

# Catawba 2

## 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

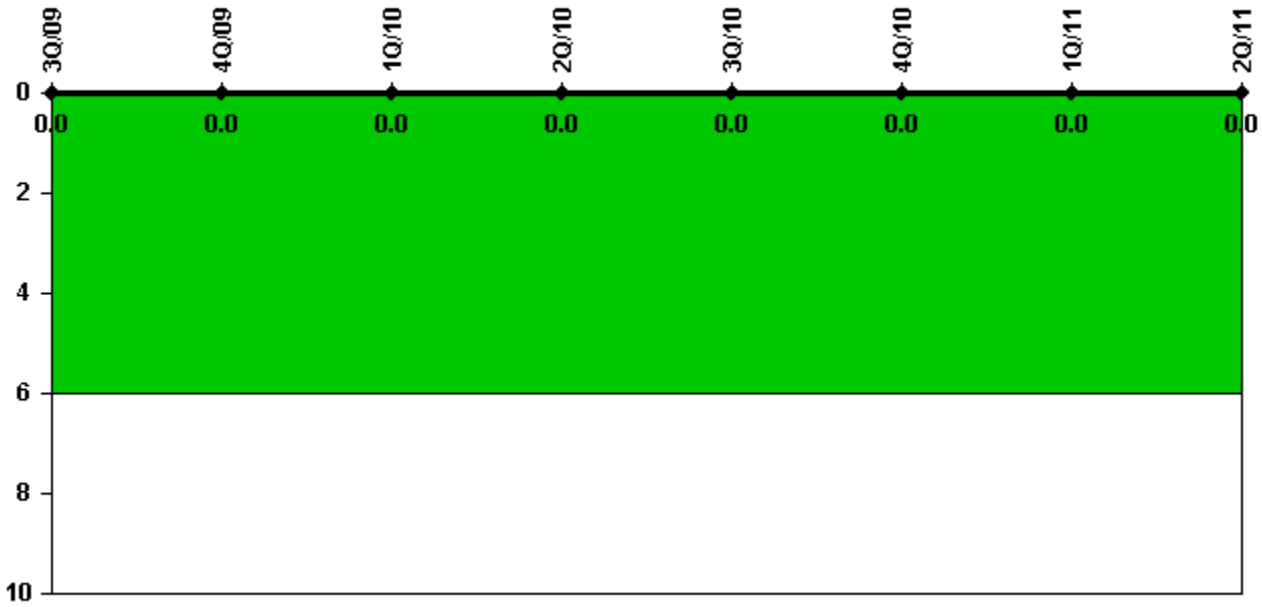
### Notes

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	2184.0	1900.3	1734.9	2159.0	2184.0
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	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	2184.0	1900.3	1734.9	2159.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

## Unplanned Scrams with Complications



Thresholds: White > 1.0

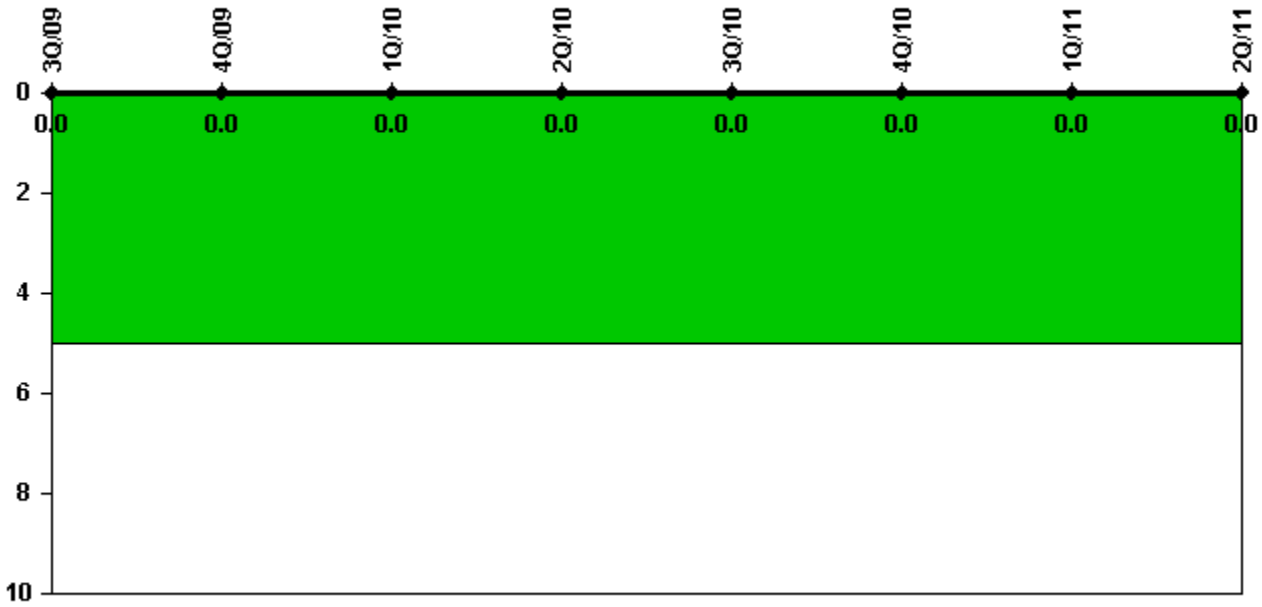
### Notes

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

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## Safety System Functional Failures (PWR)



Thresholds: White > 5.0

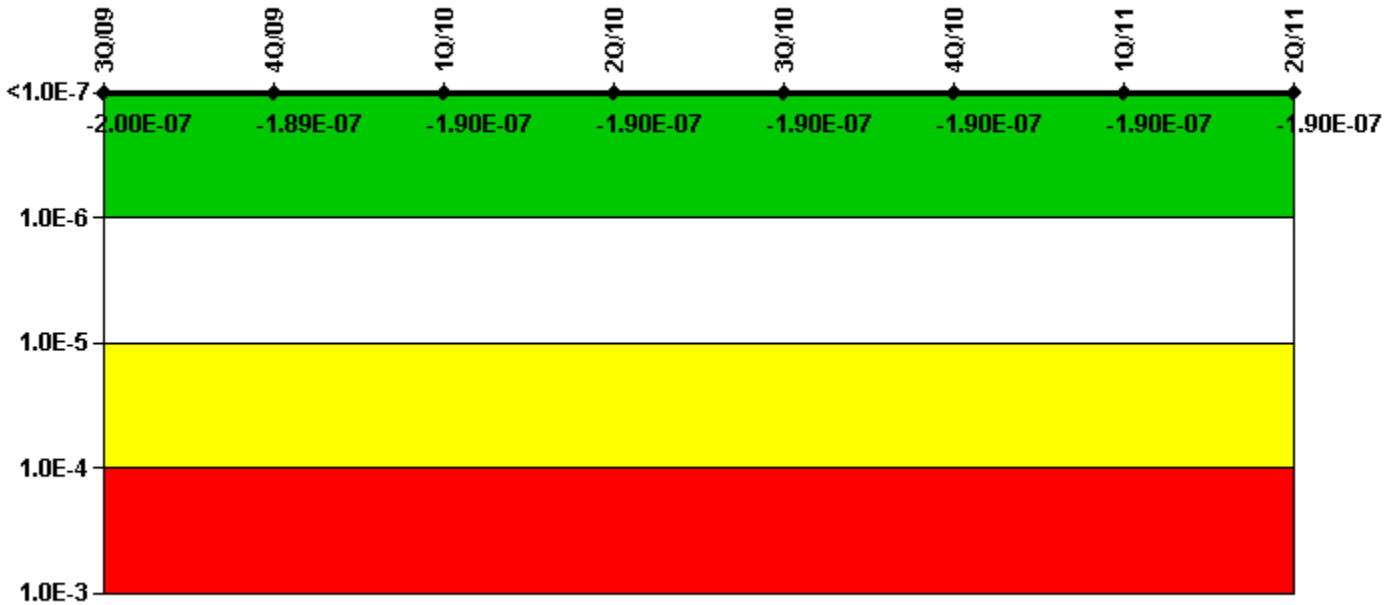
### Notes

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	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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# 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)	-9.70E-09	5.80E-10	2.13E-09	-3.00E-09	-1.06E-09	-3.12E-09	-3.77E-09	1.70E-09
URI ( $\Delta$ CDF)	-1.90E-07	-1.90E-07	-1.91E-07	-1.91E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-07	-1.89E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



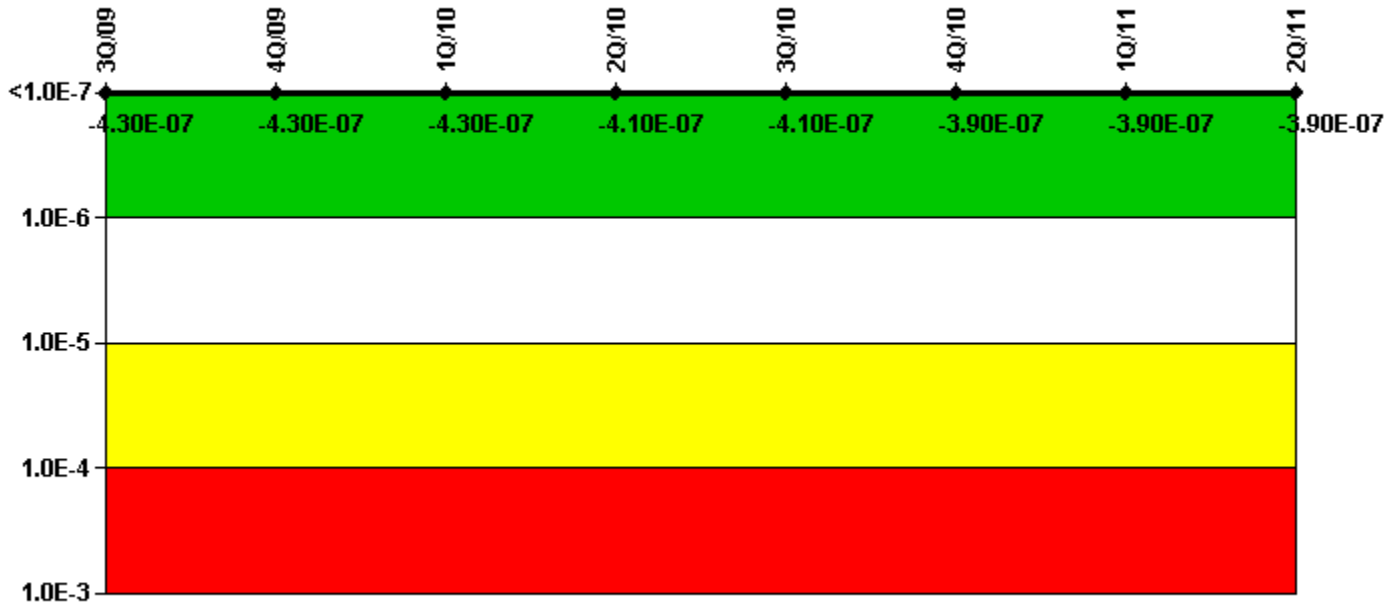
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI ( $\Delta$ CDF)	-4.40E-09	-4.40E-09	-4.44E-09	-4.44E-09	-4.44E-09	-4.44E-09	-4.26E-09	-4.26E-09
URI ( $\Delta$ CDF)	-1.30E-08	-1.30E-08	-1.32E-08	-1.32E-08	-1.32E-08	-1.32E-08	-1.32E-08	-1.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.74E-08	-1.74E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.70E-08	-1.70E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



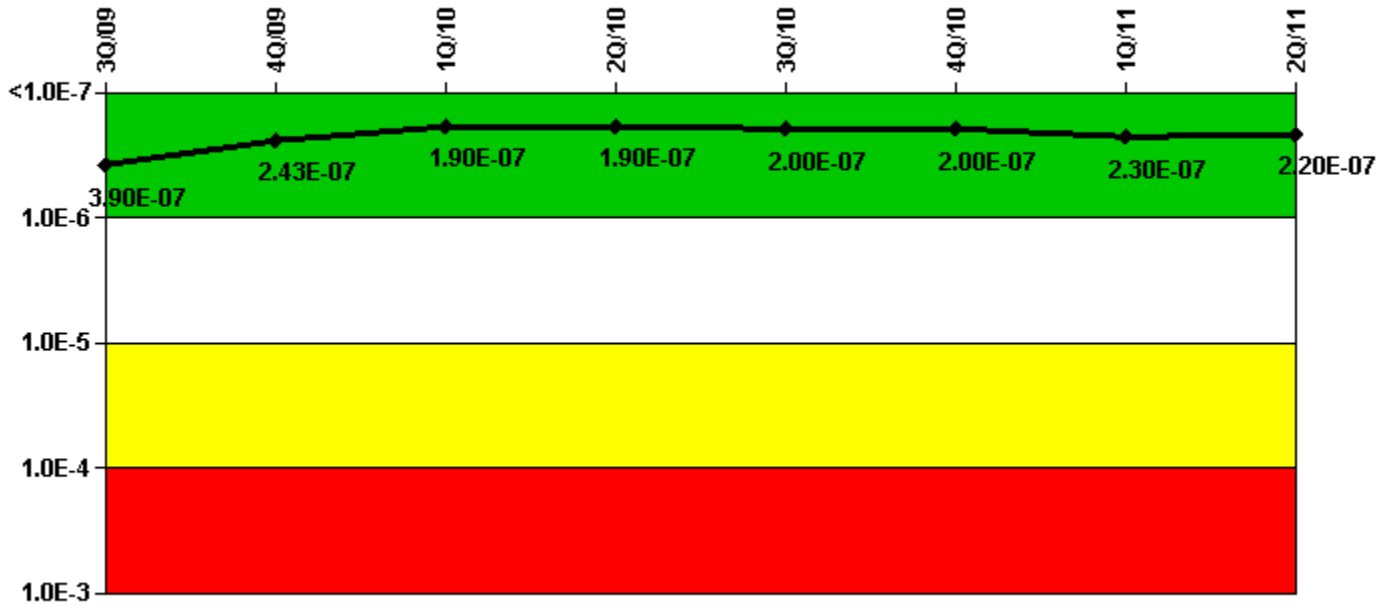
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI ( $\Delta$ CDF)	-1.14E-07	-1.14E-07	-1.14E-07	-9.71E-08	-9.71E-08	-7.33E-08	-7.33E-08	-7.33E-08
URI ( $\Delta$ CDF)	-3.17E-07	-3.17E-07	-3.17E-07	-3.17E-07	-3.17E-07	-3.17E-07	-3.17E-07	-3.17E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.30E-07	-4.30E-07	-4.30E-07	-4.10E-07	-4.10E-07	-3.90E-07	-3.90E-07	-3.90E-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

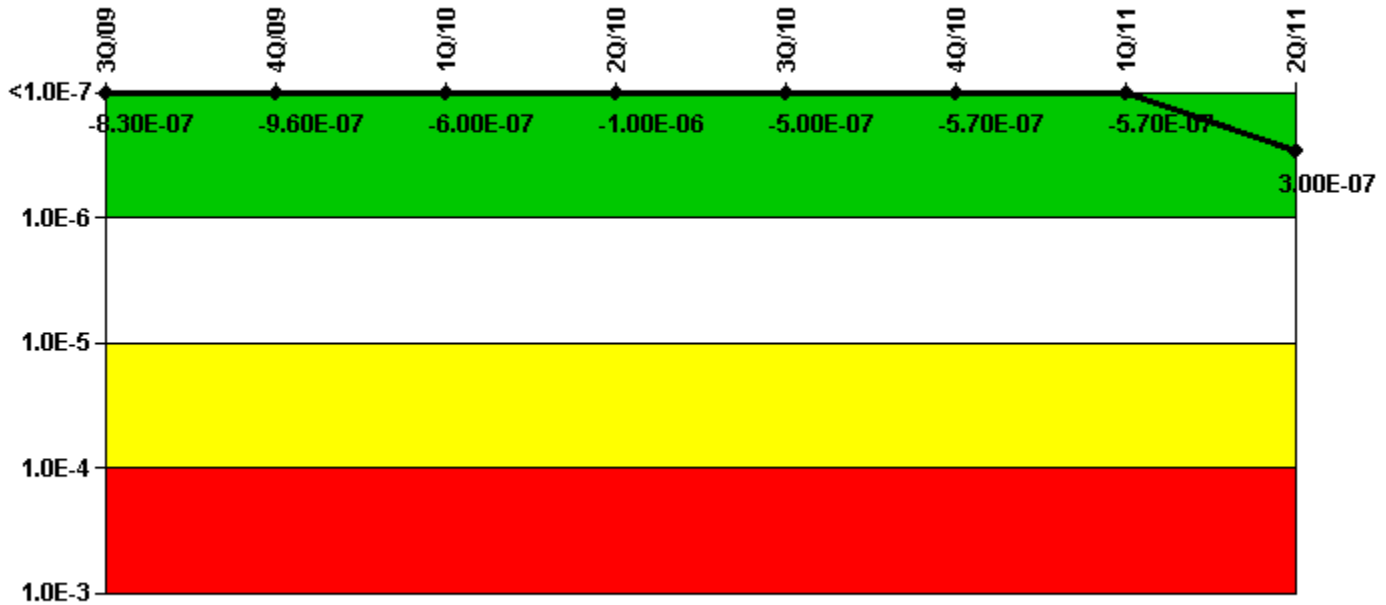
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	1.20E-07	-2.70E-08	-2.67E-08	-2.67E-08	-1.52E-08	-1.93E-08	6.44E-09	3.87E-09
URI (ΔCDF)	2.70E-07	2.70E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.90E-07	2.43E-07	1.90E-07	1.90E-07	2.00E-07	2.00E-07	2.30E-07	2.20E-07

Licensee Comments:

2Q/11: Risk Cap Invoked.



# Mitigating Systems Performance Index, Cooling Water Systems



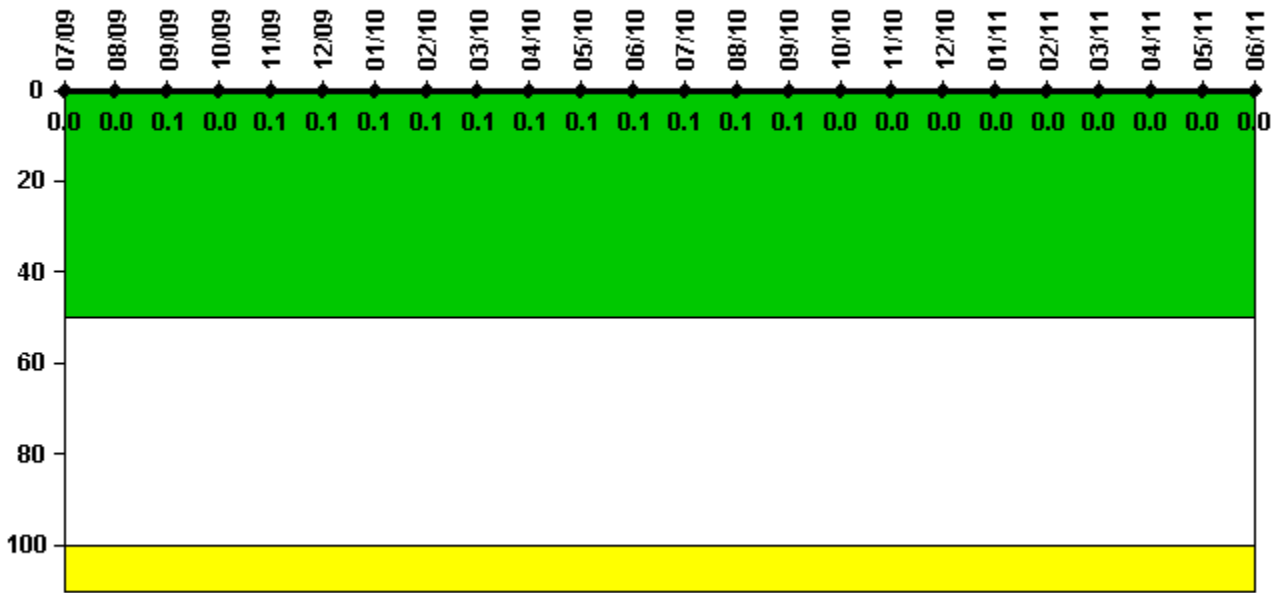
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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)	-4.50E-07	-5.80E-07	-2.23E-07	-6.50E-07	-1.95E-07	-2.72E-07	-2.69E-07	5.99E-07
URI ( $\Delta$ CDF)	-3.80E-07	-3.80E-07	-3.80E-07	-3.80E-07	-3.01E-07	-3.01E-07	-3.01E-07	-3.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.30E-07	-9.60E-07	-6.00E-07	-1.00E-06	-5.00E-07	-5.70E-07	-5.70E-07	3.00E-07

Licensee Comments: none

# Reactor Coolant System Activity



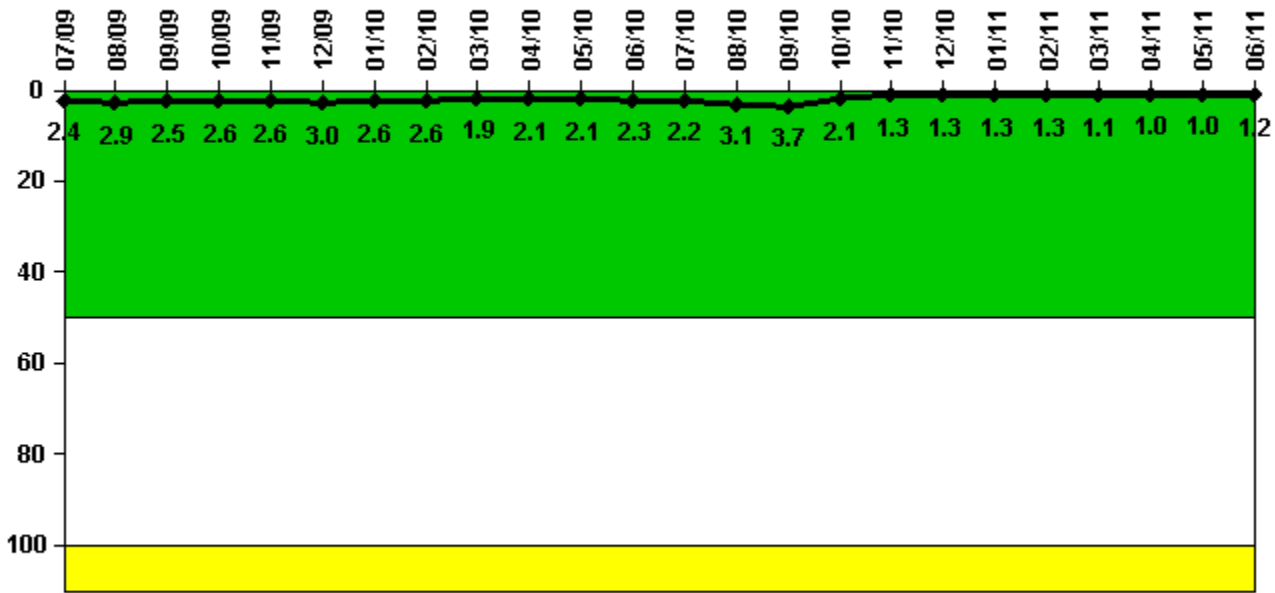
Thresholds: White > 50.0 Yellow > 100.0

## 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	0.000173	0.000171	0.000236	0.000221	0.000238	0.000249	0.000262	0.000254	0.000271	0.000256	0.000245	0.000262
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0	0	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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	0.000285	0.000246	0.000230	0.000111	0.000151	0.000140	0.000154	0.000161	0.000168	0.000170	0.000220	0.000186
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0

Licensee Comments: none

## Reactor Coolant System Leakage



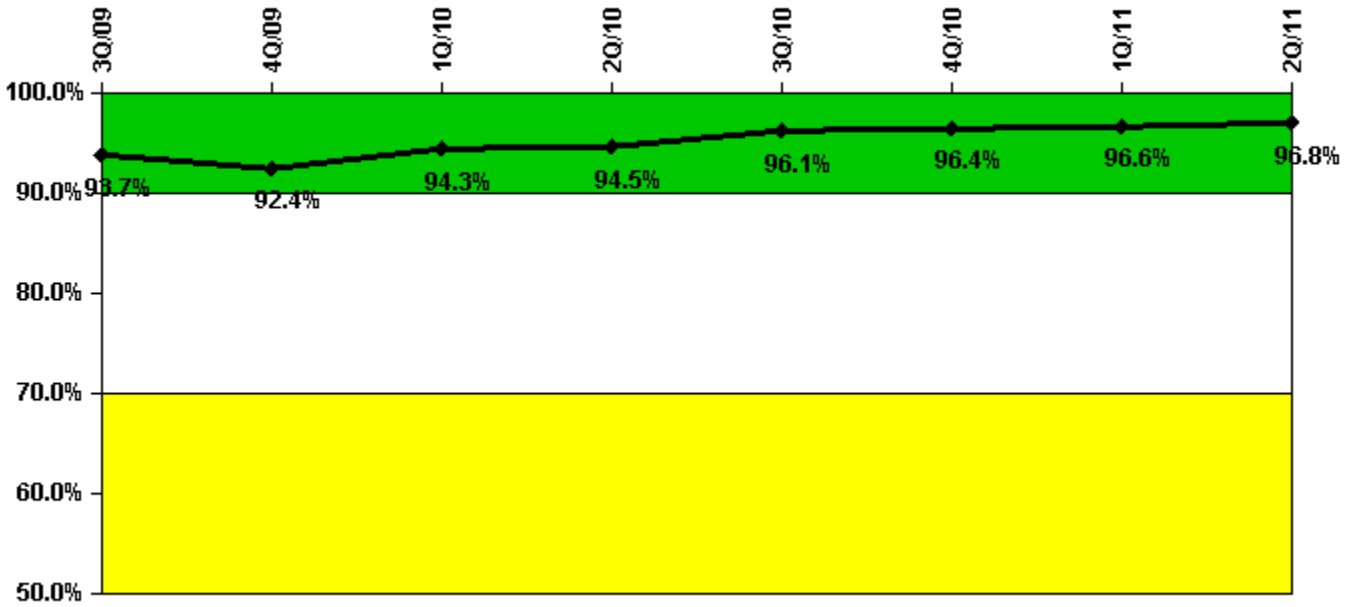
Thresholds: White > 50.0 Yellow > 100.0

### 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	0.237	0.288	0.254	0.262	0.259	0.295	0.258	0.262	0.191	0.212	0.208	0.228
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	2.4	2.9	2.5	2.6	2.6	3.0	2.6	2.6	1.9	2.1	2.1	2.3
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	0.222	0.305	0.372	0.207	0.130	0.128	0.129	0.128	0.112	0.097	0.097	0.116
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	2.2	3.1	3.7	2.1	1.3	1.3	1.3	1.3	1.1	1.0	1.0	1.2

Licensee Comments: none

## Drill/Exercise Performance



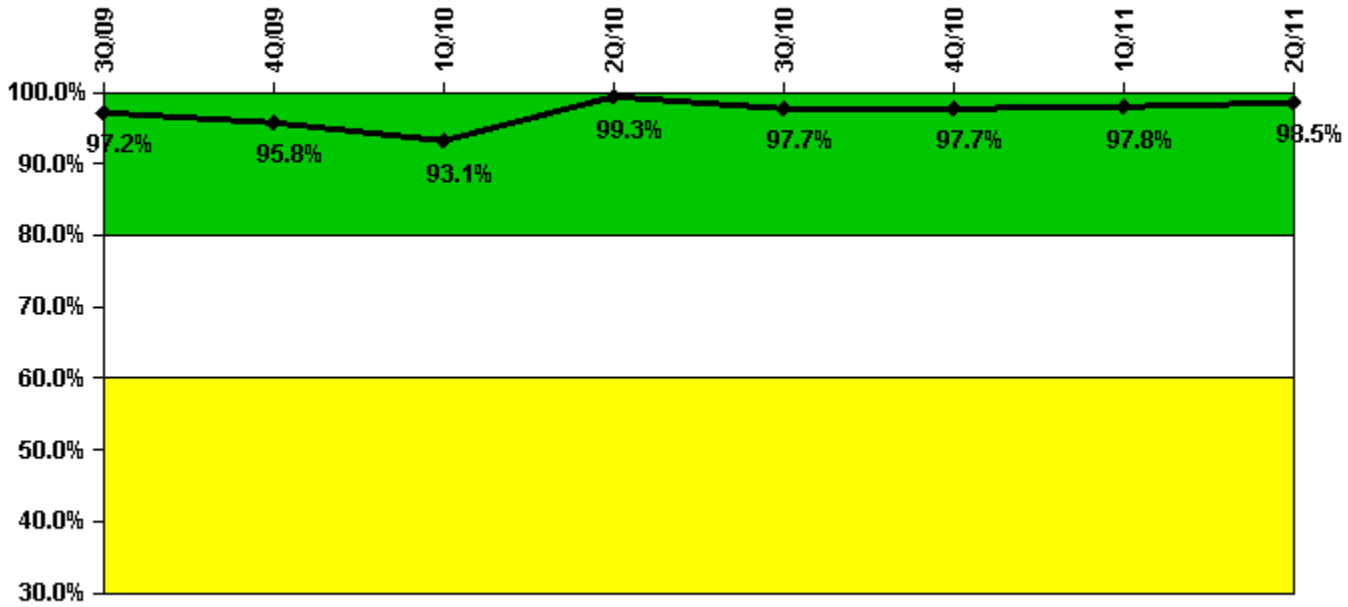
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	34.0	15.0	44.0	27.0	41.0	29.0	15.0	6.0
Total opportunities	35.0	18.0	44.0	28.0	42.0	30.0	15.0	6.0
Indicator value	93.7%	92.4%	94.3%	94.5%	96.1%	96.4%	96.6%	96.8%

Licensee Comments: none

## ERO Drill Participation



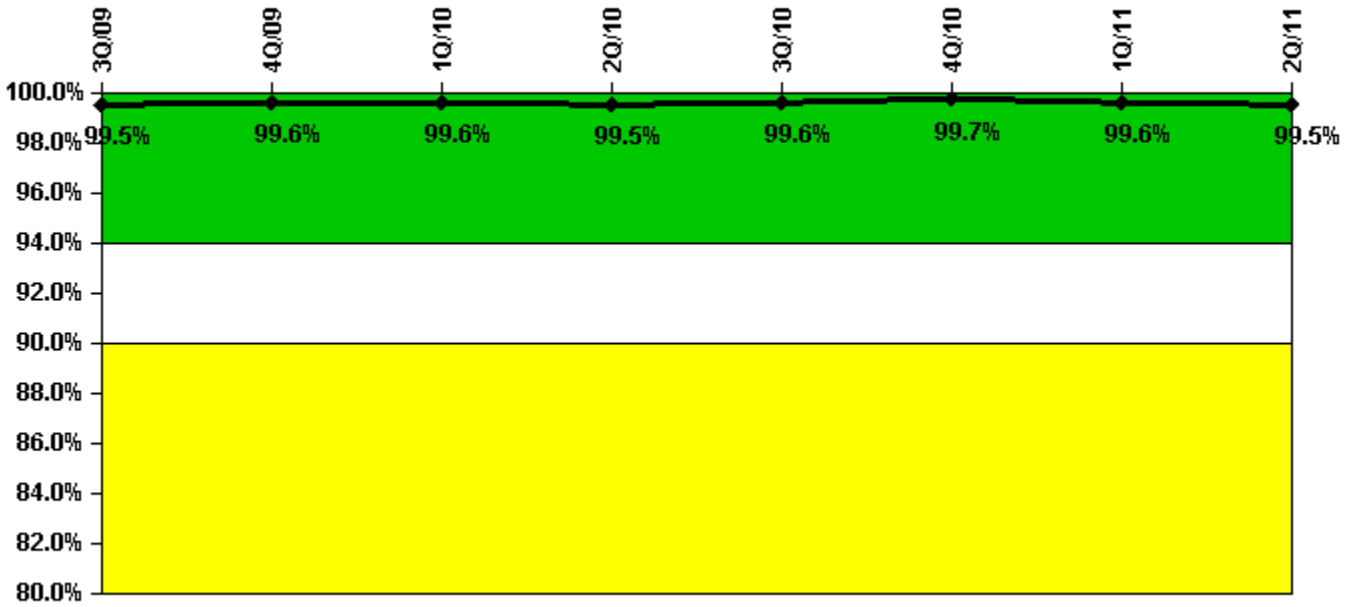
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	139.0	136.0	134.0	136.0	130.0	129.0	131.0	133.0
Total Key personnel	143.0	142.0	144.0	137.0	133.0	132.0	134.0	135.0
Indicator value	97.2%	95.8%	93.1%	99.3%	97.7%	97.7%	97.8%	98.5%

Licensee Comments: none

# 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	2386	2485	2214	2394	2483	2400	2387	2378
Total sirens-tests	2403	2492	2225	2403	2492	2403	2403	2403
Indicator value	99.5%	99.6%	99.6%	99.5%	99.6%	99.7%	99.6%	99.5%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



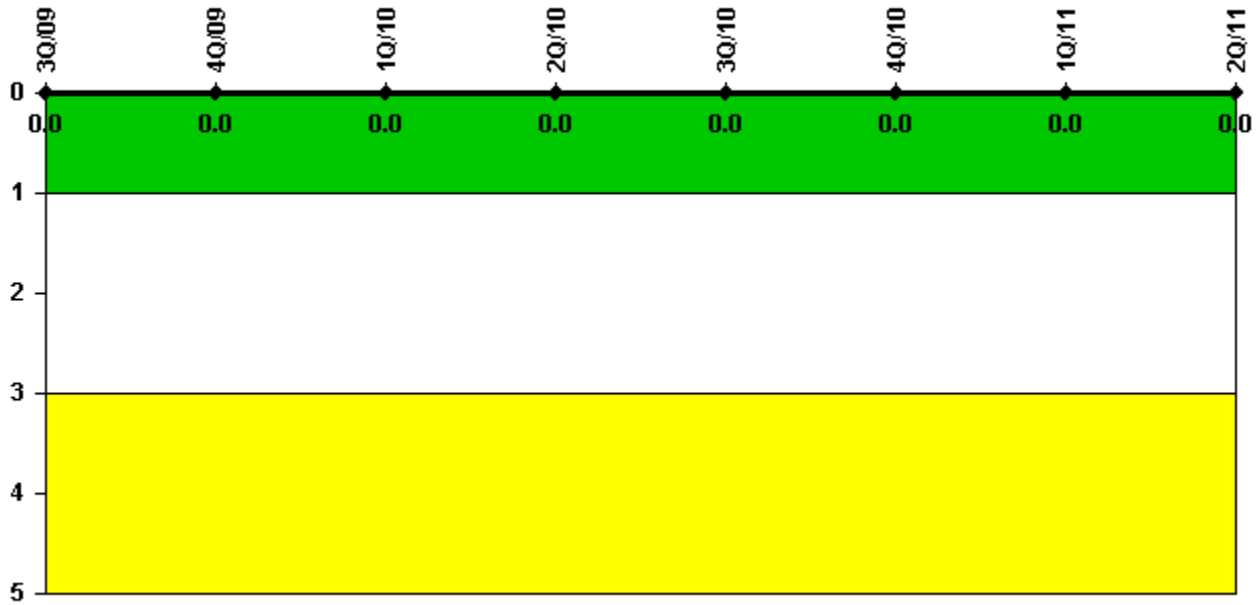
Thresholds: White > 2.0 Yellow > 5.0

## 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.