

# Limerick 1

## 2Q/2007 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



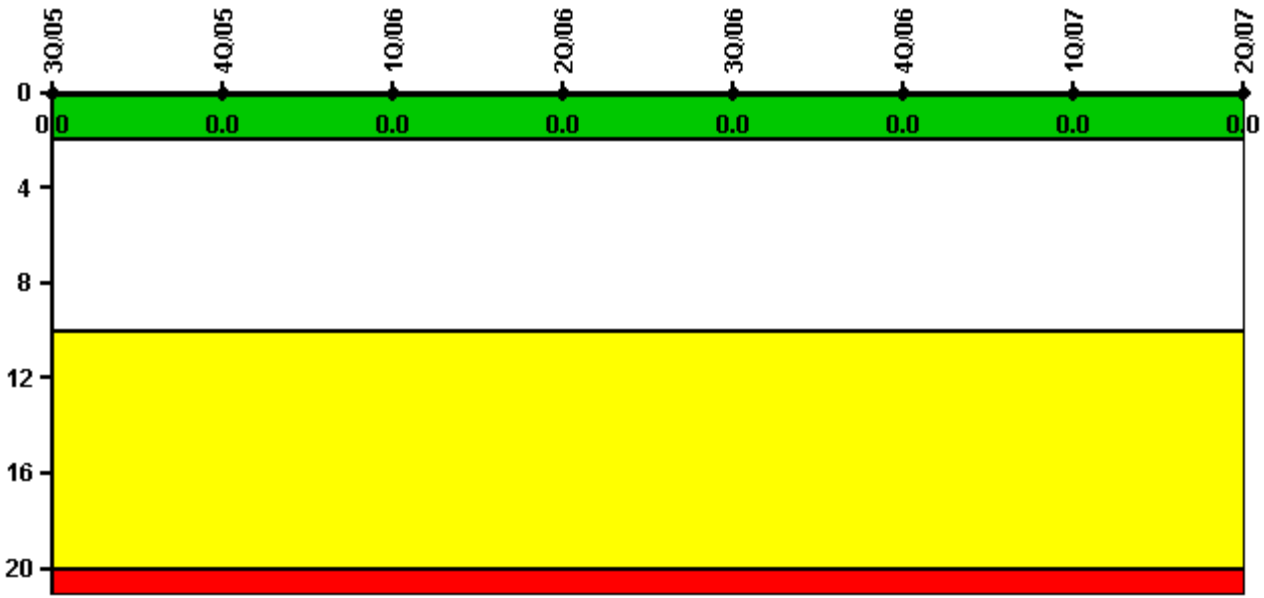
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2185.3	2209.0	1736.6	2134.0	2208.0	2209.0	2159.0	2184.0
Indicator value	0.8	0.8	0.8	0.8	0	0	0	0

Licensee Comments: none

## Scrams with Loss of Normal Heat Removal



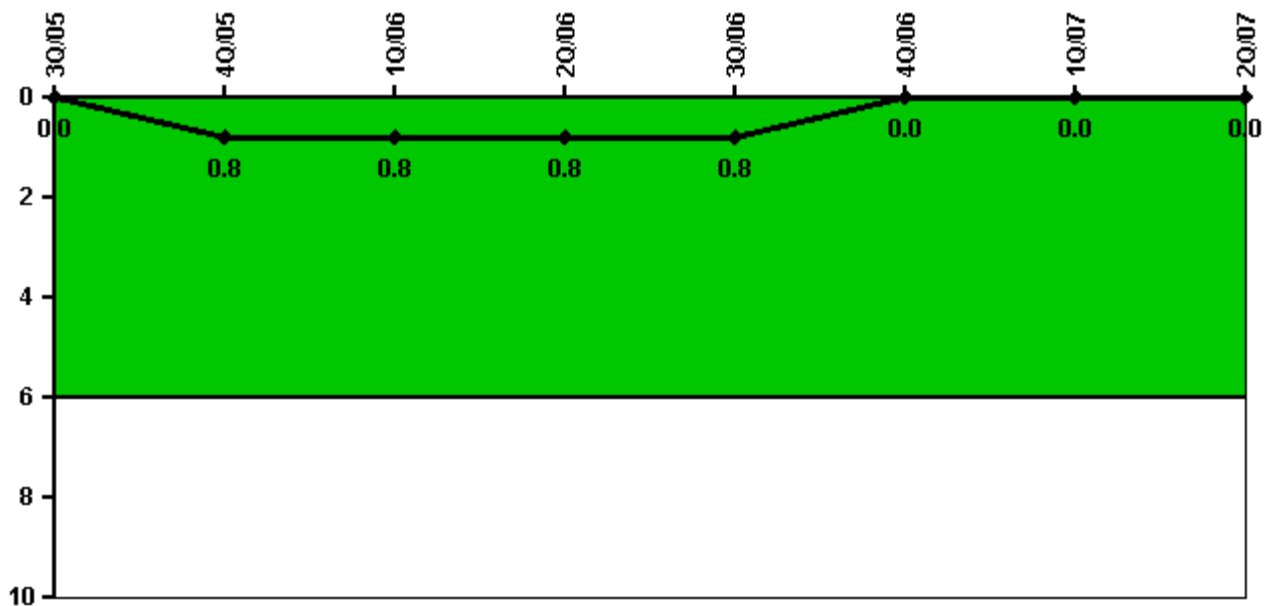
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

### Notes

Scrams with Loss of Normal Heat Removal	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Scrams	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



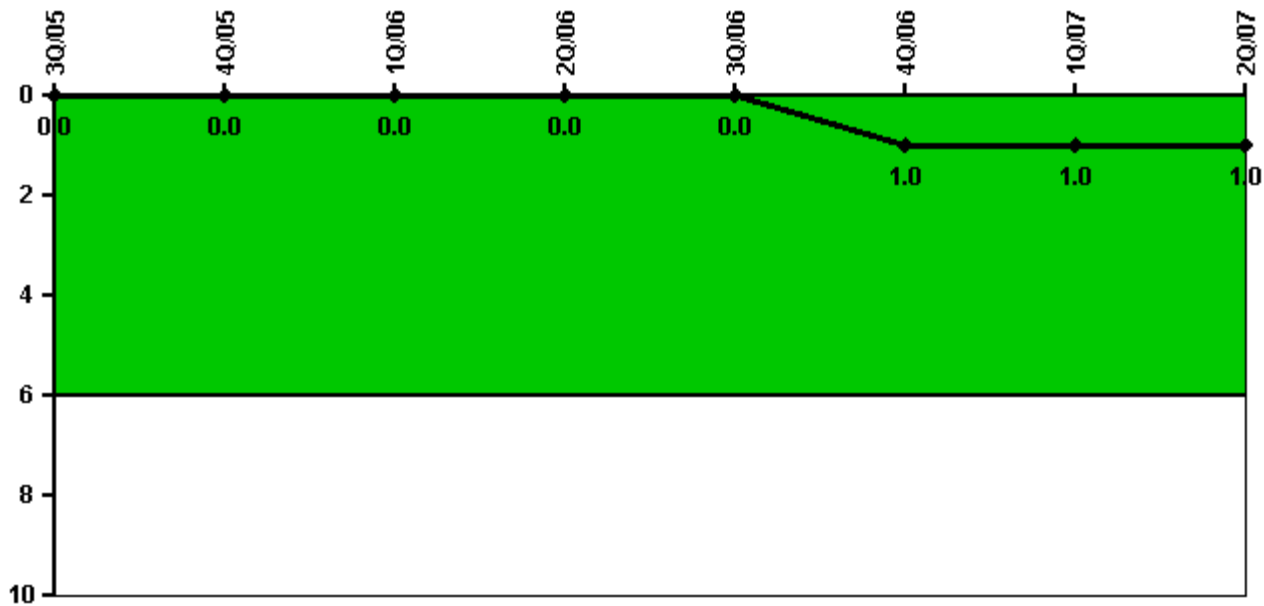
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2185.3	2209.0	1736.6	2134.0	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0.8	0.8	0.8	0.8	0	0	0

Licensee Comments: none

# Safety System Functional Failures (BWR)



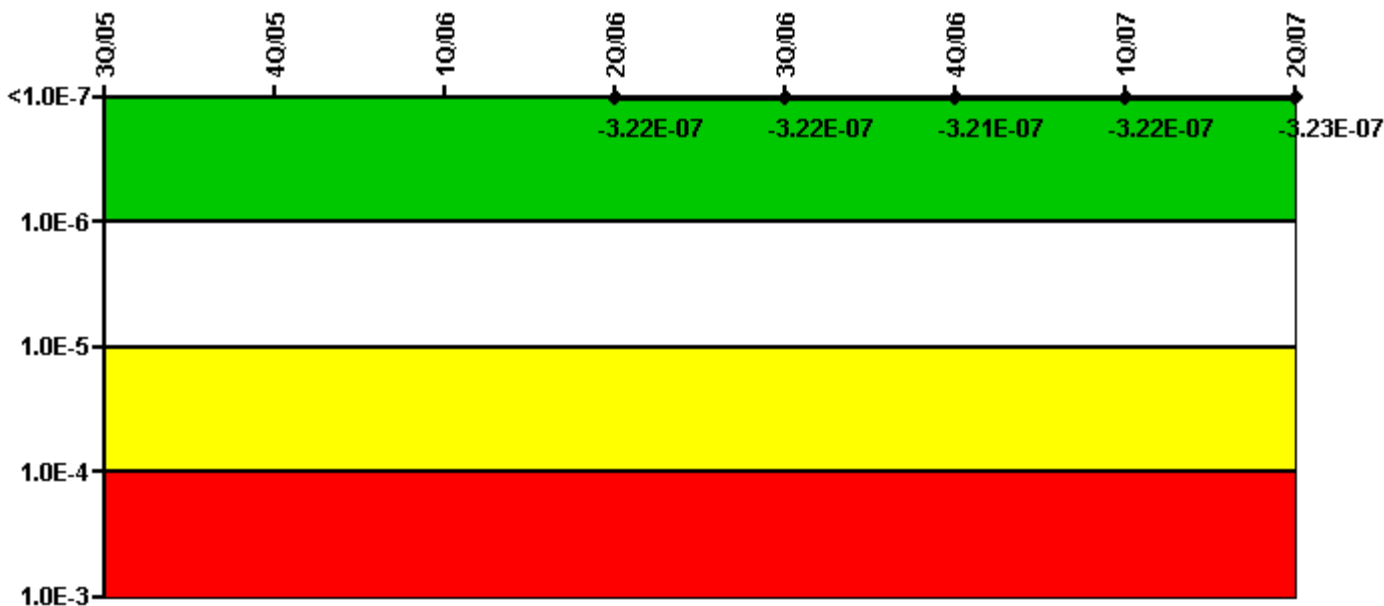
Thresholds: White > 6.0

## Notes

Safety System Functional Failures (BWR)	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	0	0	0	0	0	1	1	1

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



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

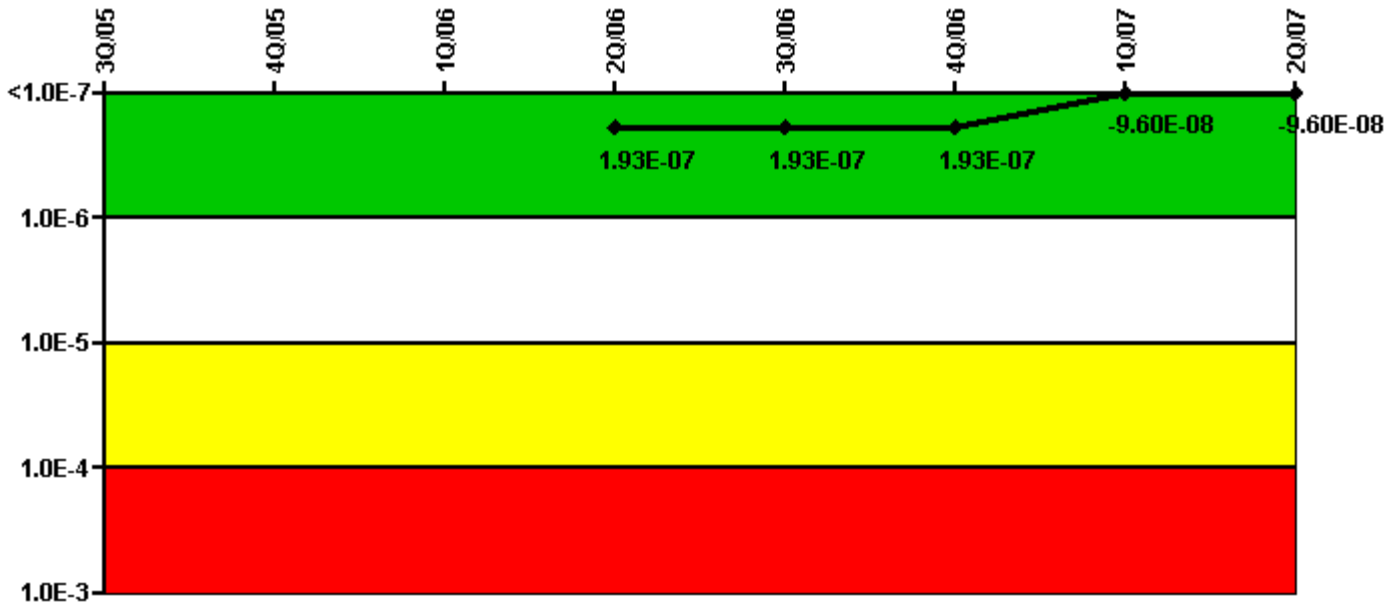
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI ( $\Delta$ CDF)				-2.30E-09	-1.50E-09	-1.10E-09	-2.00E-09	-2.60E-09
URI ( $\Delta$ CDF)				-3.20E-07	-3.20E-07	-3.20E-07	-3.20E-07	-3.20E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-3.22E-07	-3.22E-07	-3.21E-07	-3.22E-07	-3.23E-07

Licensee Comments:

1Q/07: Demand and Run hours were changed to address corrections and clarifications discovered during the NRC TI inspection and internal data reviews during the 4Q06. No PRA FV-factors or CDF values, color change, or significant change to MSPI UAI or URI resulted from this correction. Discussions of the issue with the Limerick SRI and NRC Region 1 personnel resulted in no FAQ required and that the data should remain as submitted with no further action.

# Mitigating Systems Performance Index, High Pressure Injection System



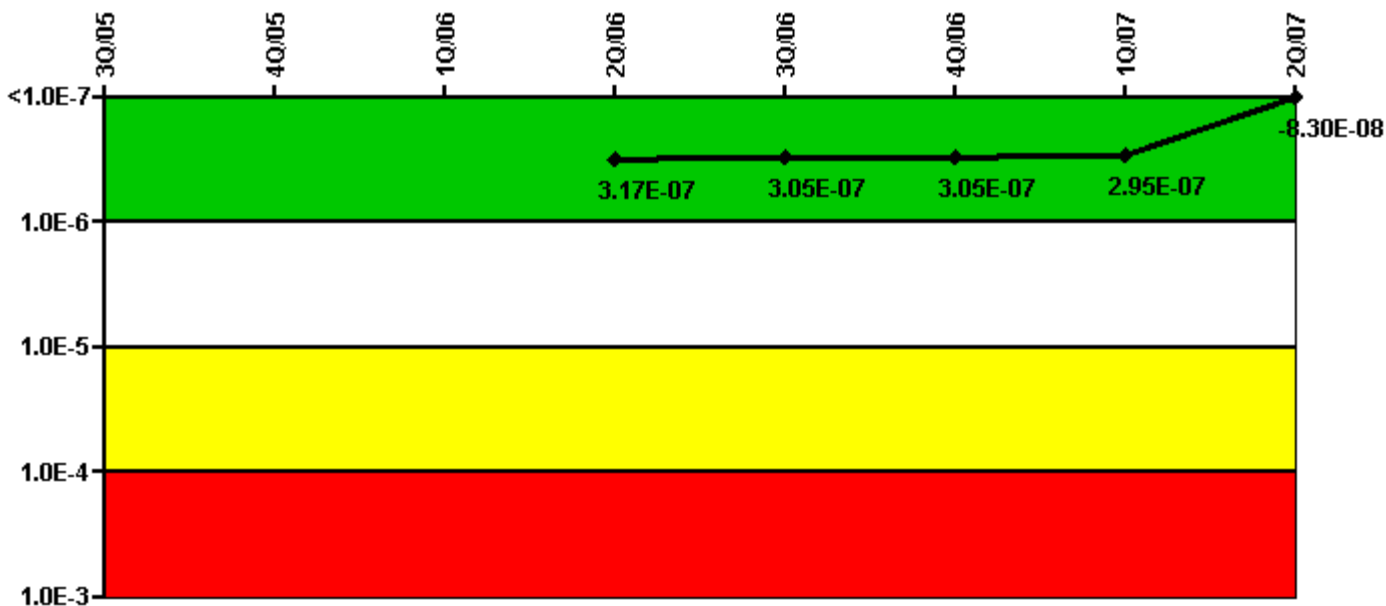
Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI ( $\Delta$ CDF)				$-2.70E-08$	$-2.70E-08$	$-2.70E-08$	$-4.40E-08$	$-4.40E-08$
URI ( $\Delta$ CDF)				$2.20E-07$	$2.20E-07$	$2.20E-07$	$-5.20E-08$	$-5.20E-08$
PLE				NO	NO	NO	NO	NO
Indicator value				$1.93E-07$	$1.93E-07$	$1.93E-07$	$-9.60E-08$	$-9.60E-08$

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



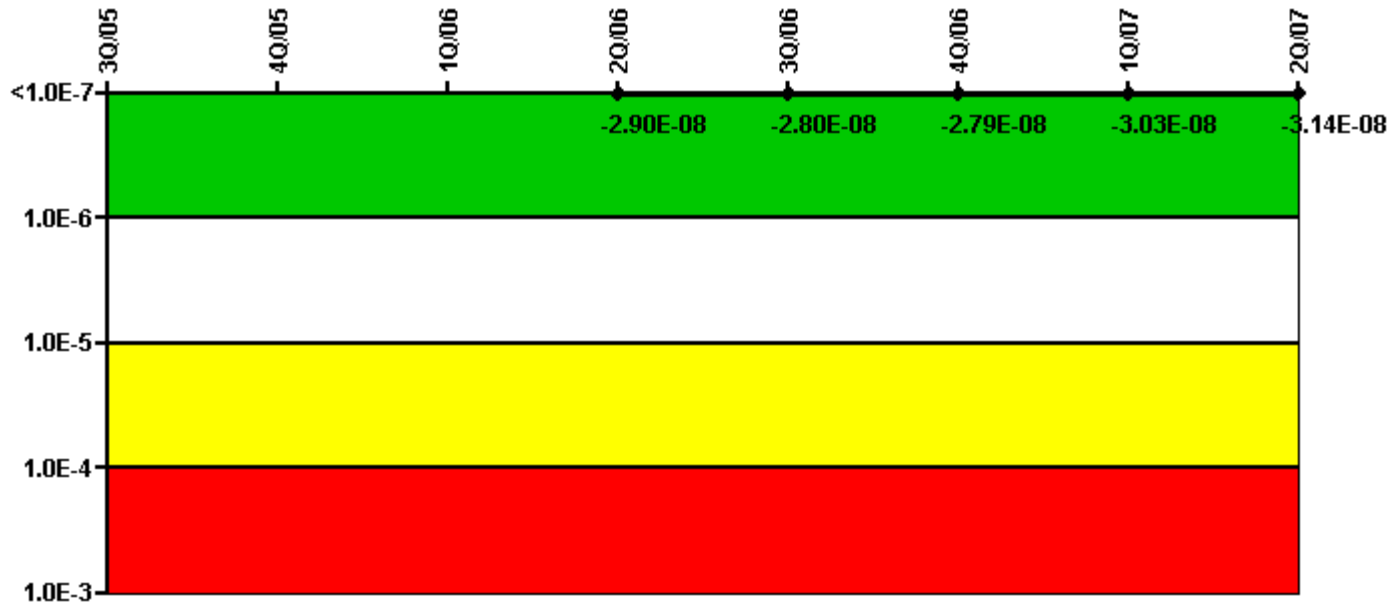
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				-3.30E-09	-1.50E-08	-1.50E-08	-2.50E-08	-3.60E-08
URI (ΔCDF)				3.20E-07	3.20E-07	3.20E-07	3.20E-07	-4.70E-08
PLE				NO	NO	NO	NO	NO
Indicator value				3.17E-07	3.05E-07	3.05E-07	2.95E-07	-8.30E-08

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

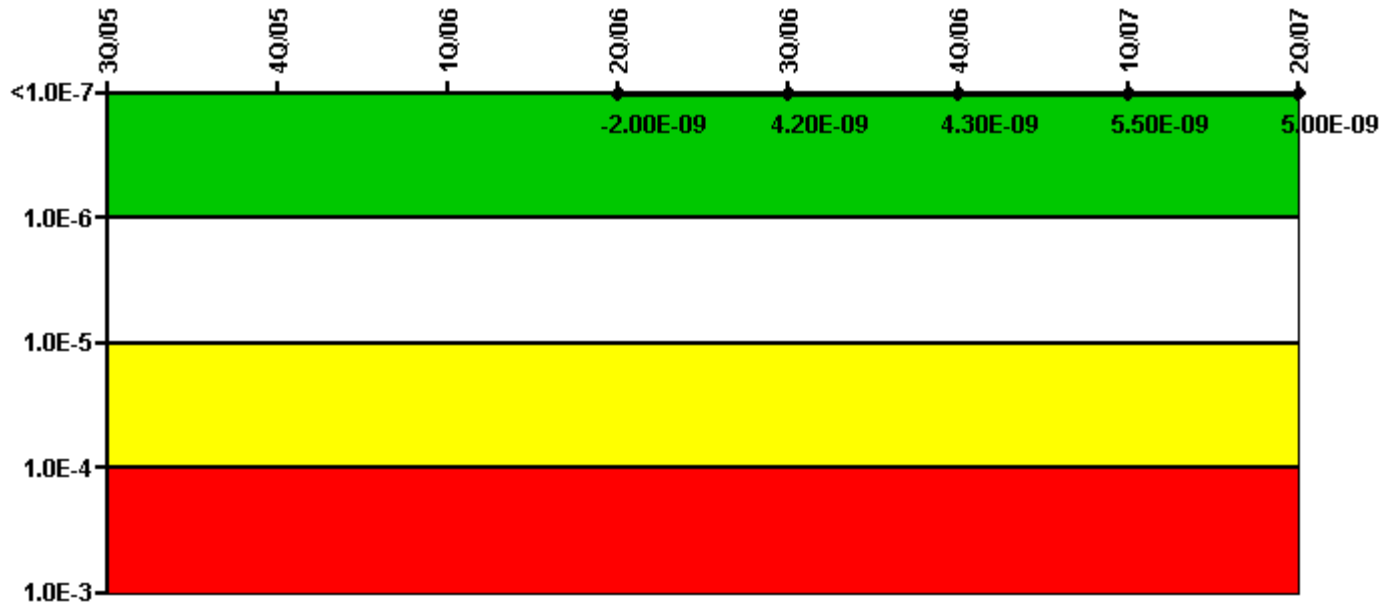
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI ( $\Delta$ CDF)				$7.00E-09$	$8.00E-09$	$8.10E-09$	$1.70E-09$	$1.60E-09$
URI ( $\Delta$ CDF)				$-3.60E-08$	$-3.60E-08$	$-3.60E-08$	$-3.20E-08$	$-3.30E-08$
PLE				NO	NO	NO	NO	NO
Indicator value				$-2.90E-08$	$-2.80E-08$	$-2.79E-08$	$-3.03E-08$	$-3.14E-08$

Licensee Comments:

1Q/07: Demand and Run hours were changed to address corrections and clarifications discovered during the NRC TI inspection and internal data reviews during the 4Q06. No PRA FV-factors or CDF values, color change, or significant change to MSPI UAI or URI resulted from this correction. Discussions of the issue with the Limerick SRI and NRC Region 1 personnel resulted in no FAQ required and that the data should remain as submitted with no further action.



# Mitigating Systems Performance Index, Cooling Water Systems



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

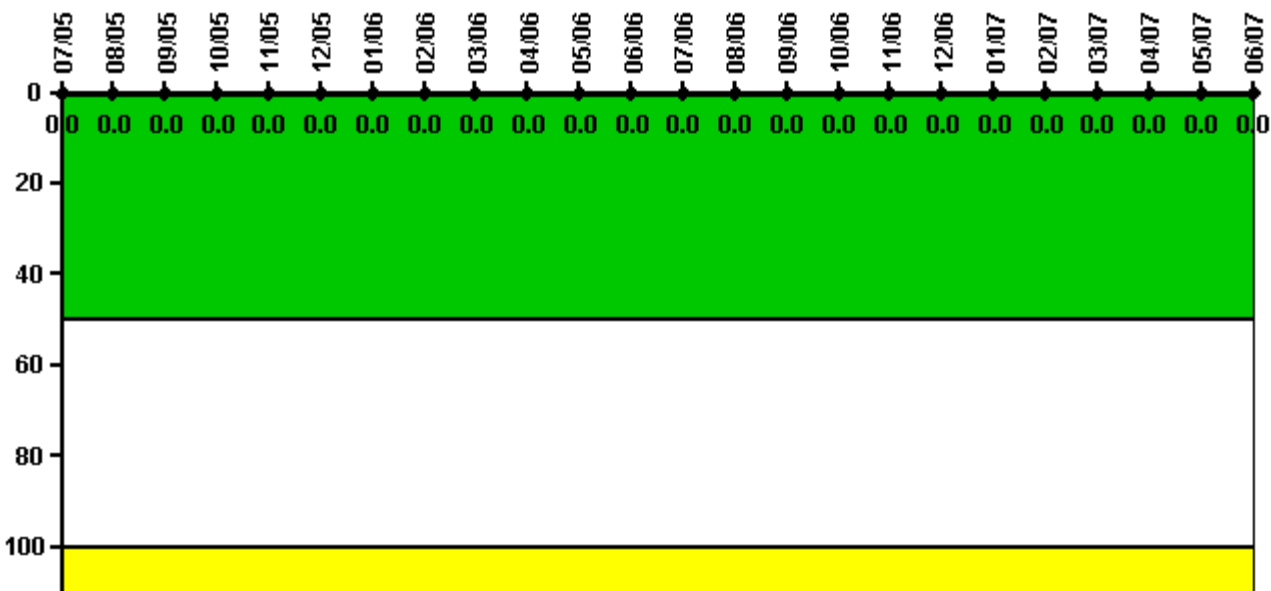
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI ( $\Delta$ CDF)				1.10E-09	7.30E-09	7.40E-09	8.50E-09	7.90E-09
URI ( $\Delta$ CDF)				-3.10E-09	-3.10E-09	-3.10E-09	-3.00E-09	-2.90E-09
PLE				NO	NO	NO	NO	NO
Indicator value				-2.00E-09	4.20E-09	4.30E-09	5.50E-09	5.00E-09

Licensee Comments:

1Q/07: Demand and Run hours were changed to address corrections and clarifications discovered during the NRC TI inspection and internal data reviews during the 4Q06. No PRA FV-factors or CDF values, color change, or significant change to MSPI UAI or URI resulted from this correction. Discussions of the issue with the Limerick SRI and NRC Region 1 personnel resulted in no FAQ required and that the data should remain as submitted with no further action.

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

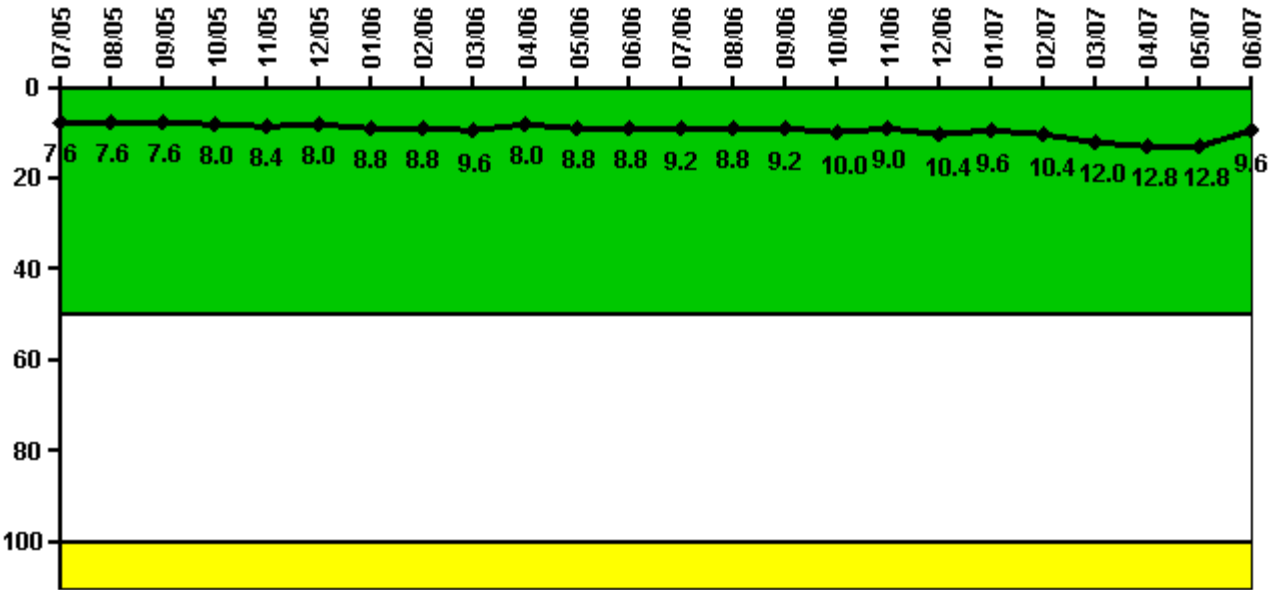
Reactor Coolant System Activity	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum activity	0.000005	0.000006	0.000006	0.000005	0.000006	0.000007	0.000006	0.000007	0.000006	0.000009	0.000005	0.000004
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum activity	0.000004	0.000004	0.000006	0.000005	0.000003	0.000059	0.000003	0.000003	0.000003	0.000003	0.000004	0.000004
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



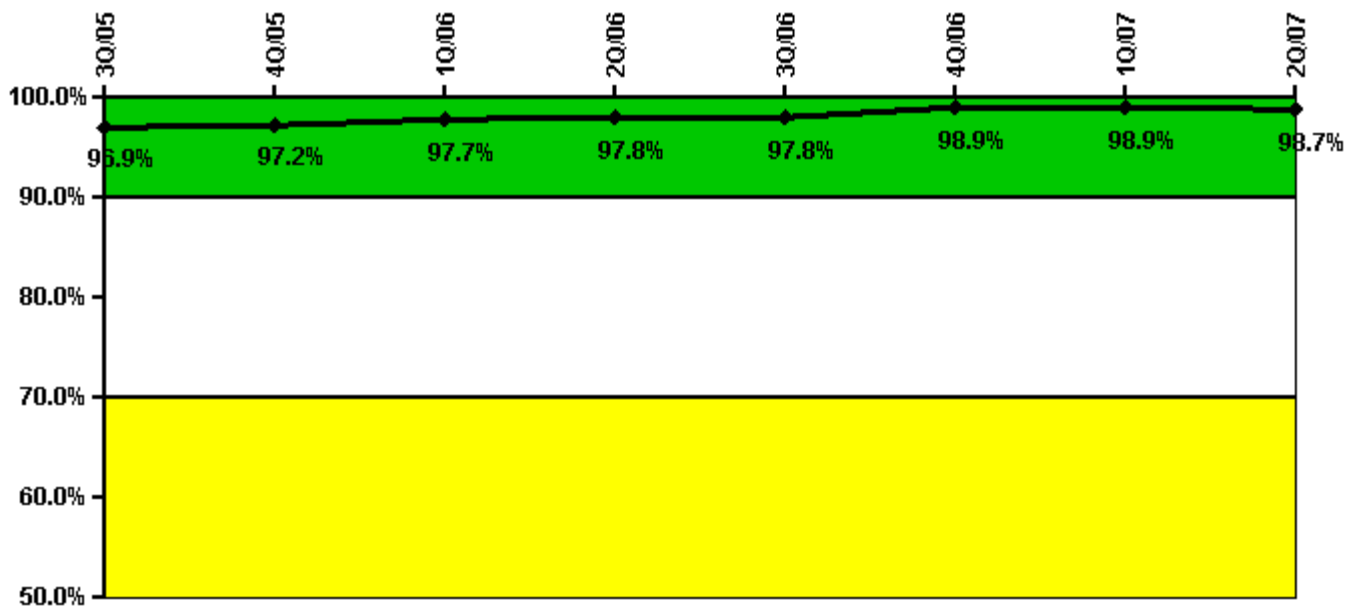
Thresholds: White > 50.0 Yellow > 100.0

## Notes

<b>Reactor Coolant System Leakage</b>	<b>7/05</b>	<b>8/05</b>	<b>9/05</b>	<b>10/05</b>	<b>11/05</b>	<b>12/05</b>	<b>1/06</b>	<b>2/06</b>	<b>3/06</b>	<b>4/06</b>	<b>5/06</b>	<b>6/06</b>
Maximum leakage	1.900	1.900	1.900	2.000	2.100	2.000	2.200	2.200	2.400	2.000	2.200	2.200
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
<b>Indicator value</b>	<b>7.6</b>	<b>7.6</b>	<b>7.6</b>	<b>8.0</b>	<b>8.4</b>	<b>8.0</b>	<b>8.8</b>	<b>8.8</b>	<b>9.6</b>	<b>8.0</b>	<b>8.8</b>	<b>8.8</b>
<b>Reactor Coolant System Leakage</b>	<b>7/06</b>	<b>8/06</b>	<b>9/06</b>	<b>10/06</b>	<b>11/06</b>	<b>12/06</b>	<b>1/07</b>	<b>2/07</b>	<b>3/07</b>	<b>4/07</b>	<b>5/07</b>	<b>6/07</b>
Maximum leakage	2.300	2.200	2.300	2.500	2.250	2.600	2.400	2.600	3.000	3.200	3.200	2.400
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
<b>Indicator value</b>	<b>9.2</b>	<b>8.8</b>	<b>9.2</b>	<b>10.0</b>	<b>9.0</b>	<b>10.4</b>	<b>9.6</b>	<b>10.4</b>	<b>12.0</b>	<b>12.8</b>	<b>12.8</b>	<b>9.6</b>

Licensee Comments: none

## Drill/Exercise Performance



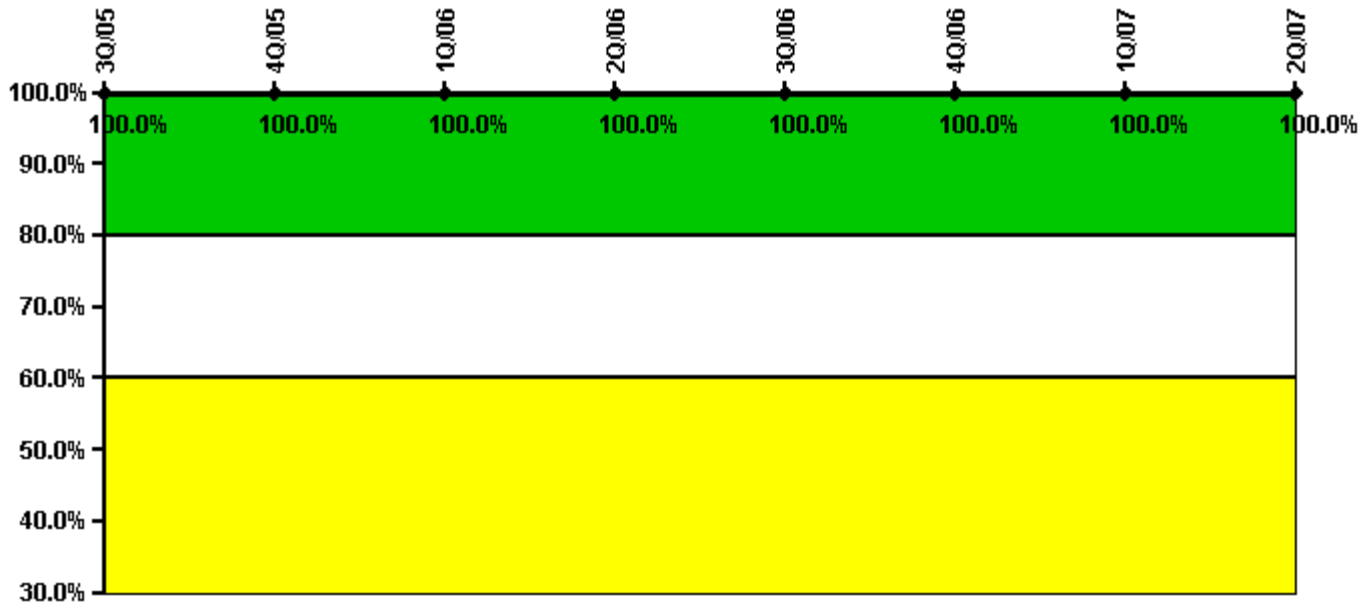
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful opportunities	32.0	20.0	16.0	54.0	36.0	58.0	10.0	71.0
Total opportunities	32.0	22.0	16.0	55.0	36.0	58.0	10.0	72.0
<b>Indicator value</b>	<b>96.9%</b>	<b>97.2%</b>	<b>97.7%</b>	<b>97.8%</b>	<b>97.8%</b>	<b>98.9%</b>	<b>98.9%</b>	<b>98.7%</b>

Licensee Comments: none

# ERO Drill Participation



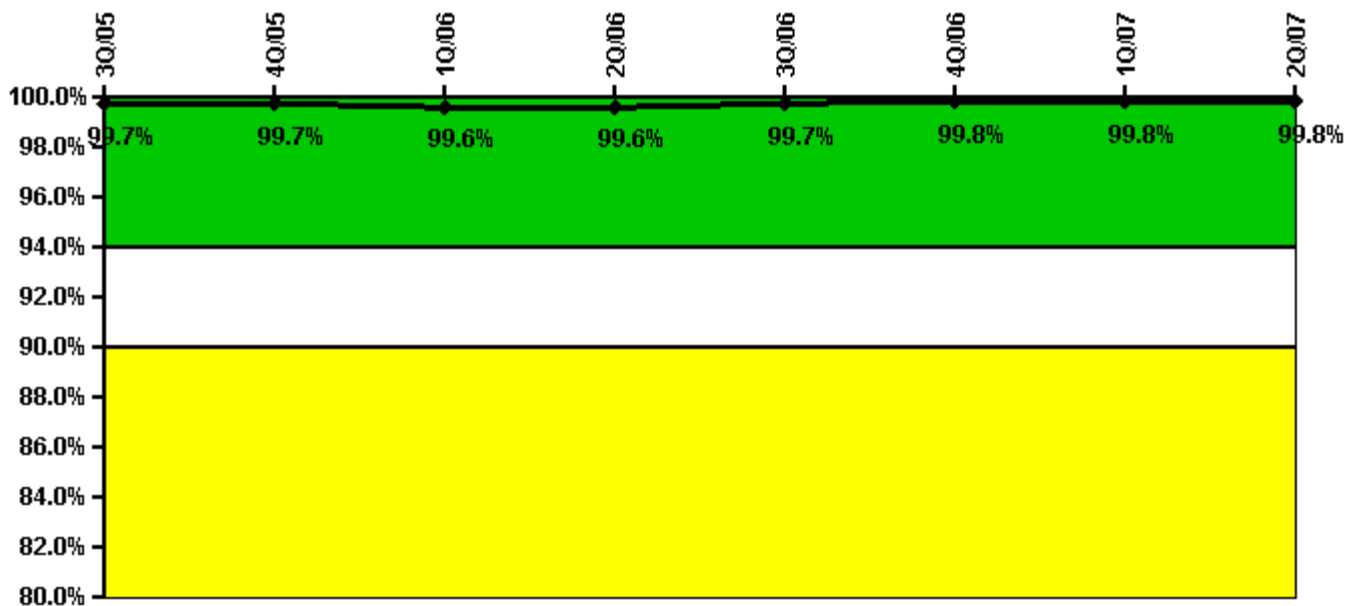
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Participating Key personnel	64.0	66.0	67.0	69.0	69.0	69.0	72.0	69.0
Total Key personnel	64.0	66.0	67.0	69.0	69.0	69.0	72.0	69.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments: none

# Alert & Notification System



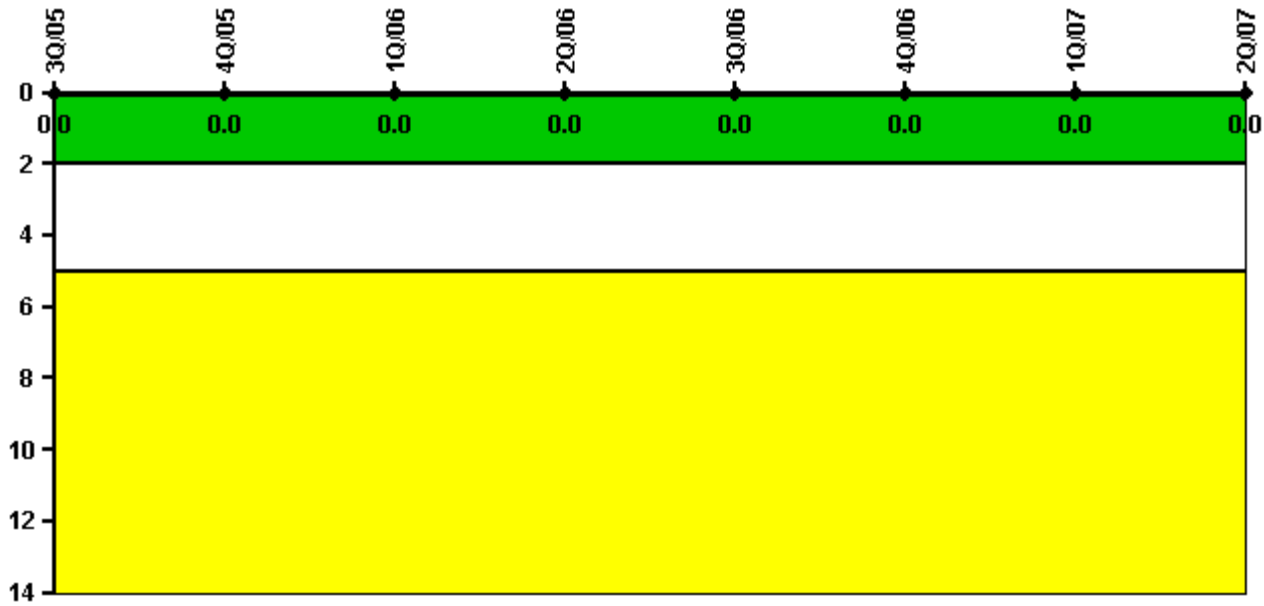
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	2133	2140	2138	2138	2140	2143	2140	2139
Total sirens-tests	2145	2145	2145	2145	2145	2145	2145	2145
Indicator value	99.7%	99.7%	99.6%	99.6%	99.7%	99.8%	99.8%	99.8%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



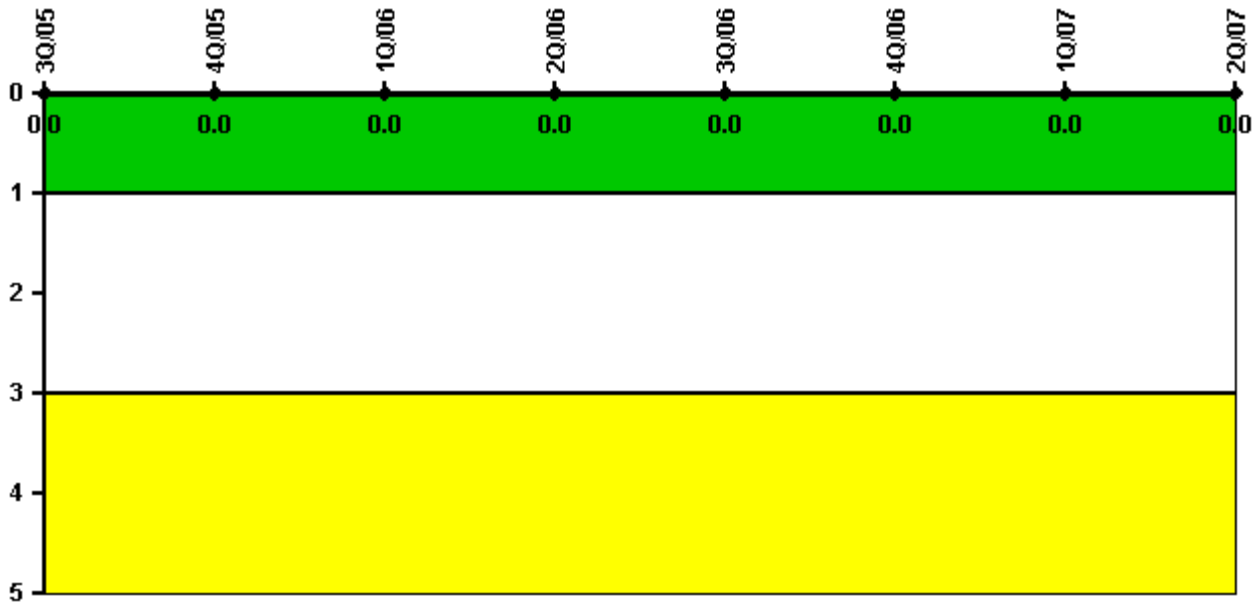
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
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	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Physical Protection](#) information not publicly available.

▲ [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: August 6, 2007