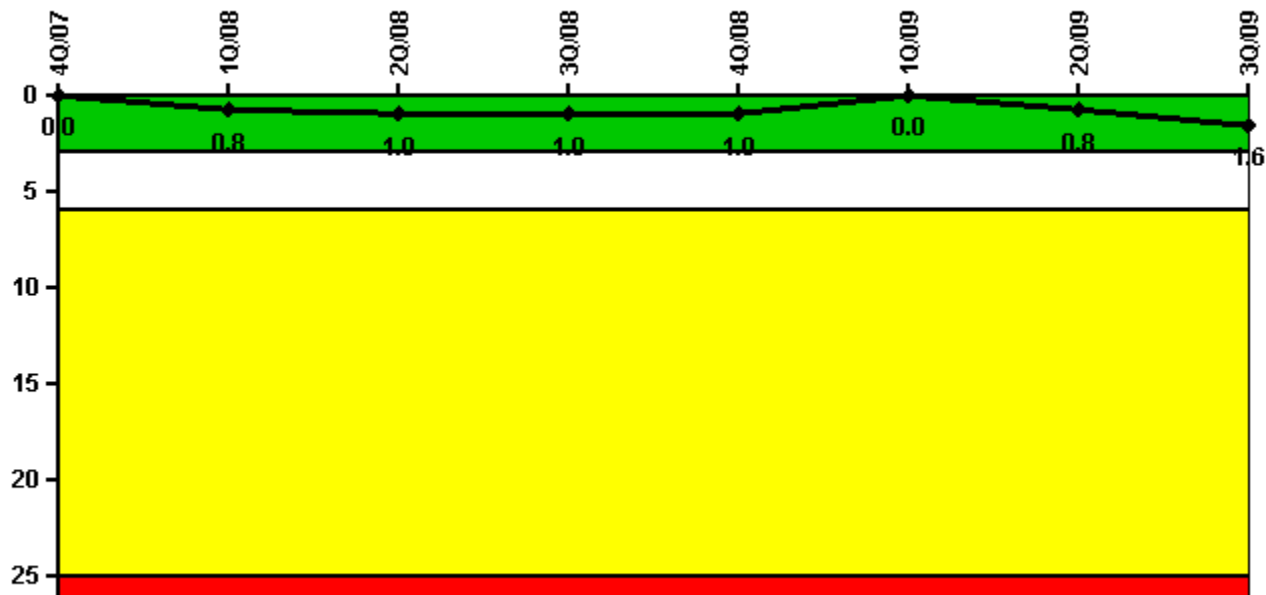


# Wolf Creek 1

## 3Q/2009 Performance Indicators

Licensee's General Comments: LER 08-008-02 has been revised and this SSFF is being moved from 4Q08 to 3Q09 based on the new revision date.

### Unplanned Scrams per 7000 Critical Hrs



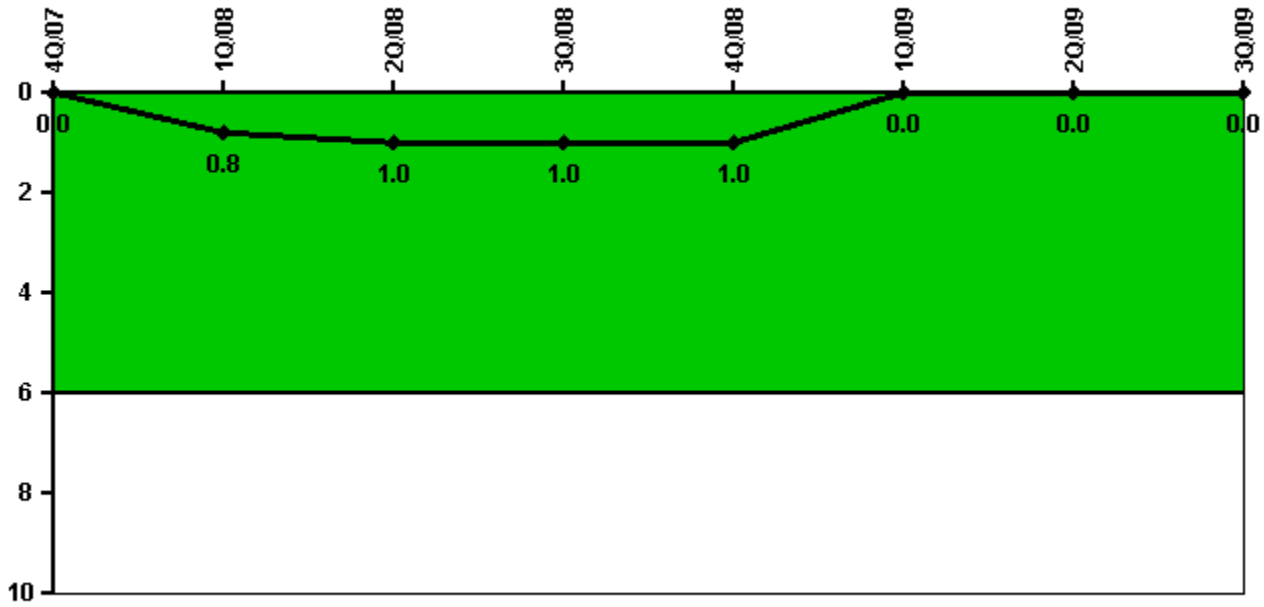
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	1.0	0	0	0	0	1.0	1.0
Critical hours	2209.0	1733.8	1150.0	2208.0	2209.0	2159.0	2126.9	2115.9
Indicator value	0	0.8	1.0	1.0	1.0	0	0.8	1.6

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



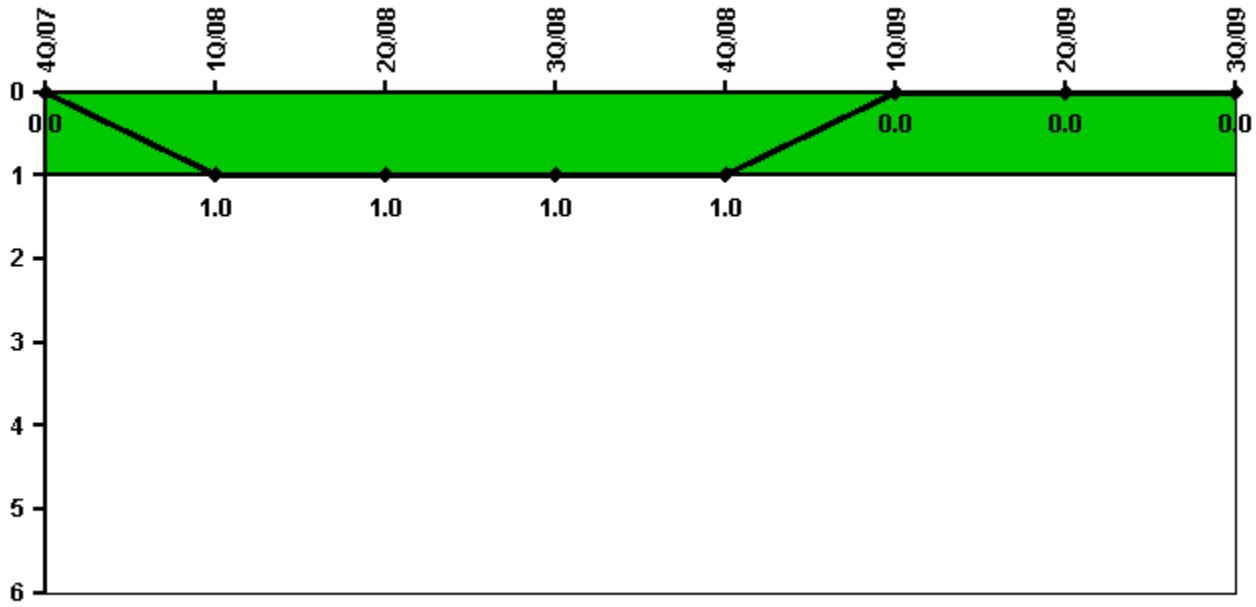
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	1733.8	1150.0	2208.0	2209.0	2159.0	2126.9	2115.9
Indicator value	0	0.8	1.0	1.0	1.0	0	0	0

Licensee Comments: none

# Unplanned Scrams with Complications



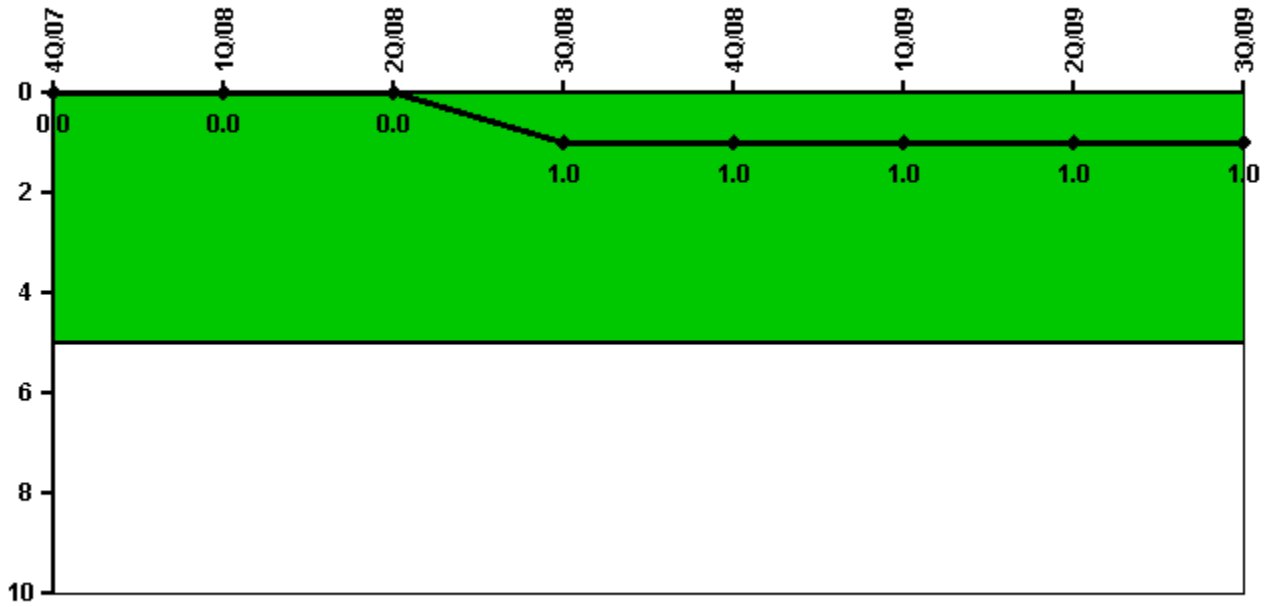
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Scrams with complications	0	1.0	0	0	0	0	0	0
Indicator value	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0

Licensee Comments: none

## Safety System Functional Failures (PWR)



Thresholds: White > 5.0

### Notes

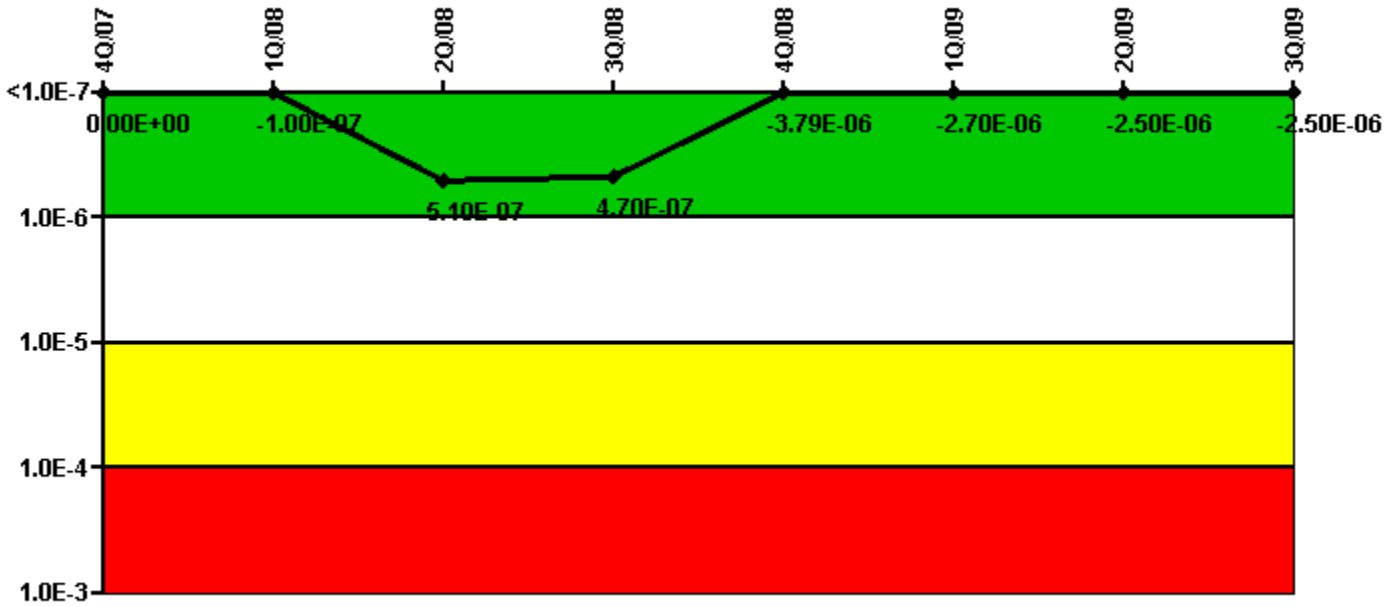
Safety System Functional Failures (PWR)	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Safety System Functional Failures	0	0	0	1	0	0	0	1
Indicator value	0	0	0	1	1	1	1	1

Licensee Comments:

3Q/09: LER 2008-008-02 has been revised and this SSFF is being moved from the 4Q08 to 3Q09 based on the new issue date/revision date to the LER.

4Q/08: Further evaluation of LER 2008-008 found that both RHR trains were inoperable. LER 2008-008-02 has been revised and this SSFF is being moved from the 4Q08 to 3Q09 based on the new issue date/revision date to the LER.

# Mitigating Systems Performance Index, Emergency AC Power System



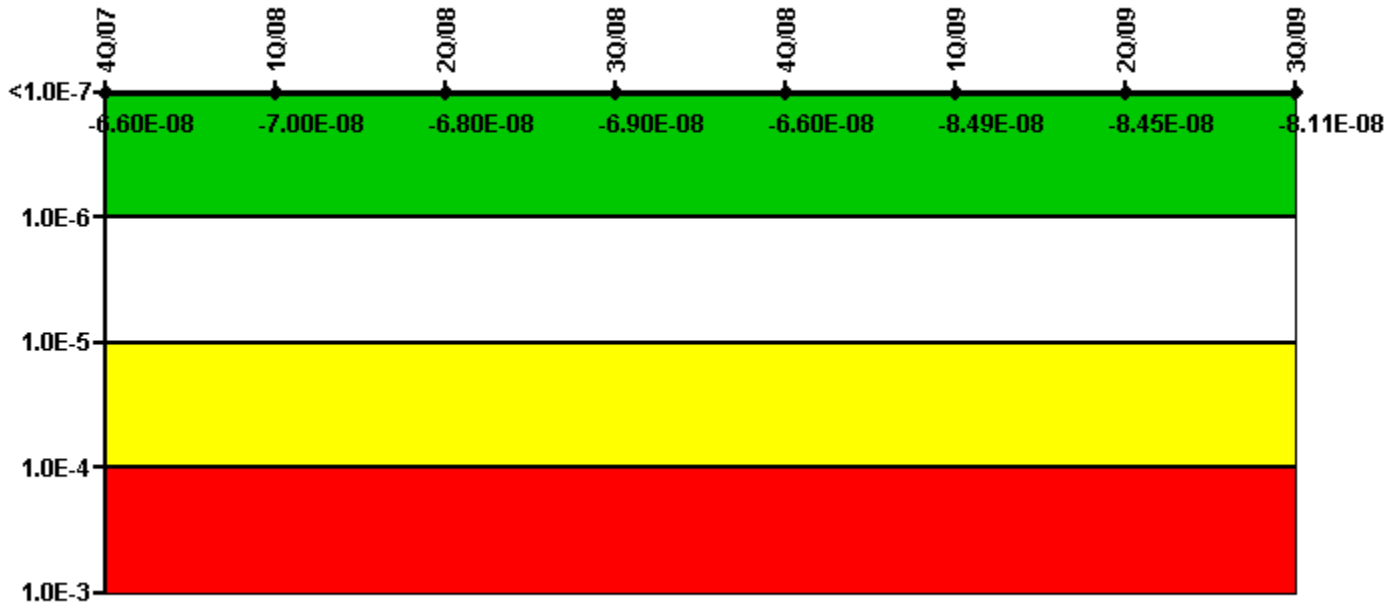
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	1.90E-06	1.40E-06	1.20E-06	1.20E-06	8.10E-07	2.00E-06	2.20E-06	2.40E-06
URI ( $\Delta$ CDF)	-1.90E-06	-1.50E-06	-6.90E-07	-7.30E-07	-4.60E-06	-4.70E-06	-4.70E-06	-4.90E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	0.00E+00	-1.00E-07	5.10E-07	4.70E-07	-3.79E-06	-2.70E-06	-2.50E-06	-2.50E-06

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



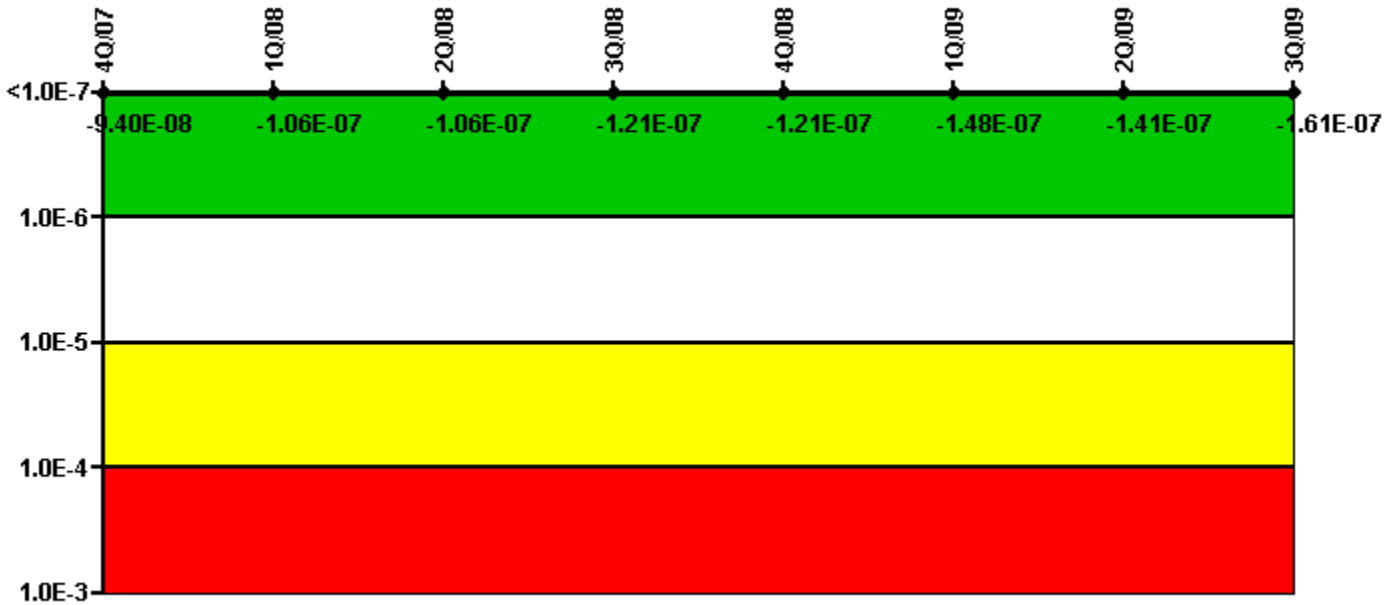
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	1.50E-08	1.50E-08	1.70E-08	1.60E-08	1.60E-08	-2.90E-09	-1.50E-09	1.90E-09
URI ( $\Delta$ CDF)	-8.10E-08	-8.50E-08	-8.50E-08	-8.50E-08	-8.20E-08	-8.20E-08	-8.30E-08	-8.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-7.00E-08	-6.80E-08	-6.90E-08	-6.60E-08	-8.49E-08	-8.45E-08	-8.11E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



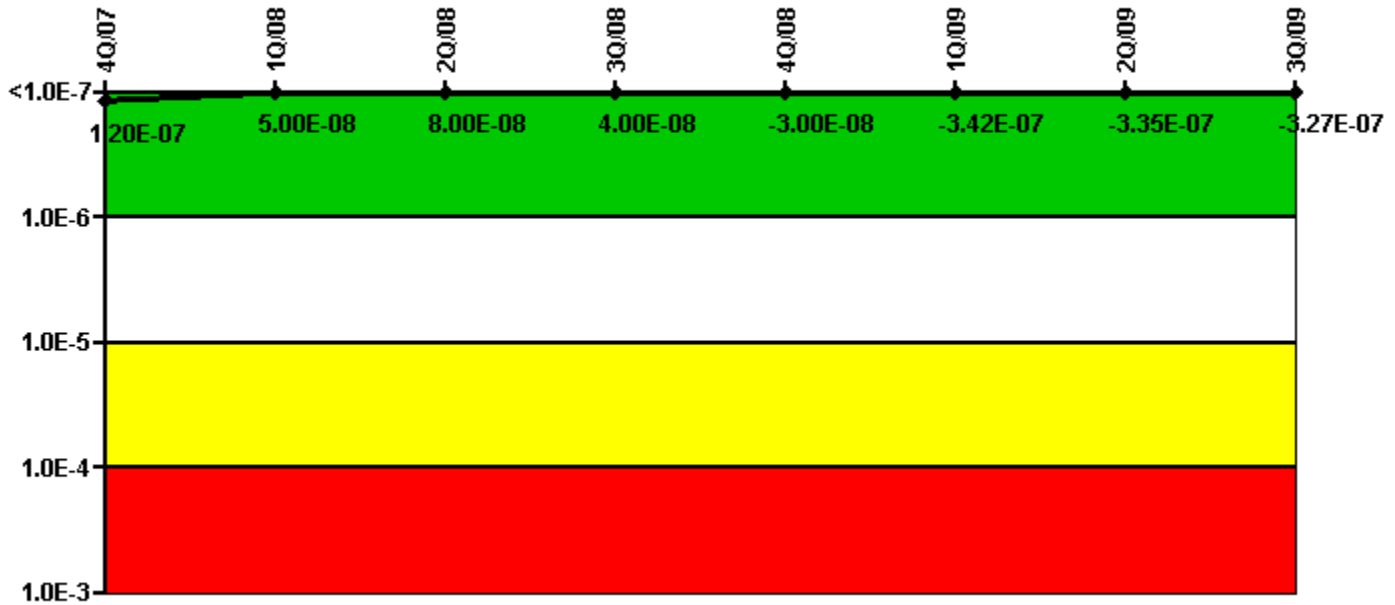
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	6.60E-08	5.40E-08	5.40E-08	3.90E-08	3.90E-08	1.20E-08	9.40E-09	-6.10E-10
URI ( $\Delta$ CDF)	-1.60E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.50E-07	-1.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.40E-08	-1.06E-07	-1.06E-07	-1.21E-07	-1.21E-07	-1.48E-07	-1.41E-07	-1.61E-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

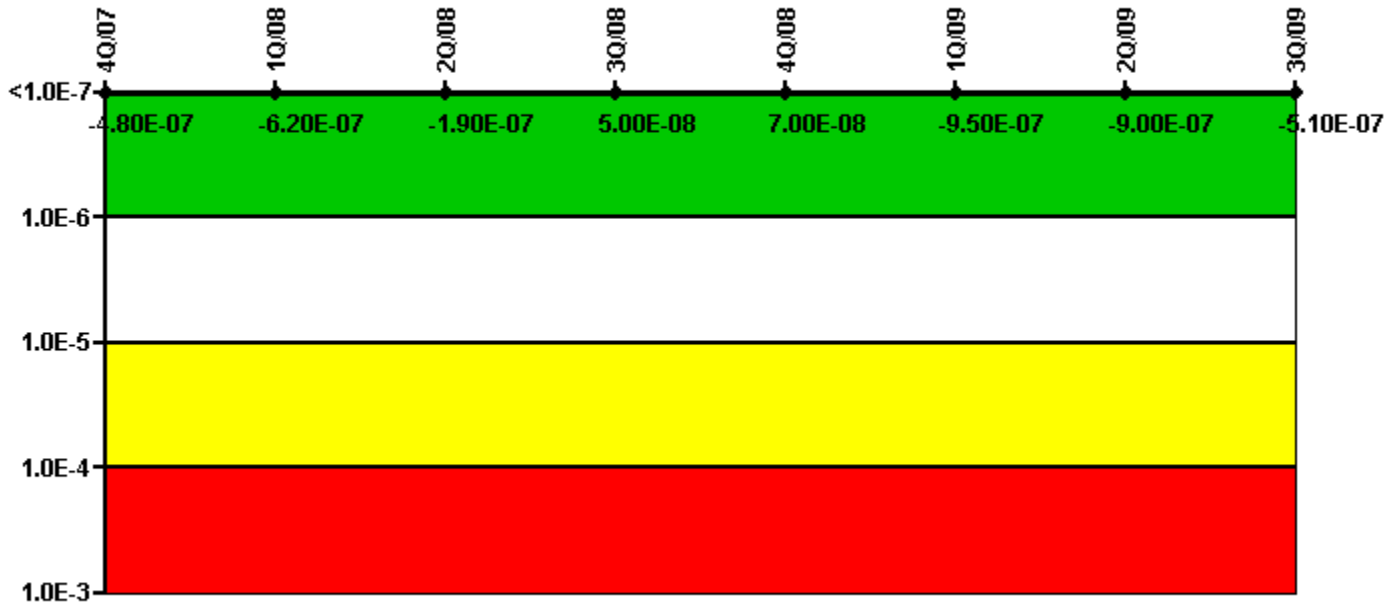
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	3.80E-07	3.50E-07	3.60E-07	3.30E-07	2.60E-07	-5.20E-08	-4.50E-08	-3.70E-08
URI ( $\Delta$ CDF)	-2.60E-07	-3.00E-07	-2.80E-07	-2.90E-07	-2.90E-07	-2.90E-07	-2.90E-07	-2.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.20E-07	5.00E-08	8.00E-08	4.00E-08	-3.00E-08	-3.42E-07	-3.35E-07	-3.27E-07

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



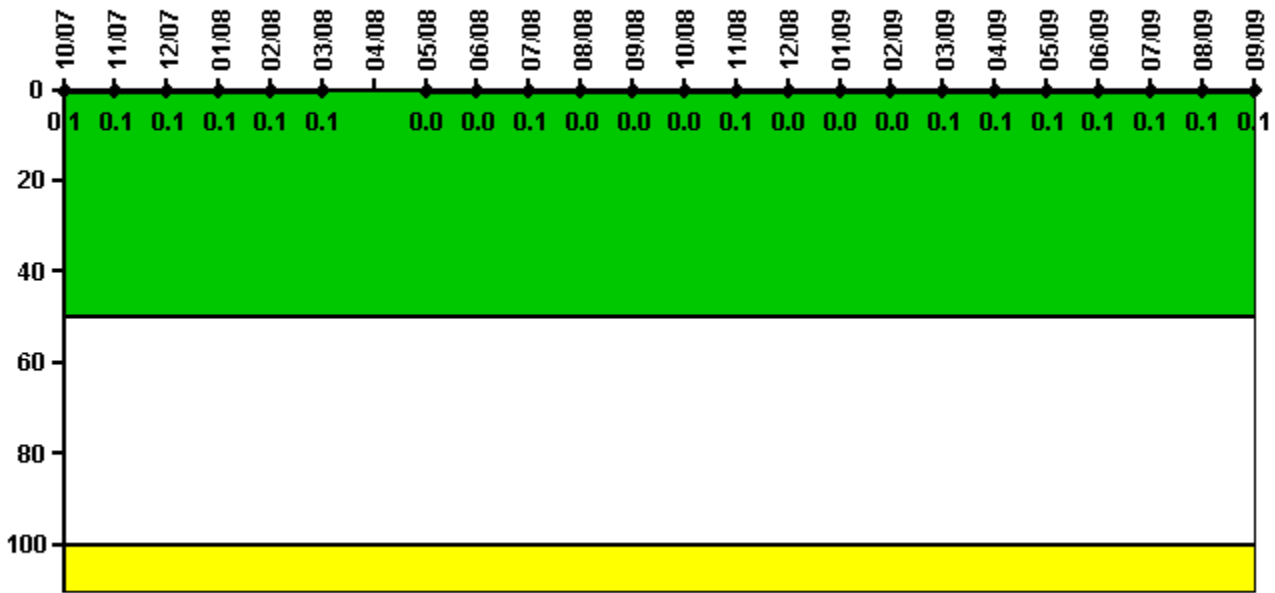
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI ( $\Delta$ CDF)	2.40E-07	1.20E-07	5.40E-07	7.80E-07	7.90E-07	-2.20E-07	-1.60E-07	2.20E-07
URI ( $\Delta$ CDF)	-7.20E-07	-7.40E-07	-7.30E-07	-7.30E-07	-7.20E-07	-7.30E-07	-7.40E-07	-7.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.80E-07	-6.20E-07	-1.90E-07	5.00E-08	7.00E-08	-9.50E-07	-9.00E-07	-5.10E-07

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

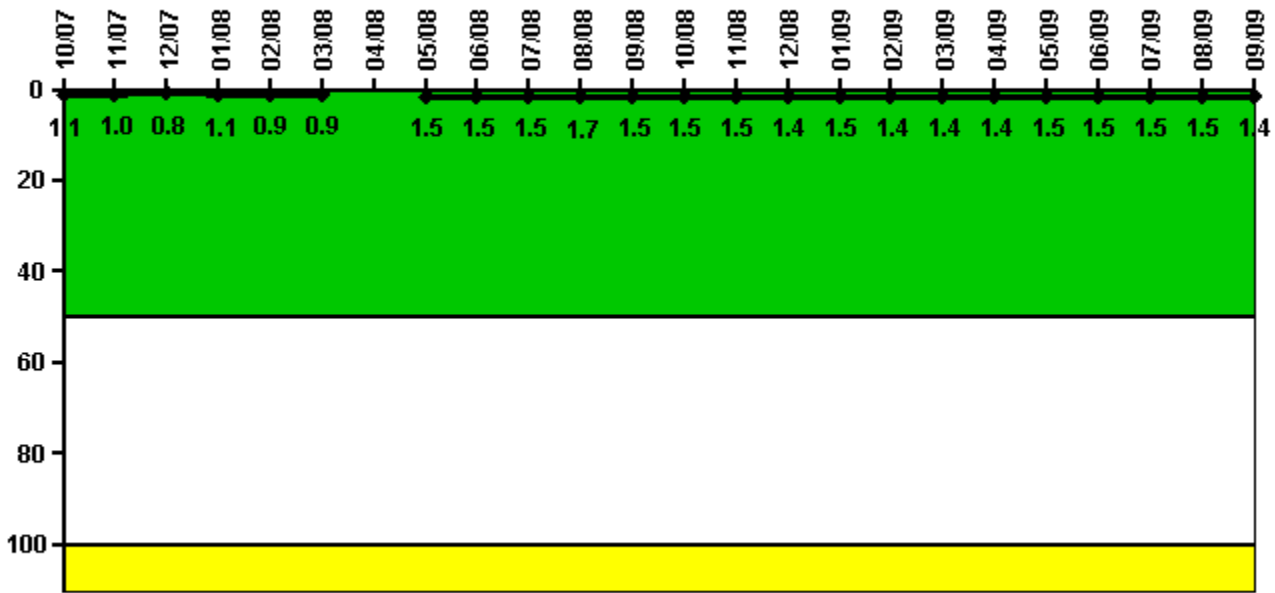
Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	0.000700	0.000800	0.000600	0.000700	0.000700	0.000800	N/A	0.000300	0.000300	0.000700	0.000300	0.000300
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	N/A	0	0	0.1	0	0

Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.000400	0.000500	0.000400	0.000400	0.000400	0.000500	0.000500	0.000500	0.000500	0.000500	0.000600	0.000600
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	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

## Reactor Coolant System Leakage



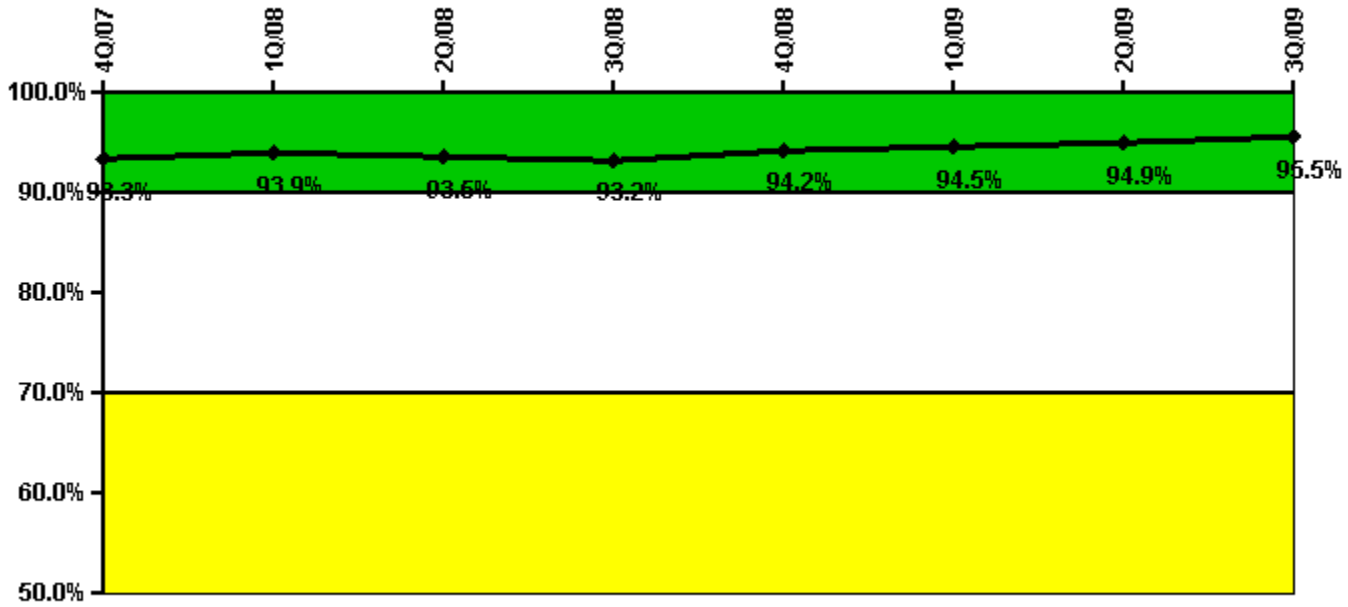
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	0.110	0.100	0.080	0.110	0.090	0.090	N/A	0.150	0.150	0.150	0.170	0.150
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	1.1	1.0	0.8	1.1	0.9	0.9	N/A	1.5	1.5	1.5	1.7	1.5
Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	0.150	0.150	0.140	0.150	0.140	0.140	0.140	0.150	0.150	0.150	0.150	0.140
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	1.5	1.5	1.4	1.5	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.4

Licensee Comments: none

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

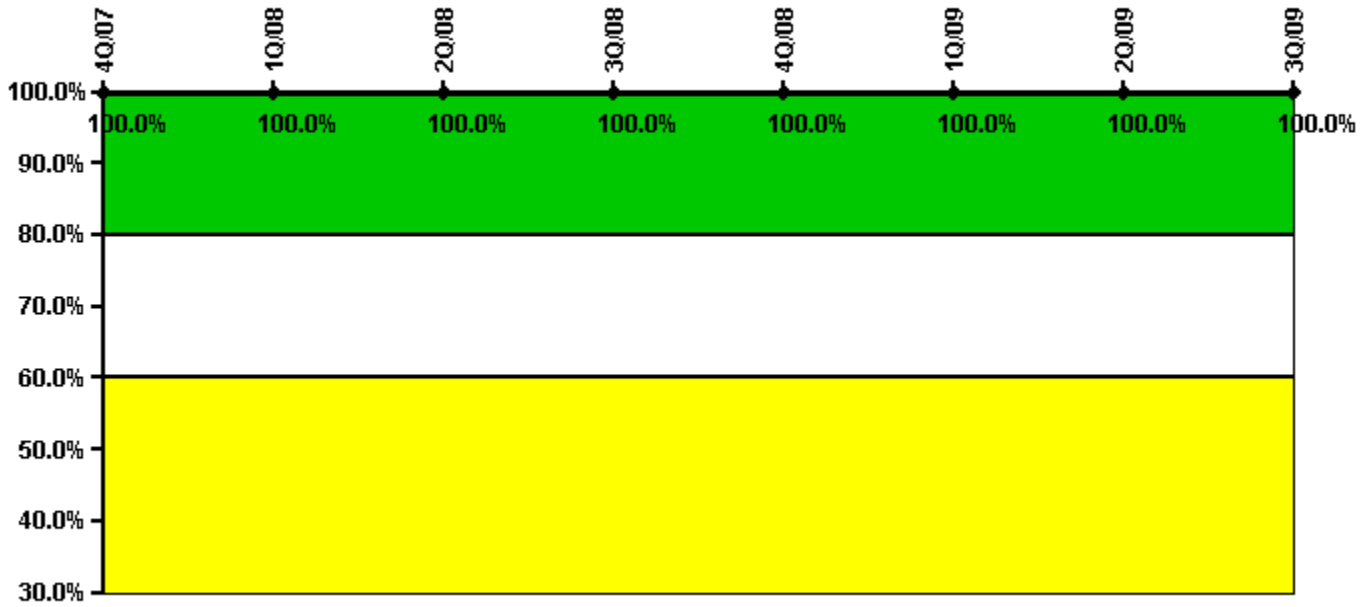
### Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	75.0	22.0	2.0	49.0	224.0	27.0	66.0	39.0
Total opportunities	80.0	22.0	2.0	56.0	232.0	27.0	69.0	40.0
Indicator value	93.3%	93.9%	93.5%	93.2%	94.2%	94.5%	94.9%	95.5%

Licensee Comments: none

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## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

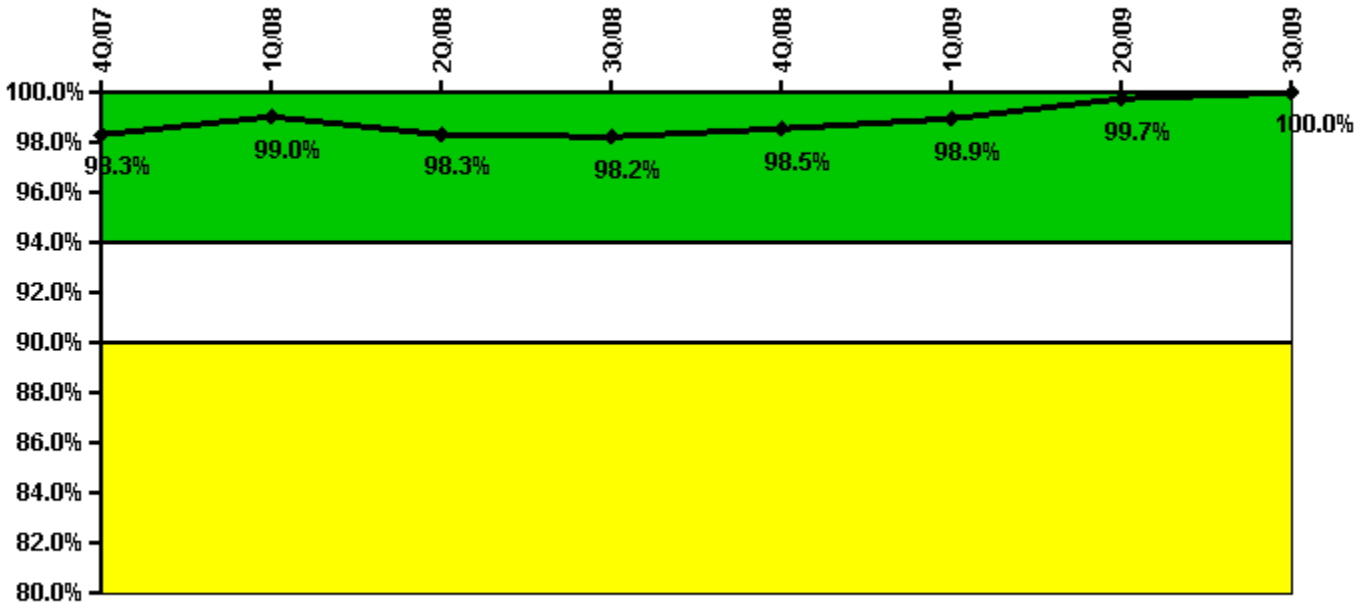
### Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	67.0	68.0	62.0	65.0	64.0	67.0	65.0	65.0
Total Key personnel	67.0	68.0	62.0	65.0	64.0	67.0	65.0	65.0
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



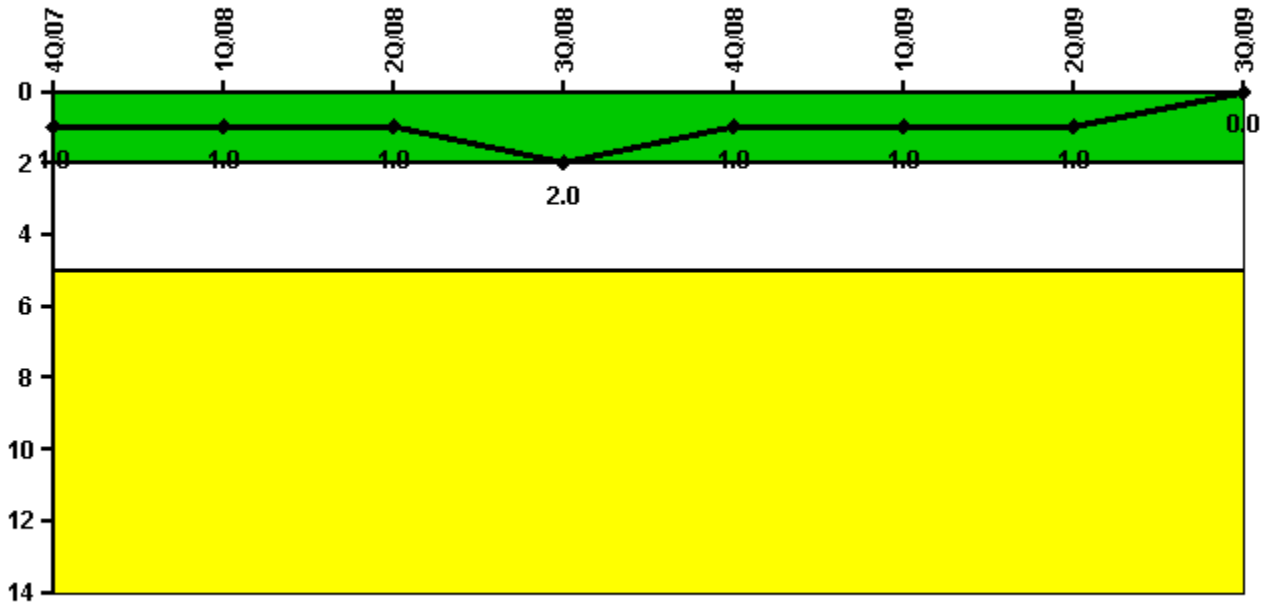
**Thresholds:** White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	65	76	64	65	66	77	77	66
Total sirens-tests	66	77	66	66	66	77	77	66
Indicator value	98.3%	99.0%	98.3%	98.2%	98.5%	98.9%	99.7%	100.0%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
High radiation area occurrences	1	0	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>

Licensee Comments: none

# RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

## Notes

RETS/ODCM Radiological Effluent	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/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.