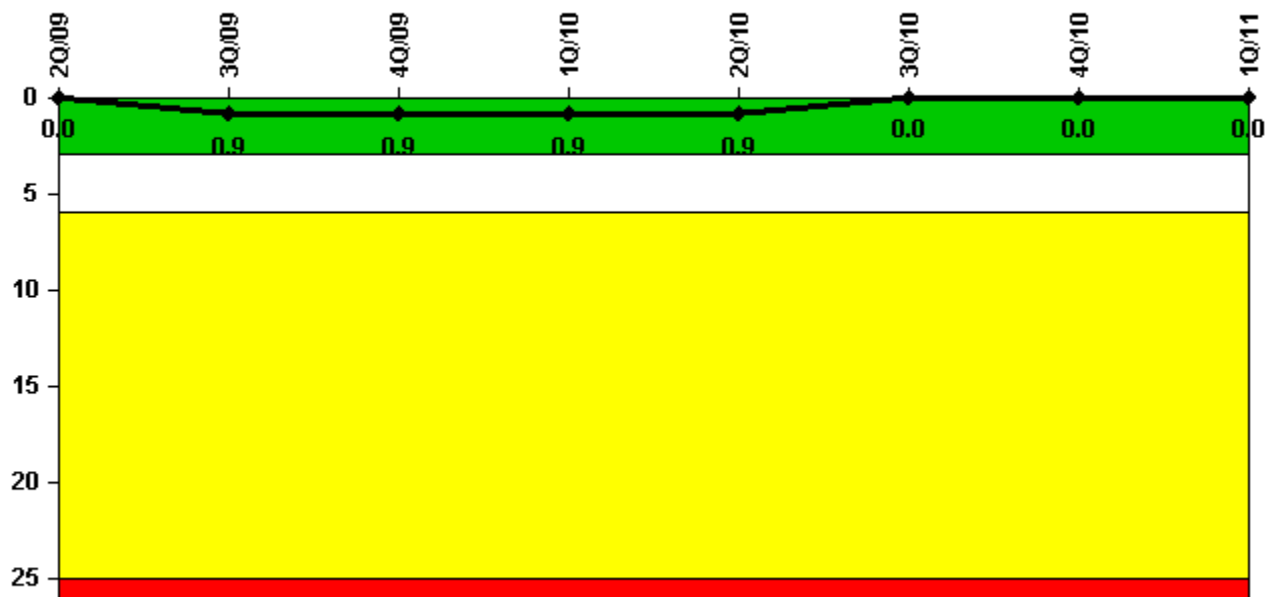


# Peach Bottom 3

## 1Q/2011 Performance Indicators

Licensee's General Comments: 1/15/2011 Changes to historical data 4thQtr2011 forward were applied to MSPI PRA values and the unit CDF value.

### Unplanned Scrams per 7000 Critical Hrs



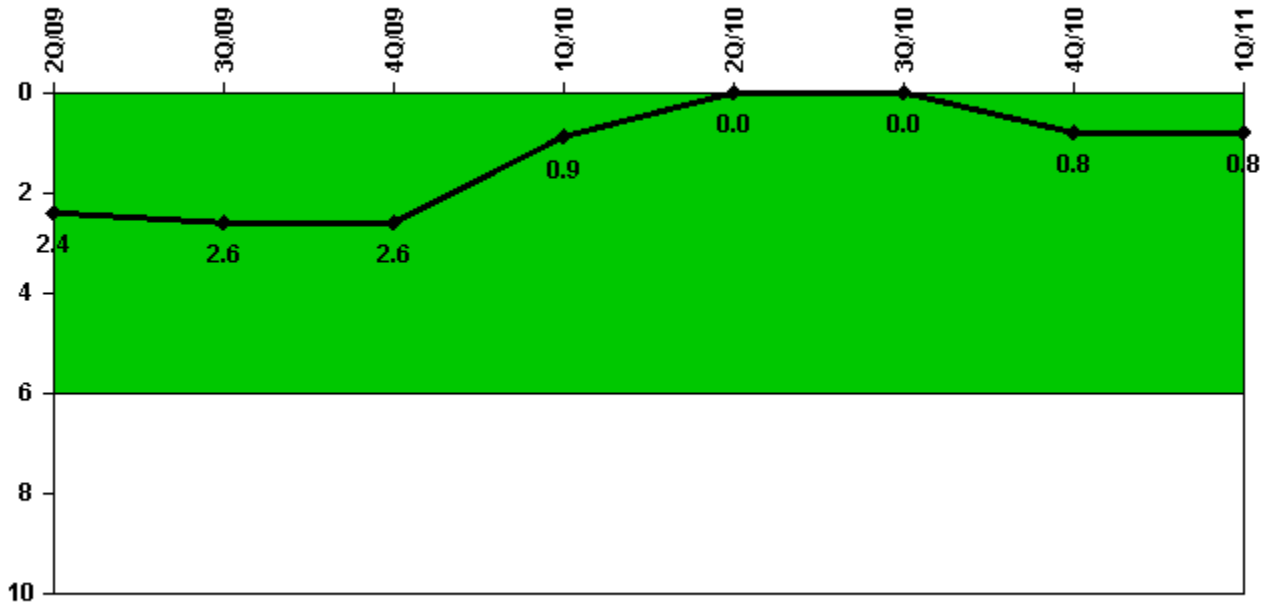
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2184.0	1798.7	1955.5	2159.0	2184.0	2208.0	2118.9	2159.0
Indicator value	0	0.9	0.9	0.9	0.9	0	0	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



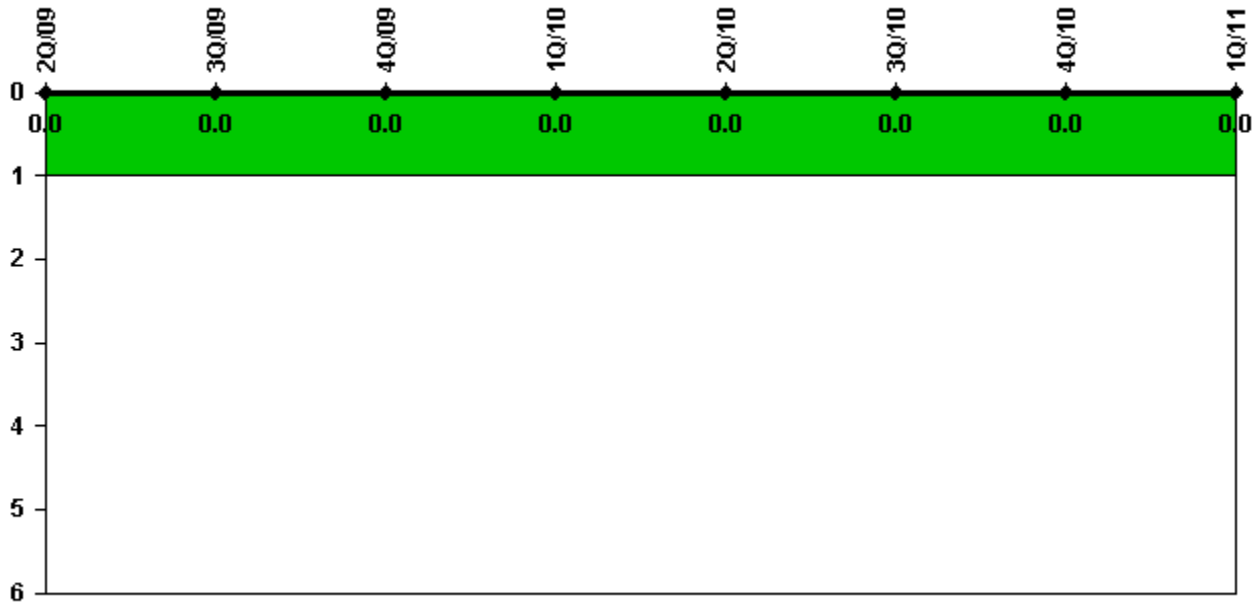
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	1.0	0	0	0	0	0	1.0	0
Critical hours	2184.0	1798.7	1955.5	2159.0	2184.0	2208.0	2118.9	2159.0
Indicator value	2.4	2.6	2.6	0.9	0	0	0.8	0.8

Licensee Comments: none

## Unplanned Scrams with Complications



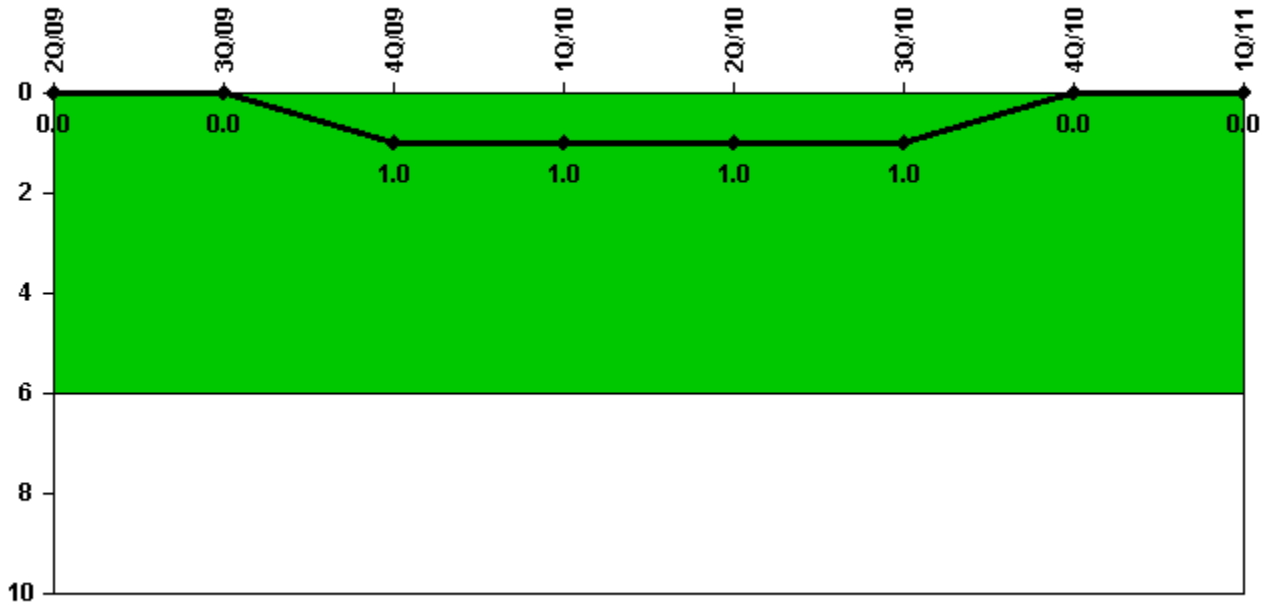
Thresholds: White > 1.0

### Notes

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

## Safety System Functional Failures (BWR)



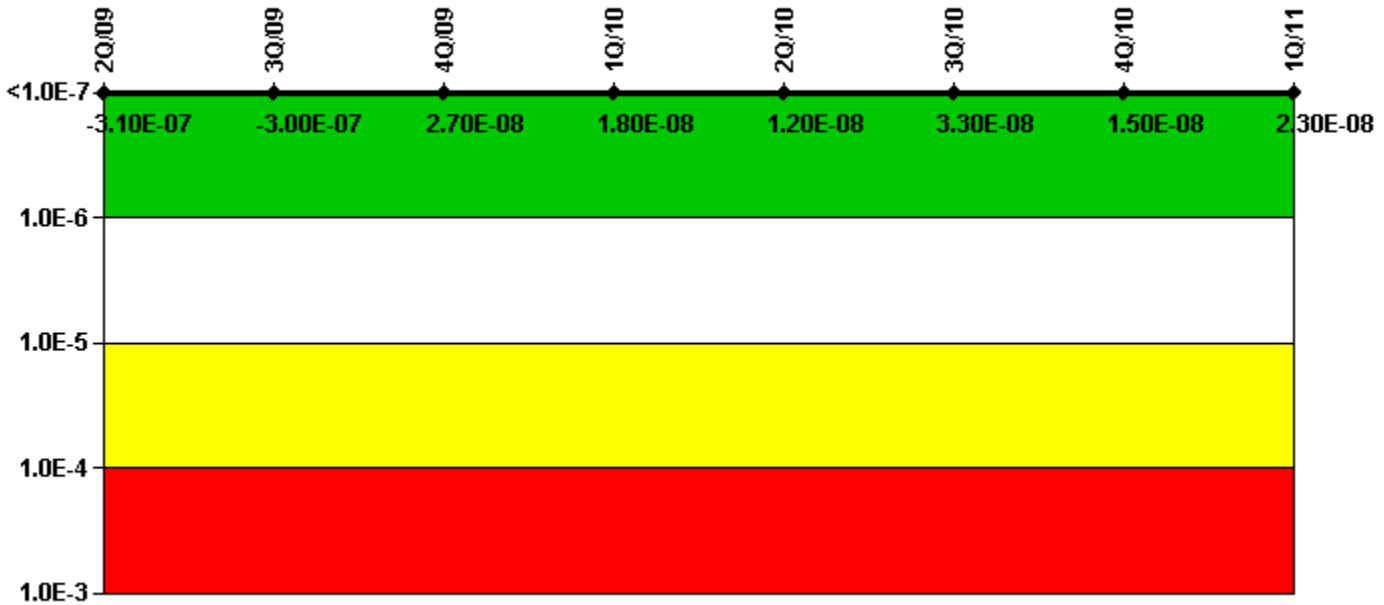
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	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	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	5.10E-08	3.97E-08	3.80E-09	-1.20E-08	-1.47E-08	-1.07E-08	-1.09E-08	3.33E-10
URI (ΔCDF)	-3.62E-07	-3.43E-07	2.36E-08	3.02E-08	2.66E-08	4.36E-08	2.59E-08	2.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.10E-07	-3.00E-07	2.70E-08	1.80E-08	1.20E-08	3.30E-08	1.50E-08	2.30E-08

## Licensee Comments:

1Q/11: Changed PRA Parameter(s). MSPI basis document revision 5 incorporates PRA updates for PBAPS U2 and U3 completed in the 3rd qtr 2010. MSPI PRA values for all impacted functions, device records and unit CDF have been revised IAW the values calculated in PB209A for U2 and PB309A for U3, respectively.

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.

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

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

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

4Q/09: Changed PRA Parameter(s). MS06 4Q2009 Changed PRA Parameter(s). The PRA values for EDG systems were updated to reflect Rev 3 of the Peach Bottom PRA model, approved on 9/15/2009 and incorporated into the Peach Bottom MSPI basis document. The model revision reflects the proper output values for TM (mission time) was changed from 24 hours to 4 hours. The change is in response to an MSPI FAQ approval incorporated in NEI-99-02 Rev. 6.

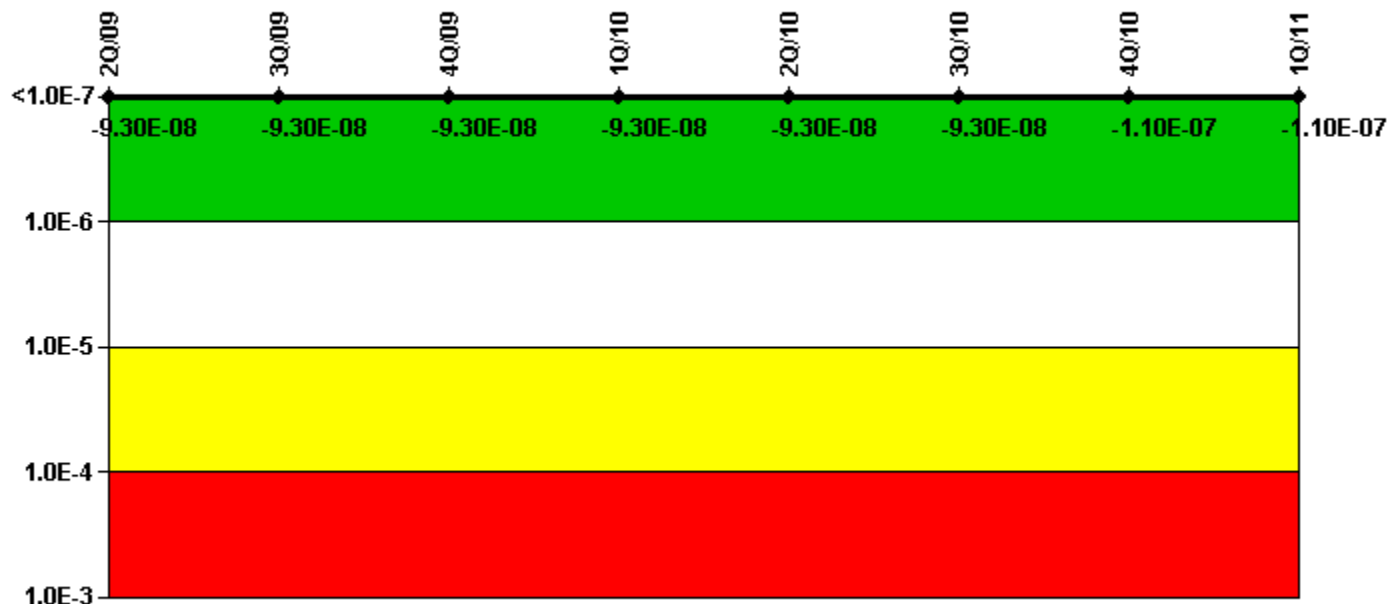
3Q/09: Changed PRA Parameter(s).

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

1Q/09: Changed PRA Parameter(s).

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

### Mitigating Systems Performance Index, High Pressure Injection System



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

#### Notes

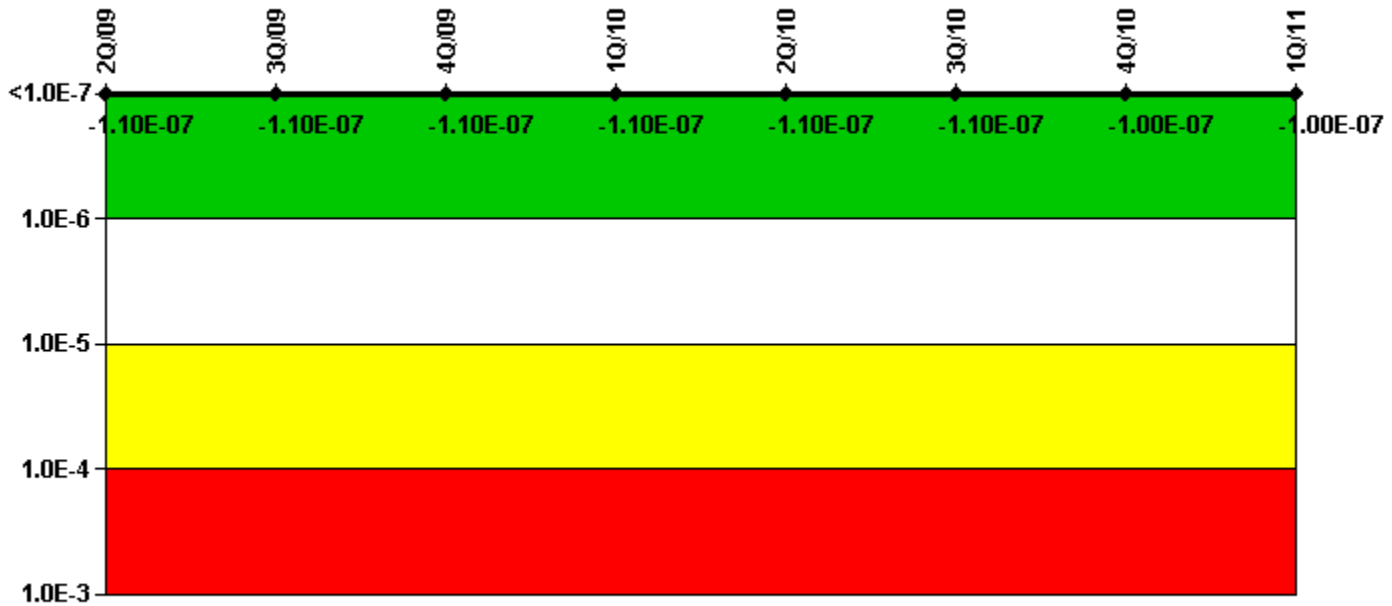
Mitigating Systems Performance Index, High Pressure Injection System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	-2.30E-08	-2.29E-08	-2.26E-08	-2.28E-08	-2.28E-08	-2.28E-08	5.45E-09	6.41E-09
URI (ΔCDF)	-7.04E-08	-7.04E-08	-7.04E-08	-7.04E-08	-7.04E-08	-7.04E-08	-1.16E-07	-1.16E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.30E-08	-9.30E-08	-9.30E-08	-9.30E-08	-9.30E-08	-9.30E-08	-1.10E-07	-1.10E-07

Licensee Comments:

1Q/11: Changed PRA Parameter(s). MSPI basis document revision 5 incorporates PRA updates for PBAPS U2 and U3 completed in the 3rd qtr 2010. MSPI PRA values for all impacted functions, device records and unit CDF have been revised IAW the values calculated in PB209A for U2 and PB309A for U3, respectively.

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

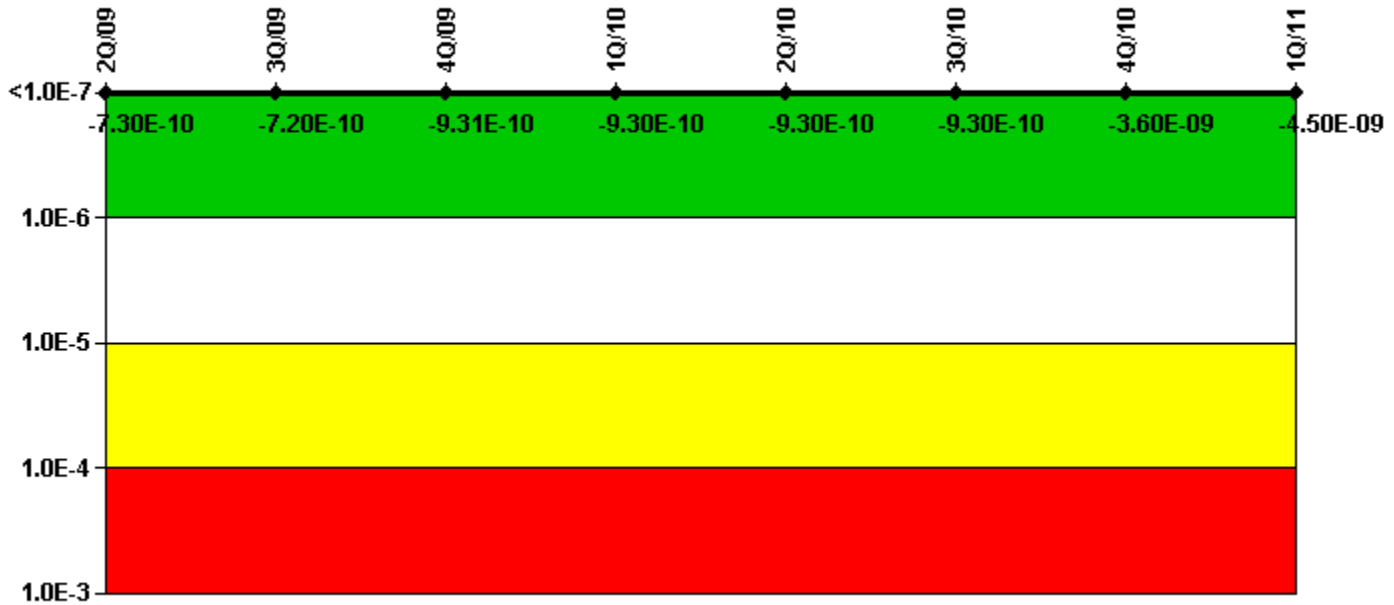
Mitigating Systems Performance Index, Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI ( $\Delta$ CDF)	1.28E-08	1.38E-08	1.44E-08	1.44E-08	1.44E-08	1.40E-08	5.82E-09	5.80E-09
URI ( $\Delta$ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.06E-07	-1.06E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07

### Licensee Comments:

1Q/11: Changed PRA Parameter(s). MSPI basis document revision 5 incorporates PRA updates for PBAPS U2 and U3 completed in the 3rd qtr 2010. MSPI PRA values for all impacted functions, device records and unit CDF have been revised IAW the values calculated in PB209A for U2 and PB309A for U3, respectively.

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	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI ( $\Delta$ CDF)	1.40E-10	1.50E-10	-6.10E-11	-6.05E-11	-6.05E-11	-6.26E-11	-3.14E-10	-2.33E-10
URI ( $\Delta$ CDF)	-8.70E-10	-8.70E-10	-8.70E-10	-8.67E-10	-8.67E-10	-8.67E-10	-3.28E-09	-4.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.30E-10	-7.20E-10	-9.31E-10	-9.30E-10	-9.30E-10	-9.30E-10	-3.60E-09	-4.50E-09

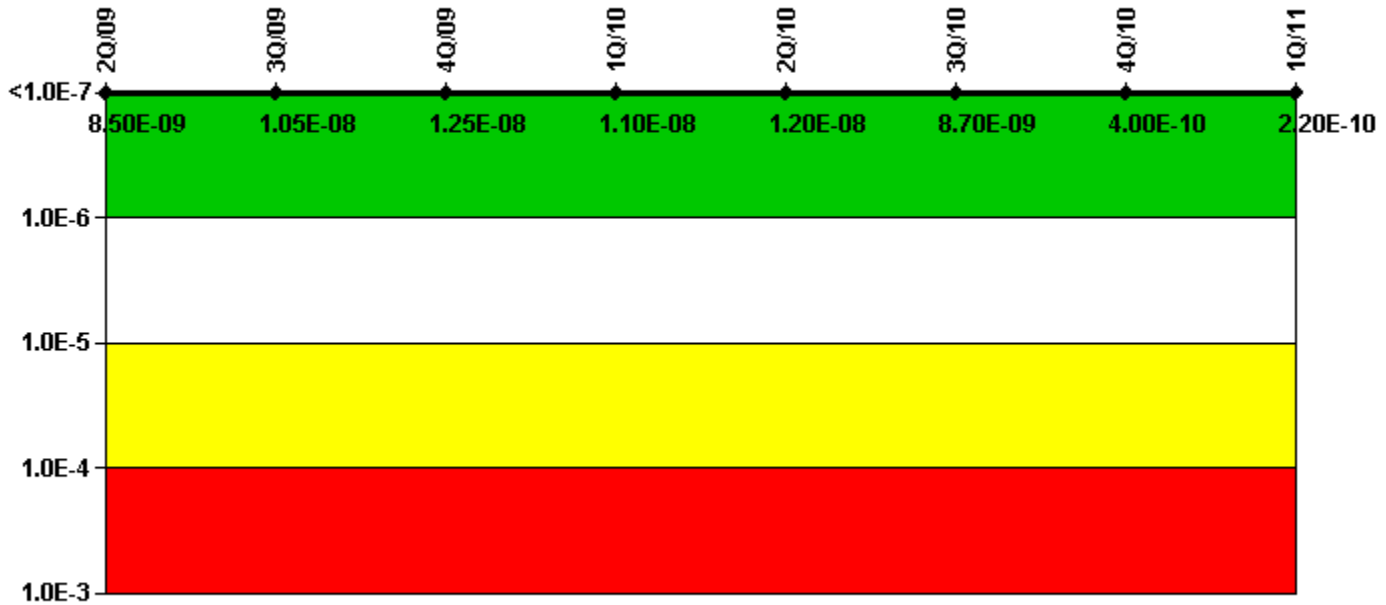
## Licensee Comments:

1Q/11: Changed PRA Parameter(s). MSPI basis document revision 5 incorporates PRA updates for PBAPS U2 and U3 completed in the 3rd qtr 2010. MSPI PRA values for all impacted functions, device records and unit CDF have been revised IAW the values calculated in PB209A for U2 and PB309A for U3, respectively.

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

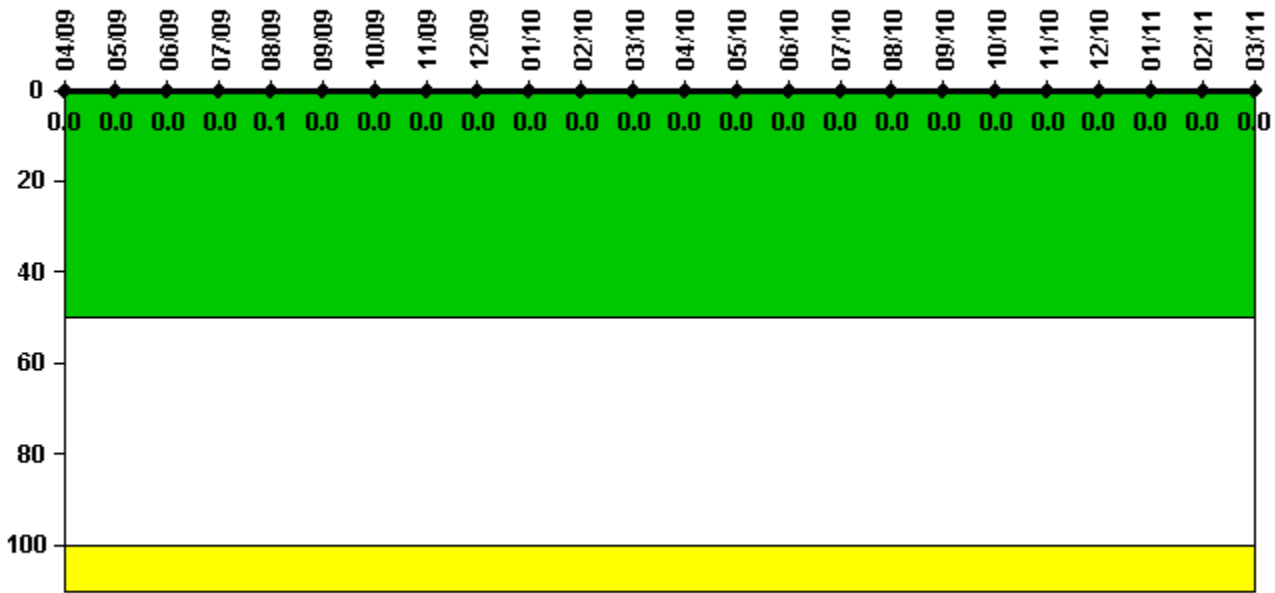
Mitigating Systems Performance Index, Cooling Water Systems	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI ( $\Delta$ CDF)	1.20E-08	1.40E-08	1.60E-08	1.47E-08	1.54E-08	1.53E-08	2.15E-09	1.97E-09
URI ( $\Delta$ CDF)	-3.50E-09	-3.50E-09	-3.50E-09	-3.51E-09	-3.51E-09	-6.62E-09	-1.74E-09	-1.74E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.50E-09	1.05E-08	1.25E-08	1.10E-08	1.20E-08	8.70E-09	4.00E-10	2.20E-10

## Licensee Comments:

1Q/11: Changed PRA Parameter(s). MSPI basis document revision 5 incorporates PRA updates for PBAPS U2 and U3 completed in the 3rd qtr 2010. MSPI PRA values for all impacted functions, device records and unit CDF have been revised IAW the values calculated in PB209A for U2 and PB309A for U3, respectively.

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



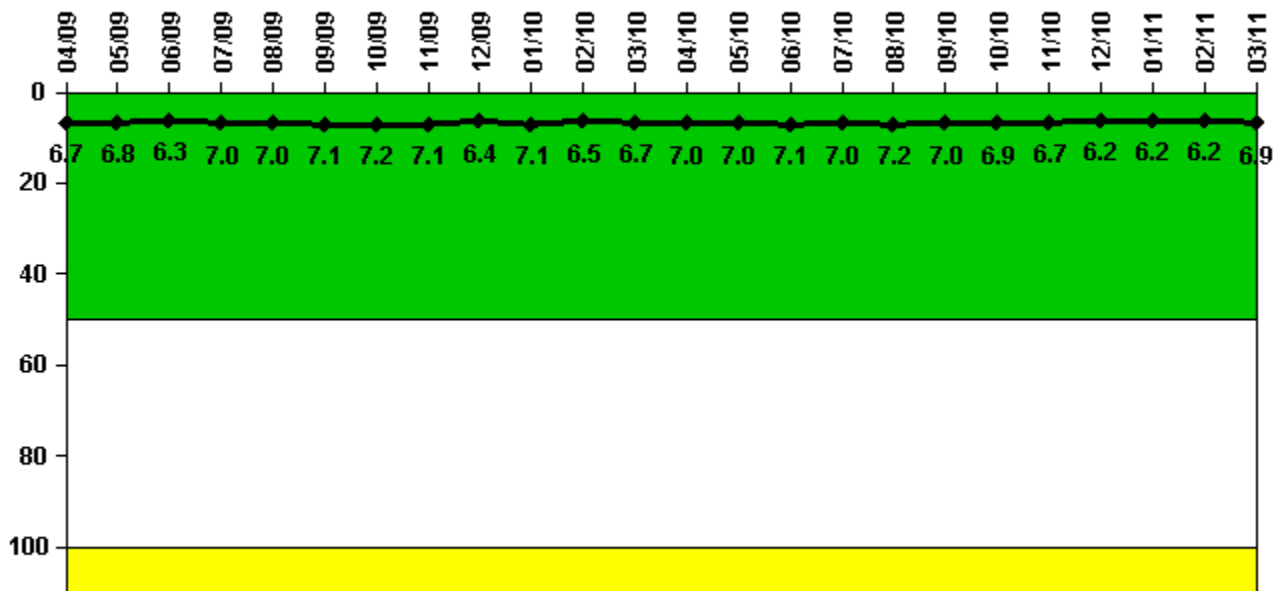
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	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	0.000064	0.000058	0.000052	0.000074	0.000105	0.000074	0.000099	0.000025	0.000035	0.000057	0.000040	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	0.1	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.000033	0.000031	0.000042	0.000048	0.000049	0.000036	0.000030	0.000036	0.000077	0.000076	0.000053	0.000062
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



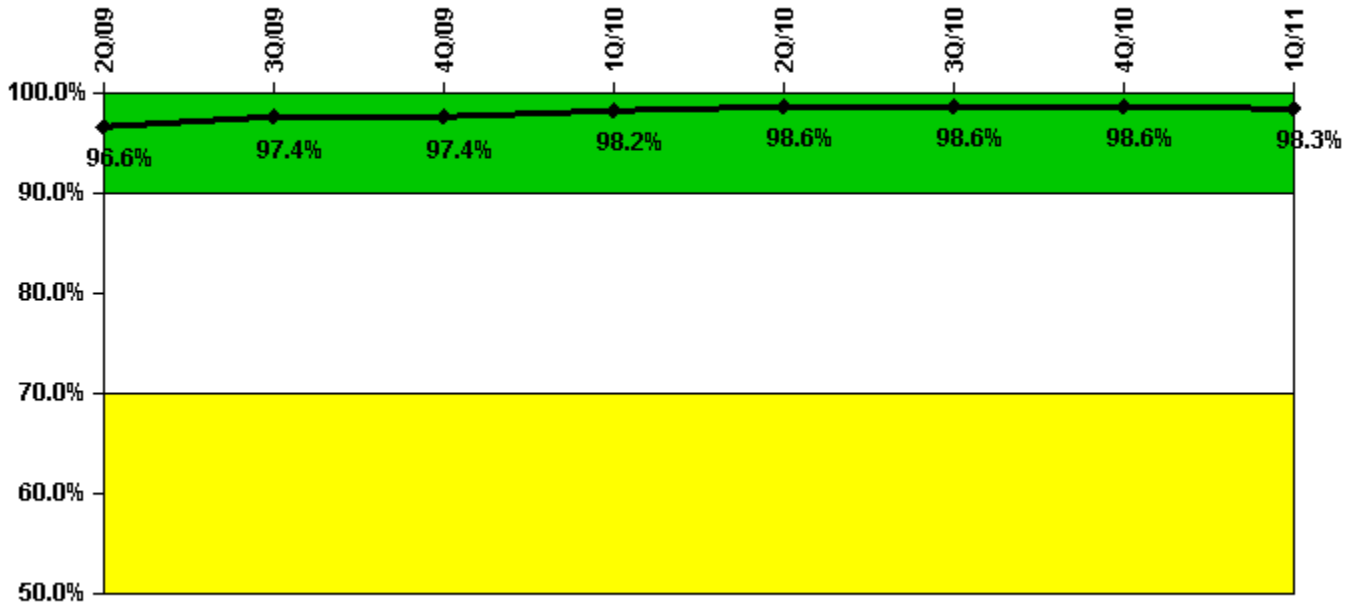
Thresholds: White > 50.0 Yellow > 100.0

### Notes

<b>Reactor Coolant System Leakage</b>	<b>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>	<b>1/10</b>	<b>2/10</b>	<b>3/10</b>
Maximum leakage	1.680	1.700	1.580	1.750	1.740	1.780	1.790	1.770	1.610	1.770	1.630	1.680
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	6.7	6.8	6.3	7.0	7.0	7.1	7.2	7.1	6.4	7.1	6.5	6.7
<b>Reactor Coolant System Leakage</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>	<b>1/11</b>	<b>2/11</b>	<b>3/11</b>
Maximum leakage	1.740	1.750	1.770	1.750	1.790	1.750	1.720	1.680	1.560	1.560	1.560	1.720
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	7.0	7.0	7.1	7.0	7.2	7.0	6.9	6.7	6.2	6.2	6.2	6.9

Licensee Comments: none

## Drill/Exercise Performance



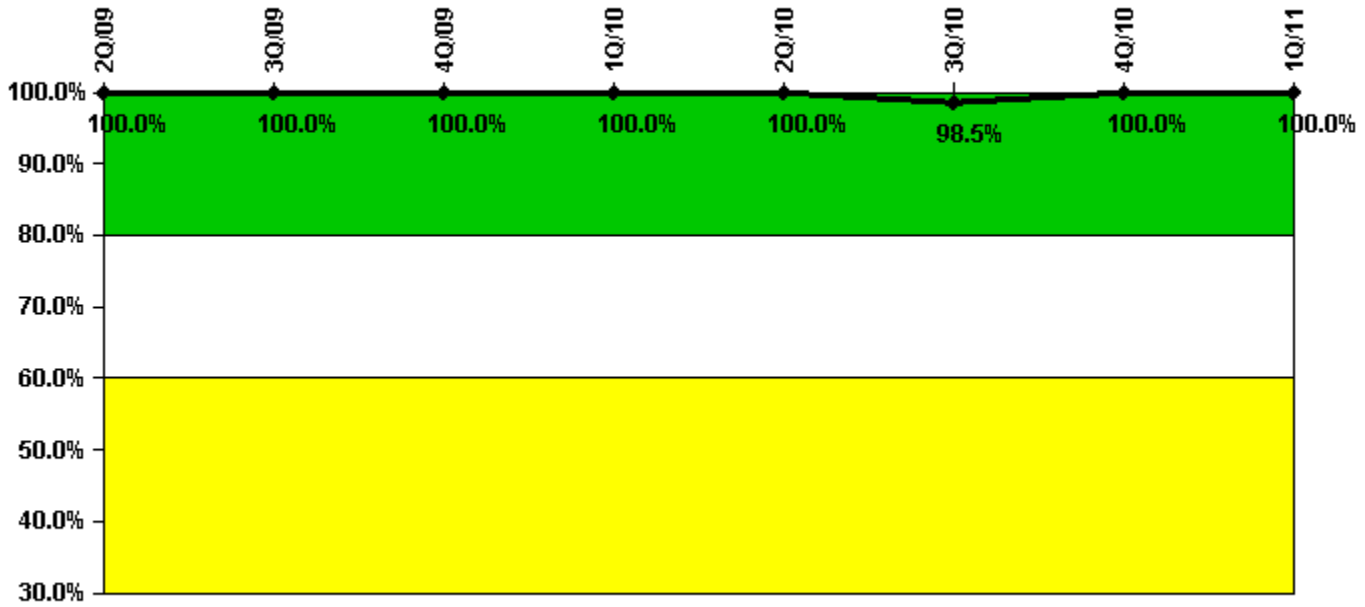
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	37.0	47.0	14.0	73.0	57.0	20.0	28.0	70.0
Total opportunities	38.0	48.0	14.0	74.0	57.0	20.0	28.0	73.0
Indicator value	96.6%	97.4%	97.4%	98.2%	98.6%	98.6%	98.6%	98.3%

Licensee Comments: none

## ERO Drill Participation



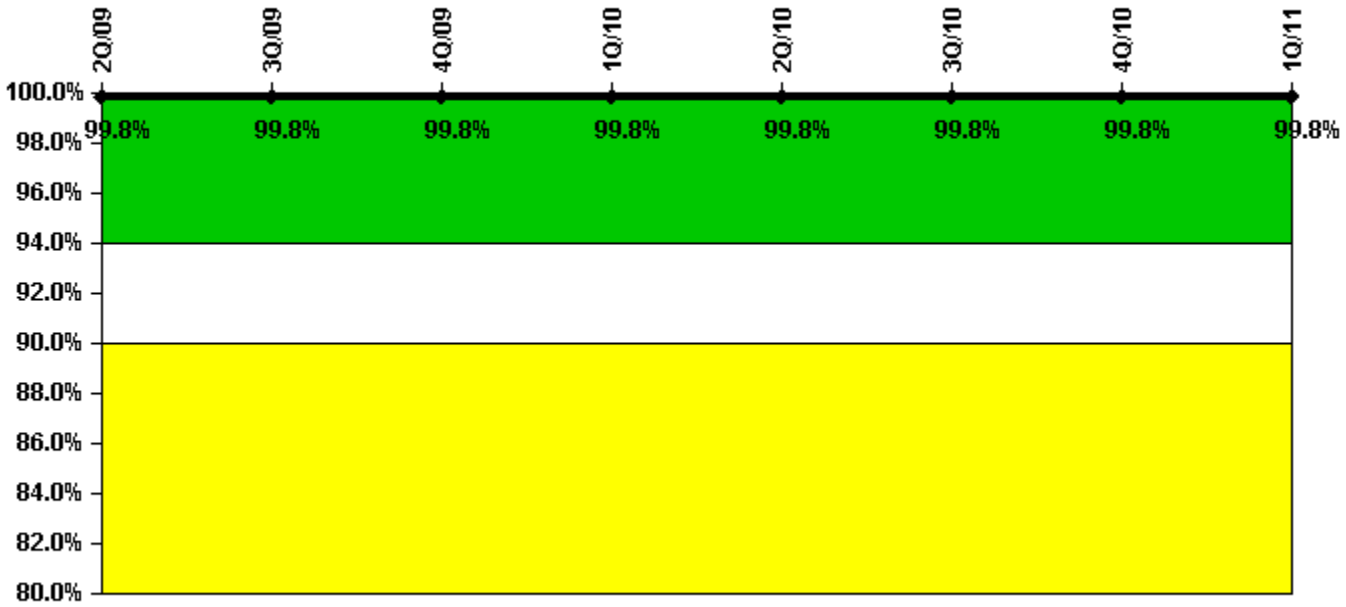
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	71.0	69.0	67.0	68.0	68.0	65.0	67.0	66.0
Total Key personnel	71.0	69.0	67.0	68.0	68.0	66.0	67.0	66.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	98.5%	100.0%	100.0%

Licensee Comments: none

# Alert & Notification System



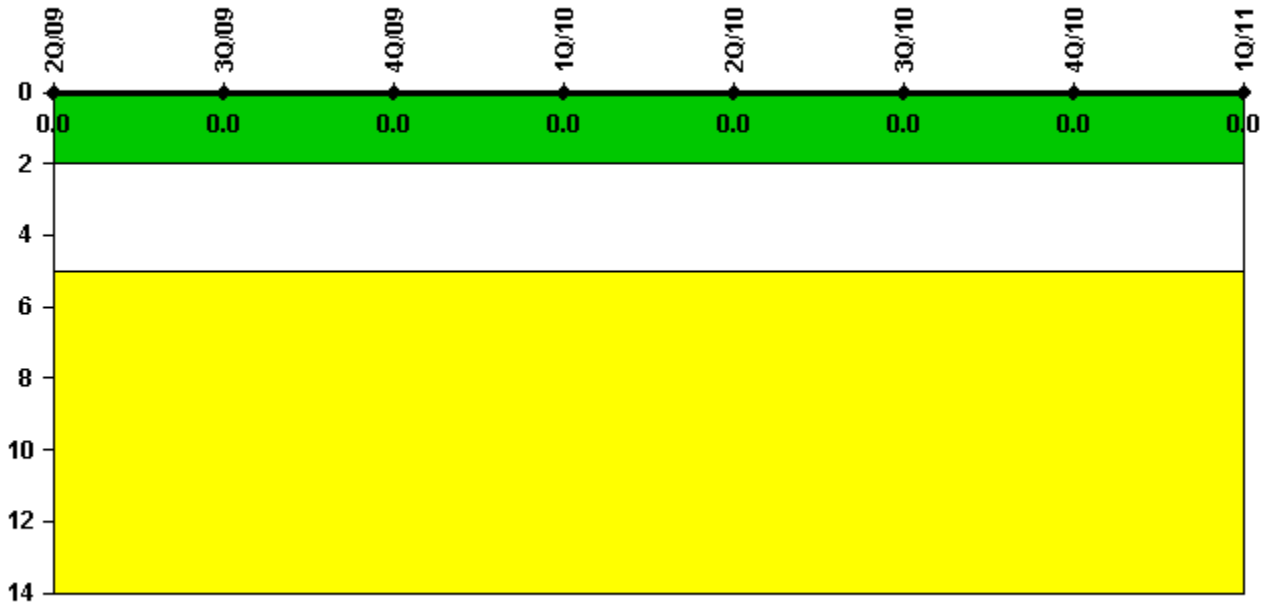
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	1257	1355	1259	1259	1260	1255	1259	1260
Total sirens-tests	1261	1358	1261	1261	1261	1261	1261	1261
Indicator value	99.8%	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

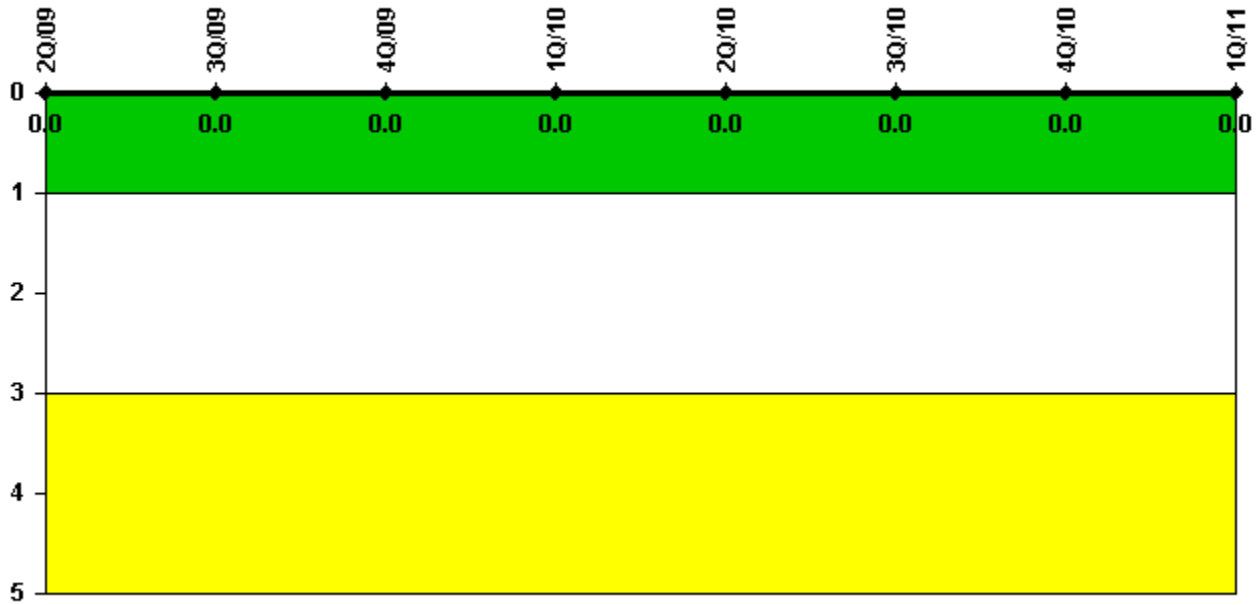
### Notes

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

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## RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

### Notes

RETS/ODCM Radiological Effluent	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/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.