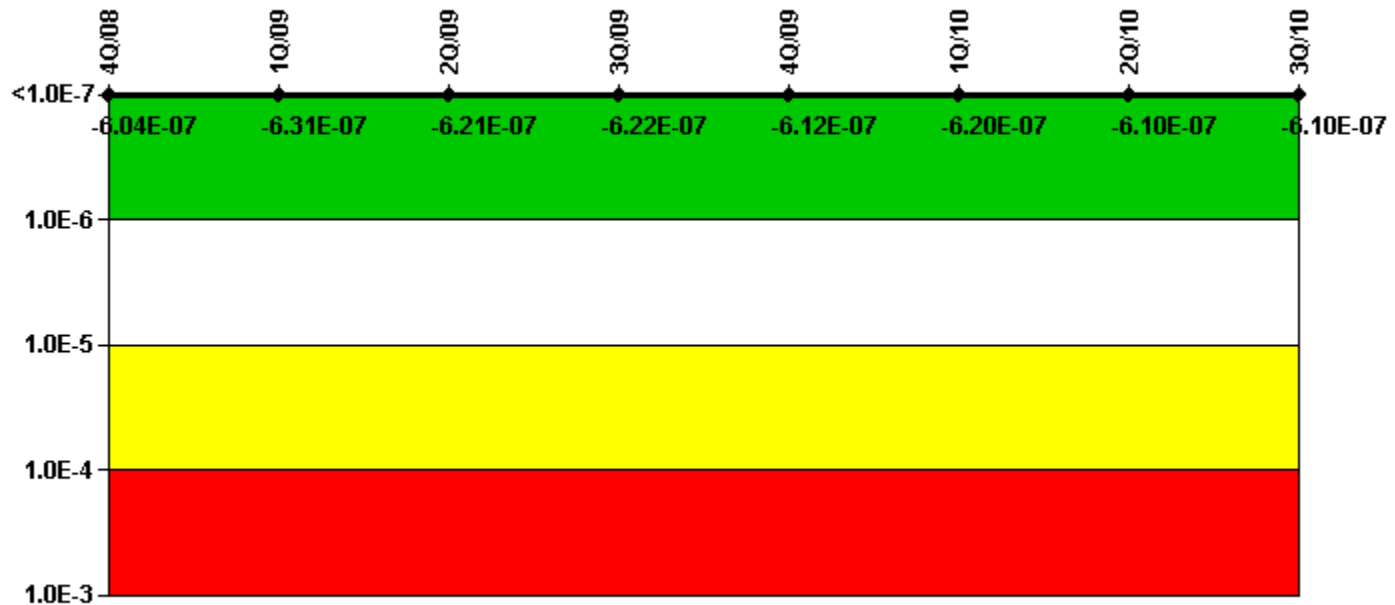
3Q/08: Changed PRA Parameter(s).

2Q/08: Changed PRA Parameter(s).

1Q/08: Changed PRA Parameter(s).

4Q/07: Changed PRA Parameter(s). MSPI Basis Document Change effective for 4Q2007.

### Mitigating Systems Performance Index, Heat Removal System



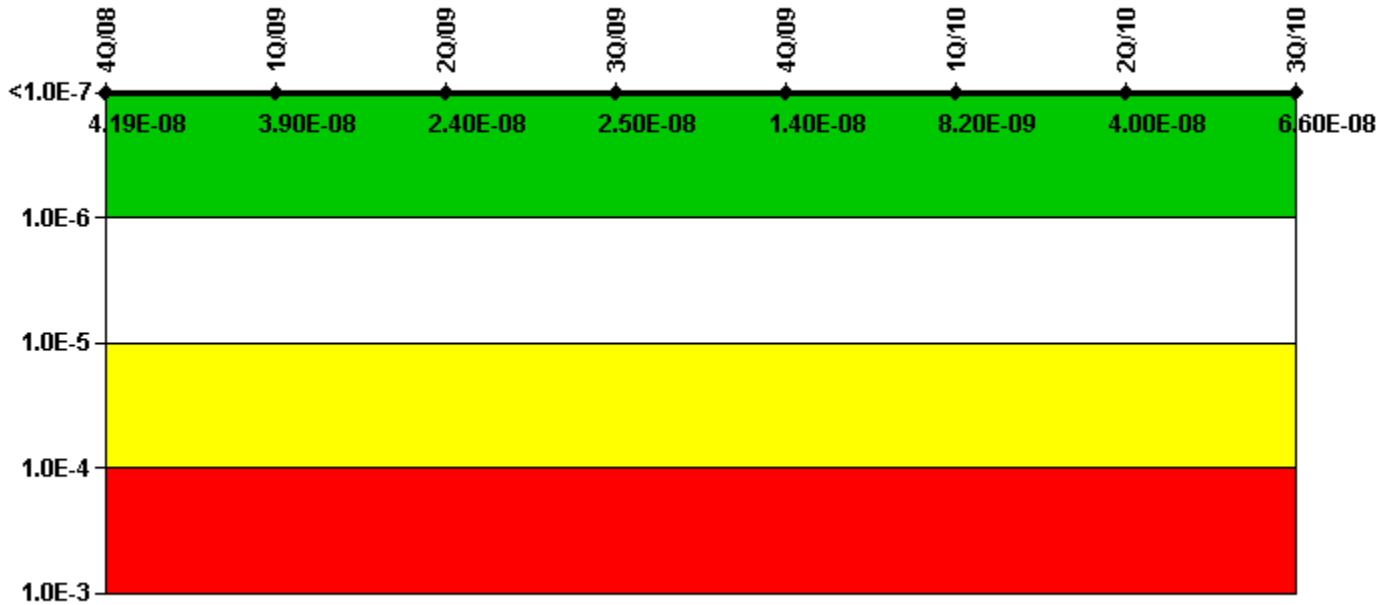
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

### Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	-3.80E-09	-2.10E-08	-2.10E-08	-2.20E-08	-1.20E-08	-1.20E-08	1.22E-08	2.03E-08
URI ( $\Delta$ CDF)	-6.00E-07	-6.10E-07	-6.00E-07	-6.00E-07	-6.00E-07	-6.10E-07	-6.21E-07	-6.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.04E-07	-6.31E-07	-6.21E-07	-6.22E-07	-6.12E-07	-6.20E-07	-6.10E-07	-6.10E-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

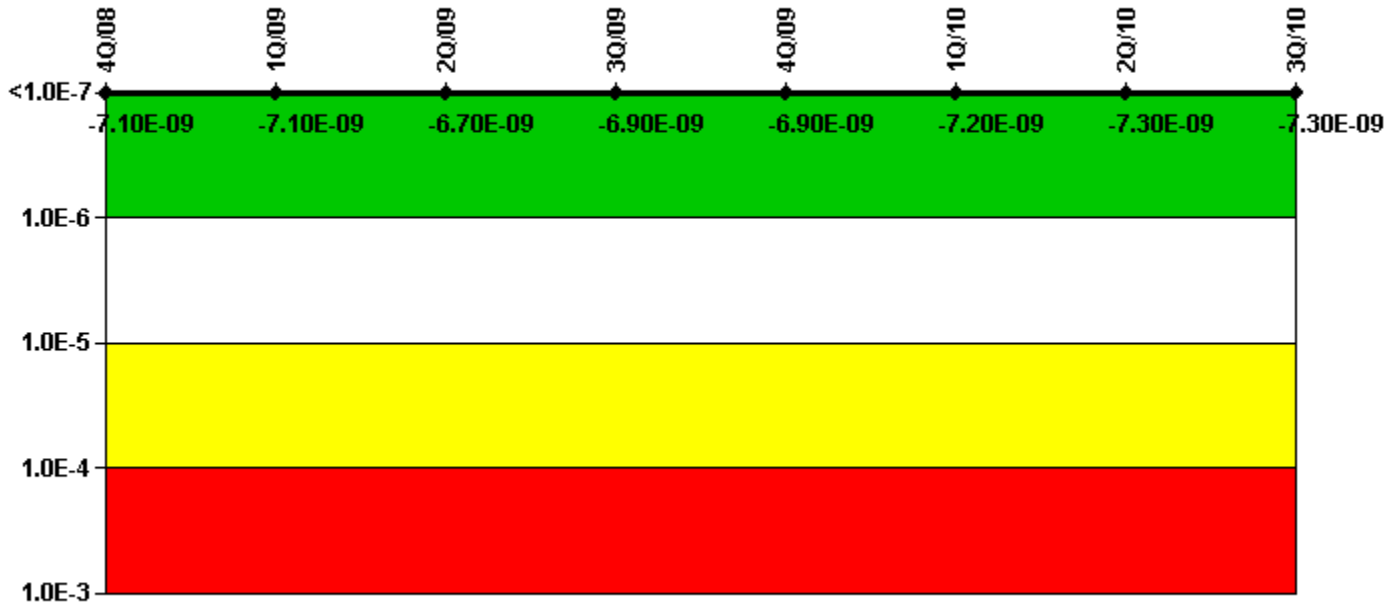
Mitigating Systems Performance Index, Residual Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	3.30E-08	2.80E-08	4.20E-08	4.30E-08	3.20E-08	3.15E-08	3.80E-08	6.57E-08
URI ( $\Delta$ CDF)	8.90E-09	1.10E-08	-1.80E-08	-1.80E-08	-1.80E-08	-2.33E-08	2.13E-09	7.32E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.19E-08	3.90E-08	2.40E-08	2.50E-08	1.40E-08	8.20E-09	4.00E-08	6.60E-08

Licensee Comments:

4Q/07: MSPI Basis Document Change effective for 4Q2007.



# Mitigating Systems Performance Index, Cooling Water Systems



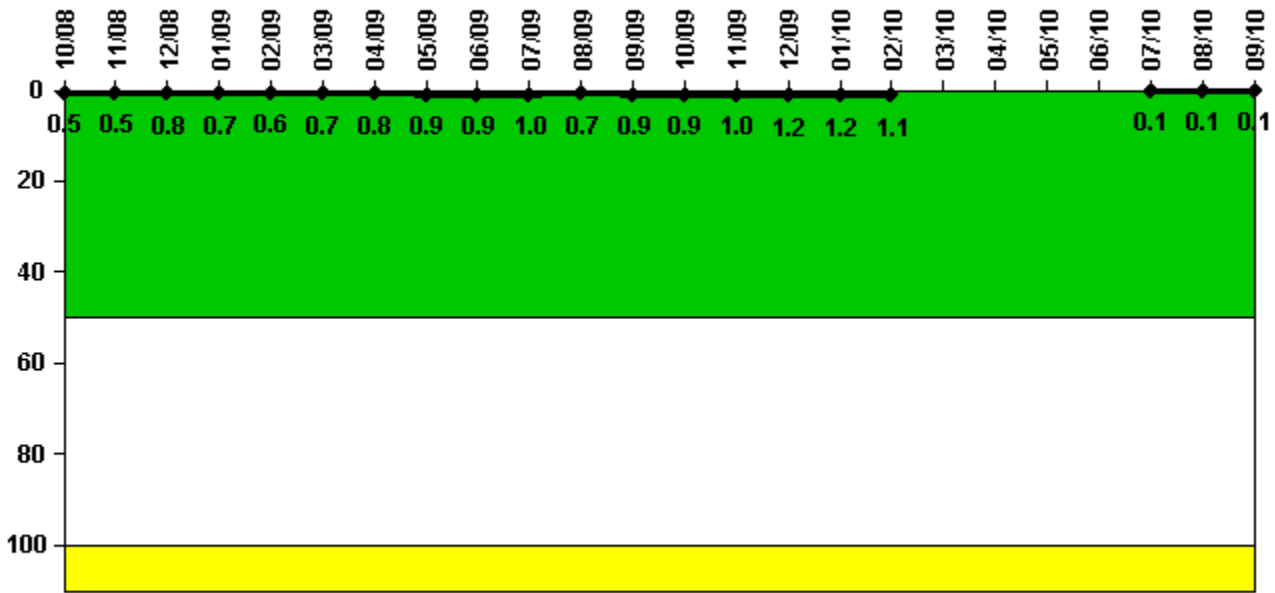
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	1.40E-09	1.40E-09	1.40E-09	1.40E-09	1.40E-09	1.41E-09	1.55E-09	1.55E-09
URI ( $\Delta$ CDF)	-8.50E-09	-8.50E-09	-8.10E-09	-8.30E-09	-8.30E-09	-8.60E-09	-8.86E-09	-8.81E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.10E-09	-7.10E-09	-6.70E-09	-6.90E-09	-6.90E-09	-7.20E-09	-7.30E-09	-7.30E-09

Licensee Comments: none

# Reactor Coolant System Activity



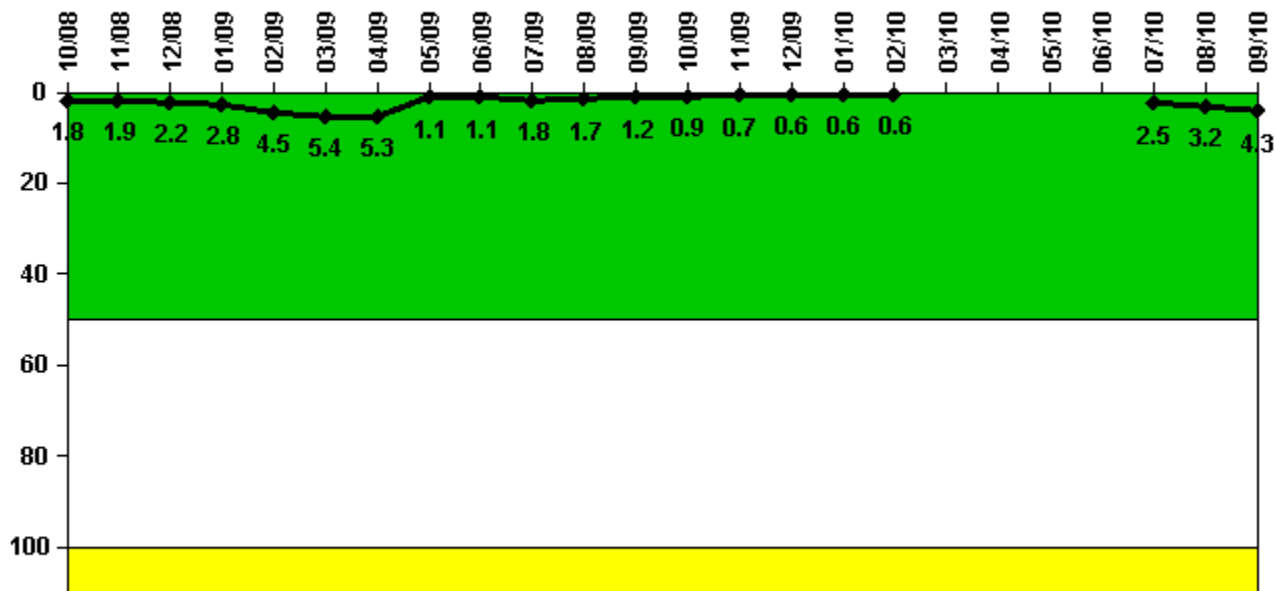
Thresholds: White > 50.0 Yellow > 100.0

## Notes

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	0.005400	0.005400	0.008300	0.007000	0.006400	0.007000	0.007700	0.009000	0.009000	0.010000	0.007400	0.008700
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	0.5	0.5	0.8	0.7	0.6	0.7	0.8	0.9	0.9	1.0	0.7	0.9
Reactor Coolant System Activity	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum activity	0.009200	0.010000	0.012000	0.012000	0.011000	N/A	N/A	N/A	N/A	0.001100	0.001100	0.001200
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	0.9	1.0	1.2	1.2	1.1	N/A	N/A	N/A	N/A	0.1	0.1	0.1

Licensee Comments: none

## Reactor Coolant System Leakage



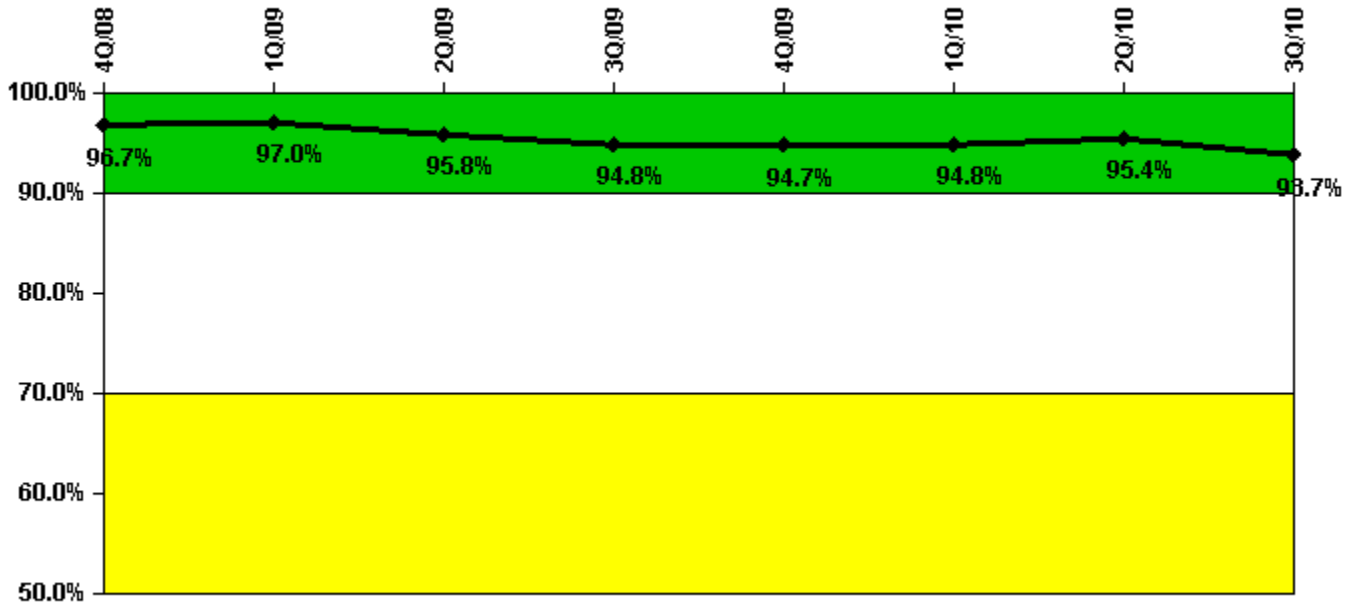
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	0.177	0.190	0.220	0.282	0.448	0.540	0.534	0.107	0.114	0.180	0.168	0.118
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	1.8	1.9	2.2	2.8	4.5	5.4	5.3	1.1	1.1	1.8	1.7	1.2
Reactor Coolant System Leakage	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum leakage	0.094	0.068	0.059	0.063	0.059	N/A	N/A	N/A	N/A	0.251	0.320	0.427
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	0.9	0.7	0.6	0.6	0.6	N/A	N/A	N/A	N/A	2.5	3.2	4.3

Licensee Comments: none

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

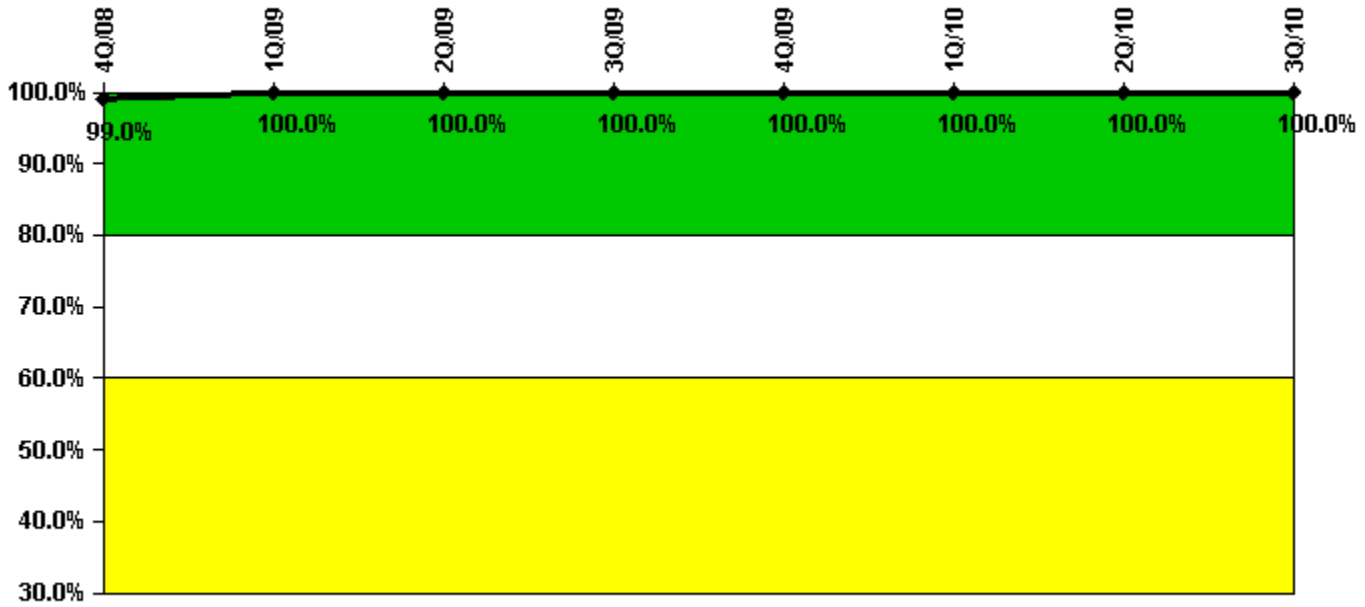
### Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	38.0	29.0	21.0	21.0	62.0	3.0	26.0	23.0
Total opportunities	39.0	30.0	23.0	24.0	64.0	3.0	28.0	27.0
Indicator value	96.7%	97.0%	95.8%	94.8%	94.7%	94.8%	95.4%	93.7%

Licensee Comments:

2Q/10: Minor data error in Drill Exercise Performance for June 2010 corrected. This correction did not result in a change to the indicator value.

# ERO Drill Participation



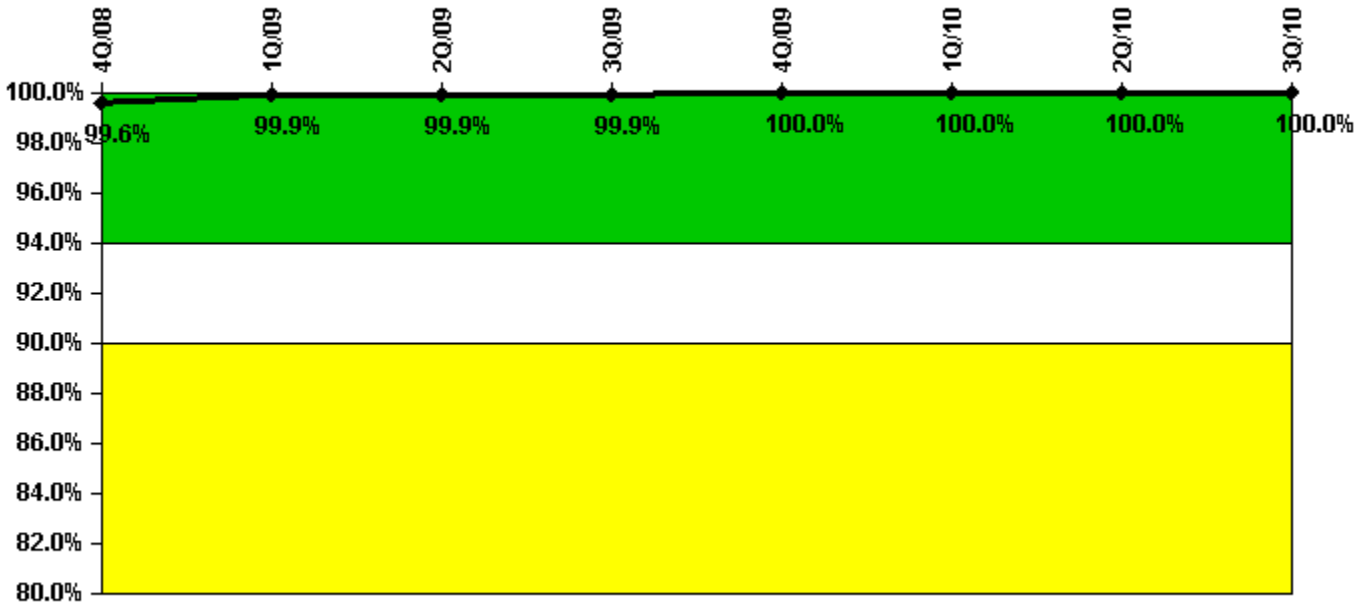
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	99.0	99.0	99.0	92.0	100.0	98.0	99.0	94.0
Total Key personnel	100.0	99.0	99.0	92.0	100.0	98.0	99.0	94.0
Indicator value	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

# Alert & Notification System



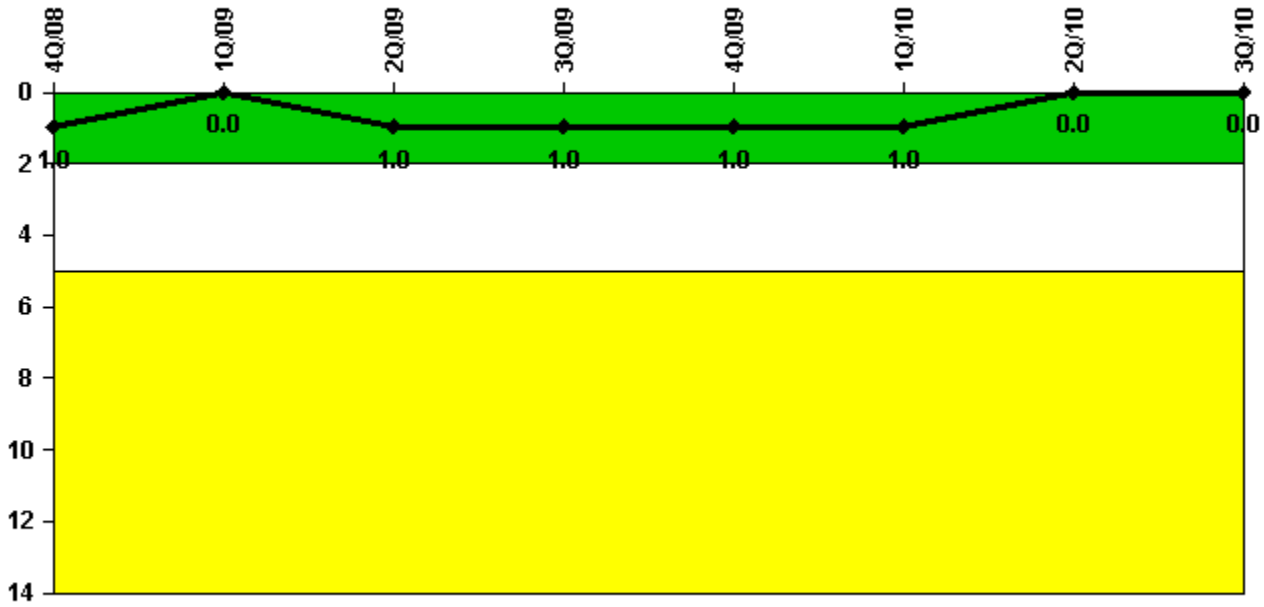
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	701	701	702	702	702	702	648	702
Total sirens-tests	702	702	702	702	702	702	648	702
Indicator value	99.6%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
High radiation area occurrences	0	0	1	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>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
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.