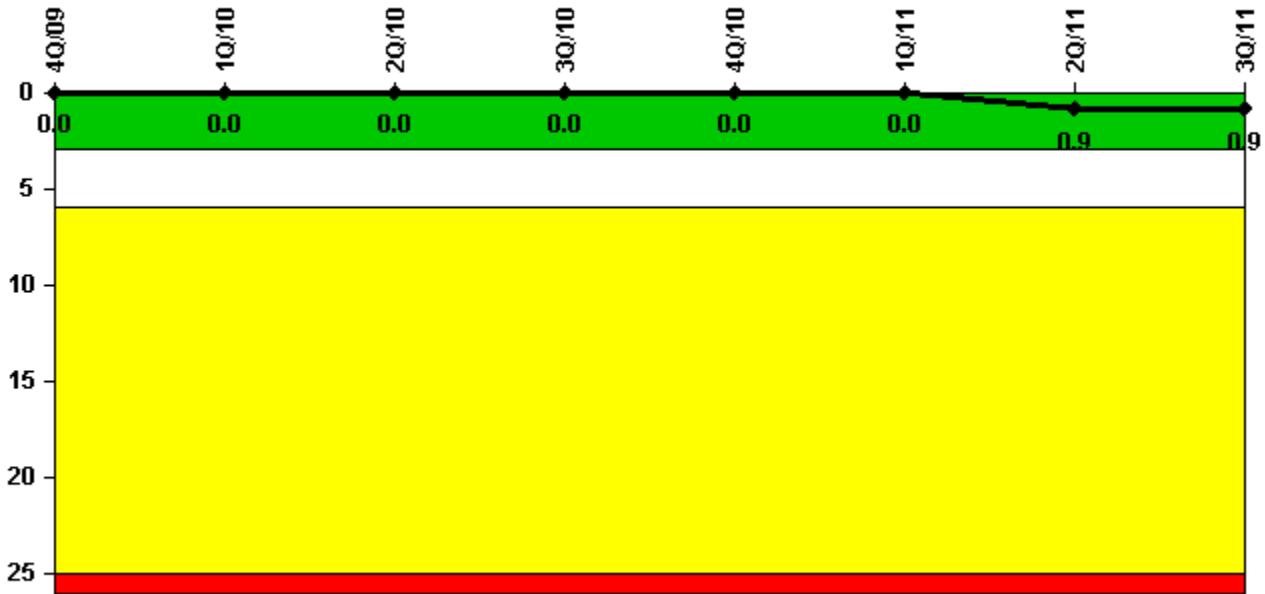


# Comanche Peak 2

## 3Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



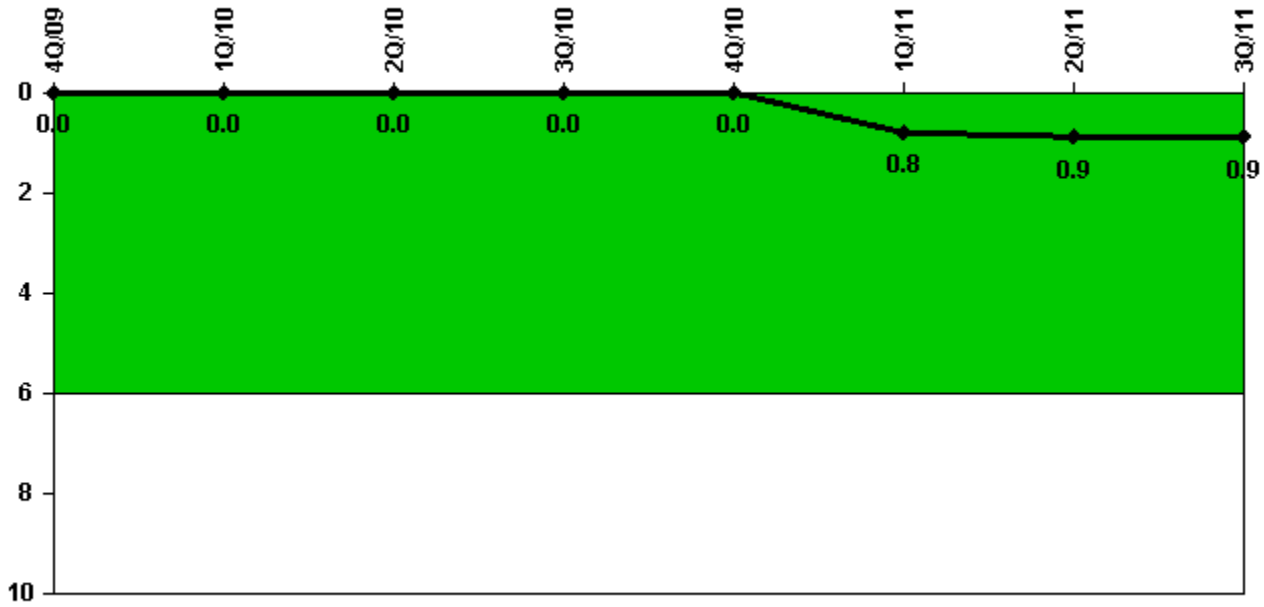
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	1634.6	2159.0	2184.0	2208.0	2209.0	2159.0	1553.2	2208.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	1634.6	2159.0	2184.0	2208.0	2209.0	2159.0	1553.2	2208.0
Indicator value	0	0	0	0	0	0.8	0.9	0.9

Licensee Comments: none

# Unplanned Scrams with Complications



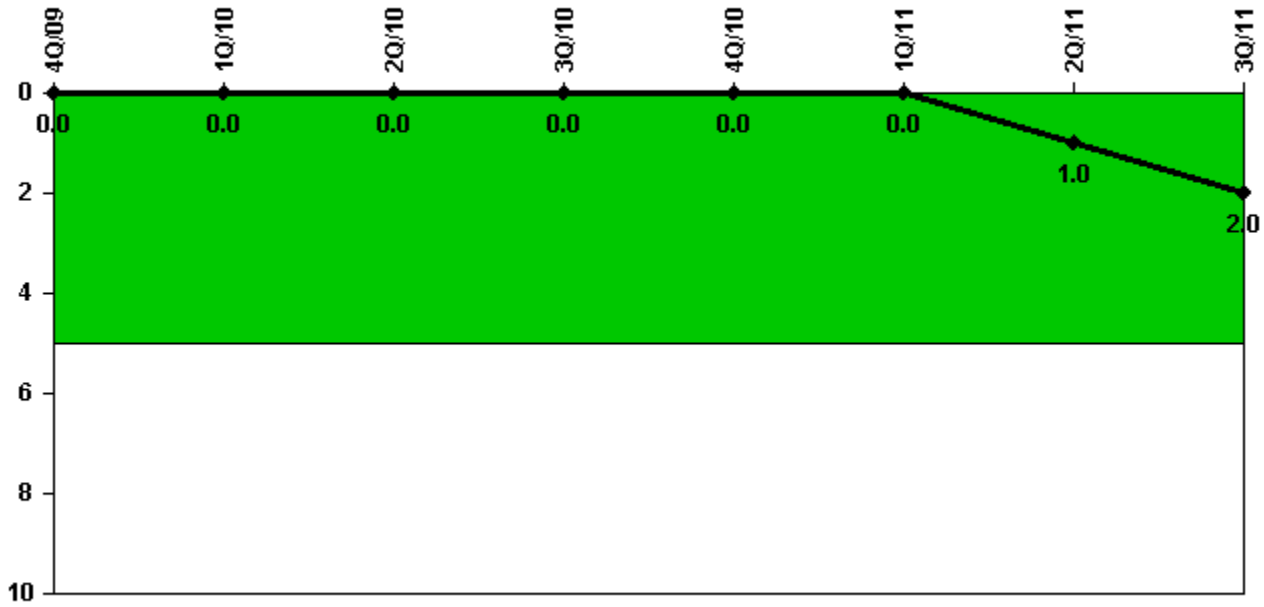
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/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

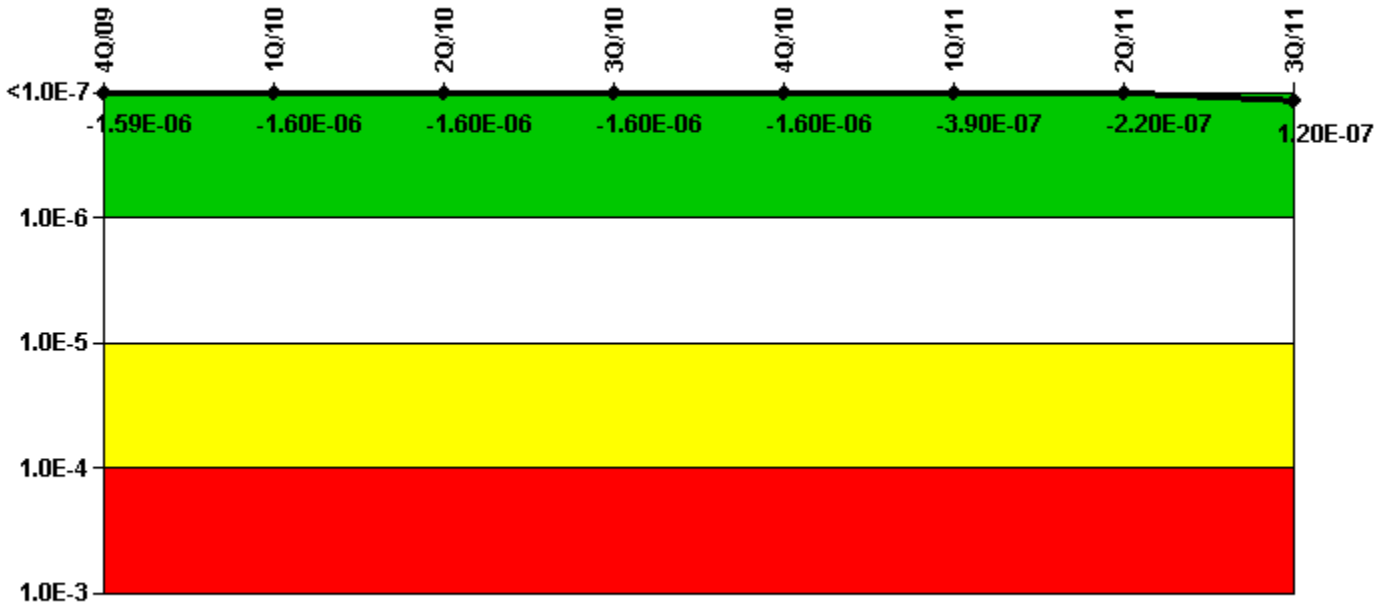
### Notes

Safety System Functional Failures (PWR)	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Safety System Functional Failures	0	0	0	0	0	0	1	1
Indicator value	0	0	0	0	0	0	1	2

Licensee Comments:

3Q/11: LER 446/11-003-00

# Mitigating Systems Performance Index, Emergency AC Power System



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

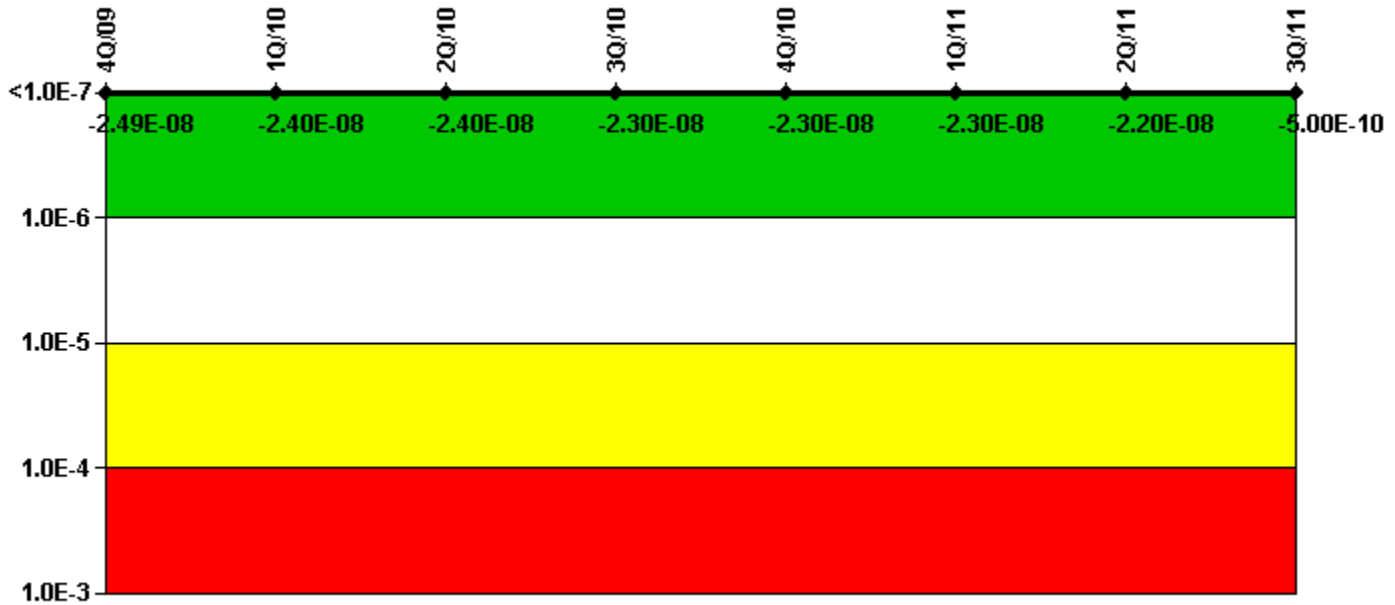
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	-2.90E-07	-2.94E-07	-3.06E-07	-3.14E-07	-3.14E-07	-8.66E-08	-5.64E-08	-2.57E-08
URI ( $\Delta$ CDF)	-1.30E-06	-1.28E-06	-1.28E-06	-1.29E-06	-1.29E-06	-3.02E-07	-1.67E-07	1.44E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.59E-06	-1.60E-06	-1.60E-06	-1.60E-06	-1.60E-06	-3.90E-07	-2.20E-07	1.20E-07

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

# Mitigating Systems Performance Index, High Pressure Injection System



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

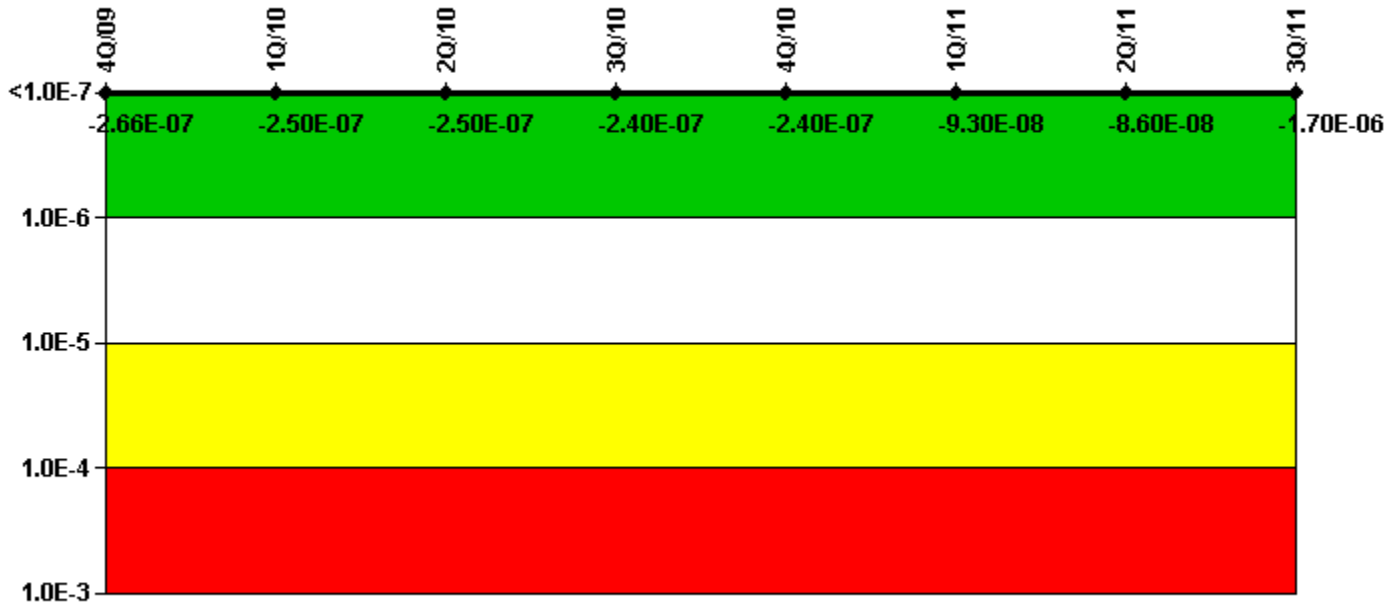
## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	-1.50E-08	-1.42E-08	-1.42E-08	-1.32E-08	-1.34E-08	-1.23E-08	-1.23E-08	-1.57E-10
URI ( $\Delta$ CDF)	-9.90E-09	-9.90E-09	-9.91E-09	-1.00E-08	-1.00E-08	-1.05E-08	-1.01E-08	-3.43E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.49E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.20E-08	-5.00E-10

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

# Mitigating Systems Performance Index, Heat Removal System



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

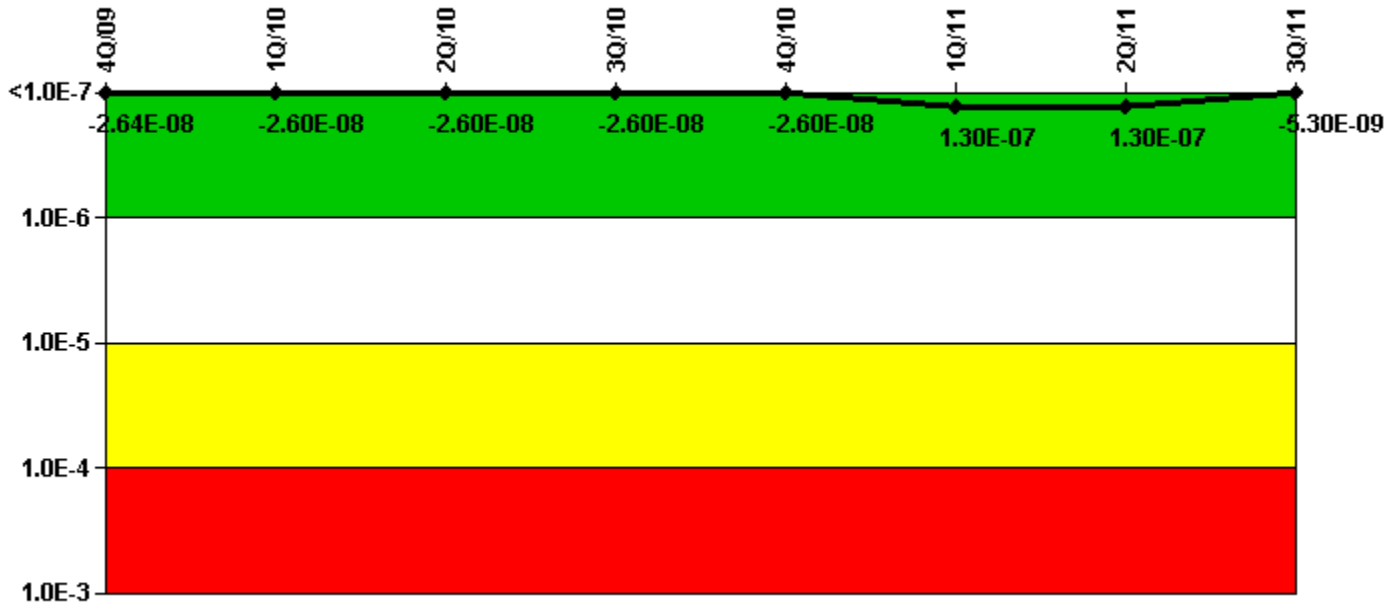
## Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	-1.70E-07	-1.66E-07	-1.51E-07	-1.51E-07	-1.51E-07	-3.97E-08	-3.05E-08	-1.44E-06
URI ( $\Delta$ CDF)	-9.60E-08	-8.60E-08	-9.44E-08	-9.09E-08	-9.08E-08	-5.36E-08	-5.55E-08	-2.41E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.66E-07	-2.50E-07	-2.50E-07	-2.40E-07	-2.40E-07	-9.30E-08	-8.60E-08	-1.70E-06

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

# Mitigating Systems Performance Index, Residual Heat Removal System



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

## Notes

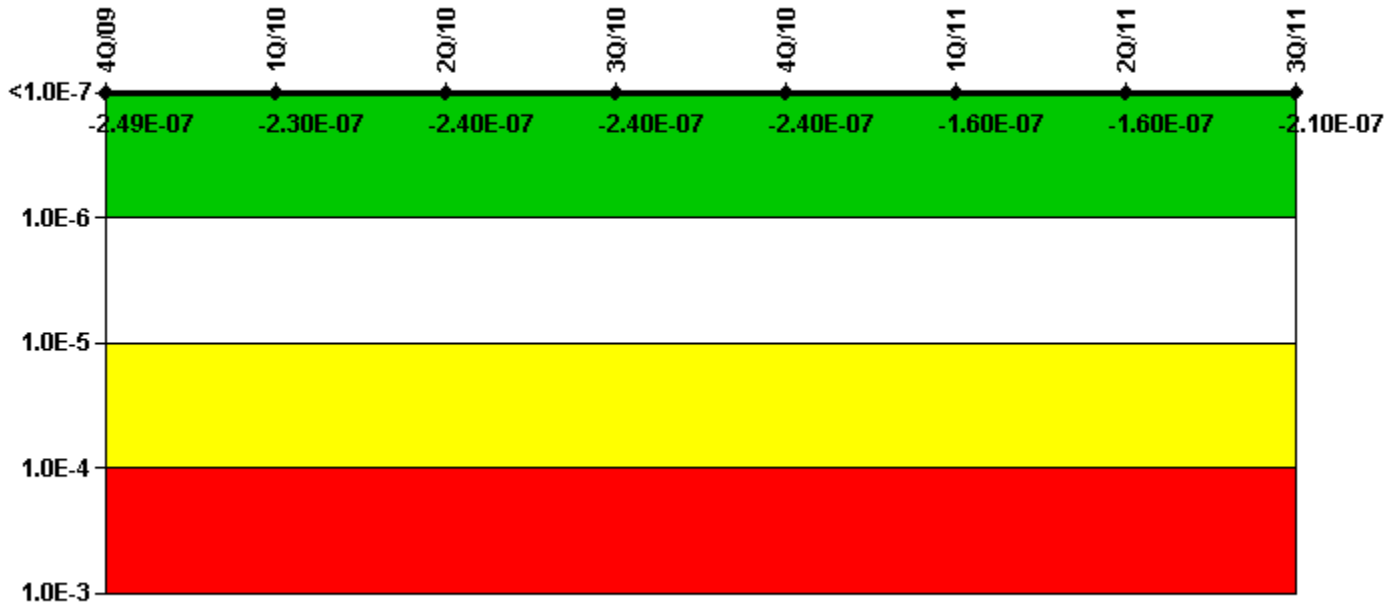
Mitigating Systems Performance Index, Residual Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	-4.00E-10	-4.02E-10	-4.02E-10	-4.02E-10	-4.02E-10	-7.36E-09	-7.36E-09	-1.38E-09
URI ( $\Delta$ CDF)	-2.60E-08	-2.59E-08	-2.59E-08	-2.59E-08	-2.59E-08	1.37E-07	1.37E-07	-3.89E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.64E-08	-2.60E-08	-2.60E-08	-2.60E-08	-2.60E-08	1.30E-07	1.30E-07	-5.30E-09

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.



# Mitigating Systems Performance Index, Cooling Water Systems



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

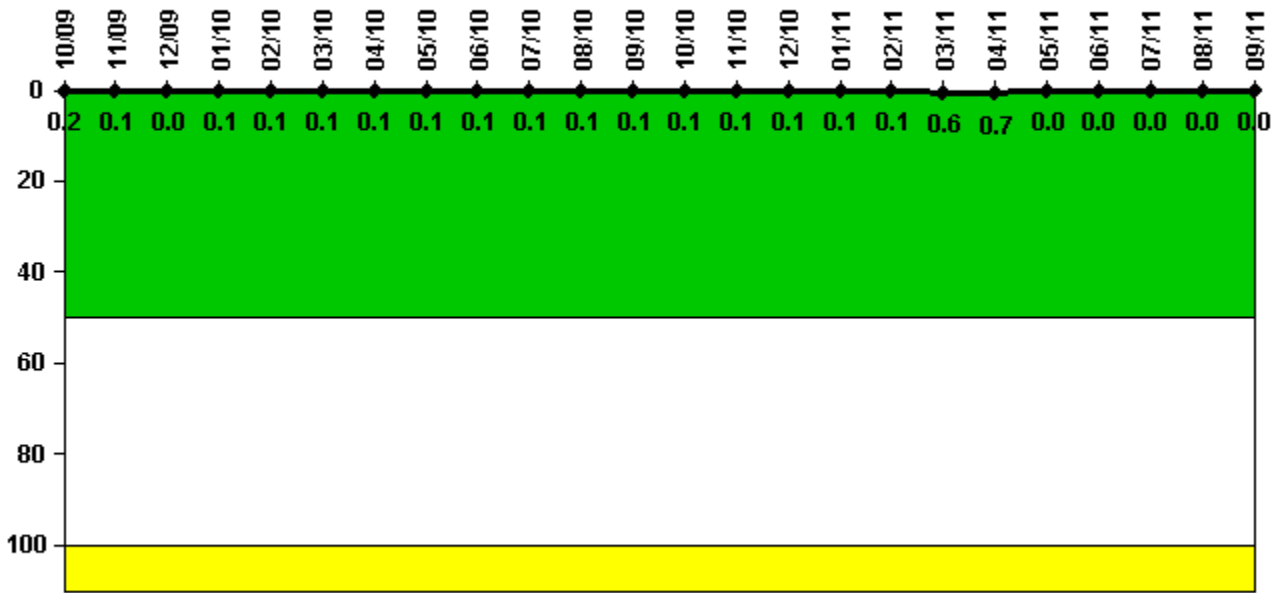
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	-1.80E-07	-1.66E-07	-1.64E-07	-1.66E-07	-1.66E-07	-1.12E-07	-1.12E-07	-9.47E-08
URI ( $\Delta$ CDF)	-6.90E-08	-6.85E-08	-7.20E-08	-7.12E-08	-7.19E-08	-4.47E-08	-4.34E-08	-1.13E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.49E-07	-2.30E-07	-2.40E-07	-2.40E-07	-2.40E-07	-1.60E-07	-1.60E-07	-2.10E-07

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

# Reactor Coolant System Activity



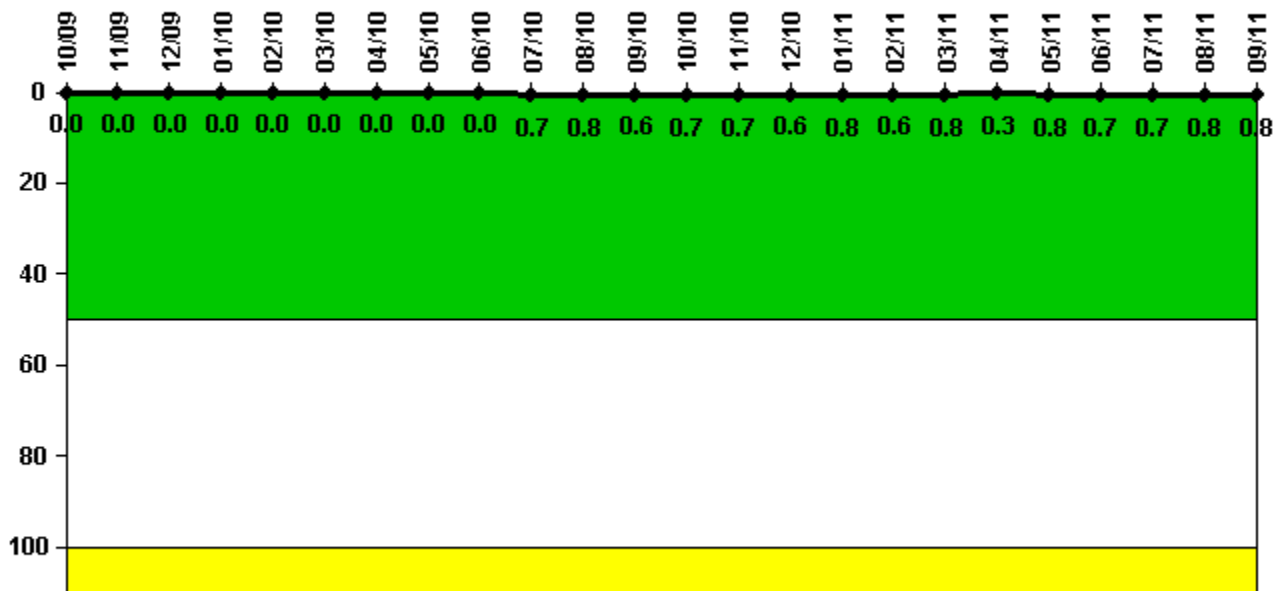
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum activity	0.000972	0.000239	0.000219	0.000231	0.000248	0.000296	0.000285	0.000243	0.000256	0.000299	0.000266	0.000288
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	0.2	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.000280	0.000285	0.000293	0.000295	0.000307	0.002730	0.003270	0.000115	0.000135	0.000140	0.000142	0.000147
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	0.6	0.7	0	0	0	0	0

Licensee Comments: none

## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum leakage	0	0	0	0	0	0	0	0	0	0.068	0.080	0.062
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	0.7	0.8	0.6

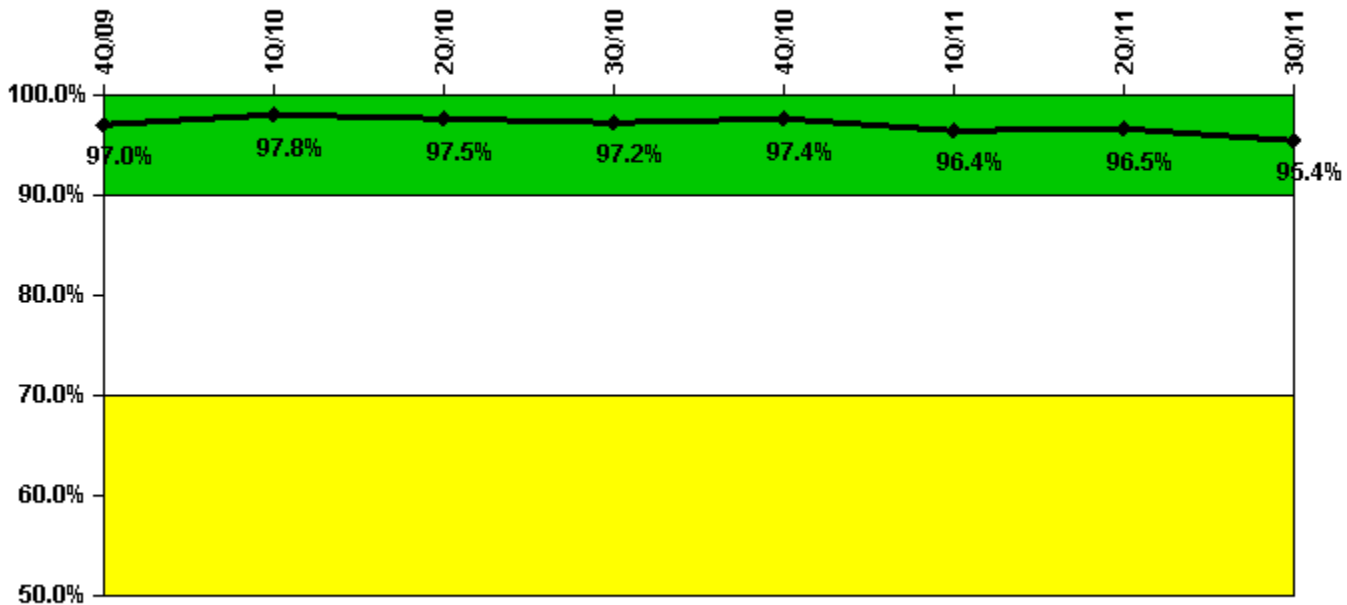
  

Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	0.073	0.067	0.060	0.075	0.055	0.076	0.029	0.076	0.066	0.070	0.075	0.077
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.7	0.6	0.8	0.6	0.8	0.3	0.8	0.7	0.7	0.8	0.8

Licensee Comments:

9/11: RCS Total Leakage is being reported as Identified Leakage.

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

### Notes

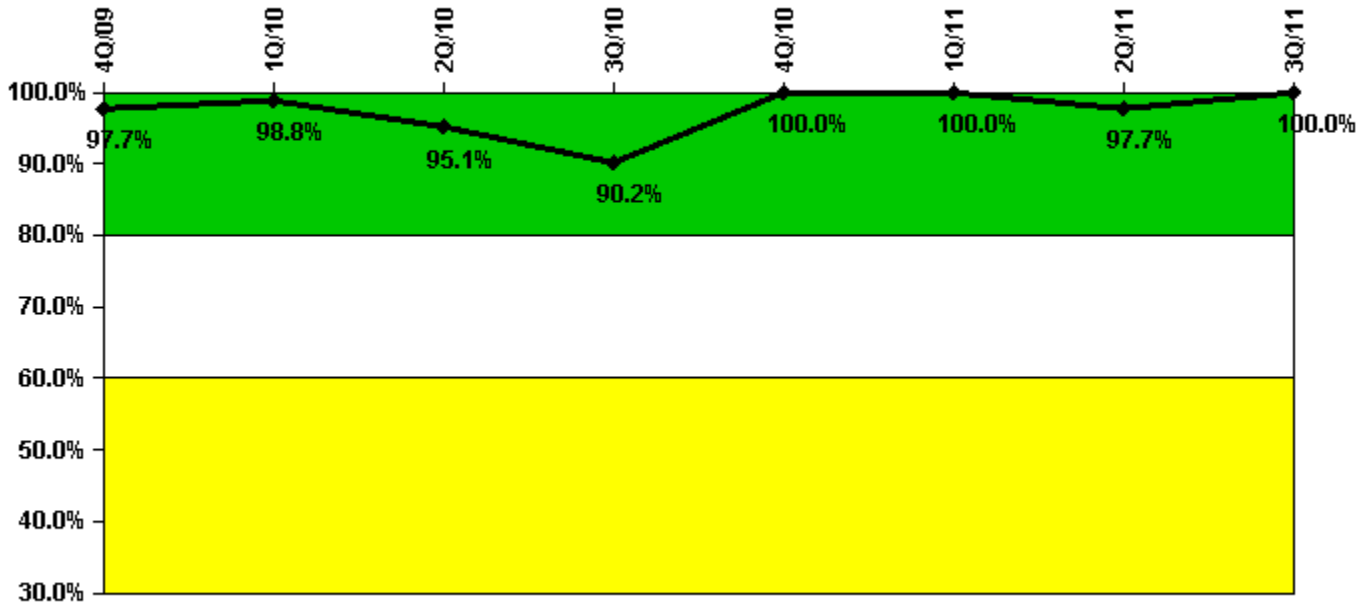
Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	8.0	6.0	8.0	15.0	10.0	19.0	23.0	35.0
Total opportunities	8.0	6.0	9.0	16.0	10.0	20.0	24.0	37.0
Indicator value	97.0%	97.8%	97.5%	97.2%	97.4%	96.4%	96.5%	95.4%

### Licensee Comments:

3Q/11: Based on NRC feedback during an inspection, the Emergency Preparedness Drill and Exercise Performance data has been changed for 3Q 2010 to include unexpected simulator drill opportunities that were not included in the original indicator data submission. This data change did not result in a change to the indicator color.

3Q/10: Based on NRC feedback during an inspection, the Emergency Preparedness Drill and Exercise Performance data has been changed for September to include unexpected simulator drill opportunities that were not included in the original indicator data submission.

## ERO Drill Participation



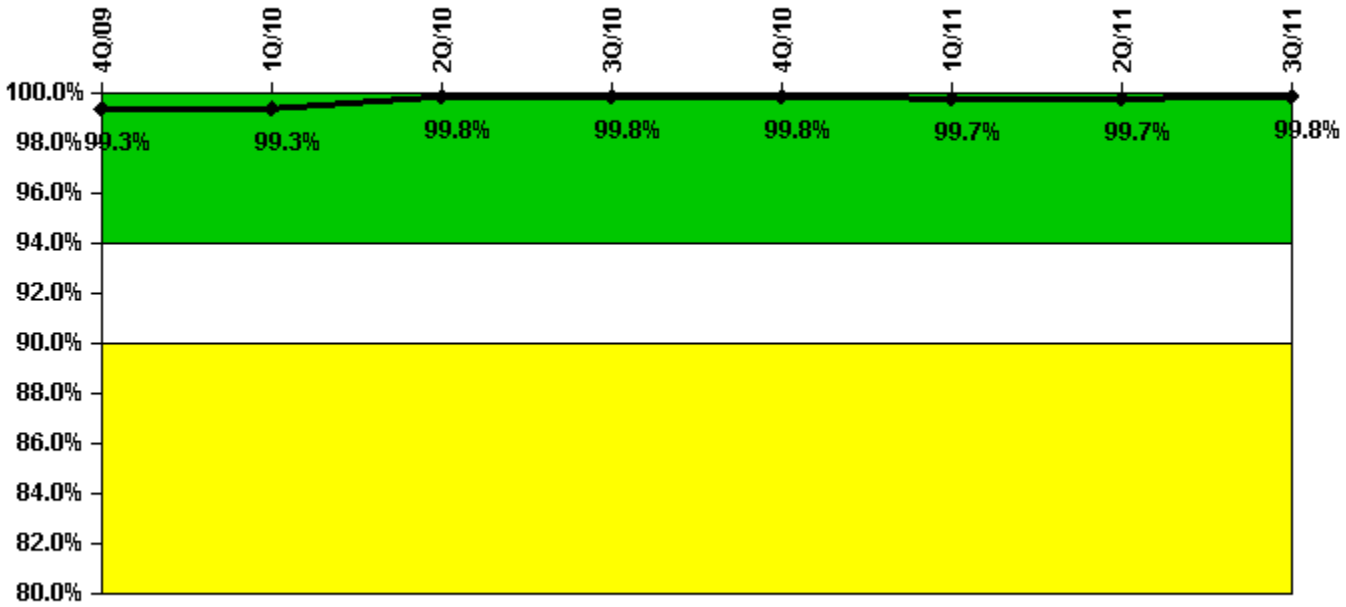
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

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

Licensee Comments: none

# Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	428	432	432	430	429	430	431	432
Total sirens-tests	430	432	432	432	430	432	432	432
Indicator value	99.3%	99.3%	99.8%	99.8%	99.8%	99.7%	99.7%	99.8%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



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

## Notes

Occupational Exposure Control Effectiveness	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/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	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/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.