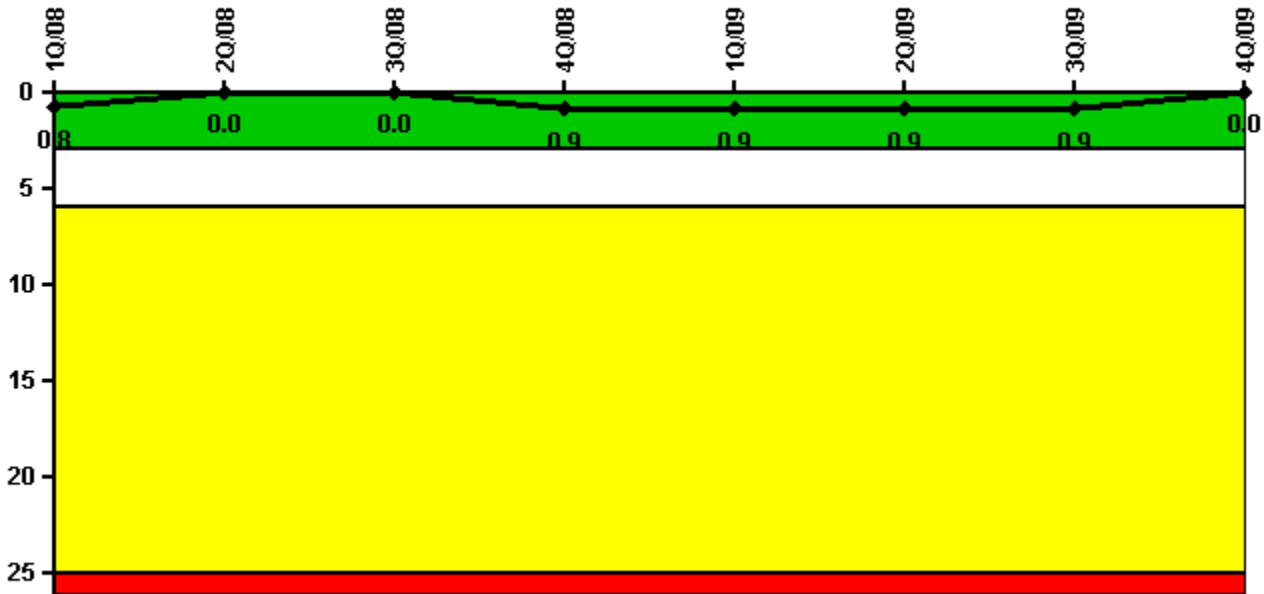


# Prairie Island 2

## 4Q/2009 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



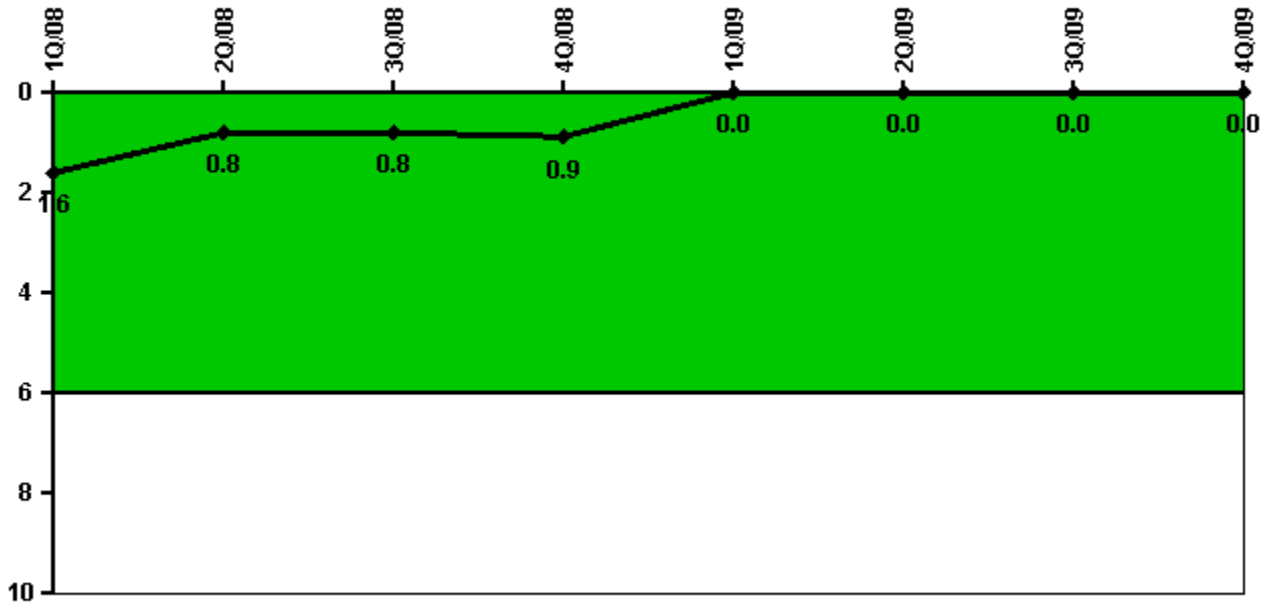
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2184.0	1942.7	1477.8	2159.0	2184.0	2208.0	2209.0
Indicator value	0.8	0	0	0.9	0.9	0.9	0.9	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



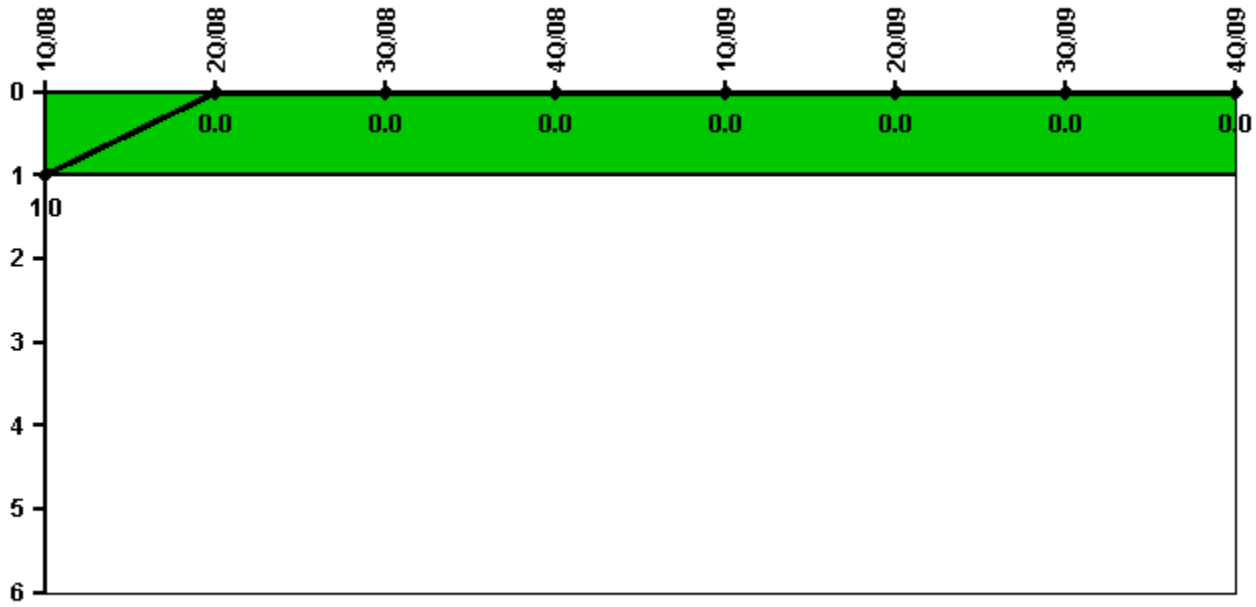
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	1942.7	1477.8	2159.0	2184.0	2208.0	2209.0
Indicator value	1.6	0.8	0.8	0.9	0	0	0	0

Licensee Comments: none

# Unplanned Scrams with Complications



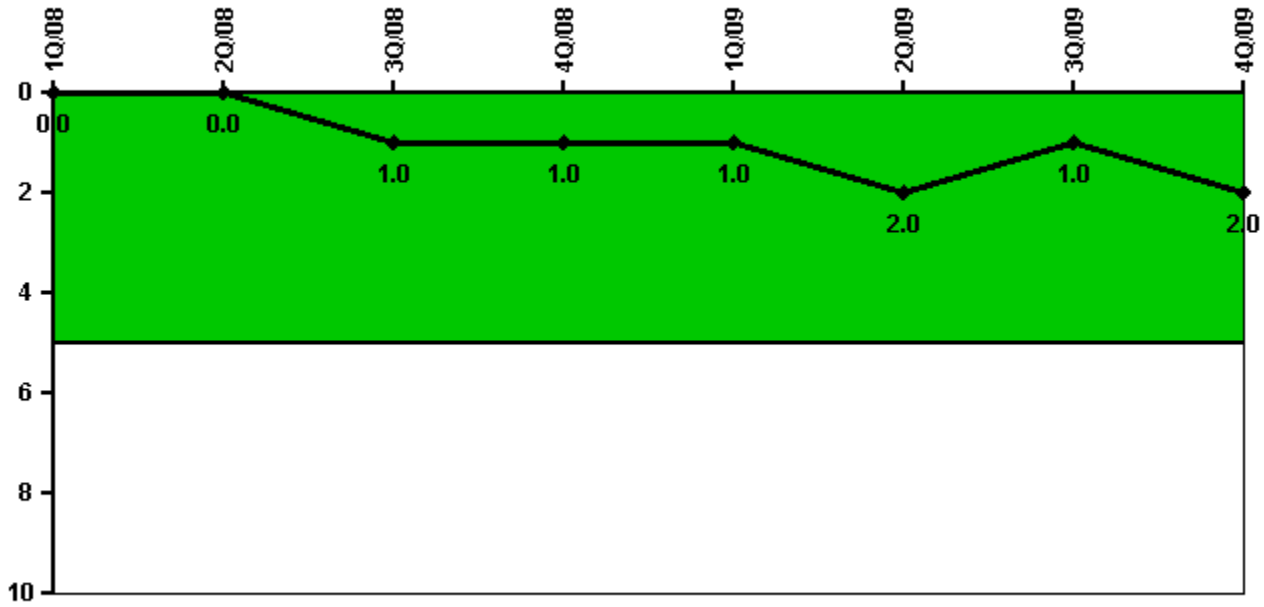
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	1.0	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

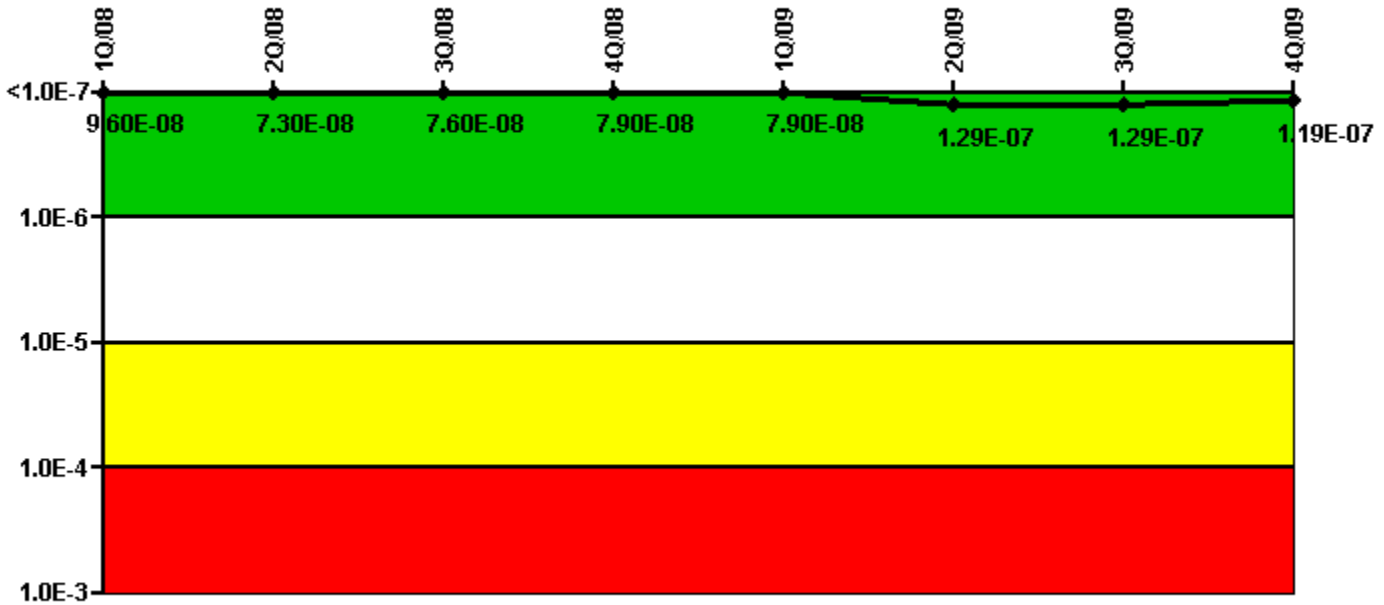
### Notes

Safety System Functional Failures (PWR)	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Safety System Functional Failures	0	0	1	0	0	1	0	1
Indicator value	0	0	1	1	1	2	1	2

Licensee Comments:

2Q/09: LER 1-09-04: 06/05/2009 Residual Heat Removal System Inoperability While in Mode 4 Due to Potential Steam Voiding.

# Mitigating Systems Performance Index, Emergency AC Power System



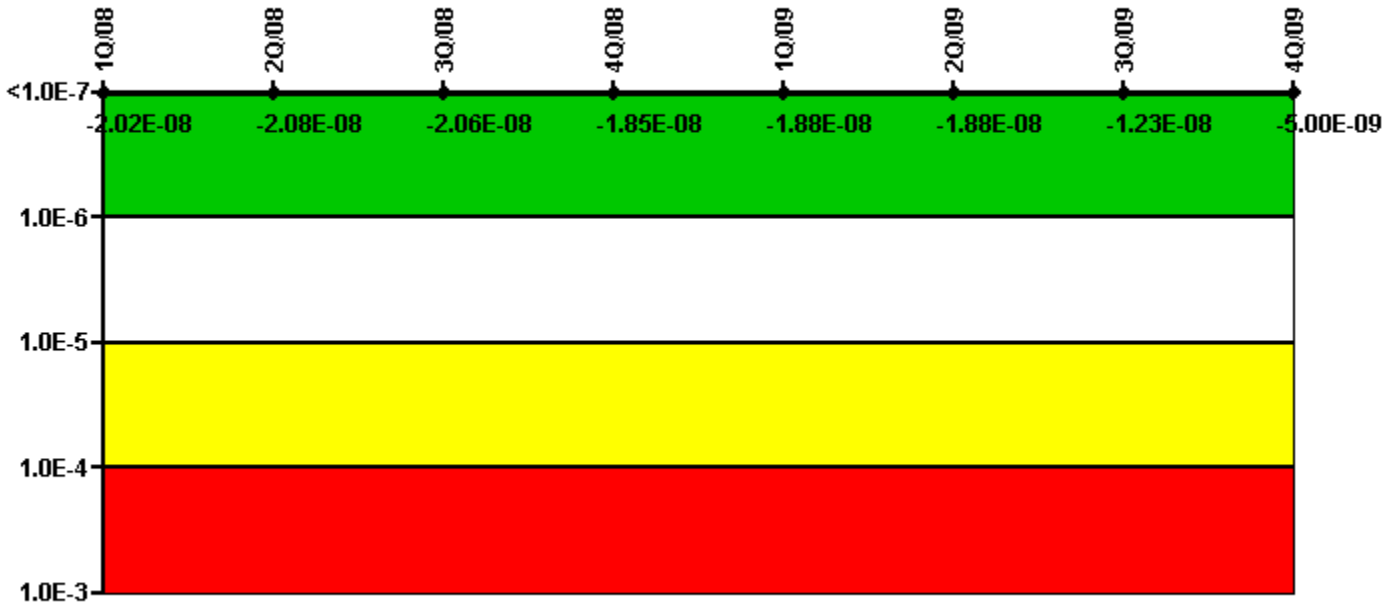
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	1.20E-07	9.60E-08	9.80E-08	1.00E-07	1.00E-07	1.50E-07	1.50E-07	1.40E-07
URI (ΔCDF)	-2.40E-08	-2.30E-08	-2.20E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.60E-08	7.30E-08	7.60E-08	7.90E-08	7.90E-08	1.29E-07	1.29E-07	1.19E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



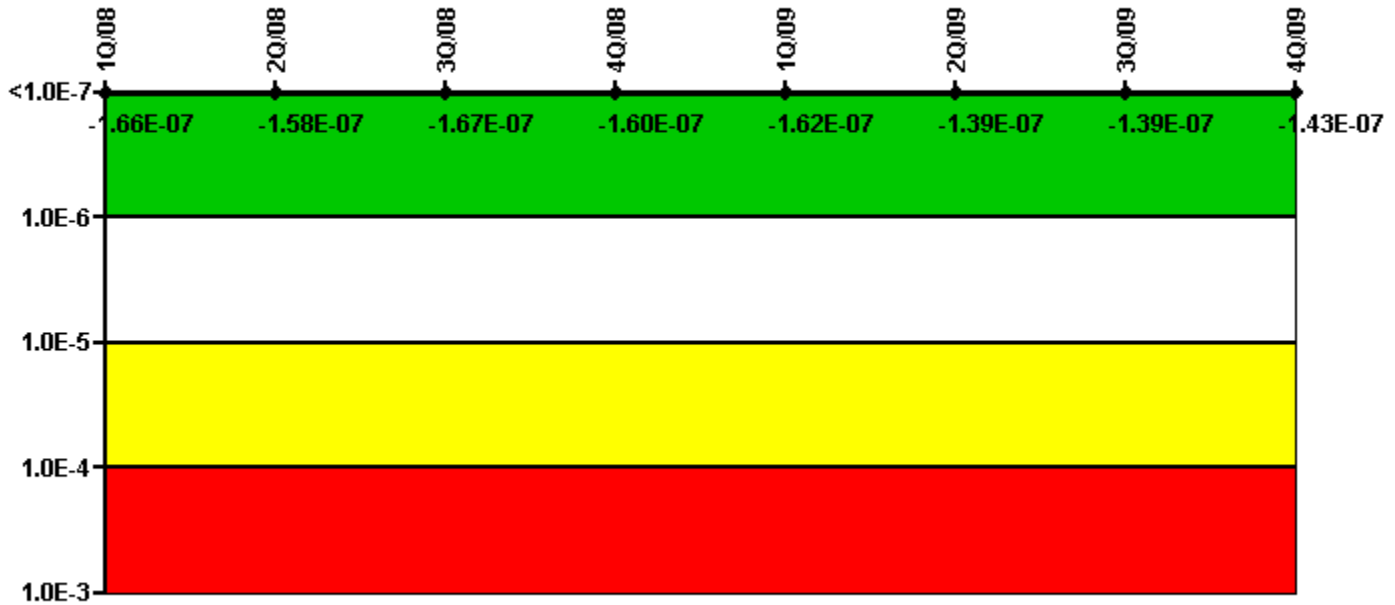
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	-3.20E-09	-3.80E-09	-3.60E-09	-1.50E-09	-1.80E-09	-1.80E-09	4.70E-09	1.20E-08
URI ( $\Delta$ CDF)	-1.70E-08	-1.70E-08	-1.70E-08	-1.70E-08	-1.70E-08	-1.70E-08	-1.70E-08	-1.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.02E-08	-2.08E-08	-2.06E-08	-1.85E-08	-1.88E-08	-1.88E-08	-1.23E-08	-5.00E-09

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



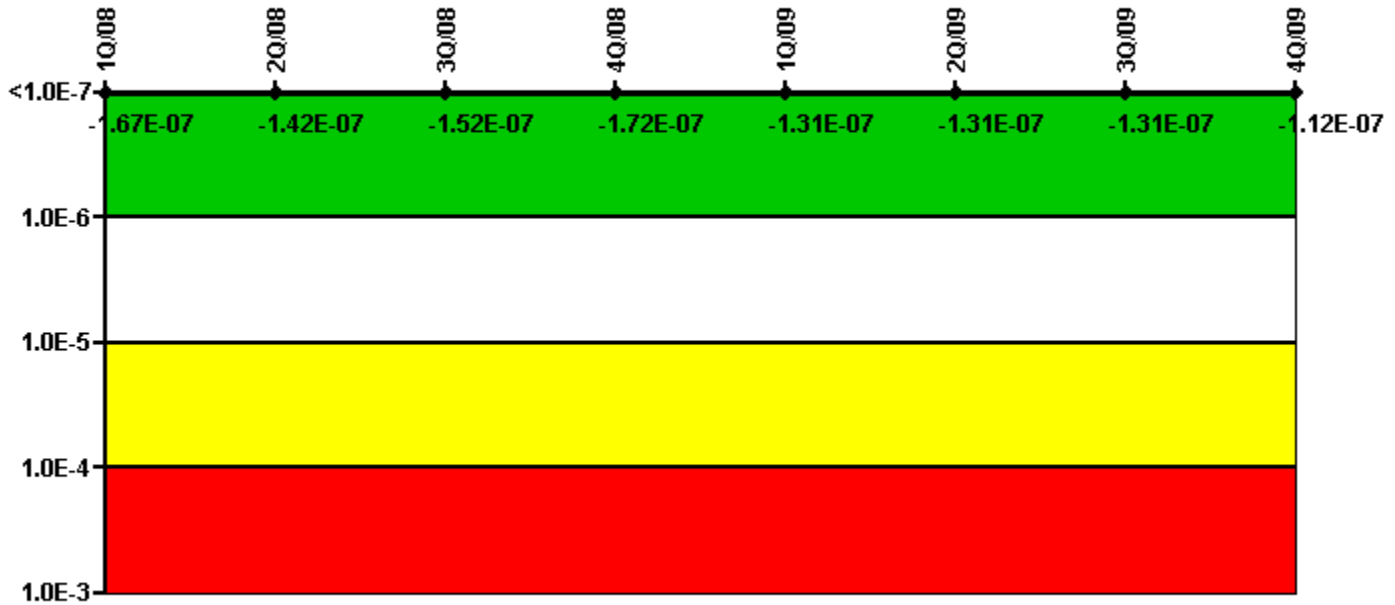
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	-2.60E-08	-2.80E-08	-3.70E-08	-3.00E-08	-3.20E-08	-9.00E-09	-9.00E-09	-1.30E-08
URI ( $\Delta$ CDF)	-1.40E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.66E-07	-1.58E-07	-1.67E-07	-1.60E-07	-1.62E-07	-1.39E-07	-1.39E-07	-1.43E-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

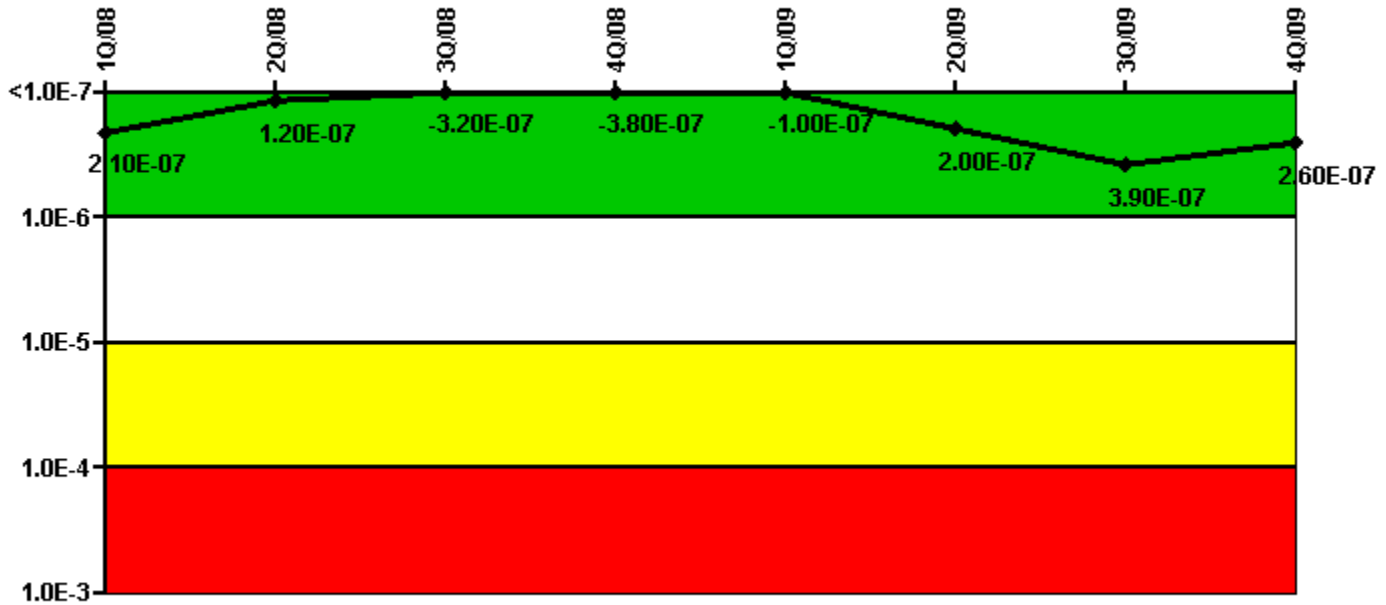
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	-1.70E-08	-2.20E-08	-2.20E-08	-2.20E-08	8.90E-09	8.90E-09	8.90E-09	8.10E-09
URI ( $\Delta$ CDF)	-1.50E-07	-1.20E-07	-1.30E-07	-1.50E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.67E-07	-1.42E-07	-1.52E-07	-1.72E-07	-1.31E-07	-1.31E-07	-1.31E-07	-1.12E-07

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



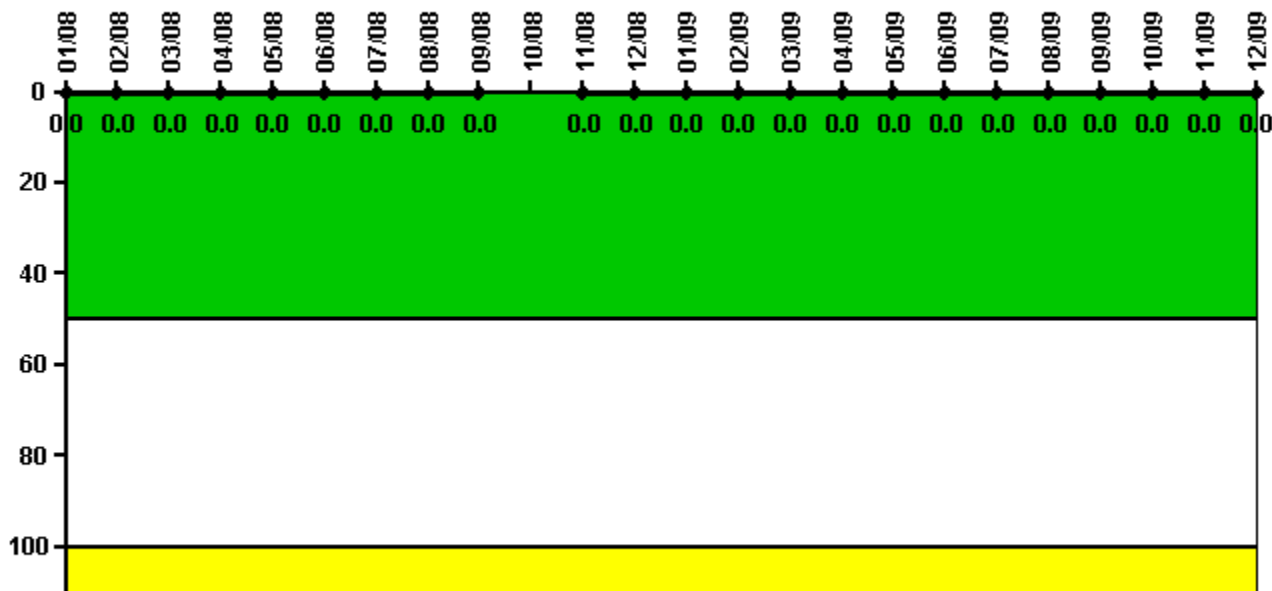
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	3.20E-07	2.20E-07	1.80E-07	1.30E-07	4.10E-07	6.70E-07	8.60E-07	7.40E-07
URI (ΔCDF)	-1.10E-07	-1.00E-07	-5.00E-07	-5.10E-07	-5.10E-07	-4.70E-07	-4.70E-07	-4.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.10E-07	1.20E-07	-3.20E-07	-3.80E-07	-1.00E-07	2.00E-07	3.90E-07	2.60E-07

Licensee Comments: none

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.000200	0.000210	0.000220	0.000220	0.000230	0.000230	0.000280	0.000240	0.000240	N/A	0.000120	0.000130
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	N/A	0	0

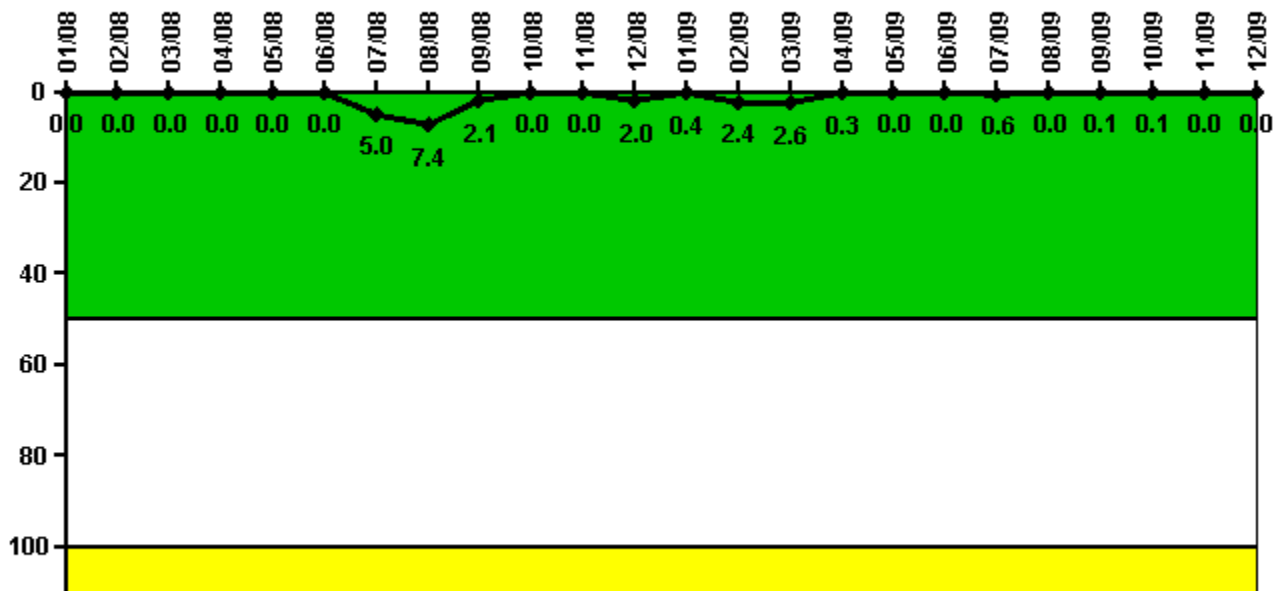
  

Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.000140	0.000015	0.000160	0.000160	0.000160	0.000180	0.000170	0.000180	0.000180	0.000180	0.000190	0.000230
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments:

9/09: Tech Spec Limit for I-131 changed from 1.0 to 0.5 as of September 2009. This change was documented by License Amendment No. 191 (DPR-42)/ 180 (DPR-60) in our Technical Specifications.

## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

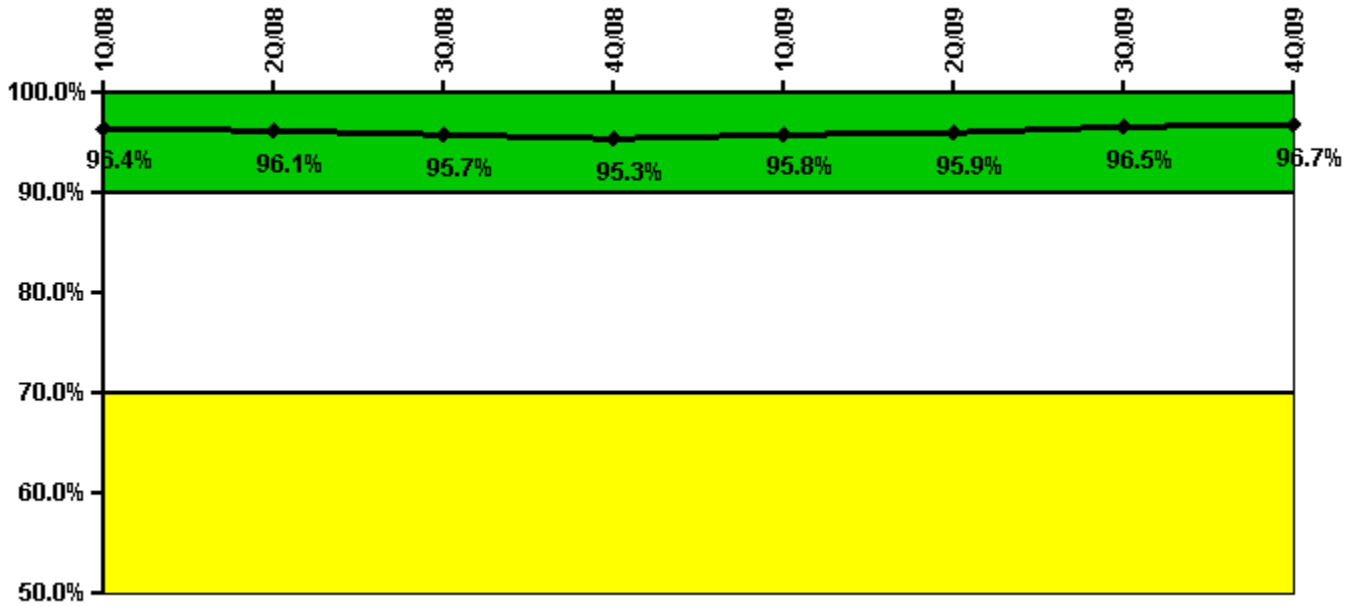
Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0	0	0	0	0	0	0.501	0.736	0.206	0	0	0.201
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	5.0	7.4	2.1	0	0	2.0

Reactor Coolant System Leakage	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 leakage	0.042	0.238	0.264	0.025	0	0	0.063	0	0.008	0.008	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	0.4	2.4	2.6	0.3	0	0	0.6	0	0.1	0.1	0	0

Licensee Comments: none

## Drill/Exercise Performance



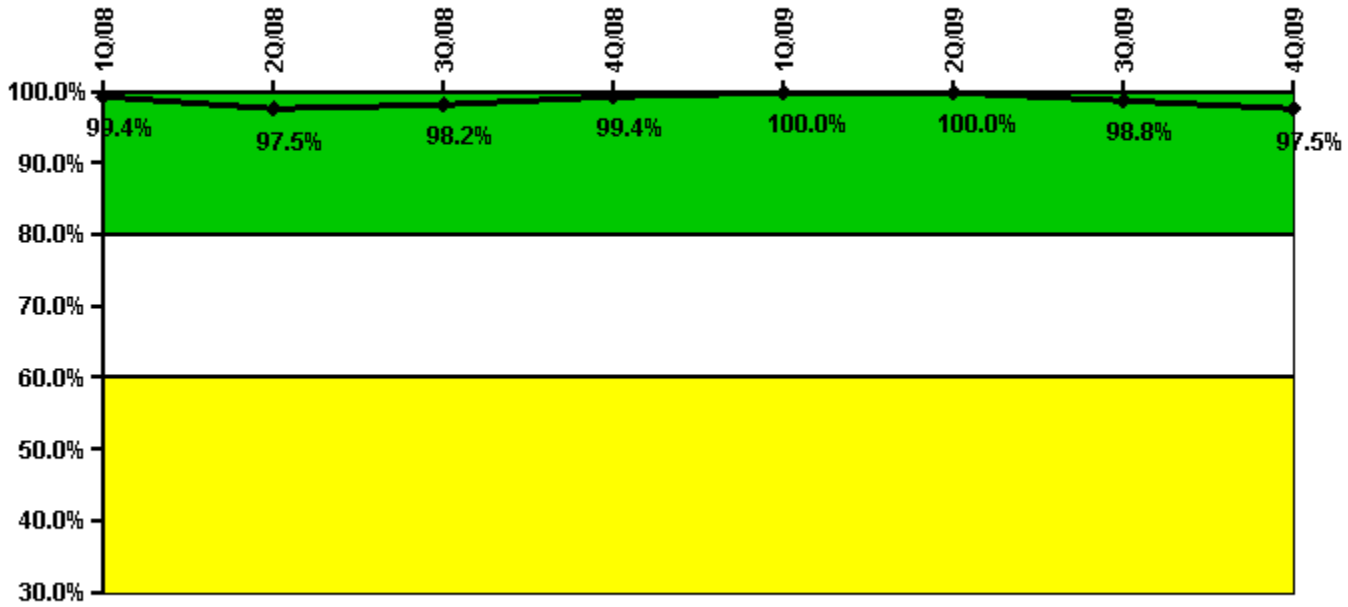
**Thresholds: White < 90.0% Yellow < 70.0%**

### Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	47.0	51.0	41.0	16.0	99.0	43.0	9.0	20.0
Total opportunities	51.0	52.0	44.0	18.0	99.0	44.0	9.0	20.0
<b>Indicator value</b>	<b>96.4%</b>	<b>96.1%</b>	<b>95.7%</b>	<b>95.3%</b>	<b>95.8%</b>	<b>95.9%</b>	<b>96.5%</b>	<b>96.7%</b>

Licensee Comments: none

# ERO Drill Participation



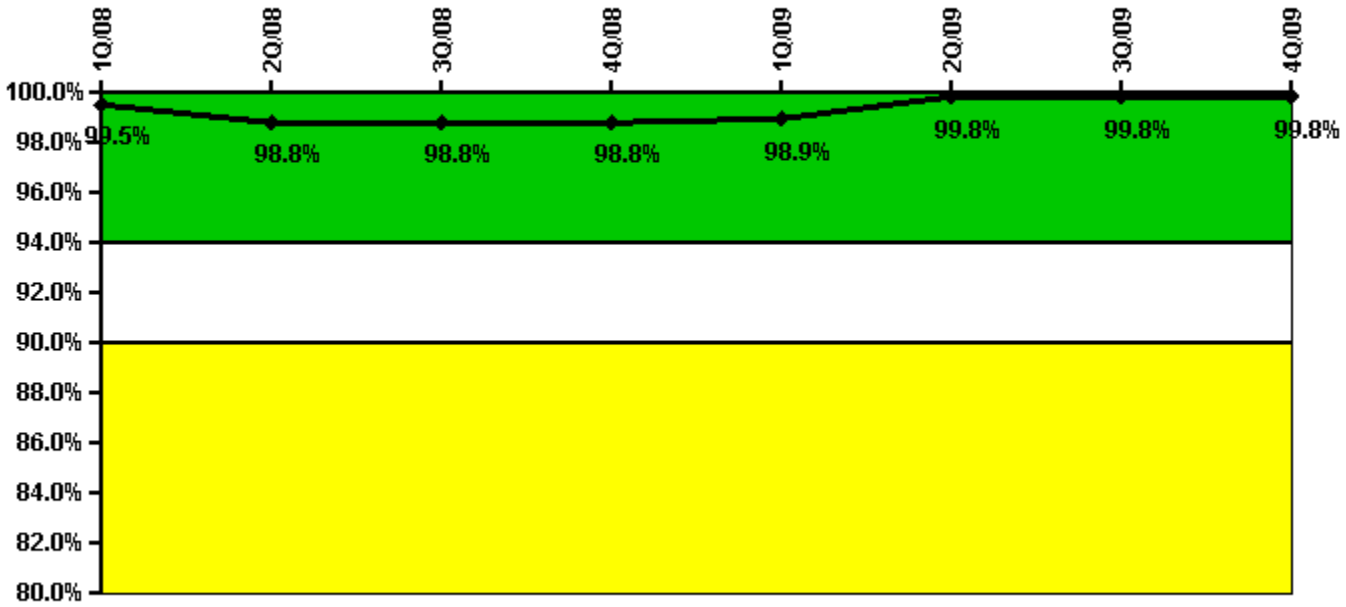
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	166.0	154.0	160.0	158.0	160.0	175.0	162.0	159.0
Total Key personnel	167.0	158.0	163.0	159.0	160.0	175.0	164.0	163.0
Indicator value	99.4%	97.5%	98.2%	99.4%	100.0%	100.0%	98.8%	97.5%

Licensee Comments: none

# Alert & Notification System



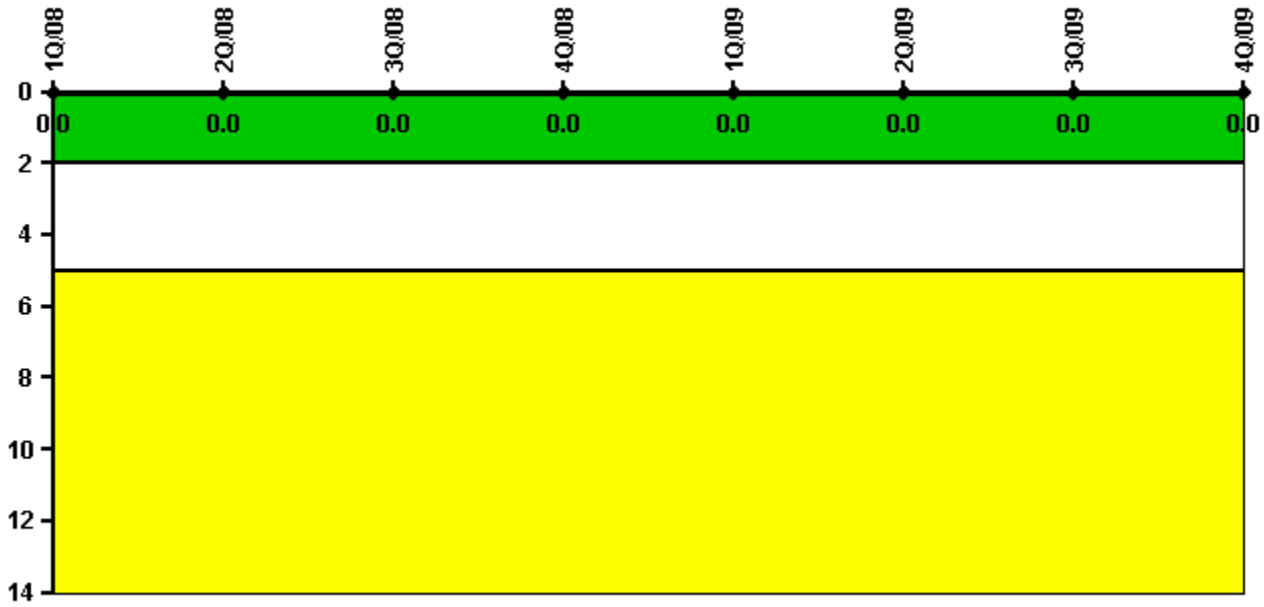
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	1513	1466	1515	1517	1401	1520	1636	1517
Total sirens-tests	1521	1521	1521	1521	1404	1521	1638	1521
Indicator value	99.5%	98.8%	98.8%	98.8%	98.9%	99.8%	99.8%	99.8%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



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

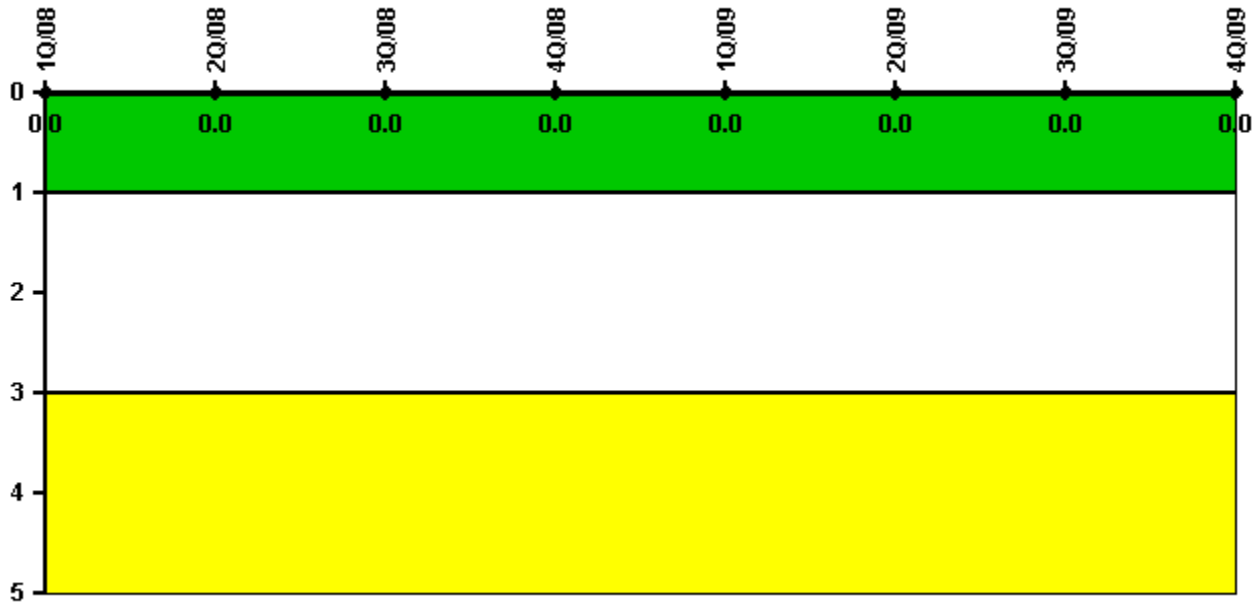
## Notes

Occupational Exposure Control Effectiveness	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
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/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
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.