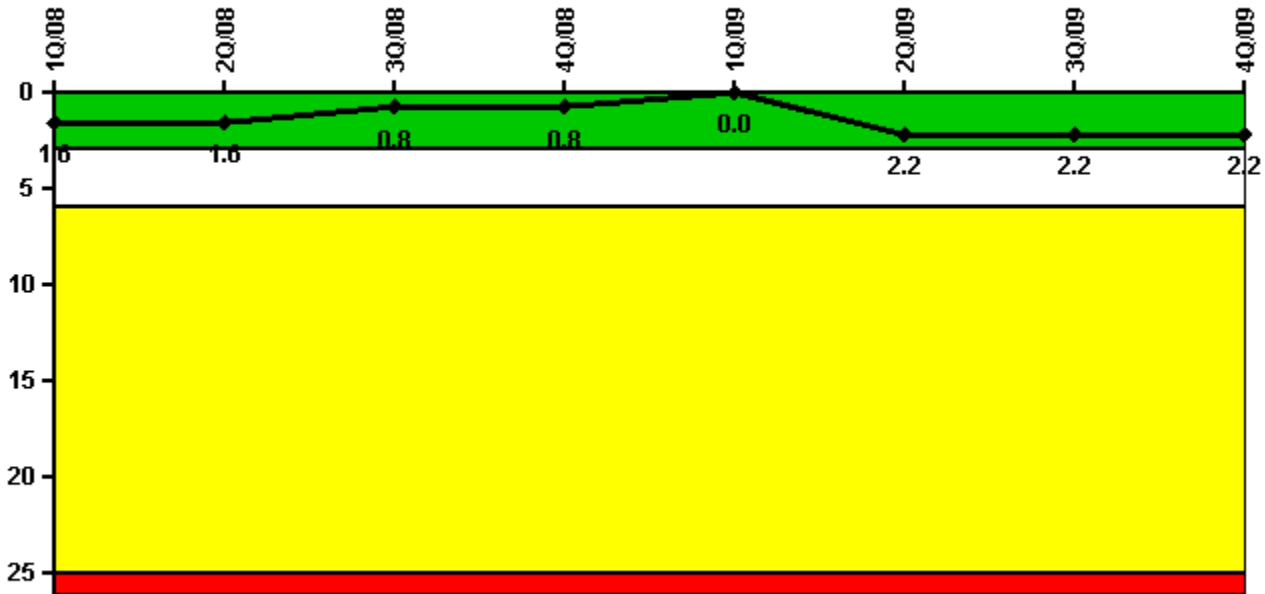


# Hatch 2

## 4Q/2009 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



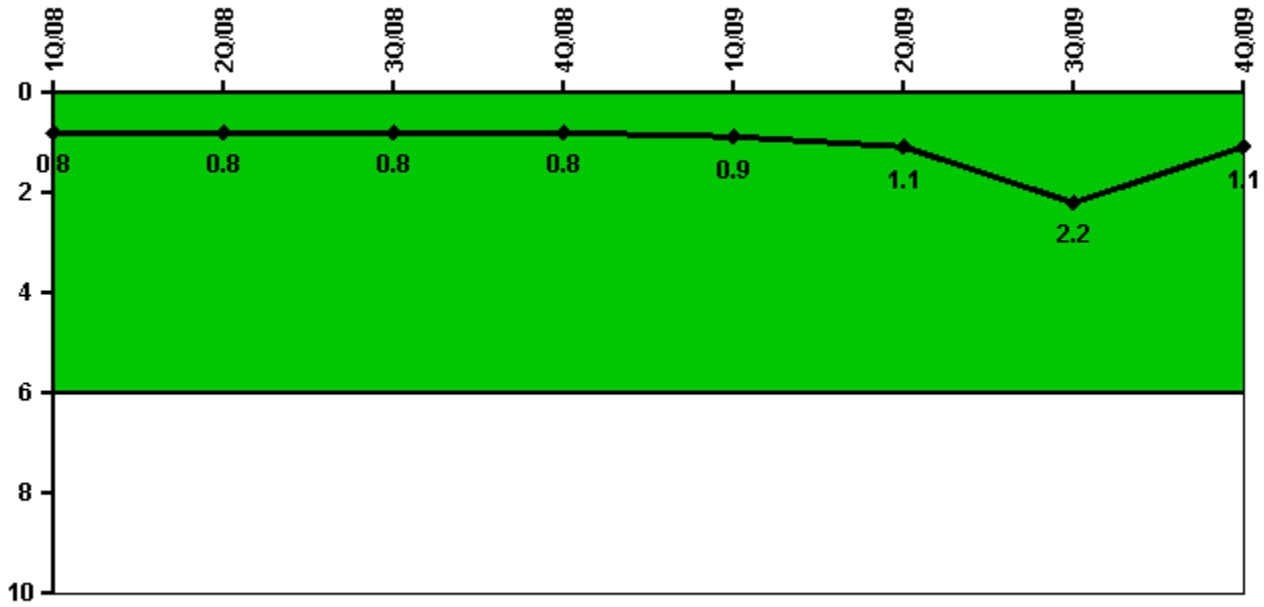
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	1.0	0	0	0	0	2.0	0	0
Critical hours	2132.0	2060.5	2208.0	2209.0	937.3	877.2	2208.0	2209.0
Indicator value	1.6	1.6	0.8	0.8	0	2.2	2.2	2.2

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



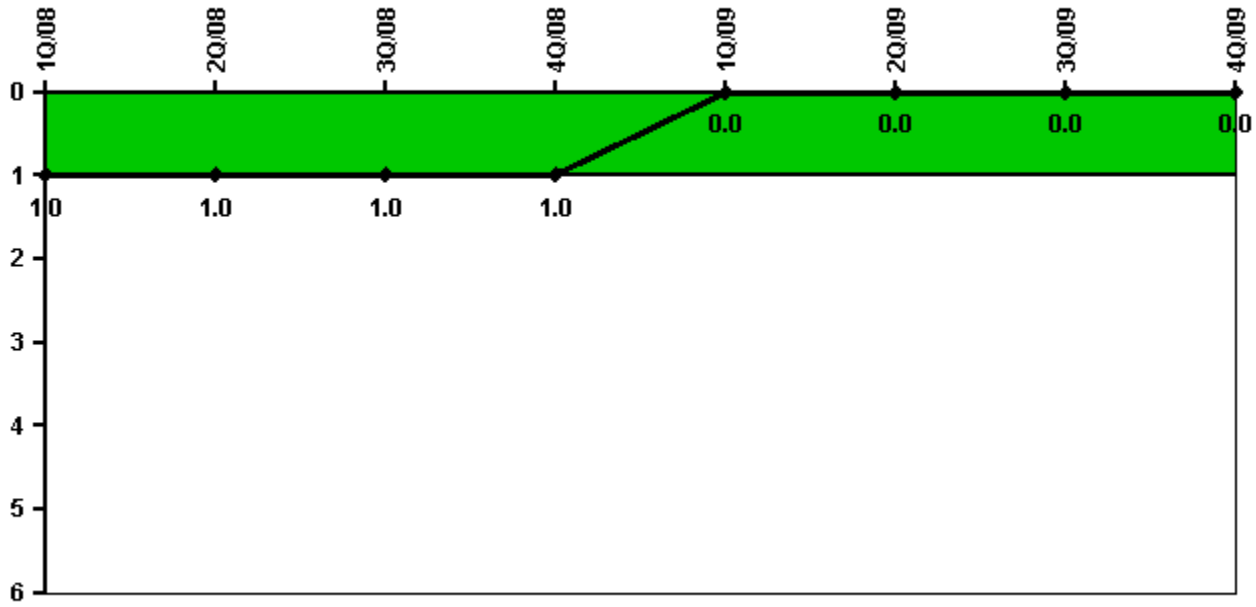
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	0	0	1.0	0	0	1.0	0
Critical hours	2132.0	2060.5	2208.0	2209.0	937.3	877.2	2208.0	2209.0
Indicator value	0.8	0.8	0.8	0.8	0.9	1.1	2.2	1.1

Licensee Comments: none

## Unplanned Scrams with Complications



Thresholds: White > 1.0

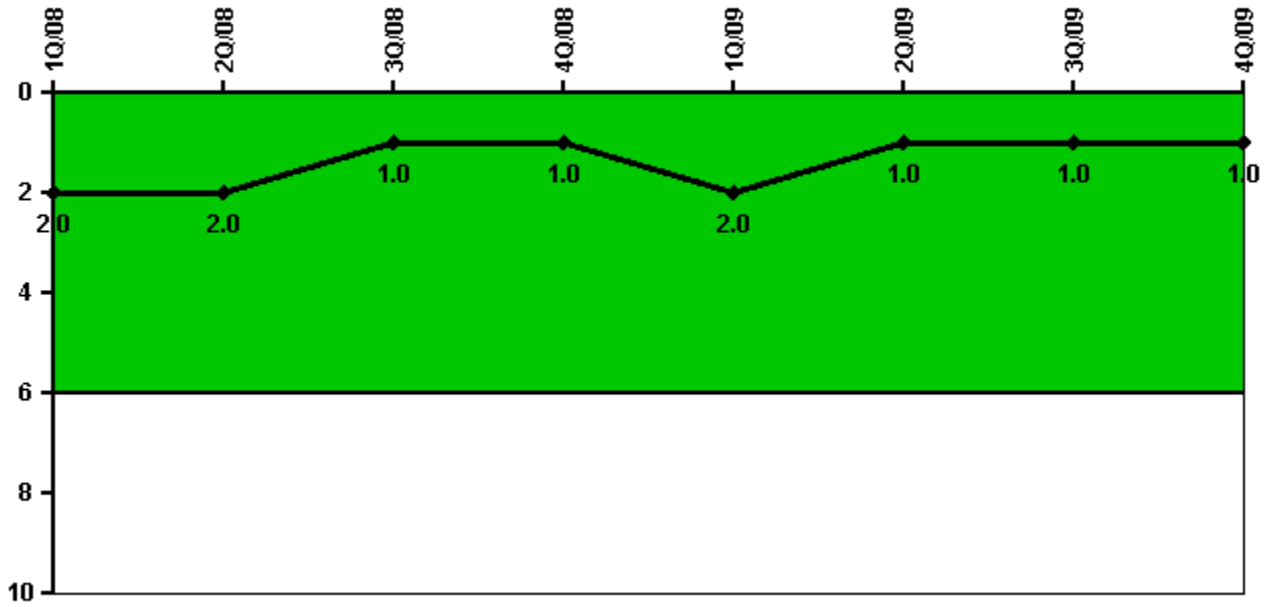
### Notes

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

Licensee Comments: none

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## Safety System Functional Failures (BWR)



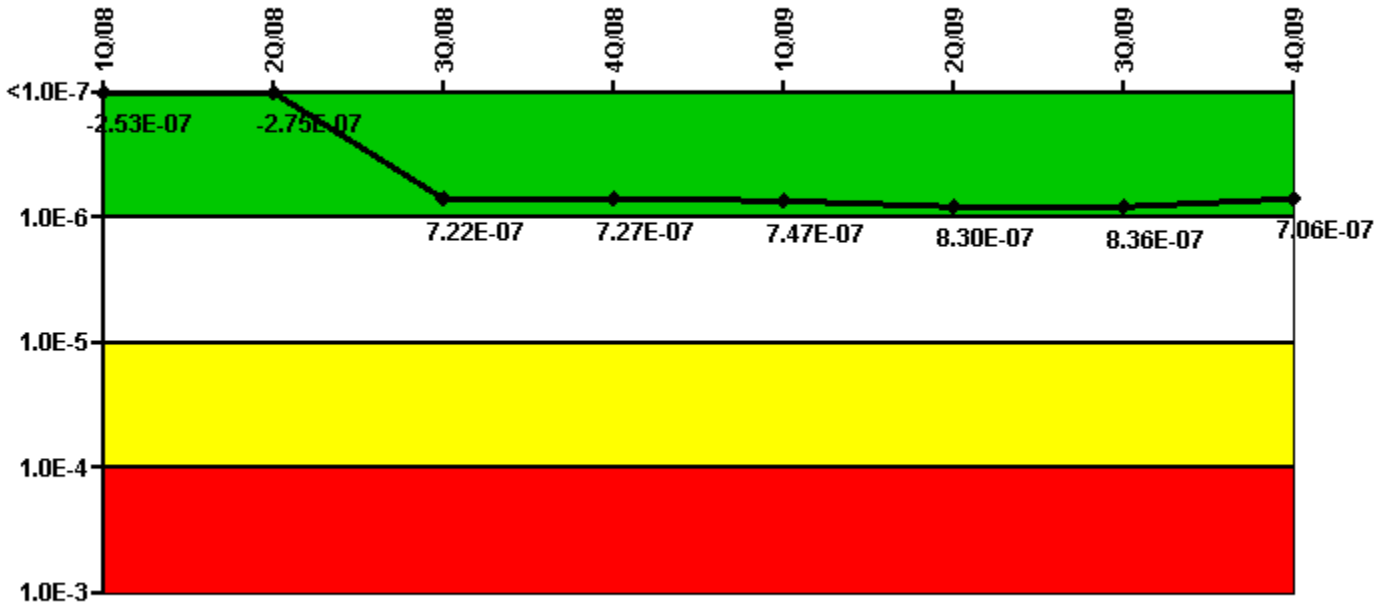
Thresholds: White > 6.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



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

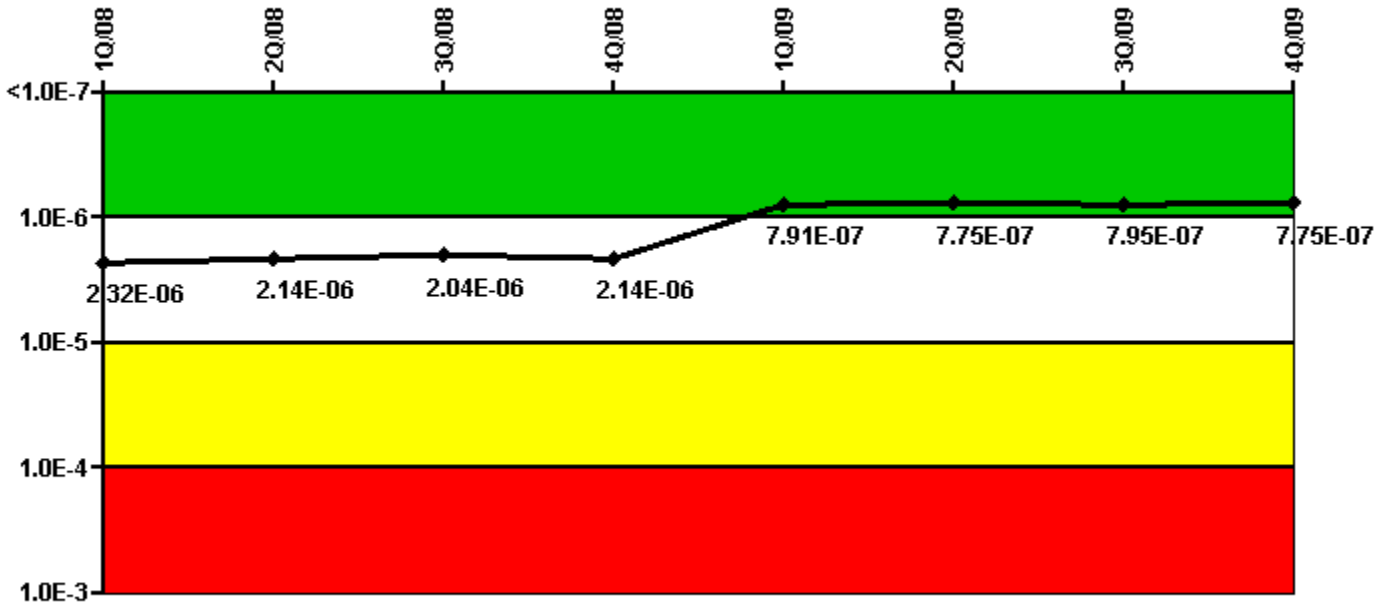
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	-1.30E-08	5.10E-09	6.20E-08	6.70E-08	8.70E-08	6.00E-08	6.60E-08	8.60E-08
URI ( $\Delta$ CDF)	-2.40E-07	-2.80E-07	6.60E-07	6.60E-07	6.60E-07	7.70E-07	7.70E-07	6.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.53E-07	-2.75E-07	7.22E-07	7.27E-07	7.47E-07	8.30E-07	8.36E-07	7.06E-07

Licensee Comments:

4Q/09: One Diesel event under evaluation (CR2009112068)

# Mitigating Systems Performance Index, High Pressure Injection System



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

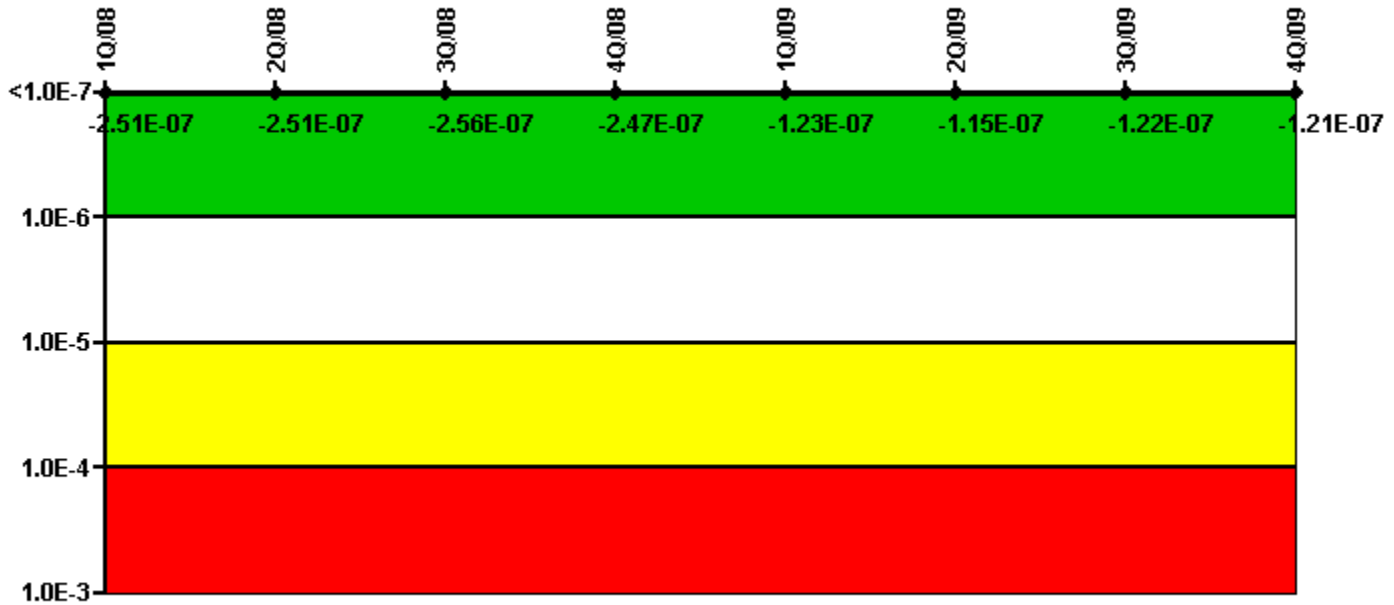
## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	2.20E-07	3.70E-08	3.70E-08	3.70E-08	1.10E-08	-4.80E-09	-4.80E-09	-4.80E-09
URI (ΔCDF)	2.10E-06	2.10E-06	2.00E-06	2.10E-06	7.80E-07	7.80E-07	8.00E-07	7.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.32E-06	2.14E-06	2.04E-06	2.14E-06	7.91E-07	7.75E-07	7.95E-07	7.75E-07

Licensee Comments:

4Q/09: One HPCI event is under evaluation (CR2009111523).

# Mitigating Systems Performance Index, Heat Removal System



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

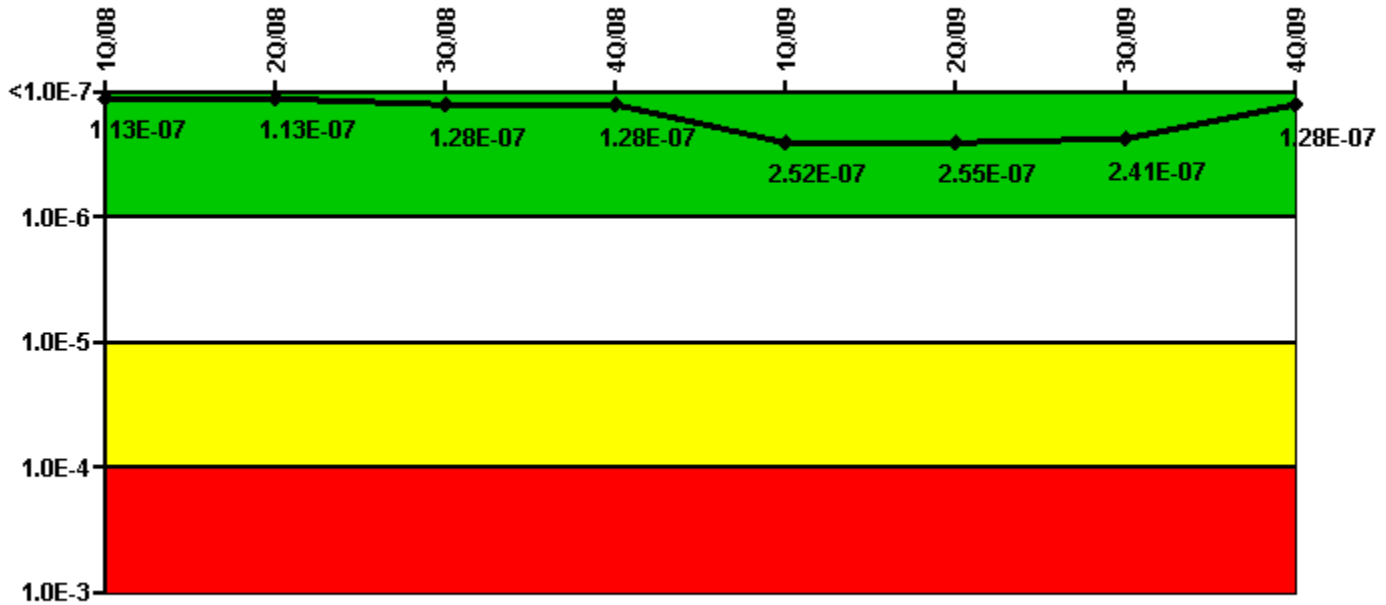
## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	-7.10E-08	-7.10E-08	-6.60E-08	-6.70E-08	-3.50E-08	-3.20E-08	-4.00E-08	-4.00E-08
URI ( $\Delta$ CDF)	-1.80E-07	-1.80E-07	-1.90E-07	-1.80E-07	-8.80E-08	-8.30E-08	-8.20E-08	-8.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.51E-07	-2.51E-07	-2.56E-07	-2.47E-07	-1.23E-07	-1.15E-07	-1.22E-07	-1.21E-07

Licensee Comments:

4Q/09: One RCIC event is under evaluation (CR2009111523).

# Mitigating Systems Performance Index, Residual Heat Removal System



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

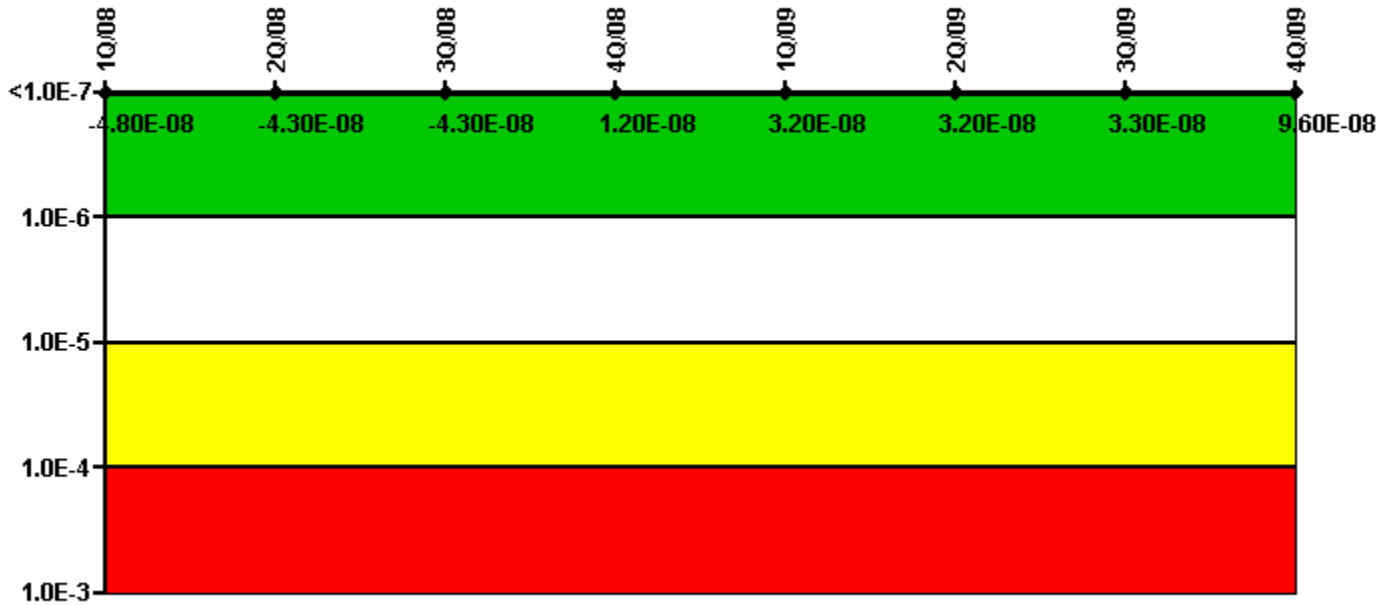
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	-7.20E-09	-7.20E-09	1.80E-08	1.80E-08	2.20E-08	2.50E-08	1.10E-08	-2.20E-09
URI ( $\Delta$ CDF)	1.20E-07	1.20E-07	1.10E-07	1.10E-07	2.30E-07	2.30E-07	2.30E-07	1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.13E-07	1.13E-07	1.28E-07	1.28E-07	2.52E-07	2.55E-07	2.41E-07	1.28E-07

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



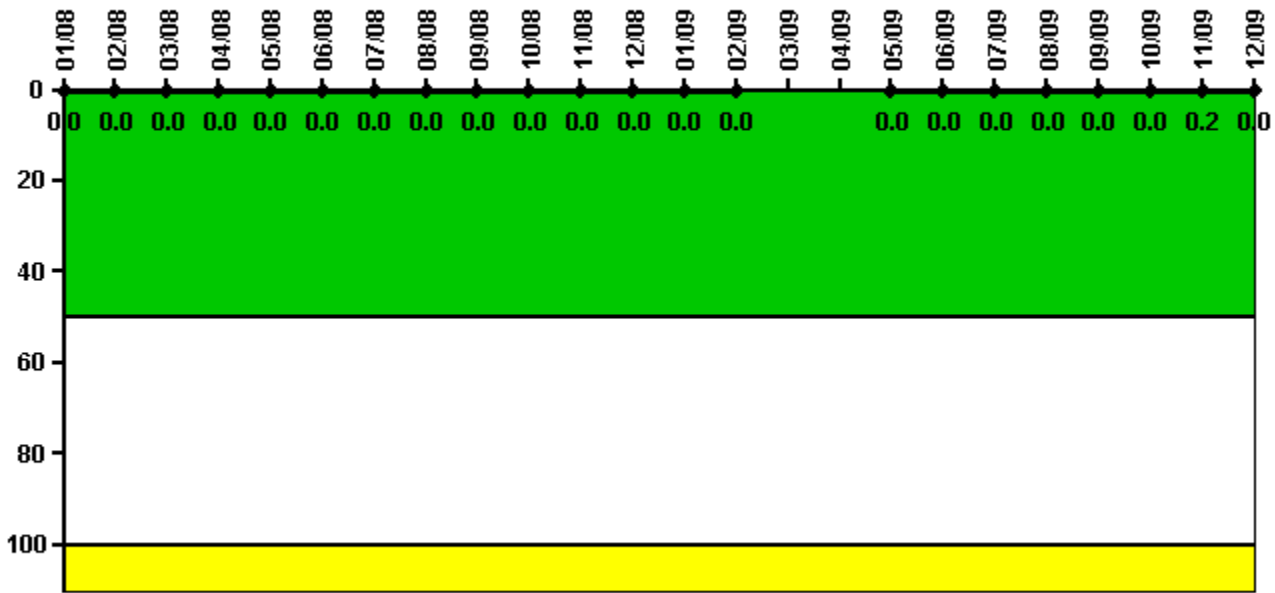
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	6.20E-08	4.40E-08	4.40E-08	4.50E-08	5.90E-08	5.90E-08	5.90E-08	6.10E-08
URI ( $\Delta$ CDF)	-1.10E-07	-8.70E-08	-8.70E-08	-3.30E-08	-2.70E-08	-2.70E-08	-2.60E-08	3.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.80E-08	-4.30E-08	-4.30E-08	1.20E-08	3.20E-08	3.20E-08	3.30E-08	9.60E-08

Licensee Comments: none

# Reactor Coolant System Activity



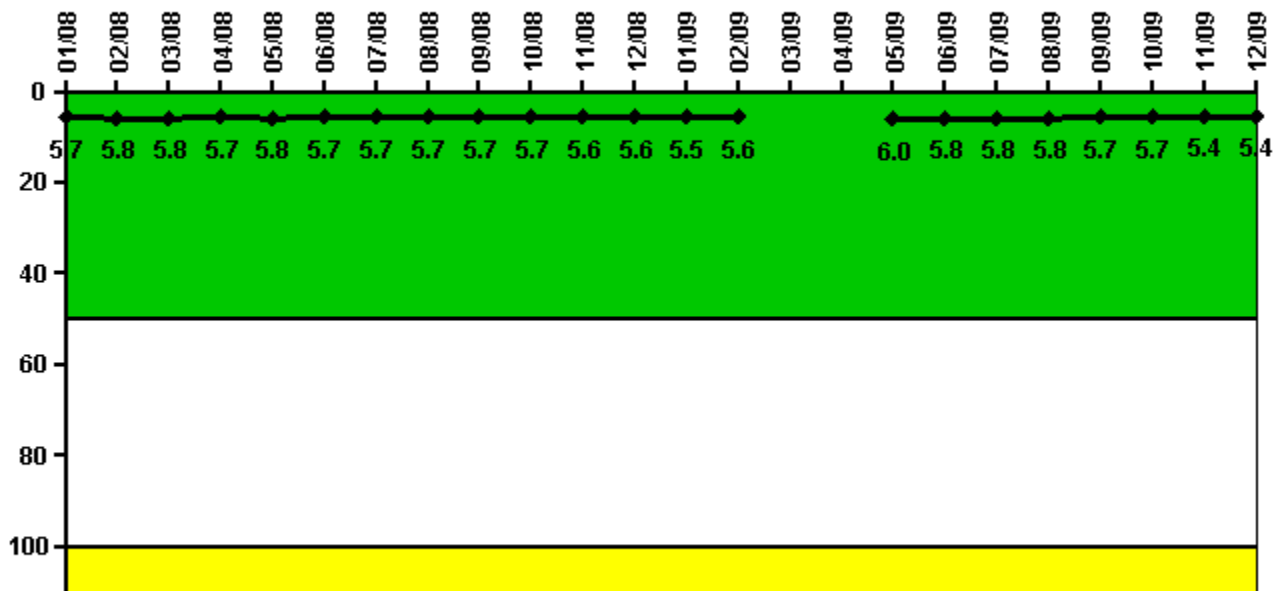
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.000005	0.000007	0.000006	0.000006	0.000004	0.000005	0.000007	0.000006	0.000005	0.000010	0.000016	0.000005
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	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.000004	0.000004	N/A	N/A	0.000001	0.000003	0.000005	0.000004	0.000004	0.000002	0.000356	0.000031
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	0	0	N/A	N/A	0	0	0	0	0	0	0.2	0

Licensee Comments: none

## Reactor Coolant System Leakage



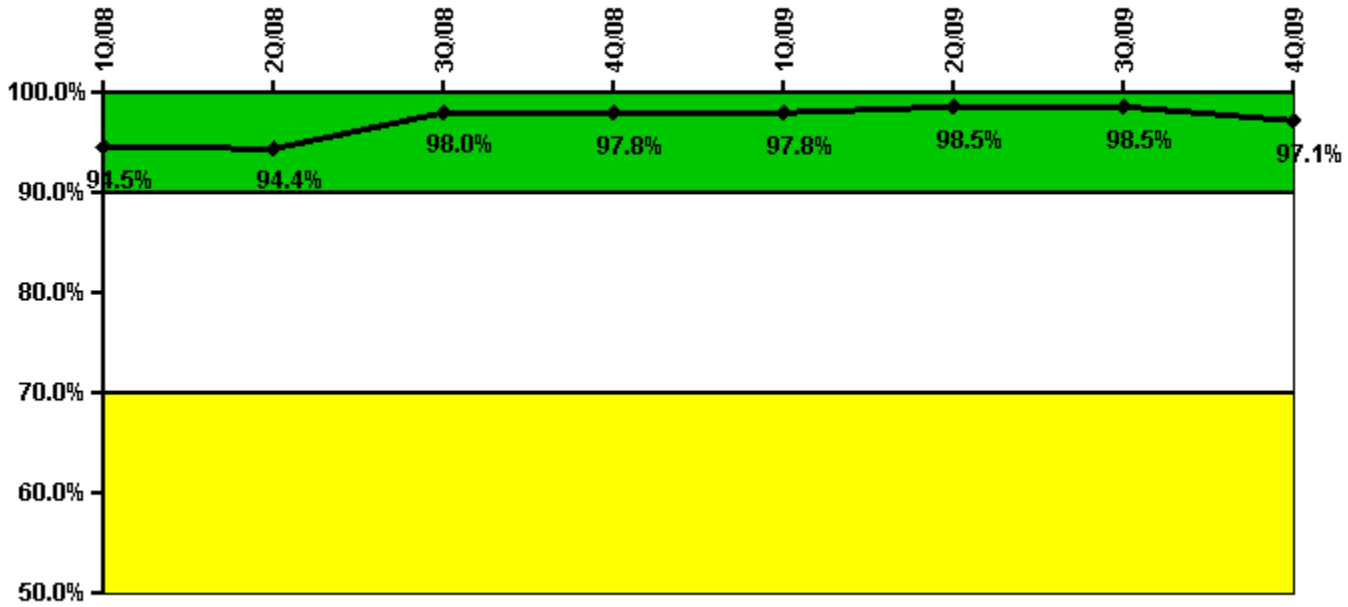
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	1.720	1.740	1.750	1.710	1.730	1.720	1.720	1.710	1.710	1.710	1.690	1.680
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	5.7	5.8	5.8	5.7	5.8	5.7	5.7	5.7	5.7	5.7	5.6	5.6
Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	1.660	1.690	N/A	N/A	1.810	1.740	1.740	1.740	1.710	1.700	1.630	1.610
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	5.5	5.6	N/A	N/A	6.0	5.8	5.8	5.8	5.7	5.7	5.4	5.4

Licensee Comments: none

## Drill/Exercise Performance



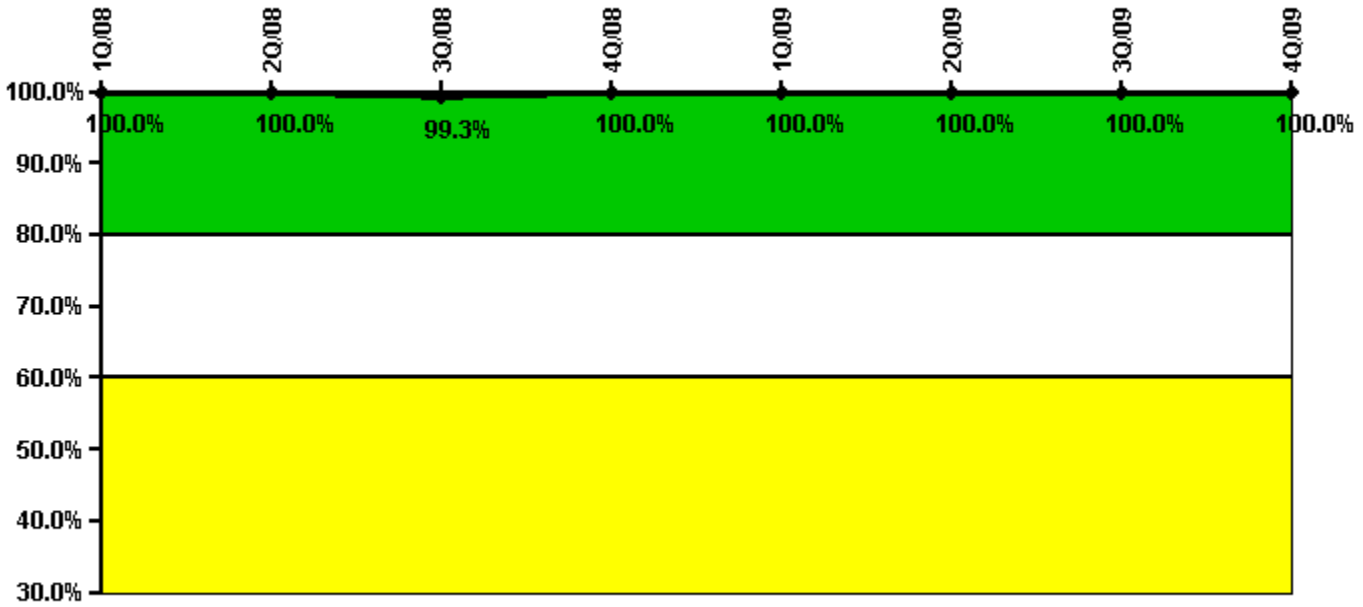
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	6.0	30.0	43.0	8.0	2.0	23.0	10.0	12.0
Total opportunities	6.0	32.0	43.0	8.0	2.0	23.0	10.0	14.0
Indicator value	94.5%	94.4%	98.0%	97.8%	97.8%	98.5%	98.5%	97.1%

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	137.0	134.0	142.0	148.0	141.0	132.0	136.0	134.0
Total Key personnel	137.0	134.0	143.0	148.0	141.0	132.0	136.0	134.0
Indicator value	100.0%	100.0%	99.3%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

## Alert & Notification System

**Not applicable due to  
unique design  
characteristics.  
Performance in this area  
will be assessed through  
focused NRC inspection  
efforts.**

### Notes

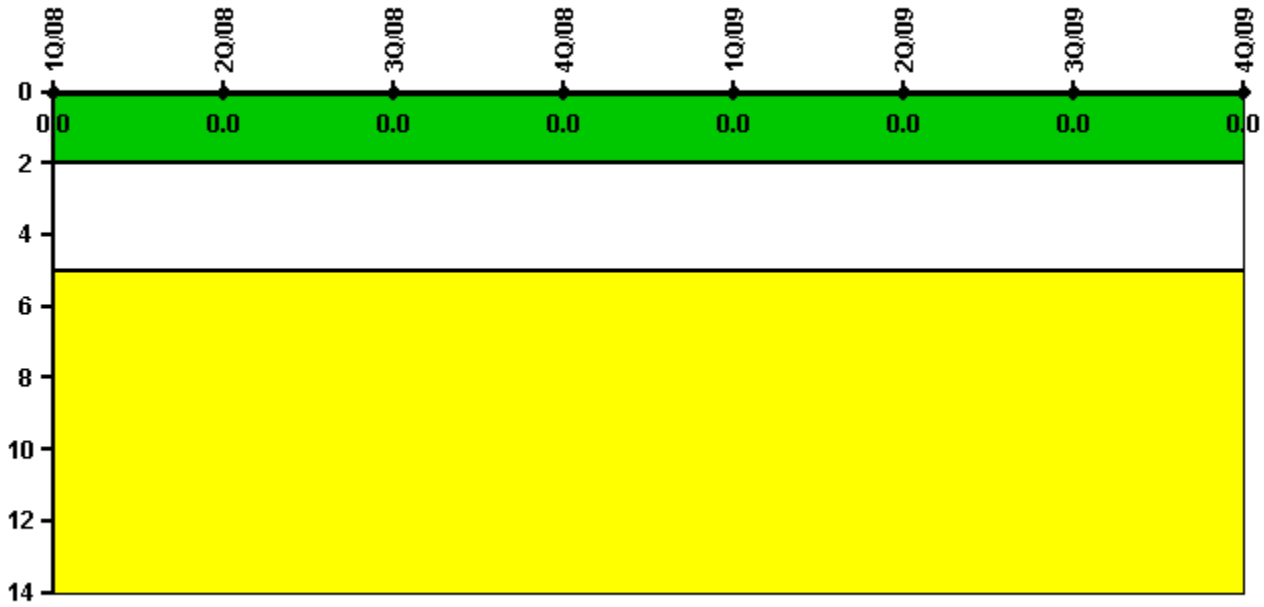
Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests								
Total sirens-tests								
Indicator value								

Licensee Comments:

4Q/09: Plant Hatch does not use sirens as an emergency notification system.

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# Occupational Exposure Control Effectiveness



**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

Occupational Exposure Control Effectiveness	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/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	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/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.