

# Comanche Peak 2

## 1Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

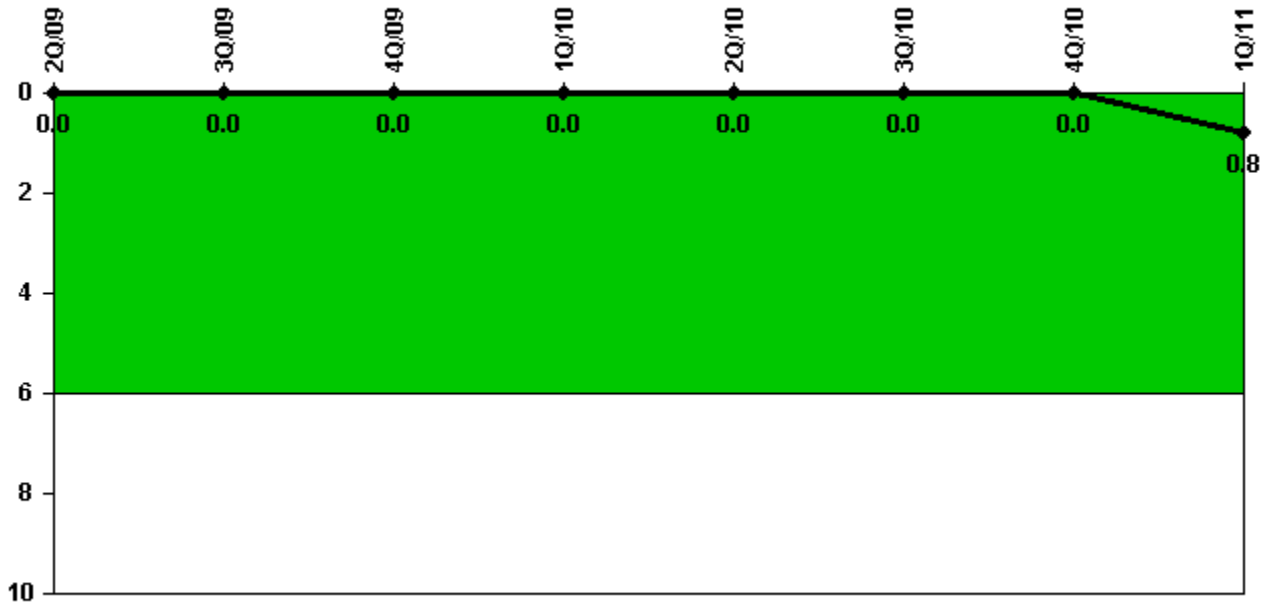
### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	1634.6	2159.0	2184.0	2208.0	2209.0	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



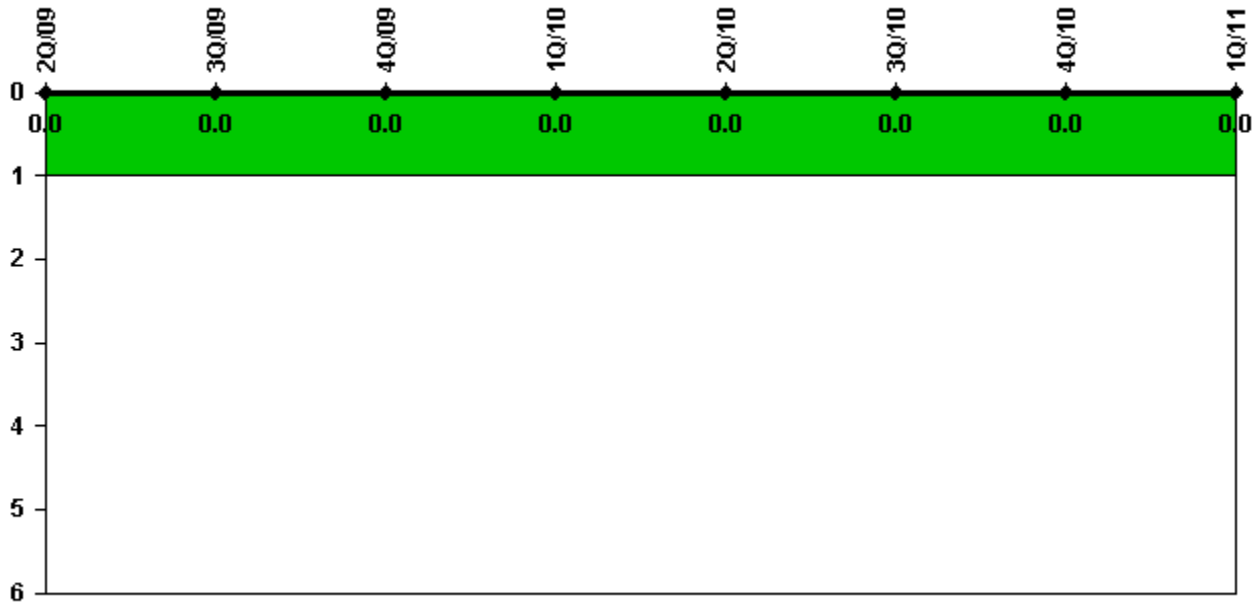
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2184.0	2208.0	1634.6	2159.0	2184.0	2208.0	2209.0	2159.0
Indicator value	0	0	0	0	0	0	0	0.8

Licensee Comments: none

## Unplanned Scrams with Complications



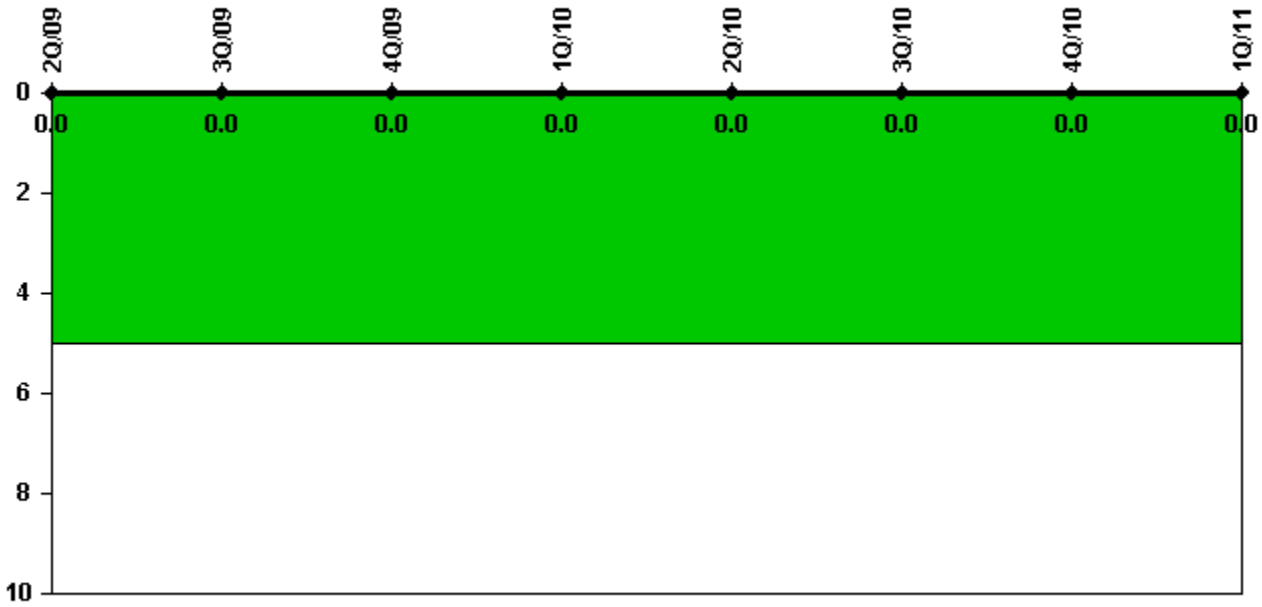
Thresholds: White > 1.0

### 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 (PWR)



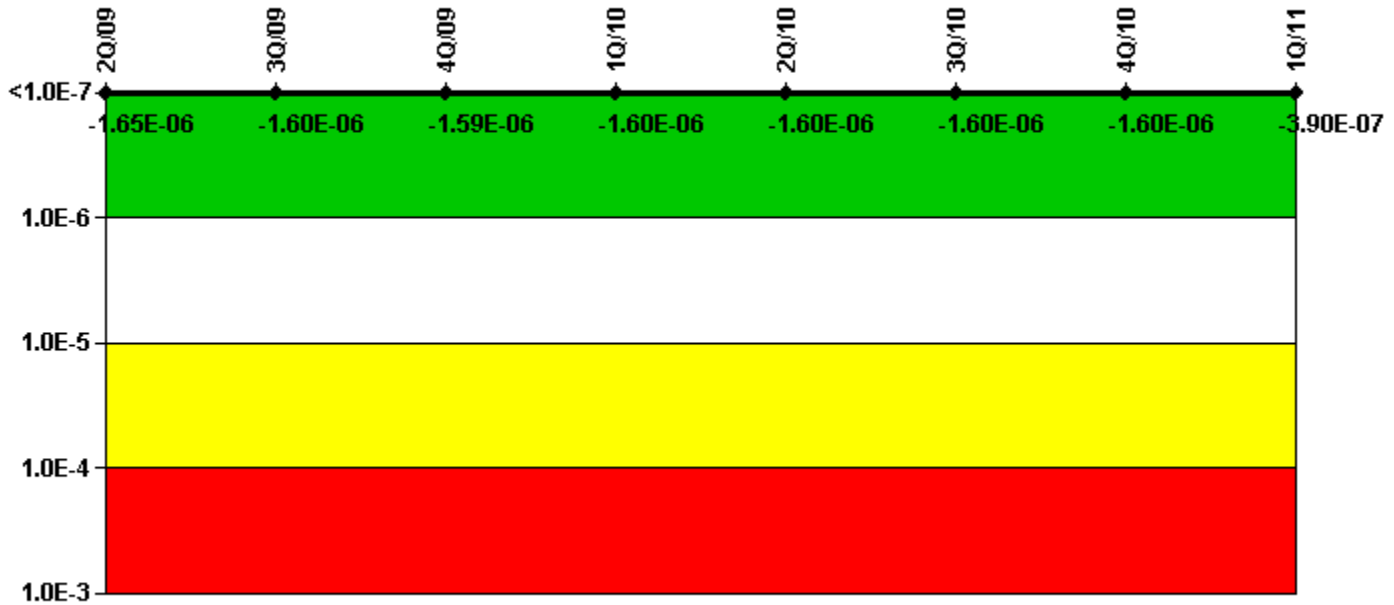
Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/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

# Mitigating Systems Performance Index, Emergency AC Power System



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

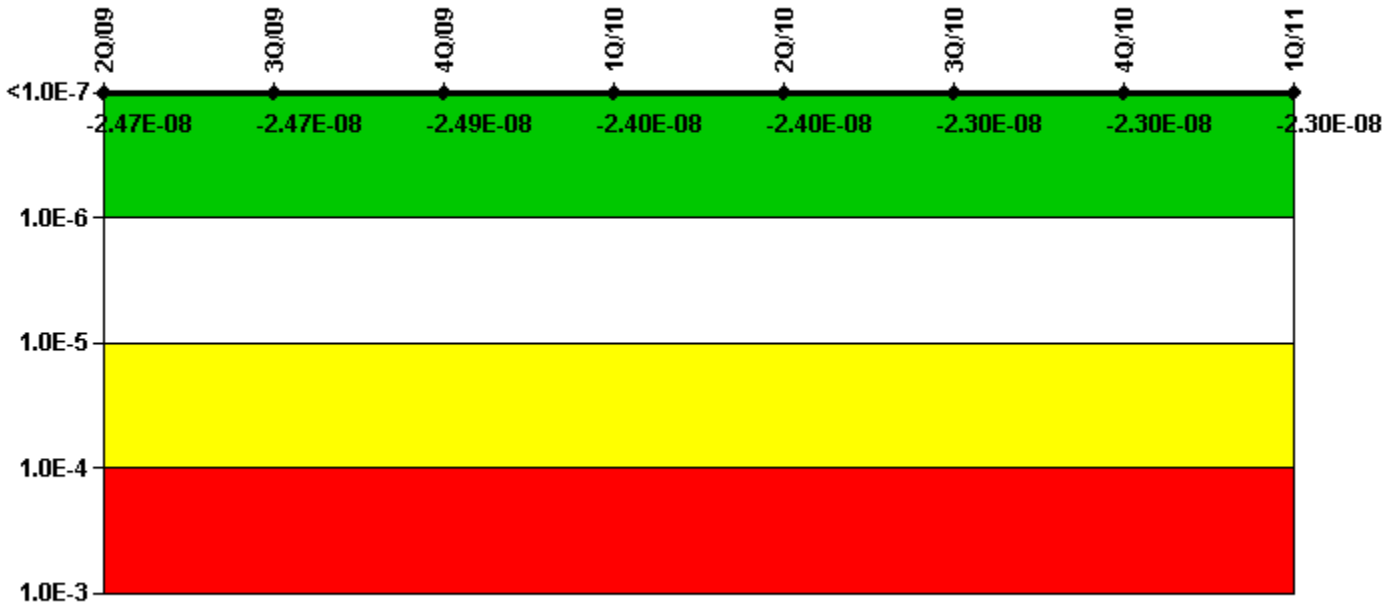
## Notes

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 ( $\Delta$ CDF)	-3.50E-07	-3.00E-07	-2.90E-07	-2.94E-07	-3.06E-07	-3.14E-07	-3.14E-07	-8.66E-08
URI ( $\Delta$ CDF)	-1.30E-06	-1.30E-06	-1.30E-06	-1.28E-06	-1.28E-06	-1.29E-06	-1.29E-06	-3.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.65E-06	-1.60E-06	-1.59E-06	-1.60E-06	-1.60E-06	-1.60E-06	-1.60E-06	-3.90E-07

Licensee Comments:

1Q/11: First Quarter 2011 data includes new MSPI coefficient changes associated with modeling of Auxiliary Power Diesel Generators into an updated CPNPP MSPI Basis Document and the latest CPNPP PRA Model Revision.

# Mitigating Systems Performance Index, High Pressure Injection System



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

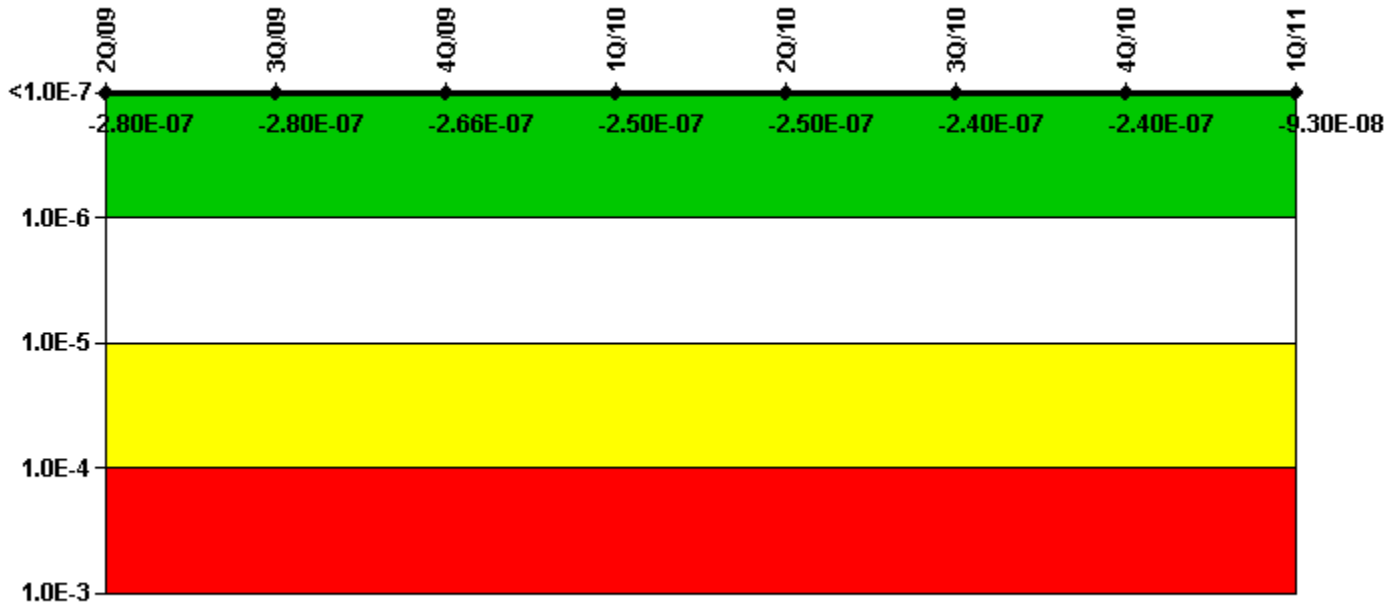
## Notes

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 ( $\Delta$ CDF)	-1.50E-08	-1.50E-08	-1.50E-08	-1.42E-08	-1.42E-08	-1.32E-08	-1.34E-08	-1.23E-08
URI ( $\Delta$ CDF)	-9.70E-09	-9.70E-09	-9.90E-09	-9.90E-09	-9.91E-09	-1.00E-08	-1.00E-08	-1.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.47E-08	-2.47E-08	-2.49E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08	-2.30E-08

Licensee Comments:

1Q/11: First Quarter 2011 data includes new MSPI coefficient changes associated with modeling of Auxiliary Power Diesel Generators into an updated CPNPP MSPI Basis Document and the latest CPNPP PRA Model Revision.

# Mitigating Systems Performance Index, Heat Removal System



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

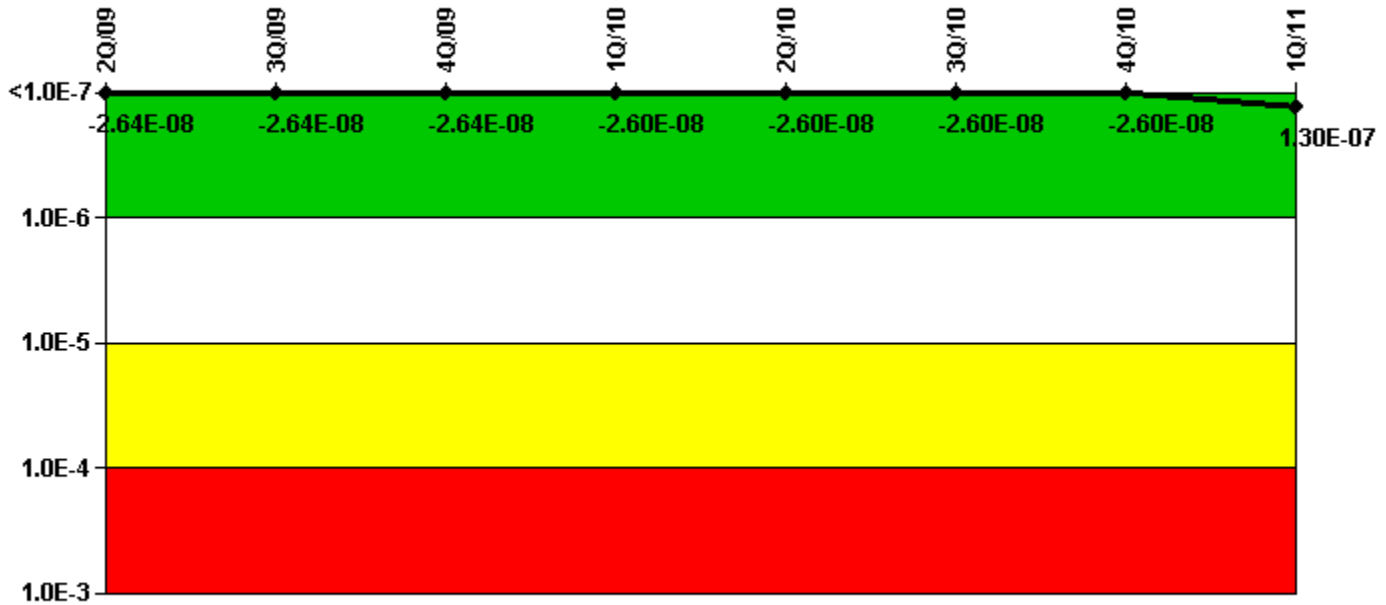
## Notes

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)	-1.70E-07	-1.70E-07	-1.70E-07	-1.66E-07	-1.51E-07	-1.51E-07	-1.51E-07	-3.97E-08
URI ( $\Delta$ CDF)	-1.10E-07	-1.10E-07	-9.60E-08	-8.60E-08	-9.44E-08	-9.09E-08	-9.08E-08	-5.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.80E-07	-2.80E-07	-2.66E-07	-2.50E-07	-2.50E-07	-2.40E-07	-2.40E-07	-9.30E-08

Licensee Comments:

1Q/11: First Quarter 2011 data includes new MSPI coefficient changes associated with modeling of Auxiliary Power Diesel Generators into an updated CPNPP MSPI Basis Document and the latest CPNPP PRA Model Revision.

# Mitigating Systems Performance Index, Residual Heat Removal System



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

## Notes

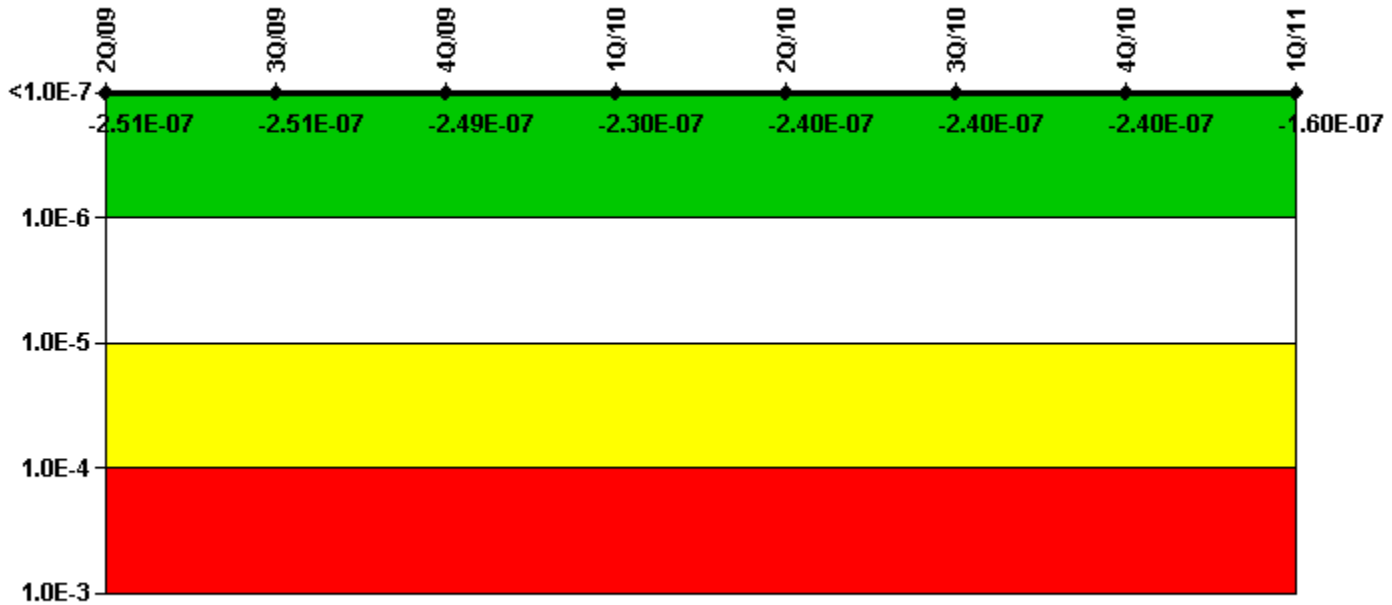
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI ( $\Delta$ CDF)	-4.30E-10	-4.30E-10	-4.00E-10	-4.02E-10	-4.02E-10	-4.02E-10	-4.02E-10	-7.36E-09
URI ( $\Delta$ CDF)	-2.60E-08	-2.60E-08	-2.60E-08	-2.59E-08	-2.59E-08	-2.59E-08	-2.59E-08	1.37E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.64E-08	-2.64E-08	-2.64E-08	-2.60E-08	-2.60E-08	-2.60E-08	-2.60E-08	1.30E-07

Licensee Comments:

1Q/11: First Quarter 2011 data includes new MSPI coefficient changes associated with modeling of Auxiliary Power Diesel Generators into an updated CPNPP MSPI Basis Document and the latest CPNPP PRA Model Revision.



# Mitigating Systems Performance Index, Cooling Water Systems



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

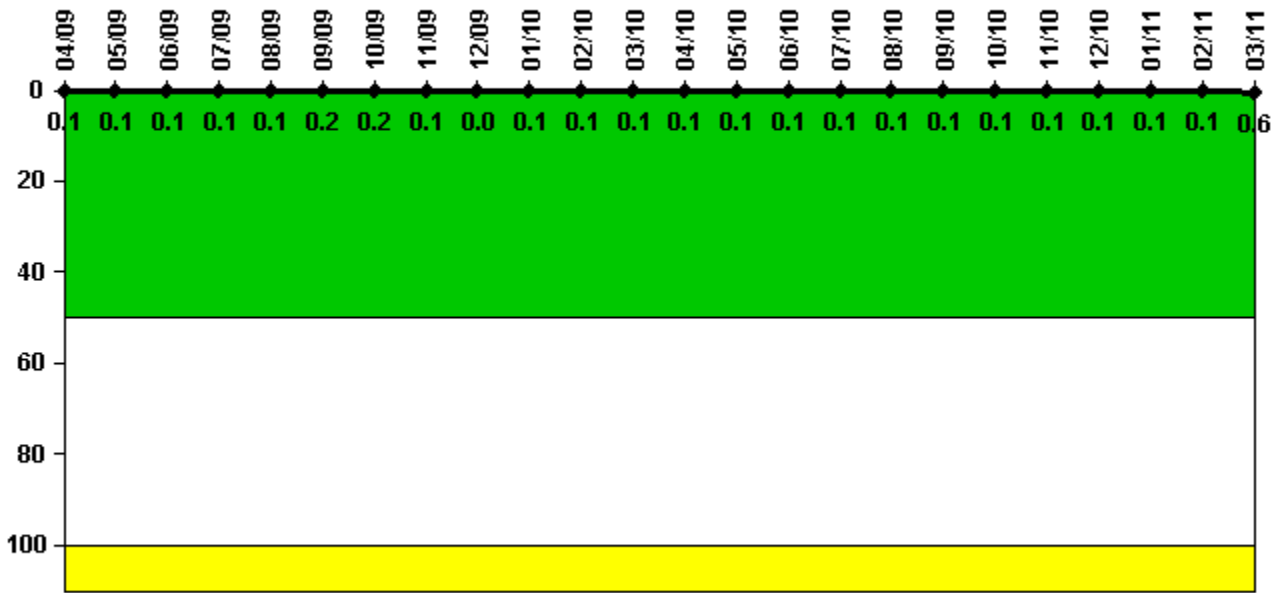
## Notes

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)	-1.80E-07	-1.80E-07	-1.80E-07	-1.66E-07	-1.64E-07	-1.66E-07	-1.66E-07	-1.12E-07
URI ( $\Delta$ CDF)	-7.10E-08	-7.10E-08	-6.90E-08	-6.85E-08	-7.20E-08	-7.12E-08	-7.19E-08	-4.47E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.51E-07	-2.51E-07	-2.49E-07	-2.30E-07	-2.40E-07	-2.40E-07	-2.40E-07	-1.60E-07

Licensee Comments:

1Q/11: First Quarter 2011 data includes new MSPI coefficient changes associated with modeling of Auxiliary Power Diesel Generators into an updated CPNPP MSPI Basis Document and the latest CPNPP PRA Model Revision.

# Reactor Coolant System Activity



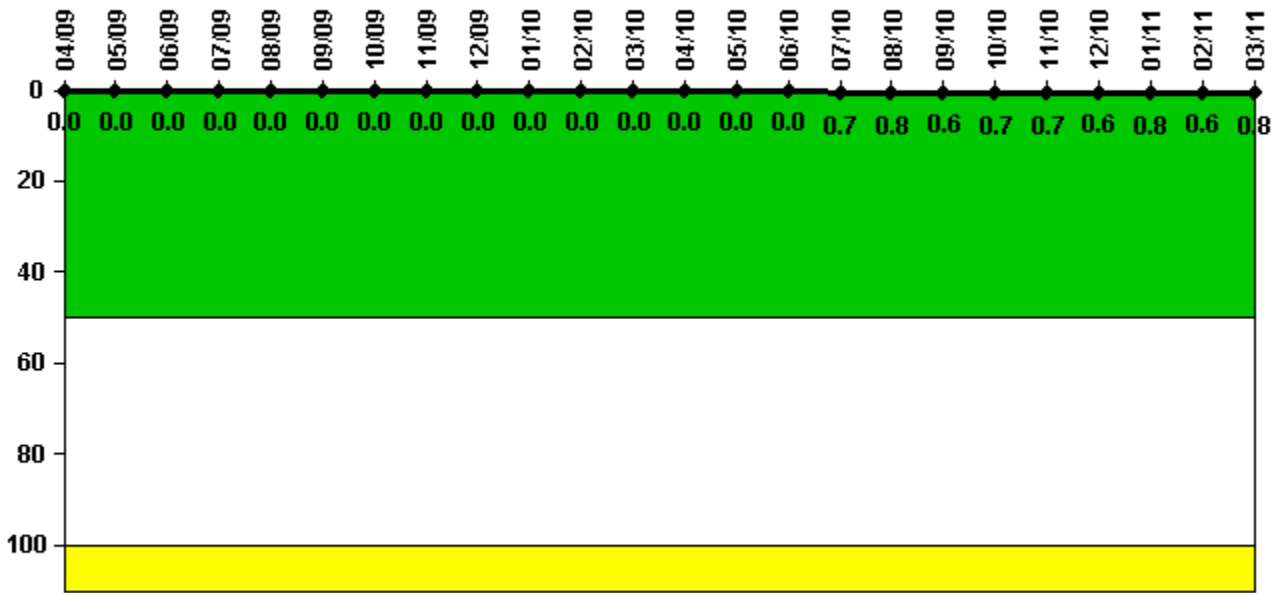
Thresholds: White > 50.0 Yellow > 100.0

## 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	0.000415	0.000384	0.000398	0.000421	0.000415	0.000796	0.000972	0.000239	0.000219	0.000231	0.000248	0.000296
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	0.1	0.1	0.2	0.2	0.1	0	0.1	0.1	0.1
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	0.000285	0.000243	0.000256	0.000299	0.000266	0.000288	0.000280	0.000285	0.000293	0.000295	0.000307	0.002730
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6

Licensee Comments: none

## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

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	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0

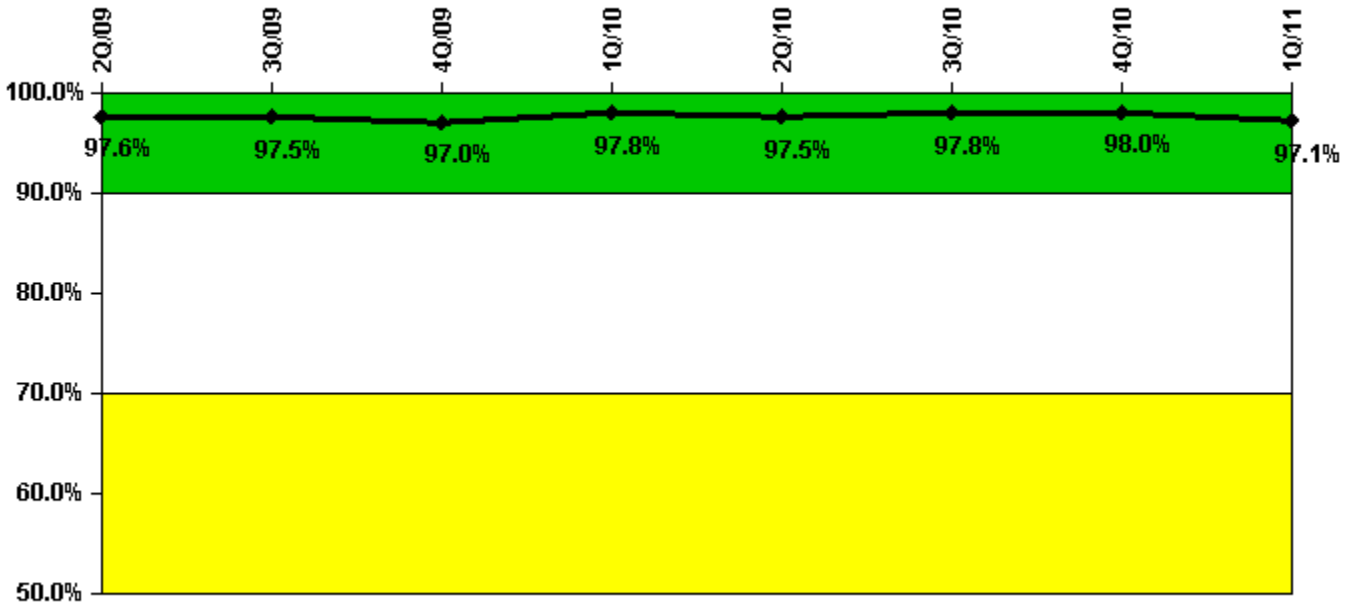
  

Reactor Coolant System Leakage	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum leakage	0	0	0	0.068	0.080	0.062	0.073	0.067	0.060	0.075	0.055	0.076
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0.7	0.8	0.6	0.7	0.7	0.6	0.8	0.6	0.8

Licensee Comments:

3/11: RCS Total Leakage is being reported as identified leakage.

## Drill/Exercise Performance



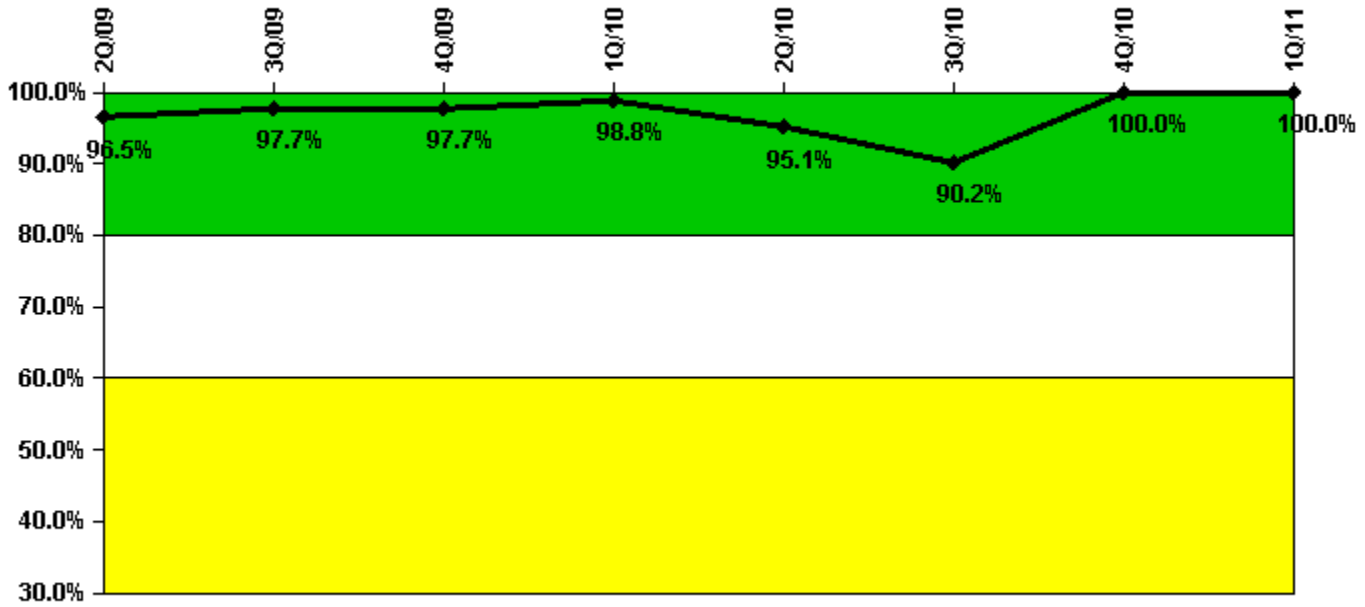
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	49.0	20.0	8.0	6.0	8.0	13.0	10.0	19.0
Total opportunities	51.0	20.0	8.0	6.0	9.0	13.0	10.0	20.0
Indicator value	97.6%	97.5%	97.0%	97.8%	97.5%	97.8%	98.0%	97.1%

Licensee Comments: none

## ERO Drill Participation



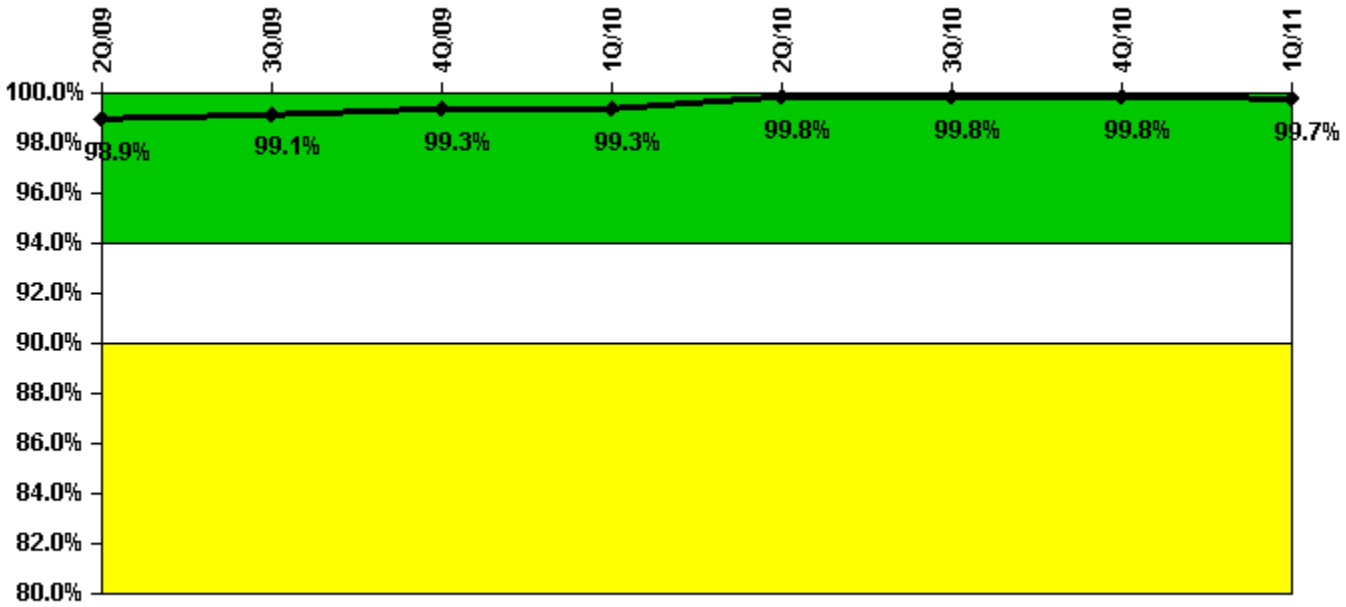
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	83.0	84.0	85.0	82.0	77.0	74.0	82.0	84.0
Total Key personnel	86.0	86.0	87.0	83.0	81.0	82.0	82.0	84.0
Indicator value	96.5%	97.7%	97.7%	98.8%	95.1%	90.2%	100.0%	100.0%

Licensee Comments: none

# Alert & Notification System



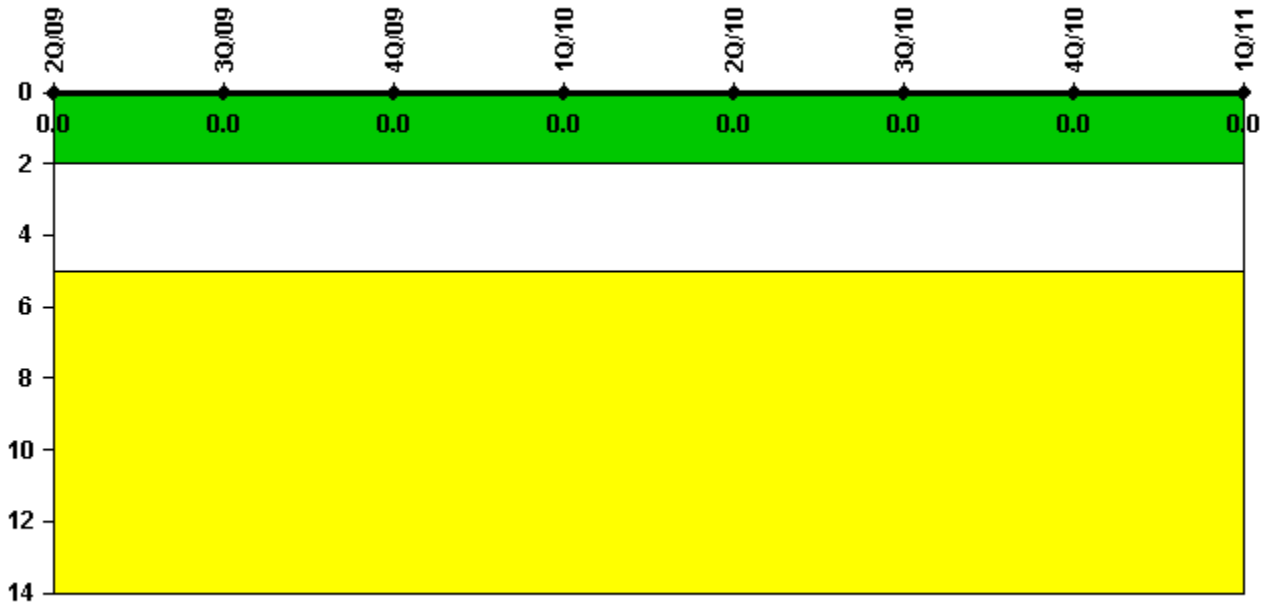
**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	424	430	428	432	432	430	429	430
Total sirens-tests	432	432	430	432	432	432	430	432
Indicator value	98.9%	99.1%	99.3%	99.3%	99.8%	99.8%	99.8%	99.7%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



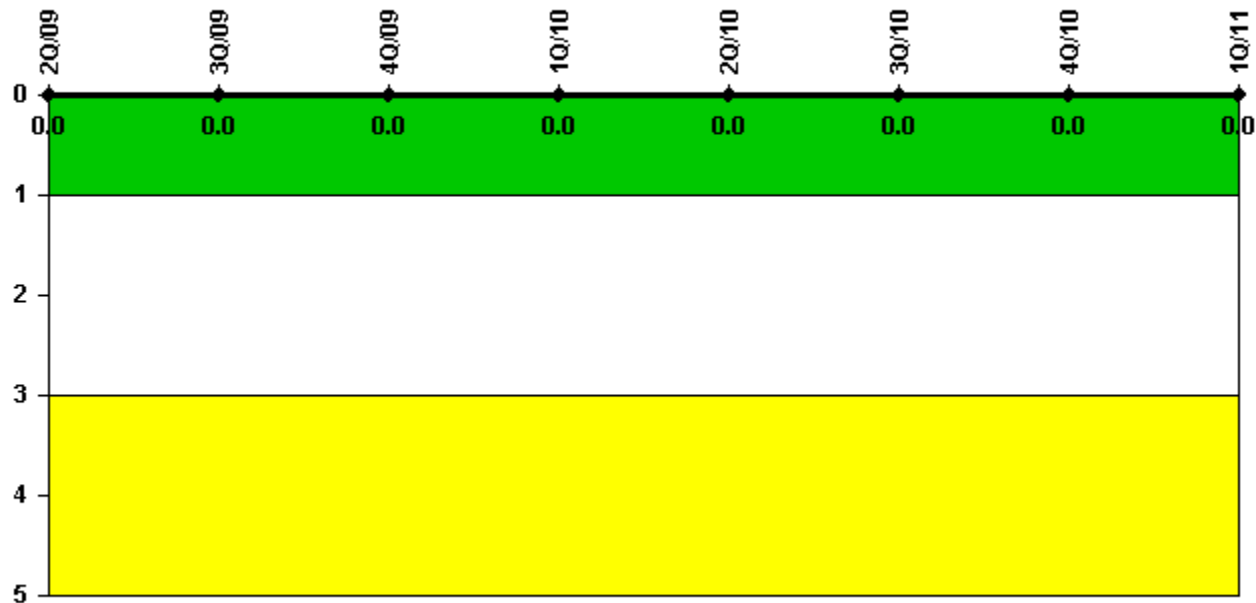
Thresholds: White > 2.0 Yellow > 5.0

## 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

## 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.