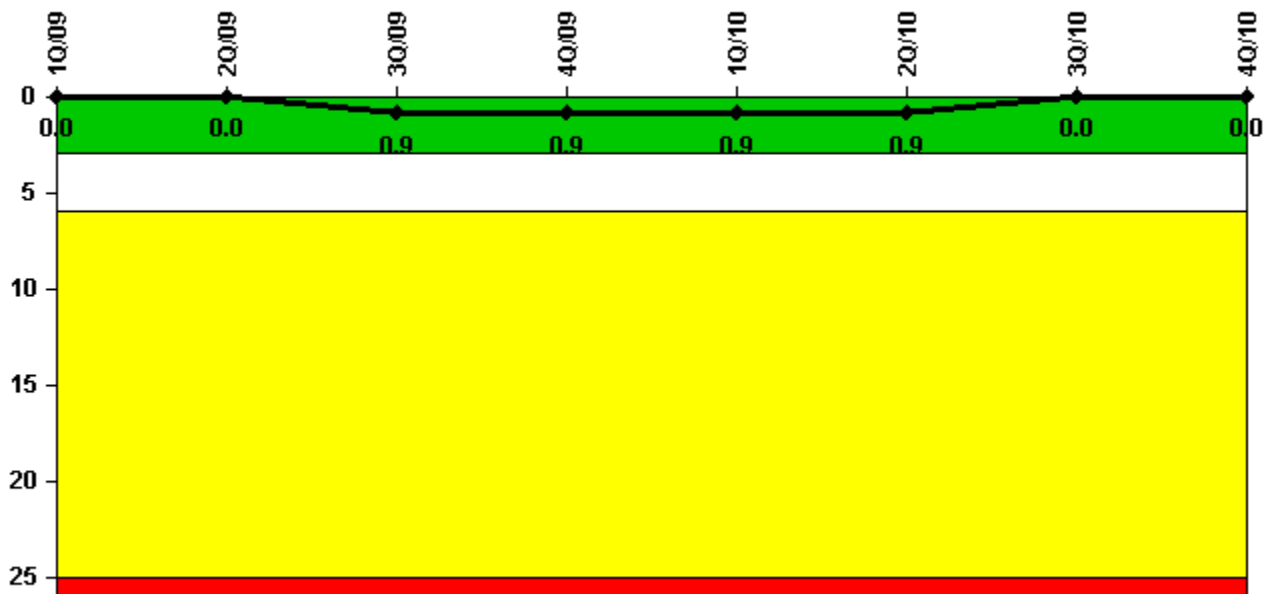


# Peach Bottom 3

## 4Q/2010 Performance Indicators

Licensee's General Comments: PBAPS PRA Model Update for 2010 Effective 4Q 2010

### Unplanned Scrams per 7000 Critical Hrs



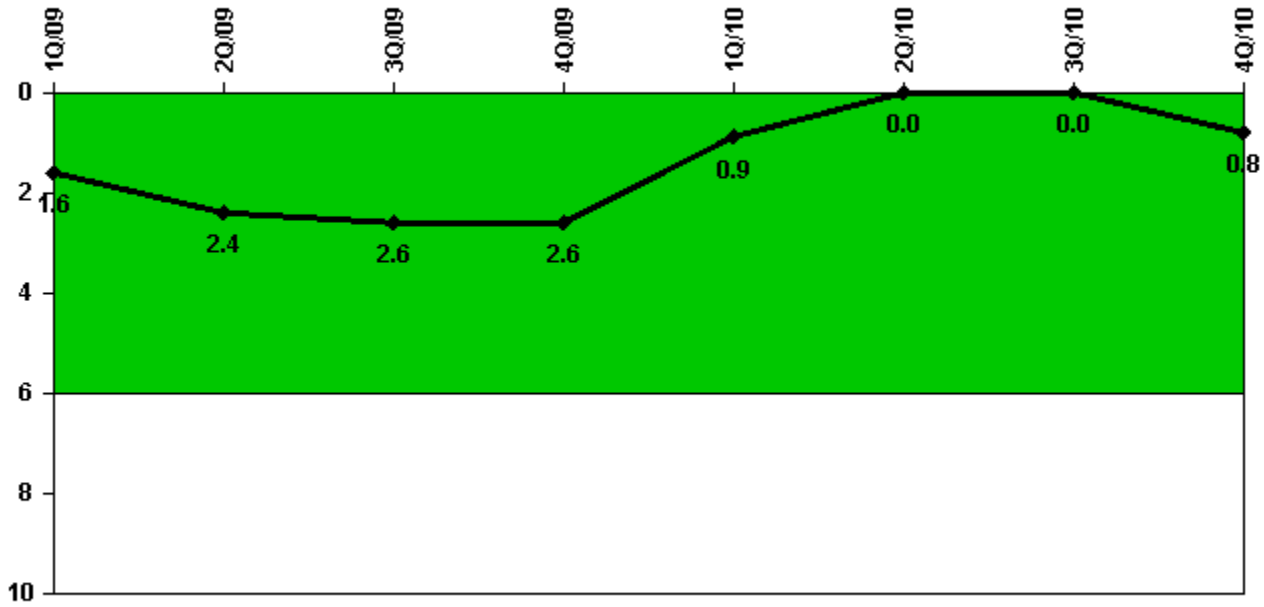
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2035.6	2184.0	1798.7	1955.5	2159.0	2184.0	2208.0	2118.9
Indicator value	0	0	0.9	0.9	0.9	0.9	0	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	2.0	1.0	0	0	0	0	0	1.0
Critical hours	2035.6	2184.0	1798.7	1955.5	2159.0	2184.0	2208.0	2118.9
Indicator value	1.6	2.4	2.6	2.6	0.9	0	0	0.8

Licensee Comments: none

## Unplanned Scrams with Complications



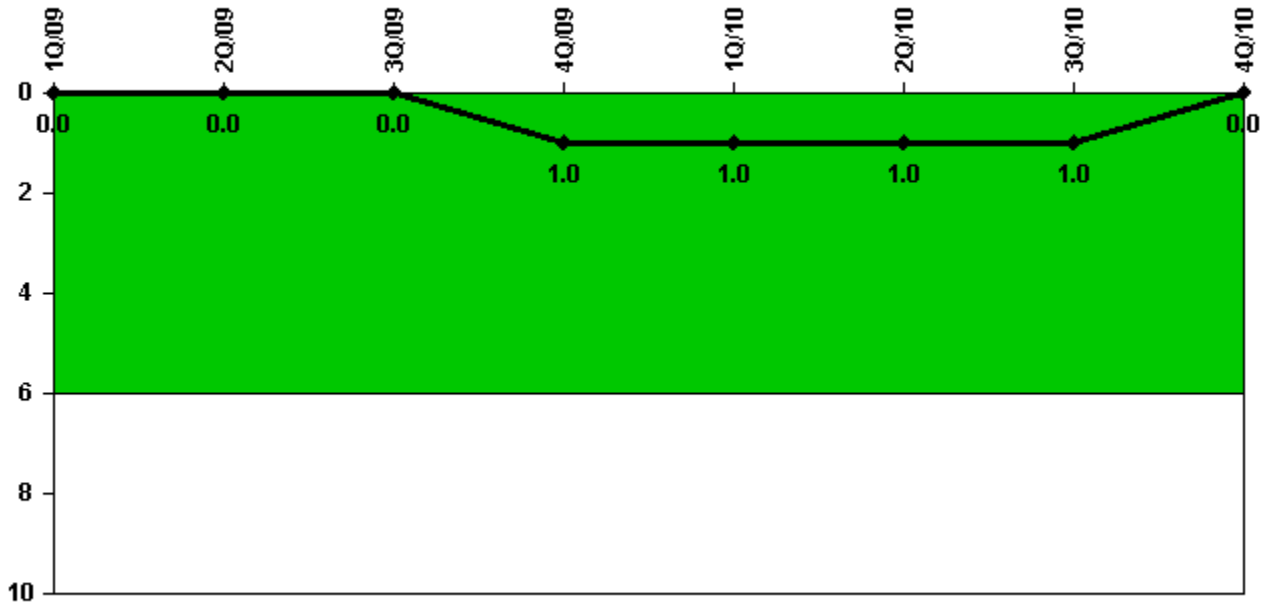
Thresholds: White > 1.0

### Notes

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



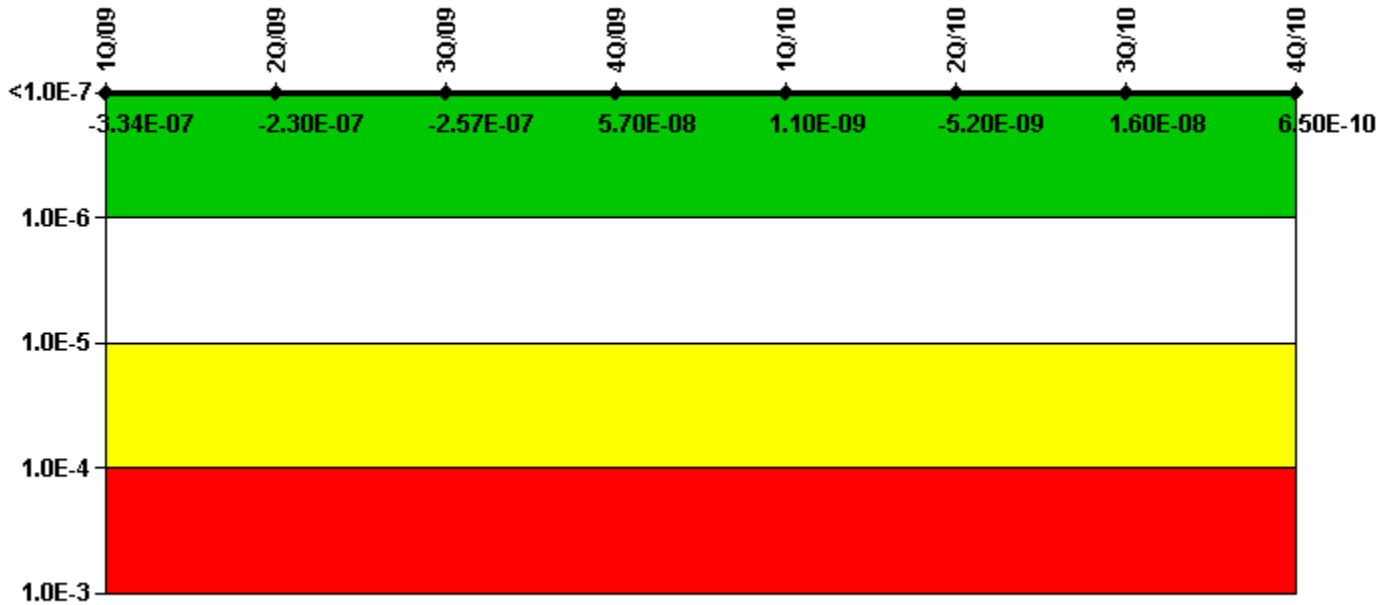
Thresholds: White > 6.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



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

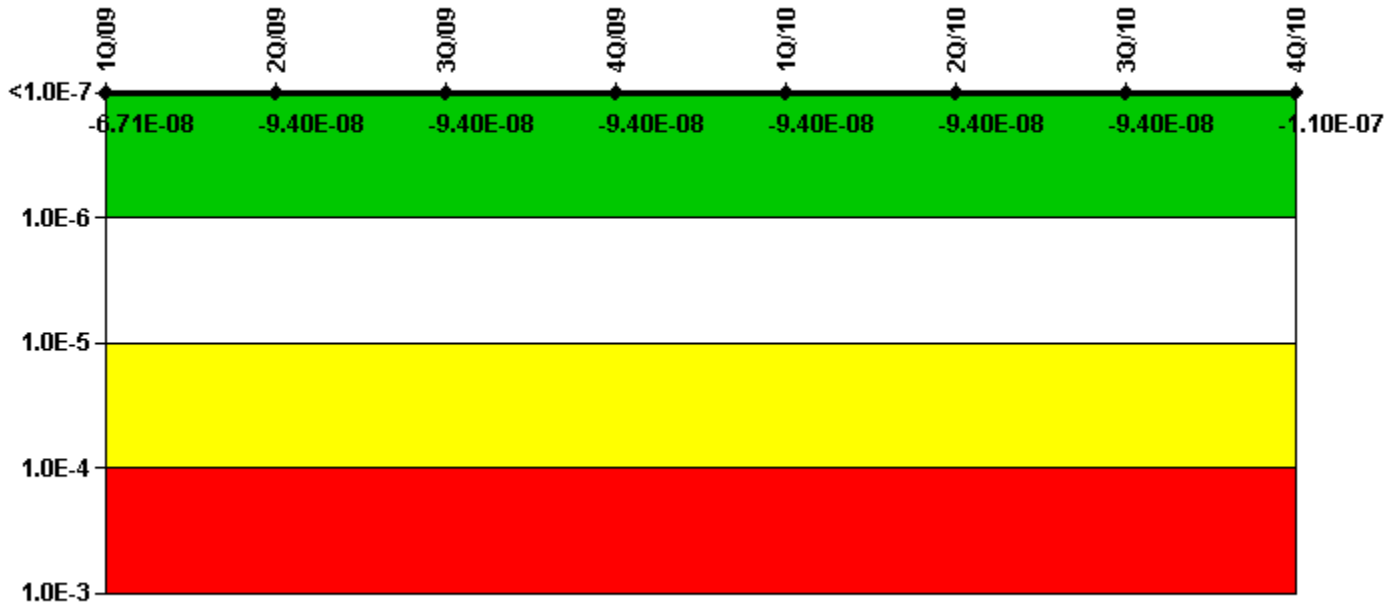
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	4.60E-08	1.30E-07	8.30E-08	3.30E-08	-2.91E-08	-3.18E-08	-2.78E-08	-2.52E-08
URI ( $\Delta$ CDF)	-3.80E-07	-3.60E-07	-3.40E-07	2.40E-08	3.02E-08	2.66E-08	4.36E-08	2.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.34E-07	-2.30E-07	-2.57E-07	5.70E-08	1.10E-09	-5.20E-09	1.60E-08	6.50E-10

Licensee Comments:

4Q/10: Changed PRA Parameter(s). PBAPS PRA MODEL UPDATE for 2010 was effective Q4 2010. Update PB209A/P309A has been incorporated into Revision 5 of the station MSPI Bases Document. All impacted Unit performance values have been updated as applicable effective 10/1/2010.

# Mitigating Systems Performance Index, High Pressure Injection System



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

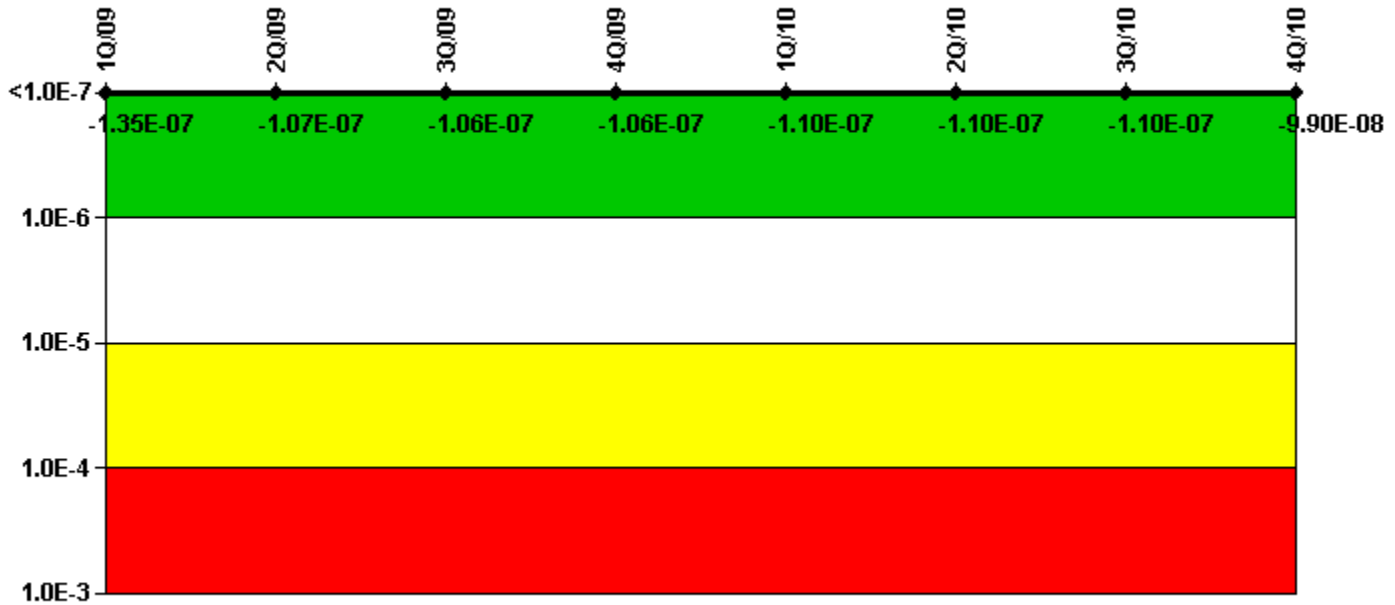
## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	3.90E-09	-2.30E-08	-2.30E-08	-2.30E-08	-2.28E-08	-2.28E-08	-2.28E-08	3.30E-09
URI ( $\Delta$ CDF)	-7.10E-08	-7.10E-08	-7.10E-08	-7.10E-08	-7.08E-08	-7.08E-08	-7.08E-08	-1.16E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.71E-08	-9.40E-08	-9.40E-08	-9.40E-08	-9.40E-08	-9.40E-08	-9.40E-08	-1.10E-07

Licensee Comments:

4Q/10: Changed PRA Parameter(s). PBAPS PRA MODEL UPDATE for 2010 was effective Q4 2010. Update PB209A/P309A has been incorporated into Revision 5 of the station MSPI Bases Document. All impacted Unit performance values have been updated as applicable effective 10/1/2010.

# Mitigating Systems Performance Index, Heat Removal System



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

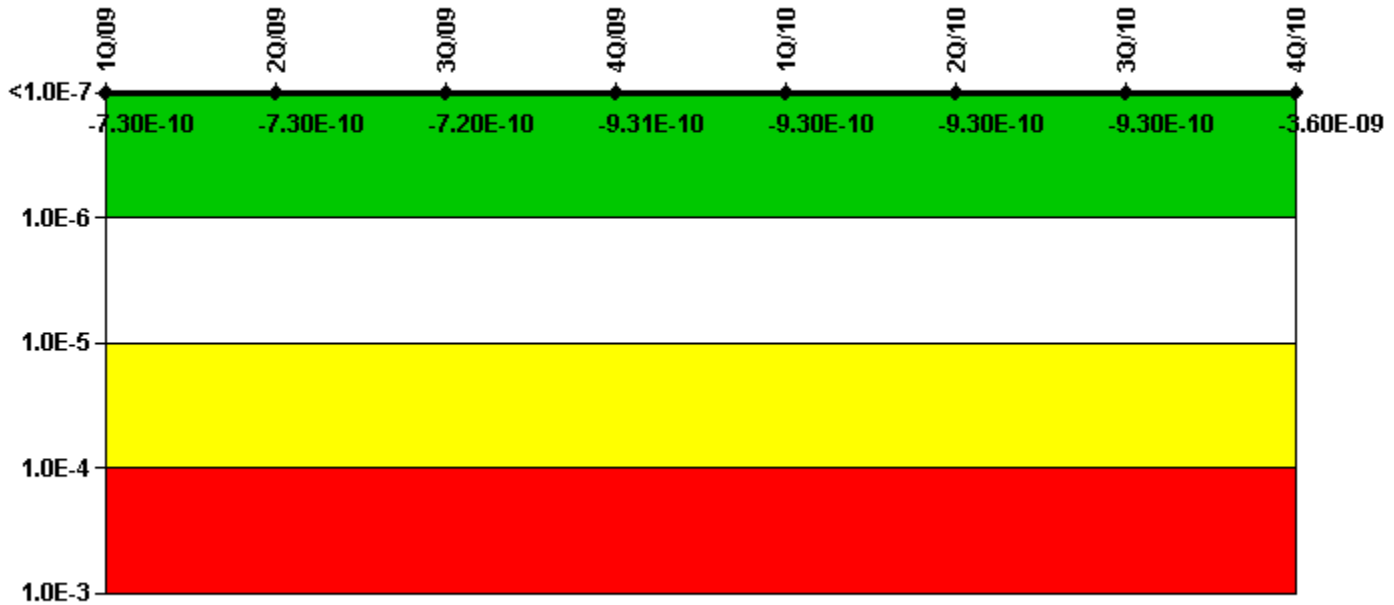
## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	-1.50E-08	1.30E-08	1.40E-08	1.40E-08	1.44E-08	1.44E-08	1.40E-08	7.27E-09
URI ( $\Delta$ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.22E-07	-1.22E-07	-1.22E-07	-1.06E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.35E-07	-1.07E-07	-1.06E-07	-1.06E-07	-1.10E-07	-1.10E-07	-1.10E-07	-9.90E-08

Licensee Comments:

4Q/10: Changed PRA Parameter(s). PBAPS PRA MODEL UPDATE for 2010 was effective Q4 2010. Update PB209A/P309A has been incorporated into Revision 5 of the station MSPI Bases Document. All impacted Unit performance values have been updated as applicable effective 10/1/2010.

# Mitigating Systems Performance Index, Residual Heat Removal System



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

## Notes

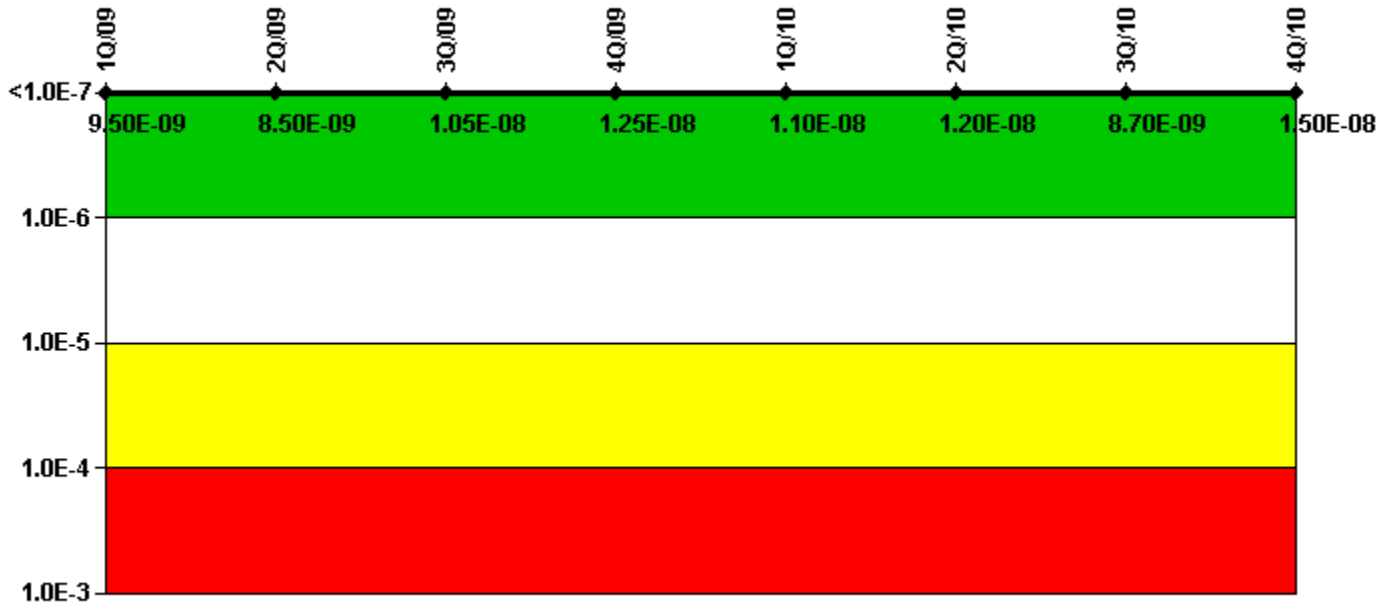
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	1.40E-10	1.40E-10	1.50E-10	-6.10E-11	-6.05E-11	-6.05E-11	-6.26E-11	-2.78E-10
URI ( $\Delta$ CDF)	-8.70E-10	-8.70E-10	-8.70E-10	-8.70E-10	-8.67E-10	-8.67E-10	-8.67E-10	-3.28E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.30E-10	-7.30E-10	-7.20E-10	-9.31E-10	-9.30E-10	-9.30E-10	-9.30E-10	-3.60E-09

Licensee Comments:

4Q/10: Changed PRA Parameter(s). PBAPS PRA MODEL UPDATE for 2010 was effective Q4 2010. Update PB209A/P309A has been incorporated into Revision 5 of the station MSPI Bases Document. All impacted Unit performance values have been updated as applicable effective 10/1/2010.



# Mitigating Systems Performance Index, Cooling Water Systems



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

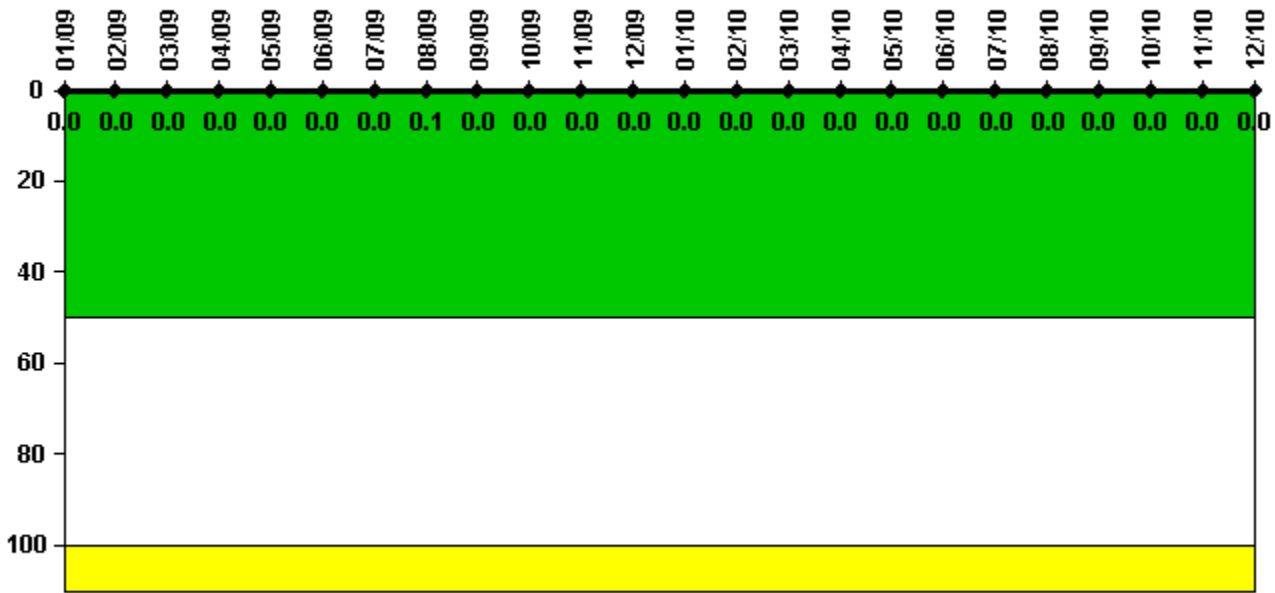
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	1.30E-08	1.20E-08	1.40E-08	1.60E-08	1.47E-08	1.54E-08	1.53E-08	1.67E-08
URI ( $\Delta$ CDF)	-3.50E-09	-3.50E-09	-3.50E-09	-3.50E-09	-3.51E-09	-3.51E-09	-6.62E-09	-1.74E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.50E-09	8.50E-09	1.05E-08	1.25E-08	1.10E-08	1.20E-08	8.70E-09	1.50E-08

Licensee Comments:

4Q/10: Changed PRA Parameter(s). PBAPS PRA MODEL UPDATE for 2010 was effective Q4 2010. Update PB209A/P309A has been incorporated into Revision 5 of the station MSPI Bases Document. All impacted Unit performance values have been updated as applicable effective 10/1/2010.

# Reactor Coolant System Activity



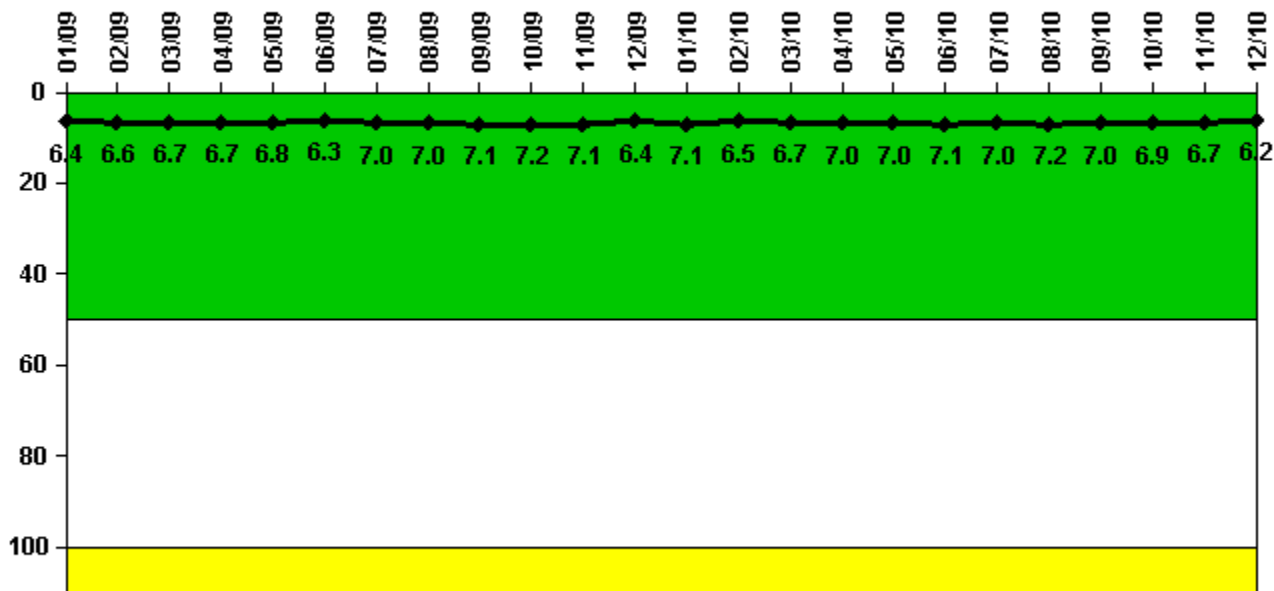
Thresholds: White > 50.0 Yellow > 100.0

## Notes

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	0.000058	0.000075	0.000068	0.000064	0.000058	0.000052	0.000074	0.000105	0.000074	0.000099	0.000025	0.000035
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	0.1	0	0	0	0
Reactor Coolant System Activity	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum activity	0.000057	0.000040	0.000035	0.000033	0.000031	0.000042	0.000048	0.000049	0.000036	0.000030	0.000036	0.000077
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

Licensee Comments: none

# Reactor Coolant System Leakage



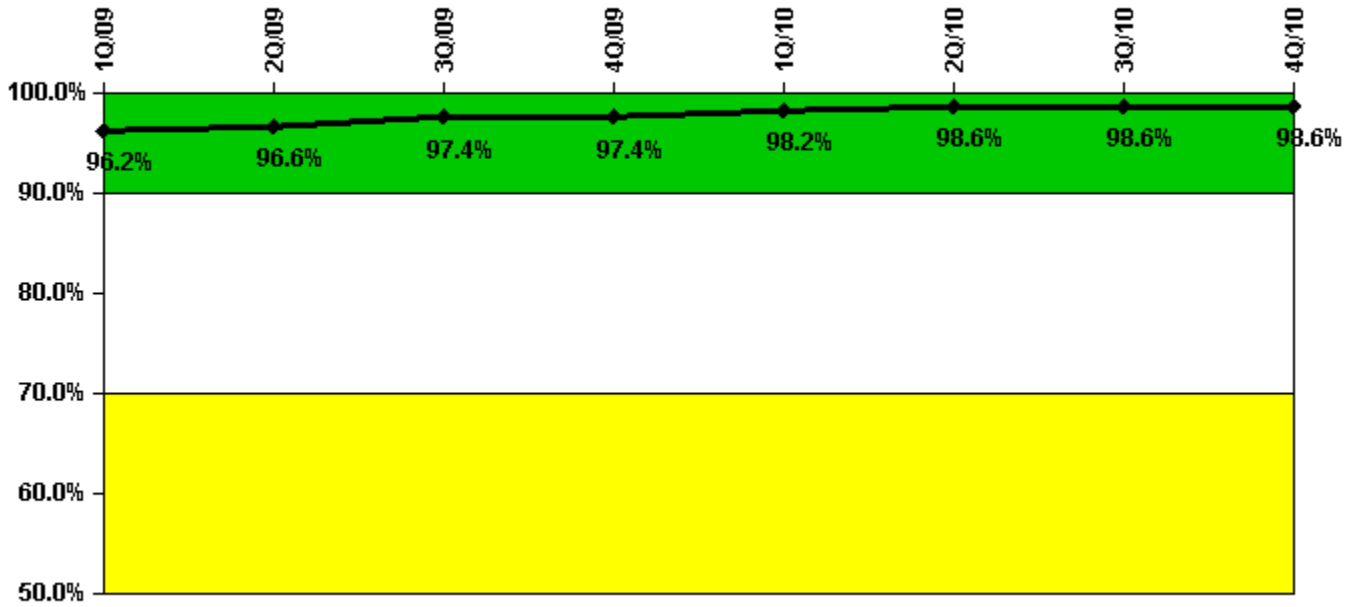
Thresholds: White > 50.0 Yellow > 100.0

## Notes

<b>Reactor Coolant System Leakage</b>	<b>1/09</b>	<b>2/09</b>	<b>3/09</b>	<b>4/09</b>	<b>5/09</b>	<b>6/09</b>	<b>7/09</b>	<b>8/09</b>	<b>9/09</b>	<b>10/09</b>	<b>11/09</b>	<b>12/09</b>
Maximum leakage	1.600	1.650	1.680	1.680	1.700	1.580	1.750	1.740	1.780	1.790	1.770	1.610
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.4	6.6	6.7	6.7	6.8	6.3	7.0	7.0	7.1	7.2	7.1	6.4
<b>Reactor Coolant System Leakage</b>	<b>1/10</b>	<b>2/10</b>	<b>3/10</b>	<b>4/10</b>	<b>5/10</b>	<b>6/10</b>	<b>7/10</b>	<b>8/10</b>	<b>9/10</b>	<b>10/10</b>	<b>11/10</b>	<b>12/10</b>
Maximum leakage	1.770	1.630	1.680	1.740	1.750	1.770	1.750	1.790	1.750	1.720	1.680	1.560
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	7.1	6.5	6.7	7.0	7.0	7.1	7.0	7.2	7.0	6.9	6.7	6.2

Licensee Comments: none

## Drill/Exercise Performance



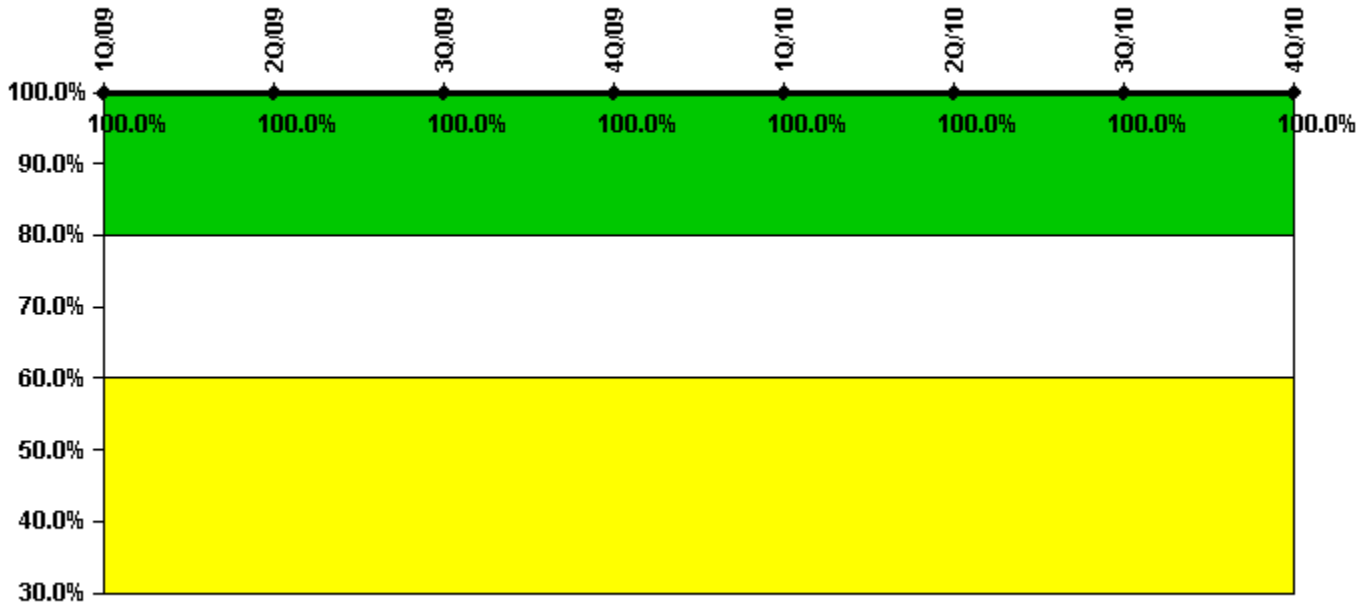
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	71.0	37.0	47.0	14.0	73.0	57.0	20.0	28.0
Total opportunities	73.0	38.0	48.0	14.0	74.0	57.0	20.0	28.0
Indicator value	96.2%	96.6%	97.4%	97.4%	98.2%	98.6%	98.6%	98.6%

License Comments: none

# ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

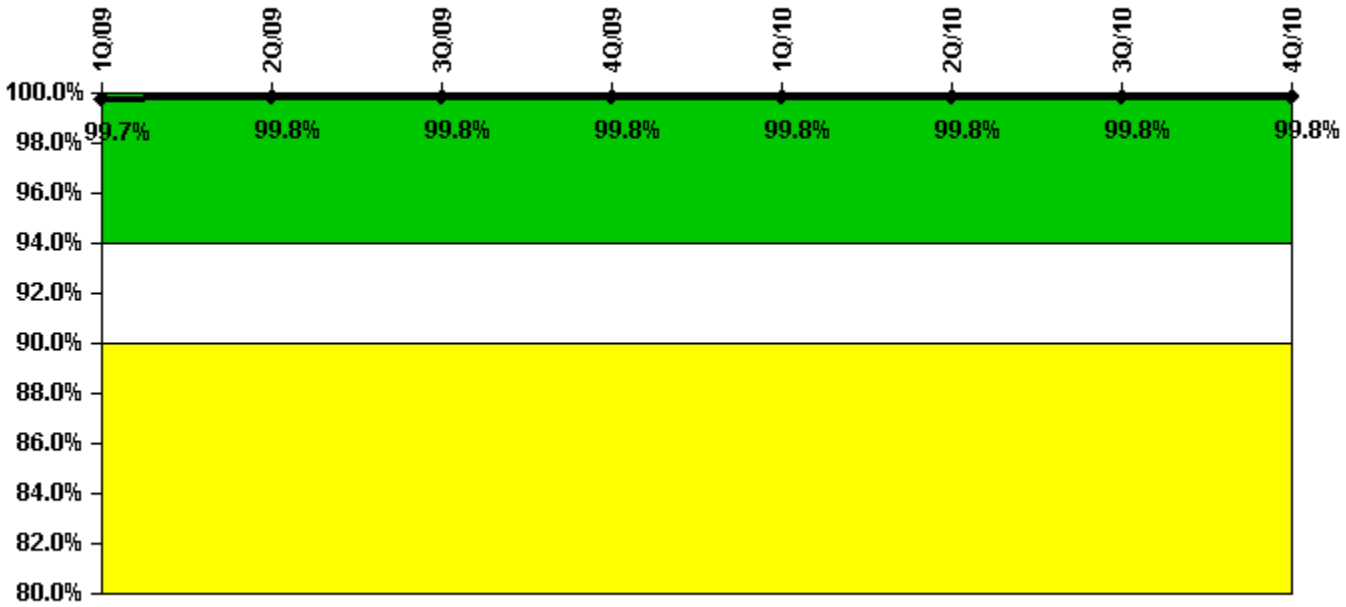
## Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	68.0	71.0	69.0	67.0	68.0	68.0	65.0	67.0
Total Key personnel	68.0	71.0	69.0	67.0	68.0	68.0	65.0	67.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

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# Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	1162	1257	1355	1259	1259	1260	1255	1259
Total sirens-tests	1164	1261	1358	1261	1261	1261	1261	1261
Indicator value	99.7%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



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

## Notes

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