

# Beaver Valley 2

## 1Q/2010 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

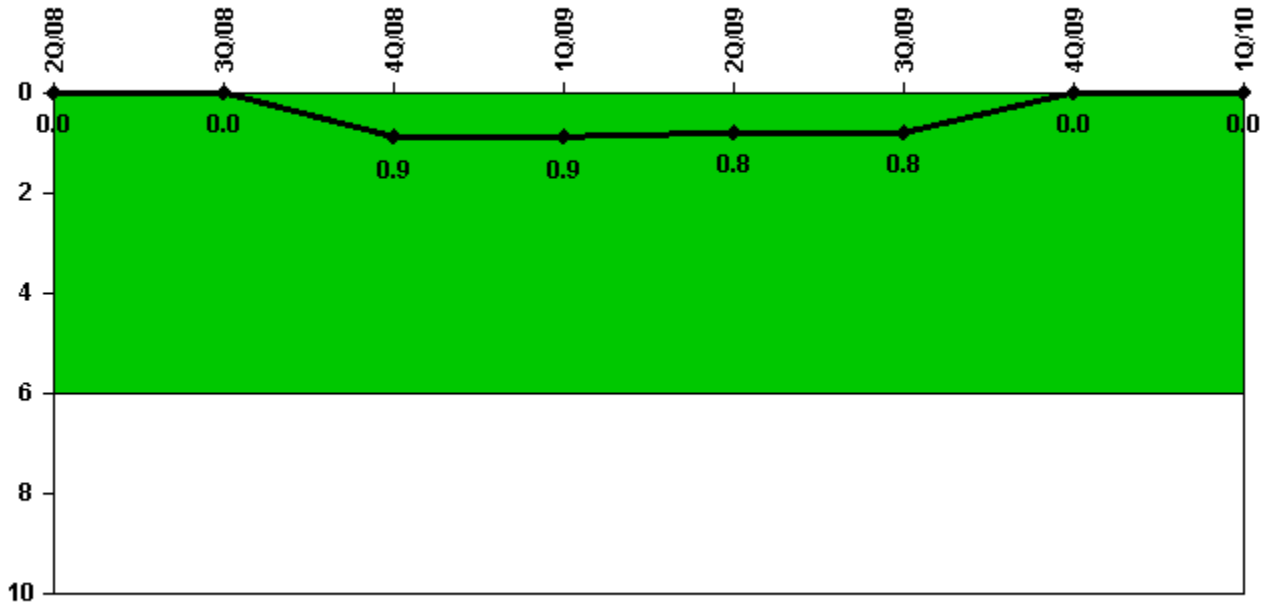
### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1282.7	2208.0	2129.8	2159.0	2184.0	2208.0	1122.3	2159.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	1282.7	2208.0	2129.8	2159.0	2184.0	2208.0	1122.3	2159.0
Indicator value	0	0	0.9	0.9	0.8	0.8	0	0

Licensee Comments: none

## Unplanned Scrams with Complications



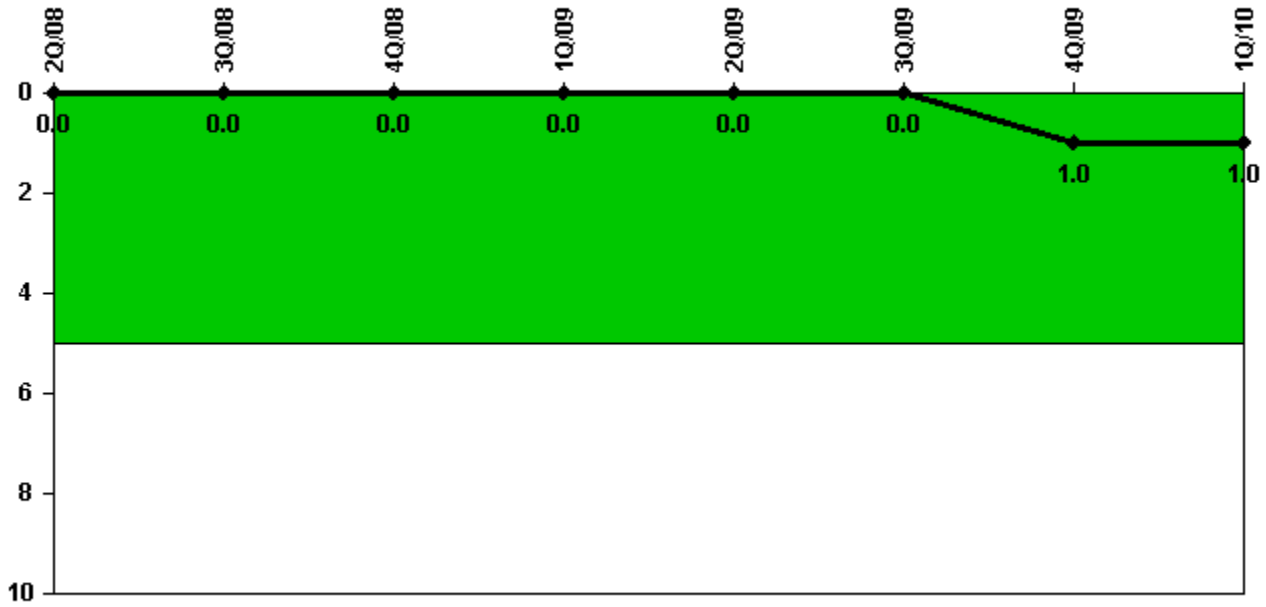
Thresholds: White > 1.0

### Notes

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



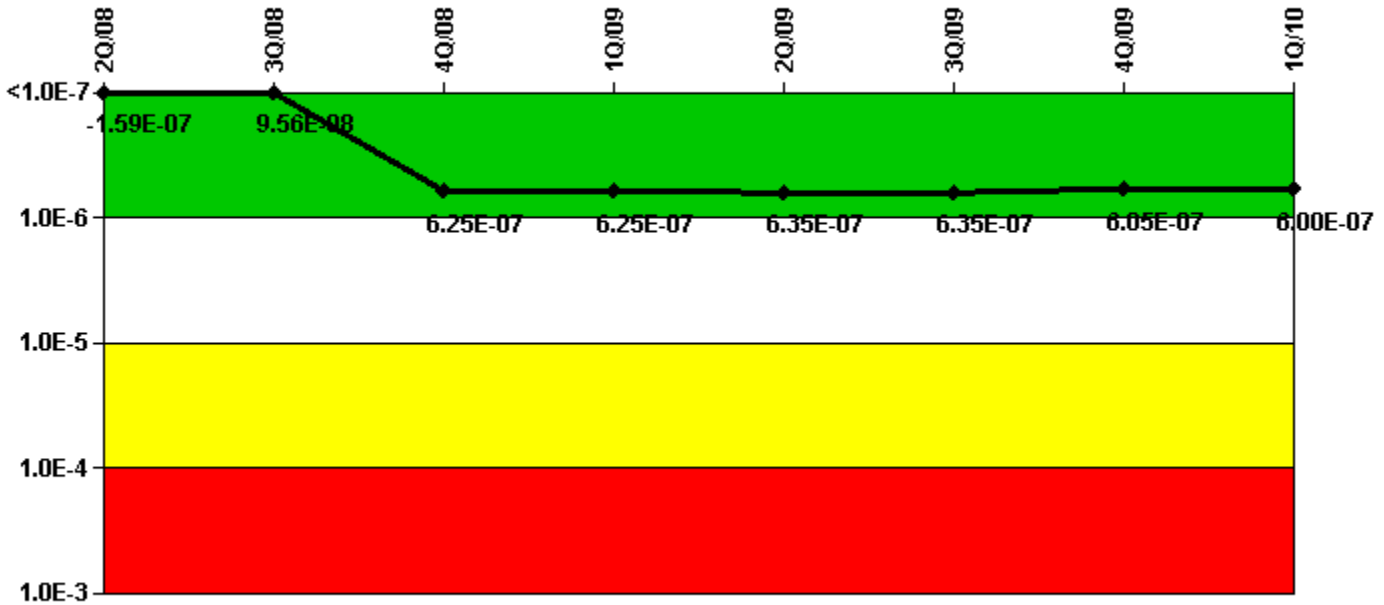
Thresholds: White > 5.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



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

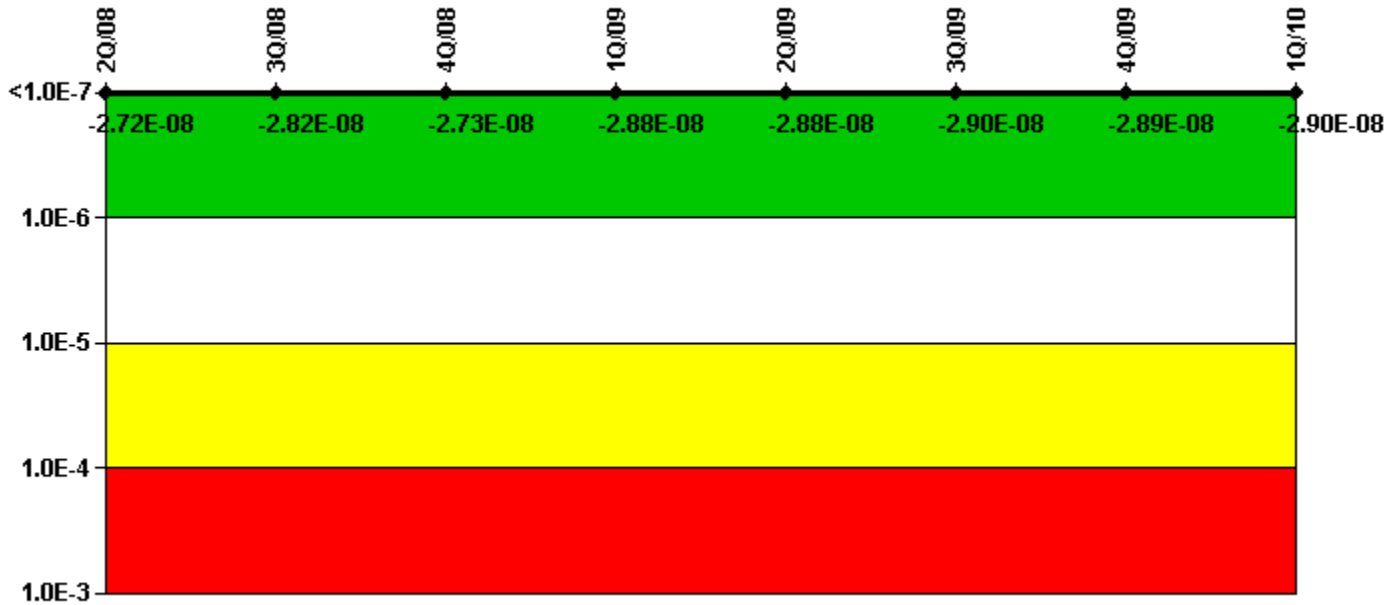
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI ( $\Delta$ CDF)	$7.40E-10$	$-1.40E-09$	$2.50E-08$	$2.50E-08$	$2.50E-08$	$2.50E-08$	$-5.00E-09$	$-5.04E-09$
URI ( $\Delta$ CDF)	$-1.60E-07$	$9.70E-08$	$6.00E-07$	$6.00E-07$	$6.10E-07$	$6.10E-07$	$6.10E-07$	$6.06E-07$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-1.59E-07$	$9.56E-08$	$6.25E-07$	$6.25E-07$	$6.35E-07$	$6.35E-07$	$6.05E-07$	$6.00E-07$

Licensee Comments:

1Q/10: Risk Cap Invoked.

# Mitigating Systems Performance Index, High Pressure Injection System



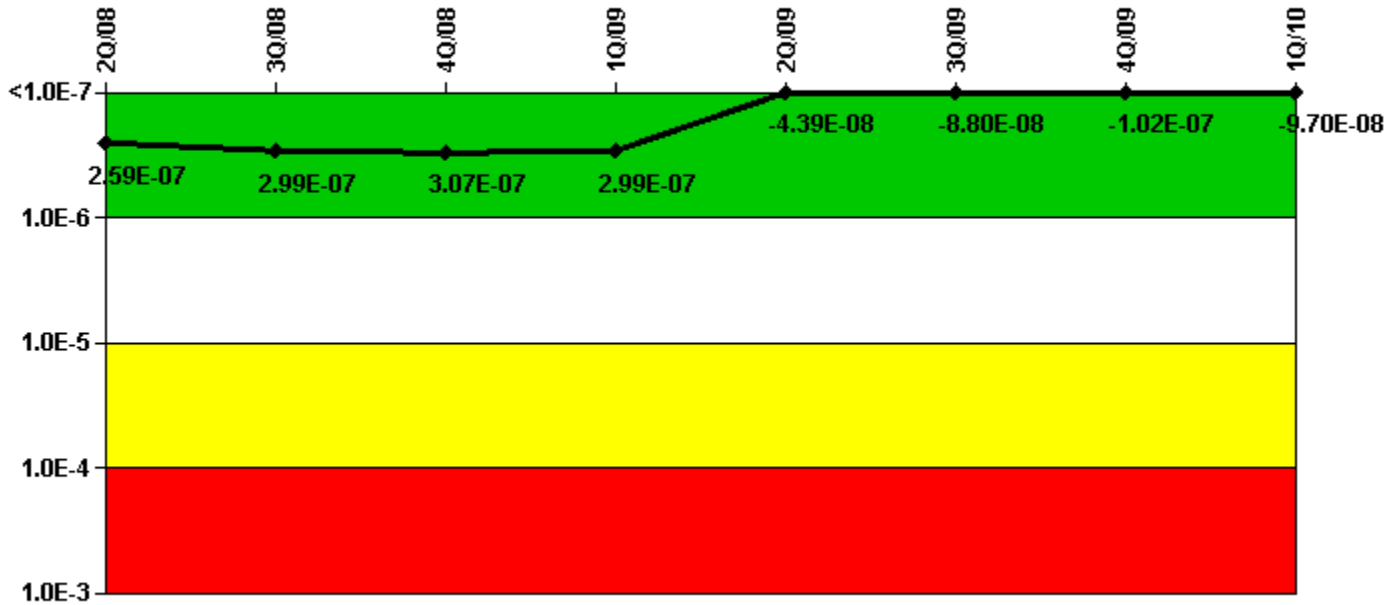
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI ( $\Delta$ CDF)	-6.20E-09	-7.20E-09	-6.30E-09	-7.80E-09	-7.80E-09	-8.00E-09	-7.90E-09	-7.95E-09
URI ( $\Delta$ CDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.72E-08	-2.82E-08	-2.73E-08	-2.88E-08	-2.88E-08	-2.90E-08	-2.89E-08	-2.90E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



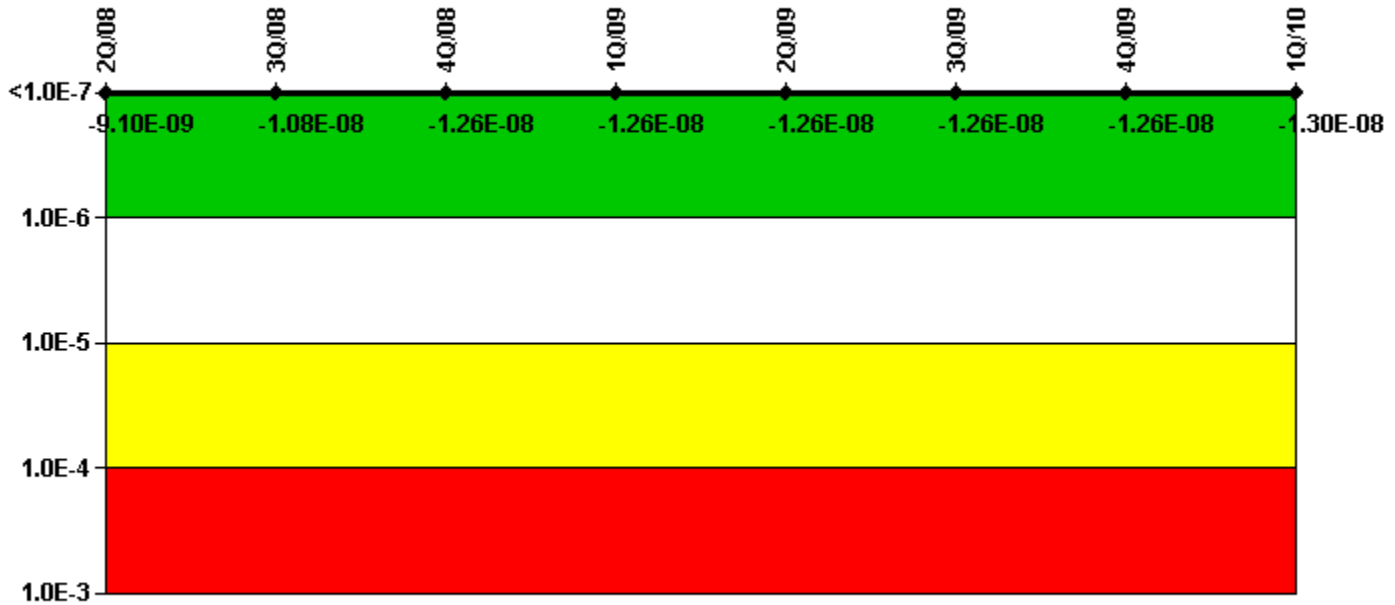
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI ( $\Delta$ CDF)	2.90E-08	6.90E-08	7.70E-08	6.90E-08	5.10E-09	-3.90E-08	-5.30E-08	-4.79E-08
URI ( $\Delta$ CDF)	2.30E-07	2.30E-07	2.30E-07	2.30E-07	-4.90E-08	-4.90E-08	-4.90E-08	-4.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.59E-07	2.99E-07	3.07E-07	2.99E-07	-4.39E-08	-8.80E-08	-1.02E-07	-9.70E-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

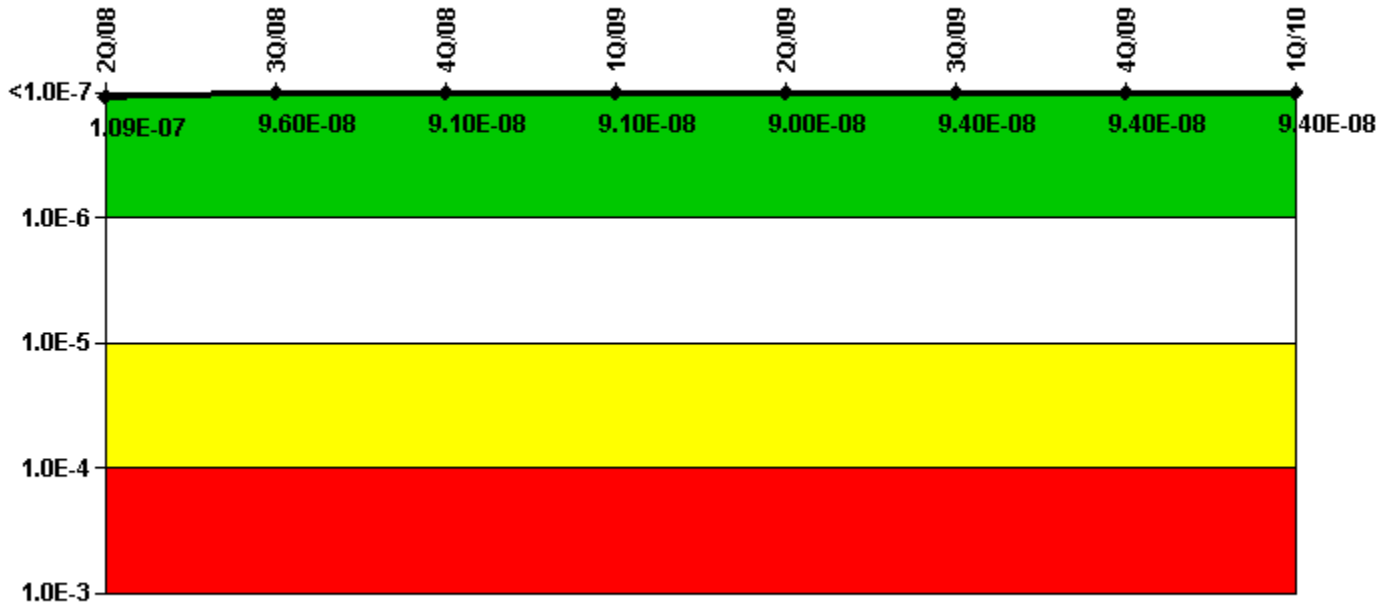
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI ( $\Delta$ CDF)	-2.40E-09	-4.10E-09	-5.90E-09	-5.90E-09	-5.90E-09	-5.90E-09	-5.90E-09	-5.87E-09
URI ( $\Delta$ CDF)	-6.70E-09	-6.70E-09	-6.70E-09	-6.70E-09	-6.70E-09	-6.70E-09	-6.70E-09	-6.71E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.10E-09	-1.08E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.30E-08

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



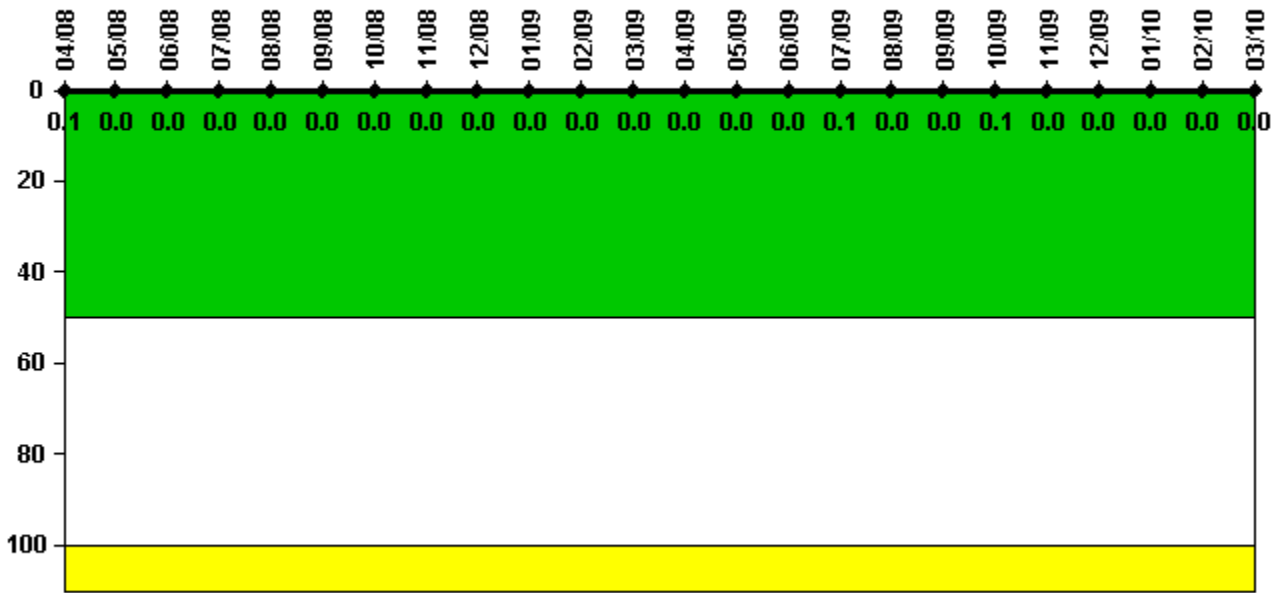
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI ( $\Delta$ CDF)	5.90E-08	5.50E-08	6.50E-08	6.50E-08	6.40E-08	6.80E-08	6.80E-08	6.80E-08
URI ( $\Delta$ CDF)	5.00E-08	4.10E-08	2.60E-08	2.60E-08	2.60E-08	2.60E-08	2.60E-08	2.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.09E-07	9.60E-08	9.10E-08	9.10E-08	9.00E-08	9.40E-08	9.40E-08	9.40E-08

Licensee Comments: none

# Reactor Coolant System Activity



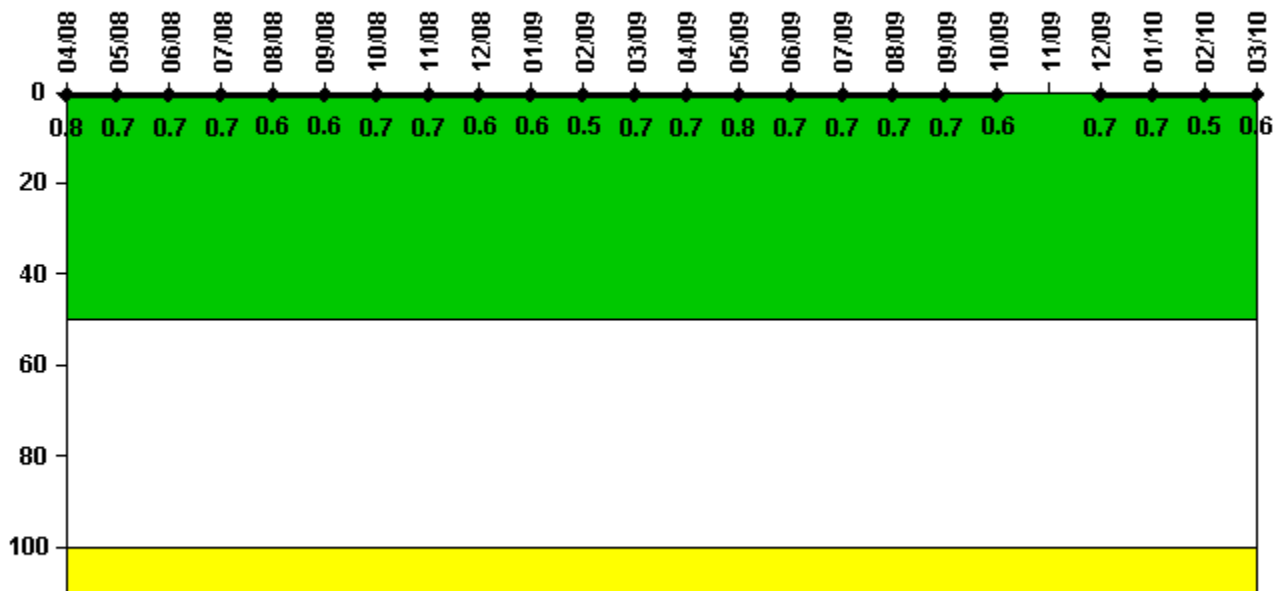
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.000299	0.000067	0.000083	0.000099	0.000113	0.000115	0.000116	0.000128	0.000125	0.000135	0.000033	0.000149
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.1	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.000147	0.000162	0.000152	0.000178	0.000167	0.000170	0.000182	0.000058	0.000087	0.000098	0.000117	0.000118
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0.1	0	0	0.1	0	0	0	0	0

Licensee Comments: none

## Reactor Coolant System Leakage



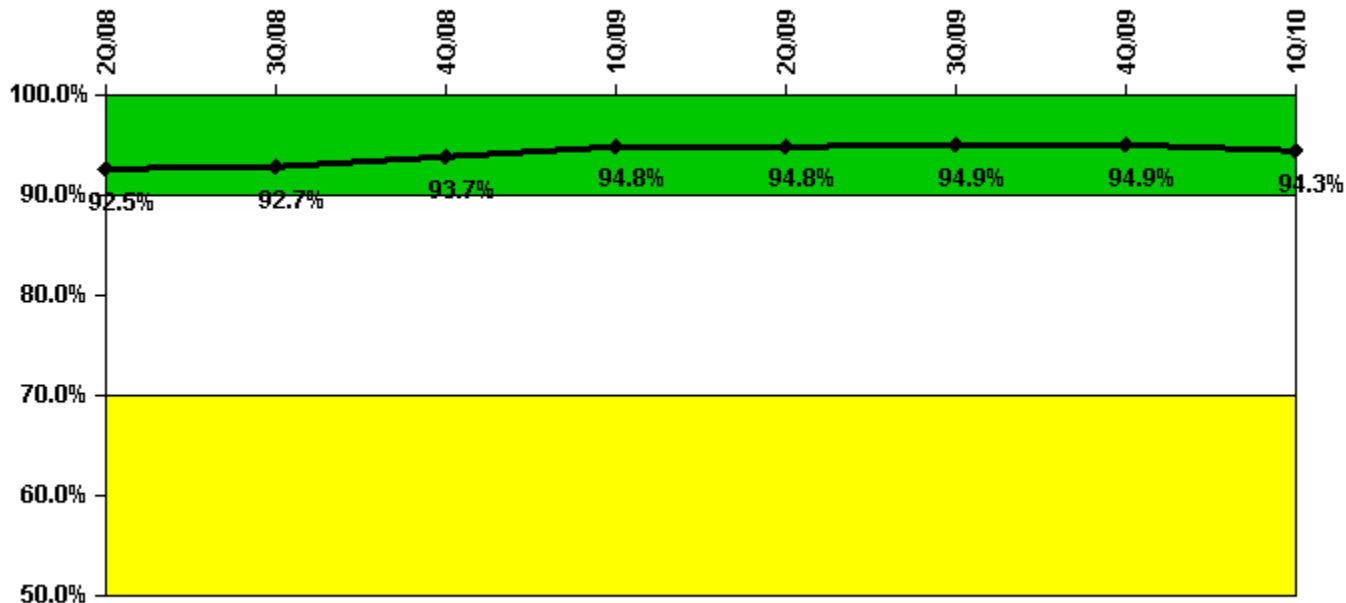
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.080	0.070	0.070	0.070	0.060	0.060	0.070	0.070	0.060	0.060	0.050	0.070
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	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.6	0.5	0.7
Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0.070	0.080	0.070	0.070	0.070	0.070	0.060	N/A	0.070	0.070	0.050	0.060
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	0.8	0.7	0.7	0.7	0.7	0.6	N/A	0.7	0.7	0.5	0.6

Licensee Comments: none

## Drill/Exercise Performance



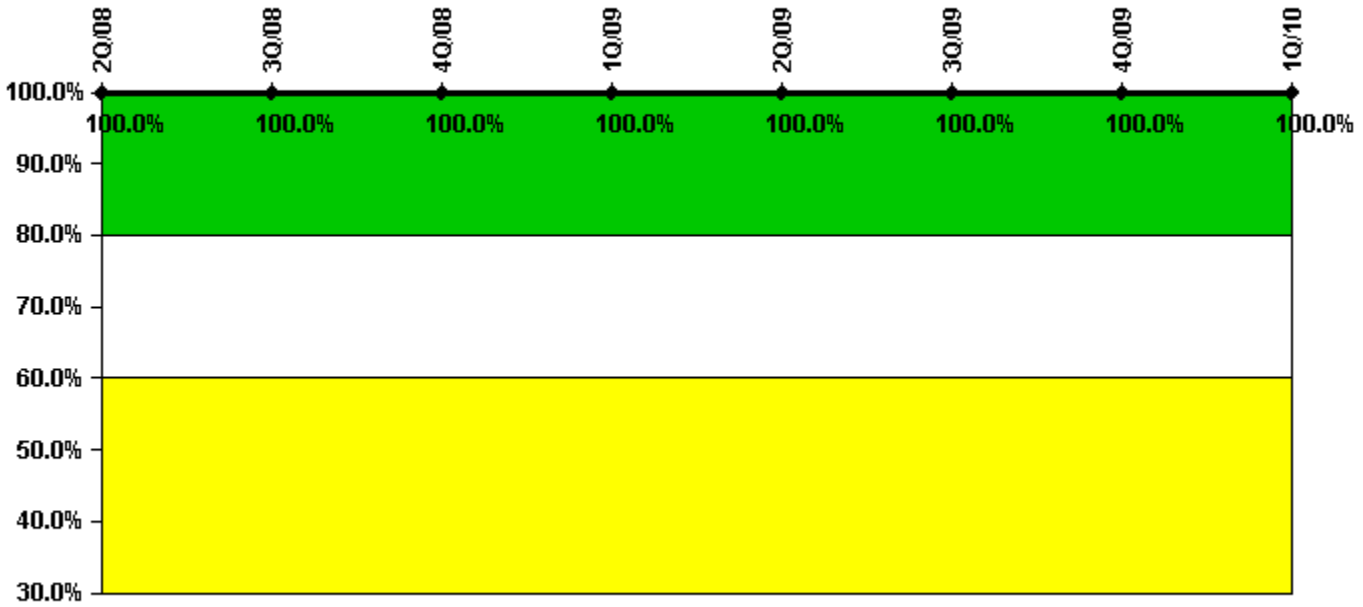
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	30.0	24.0	44.0	40.0	28.0	22.0	2.0	26.0
Total opportunities	34.0	27.0	45.0	40.0	29.0	22.0	2.0	30.0
Indicator value	92.5%	92.7%	93.7%	94.8%	94.8%	94.9%	94.9%	94.3%

Licensee Comments: none

# ERO Drill Participation



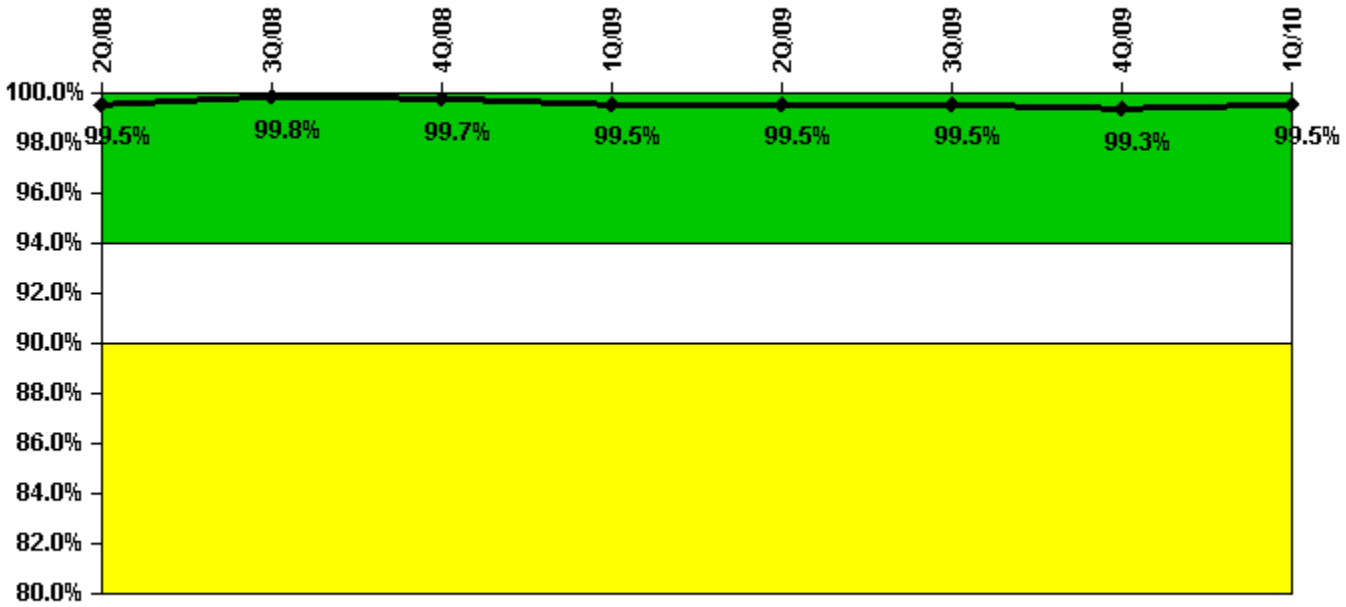
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	131.0	129.0	125.0	129.0	123.0	122.0	123.0	122.0
Total Key personnel	131.0	129.0	125.0	129.0	123.0	122.0	123.0	122.0
Indicator value	100.0%	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	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	119	237	118	118	119	237	117	119
Total sirens-tests	119	238	119	119	119	238	119	119
Indicator value	99.5%	99.8%	99.7%	99.5%	99.5%	99.5%	99.3%	99.5%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/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

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