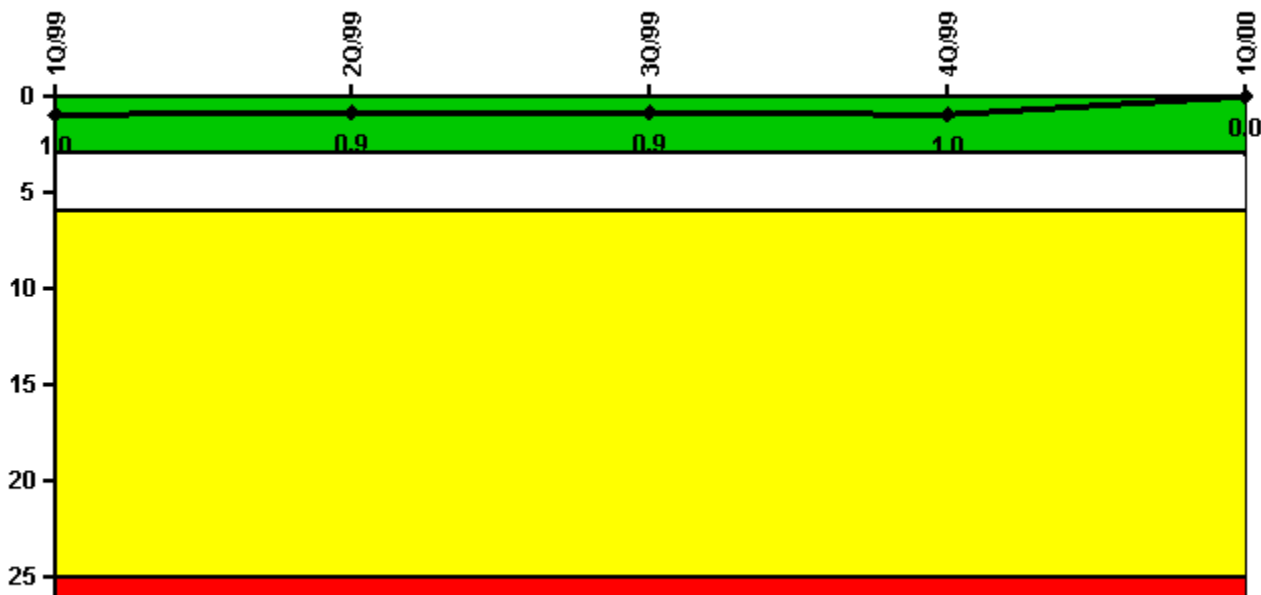


### Grand Gulf 1

#### 1Q/2000 Performance Indicators

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



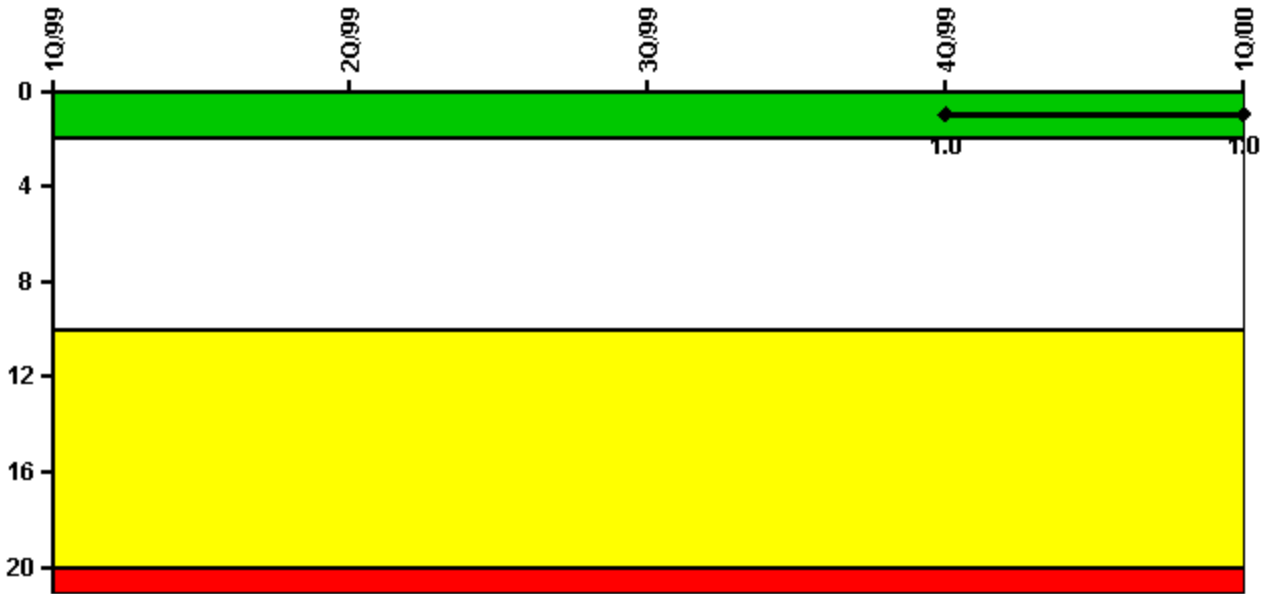
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

#### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	1.0	0	0	0	0
Critical hours	1625.9	2183.0	2208.0	1107.3	2184.0
<b>Indicator value</b>	<b>1.0</b>	<b>0.9</b>	<b>0.9</b>	<b>1.0</b>	<b>0</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



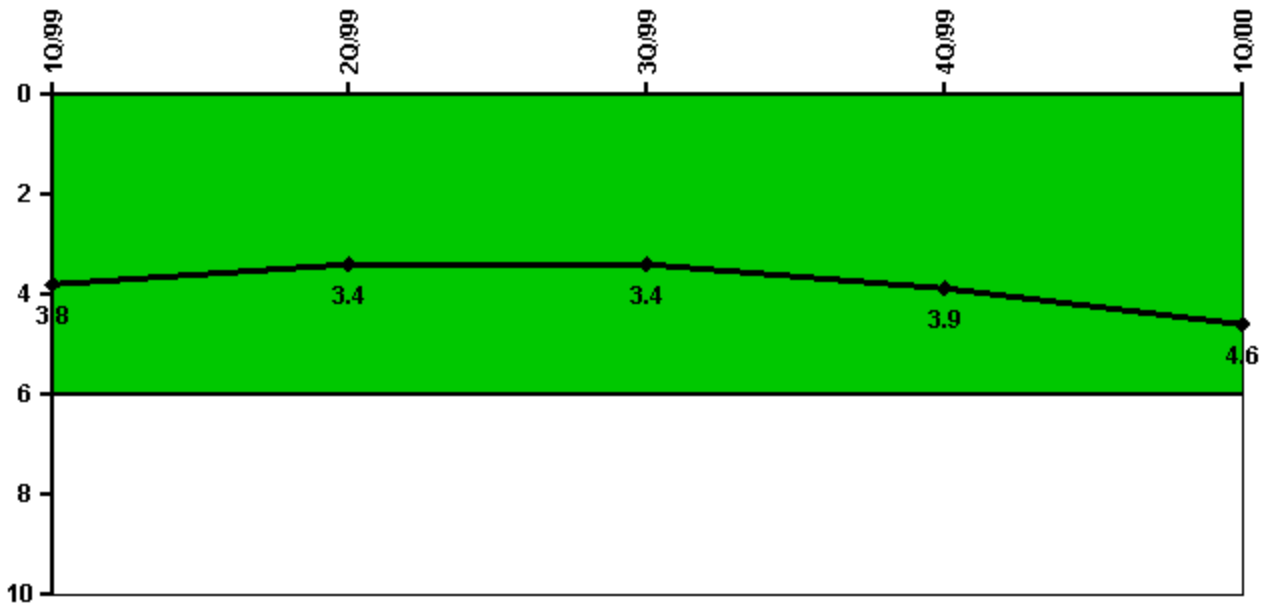
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Scrams	1.0	0	0	0	0
Indicator value				1.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	1.0	0	1.0	2.0	2.0
Critical hours	1625.9	2183.0	2208.0	1107.3	2184.0
<b>Indicator value</b>	<b>3.8</b>	<b>3.4</b>	<b>3.4</b>	<b>3.9</b>	<b>4.6</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
<b>Train 1</b>					
Planned unavailable hours	95.10	25.05	0	0	37.61
Unplanned unavailable hours	0	0.17	31.66	0	0
Fault exposure hours	0	0	323.95	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Train 2</b>					
Planned unavailable hours	43.80	38.60	0	0	49.58
Unplanned unavailable hours	0	44.60	17.30	4.10	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Train 3</b>					
Planned unavailable hours	26.30	1.25	59.78	0	39.97
Unplanned unavailable hours	0	0	205.70	0	0
Fault exposure hours	0	0	1444.80	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Indicator value</b>				<b>3.6%</b>	<b>3.7%</b>

#### Licensee Comments:

3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator from white to green.

3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator from white to green.



### Safety System Unavailability, High Pressure Injection System (HPCS)



Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
<b>Train 1</b>					
Planned unavailable hours	15.90	0.51	16.30	0	43.78
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1625.80	2183.00	2208.00	1107.30	2184.00
<b>Indicator value</b>				<b>0.6%</b>	<b>0.5%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



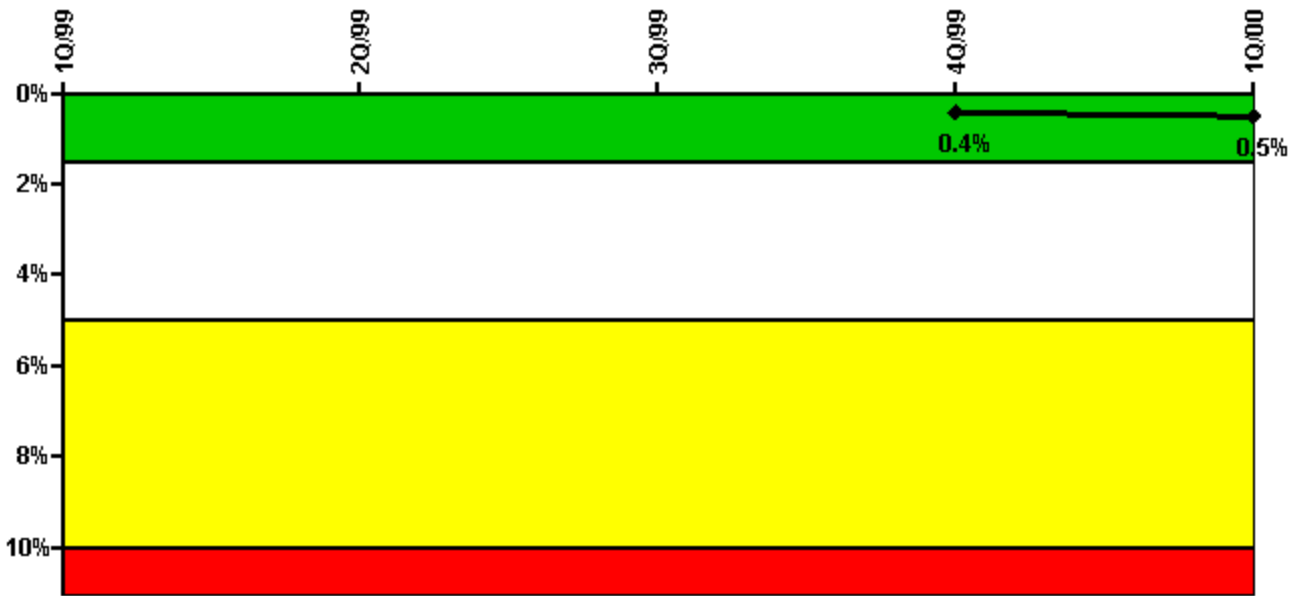
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
<b>Train 1</b>					
Planned unavailable hours	0	36.72	0	71.64	27.23
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1625.80	2183.00	2208.00	1107.30	2184.00
<b>Indicator value</b>				<b>1.2%</b>	<b>1.2%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



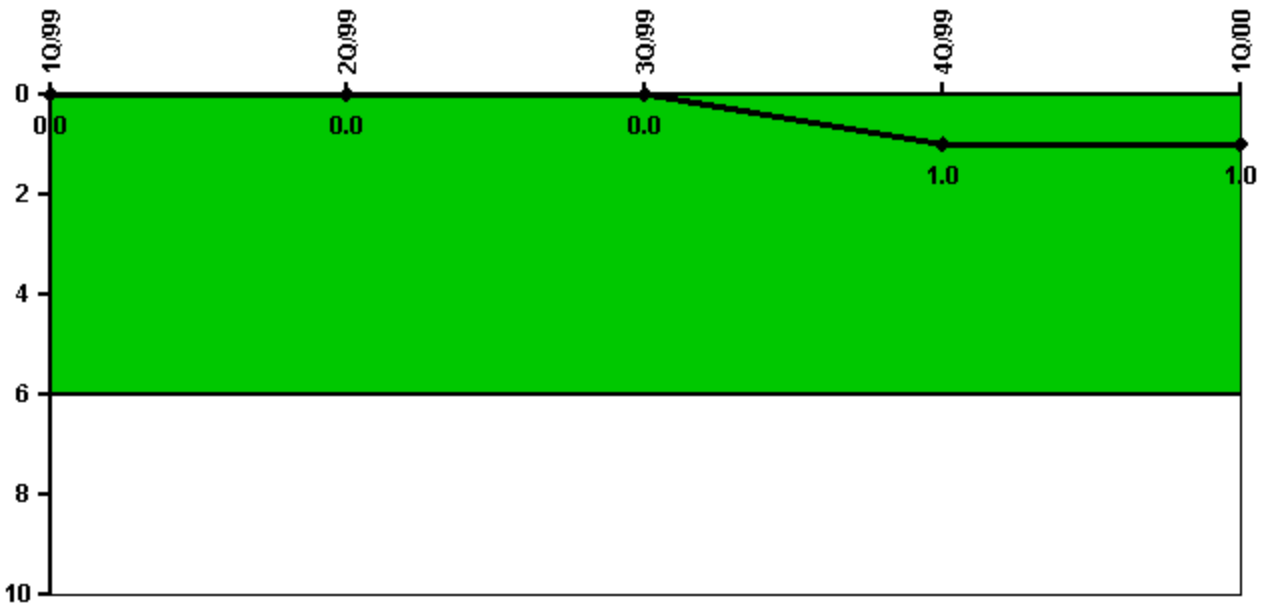
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
<b>Train 1</b>					
Planned unavailable hours	0	11.72	12.41	0	44.88
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Train 2</b>					
Planned unavailable hours	17.20	24.25	0	4.75	18.93
Unplanned unavailable hours	0	0	0	6.16	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Indicator value</b>				<b>0.4%</b>	<b>0.5%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



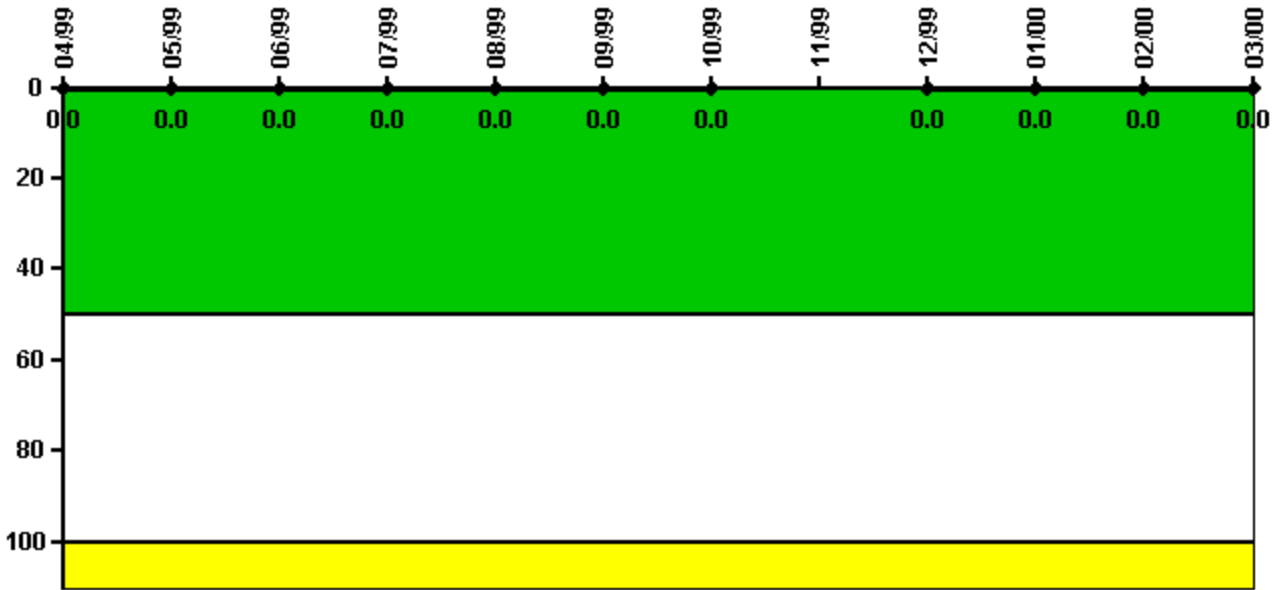
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Safety System Functional Failures	0	0	0	1	0
Indicator value	0	0	0	1	1

Licensee Comments: none

### Reactor Coolant System Activity



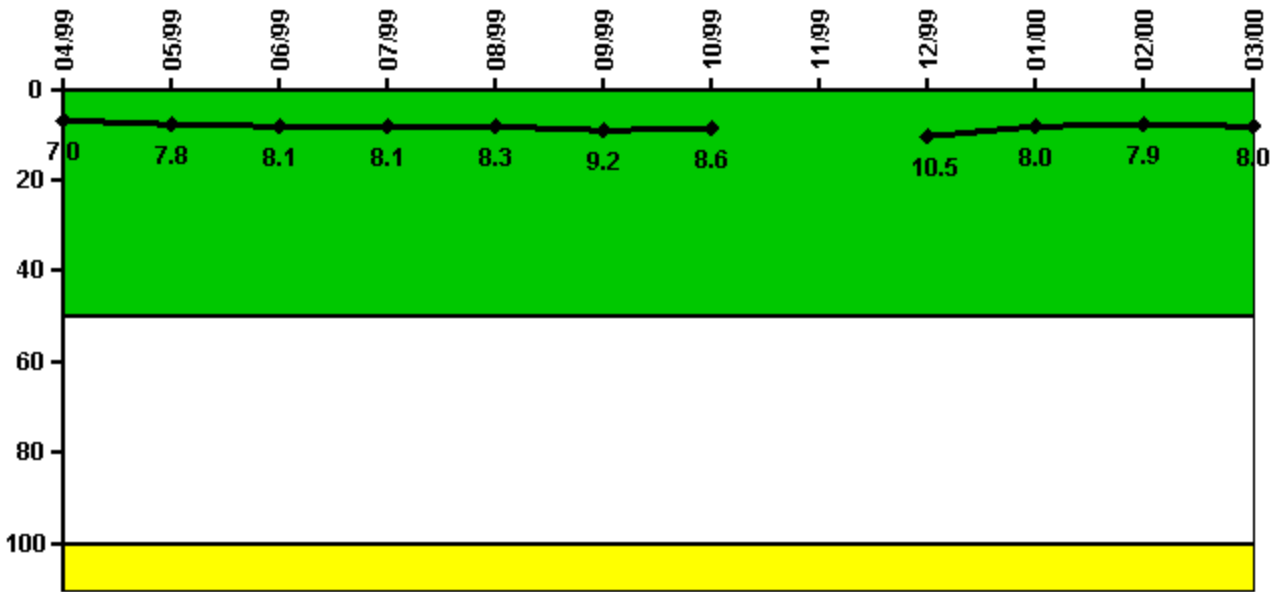
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity	0.000053	0.000079	0.000045	0.000047	0.000045	0.000056	0.000060	N/A	0.000036	0.000051	0.000039	0.000050
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	N/A	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



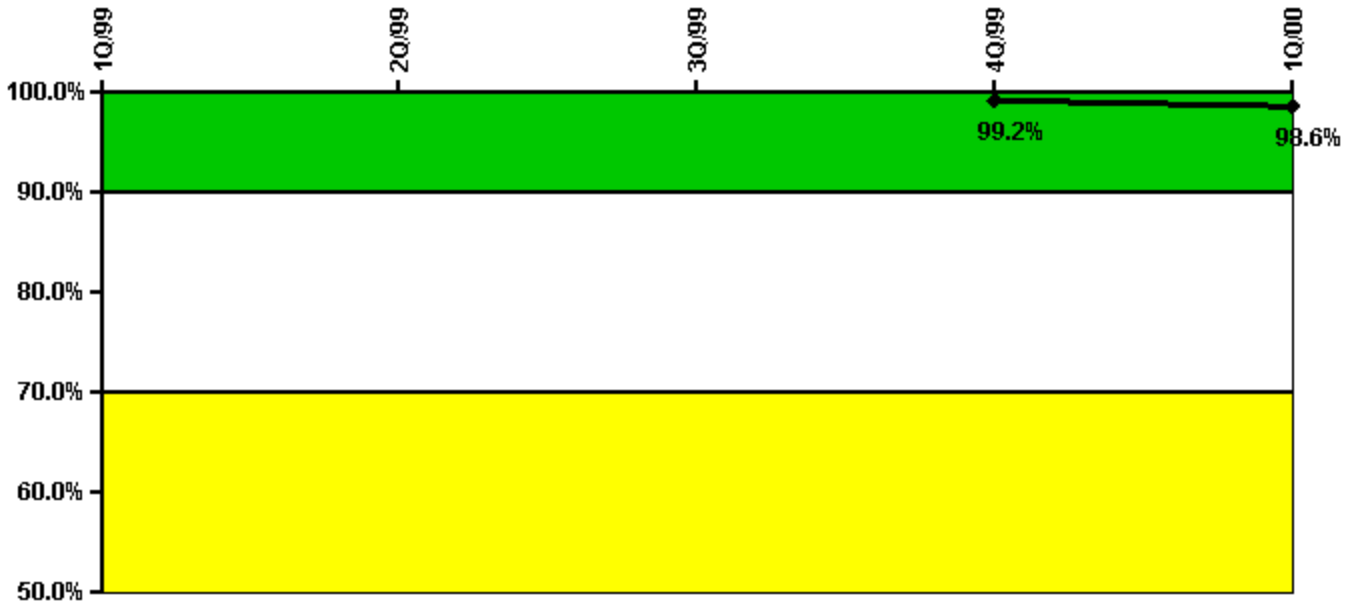
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage	2.100	2.340	2.420	2.440	2.480	2.760	2.580	N/A	3.160	2.390	2.370	2.390
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.0	7.8	8.1	8.1	8.3	9.2	8.6	N/A	10.5	8.0	7.9	8.0

Licensee Comments: none

### Drill/Exercise Performance



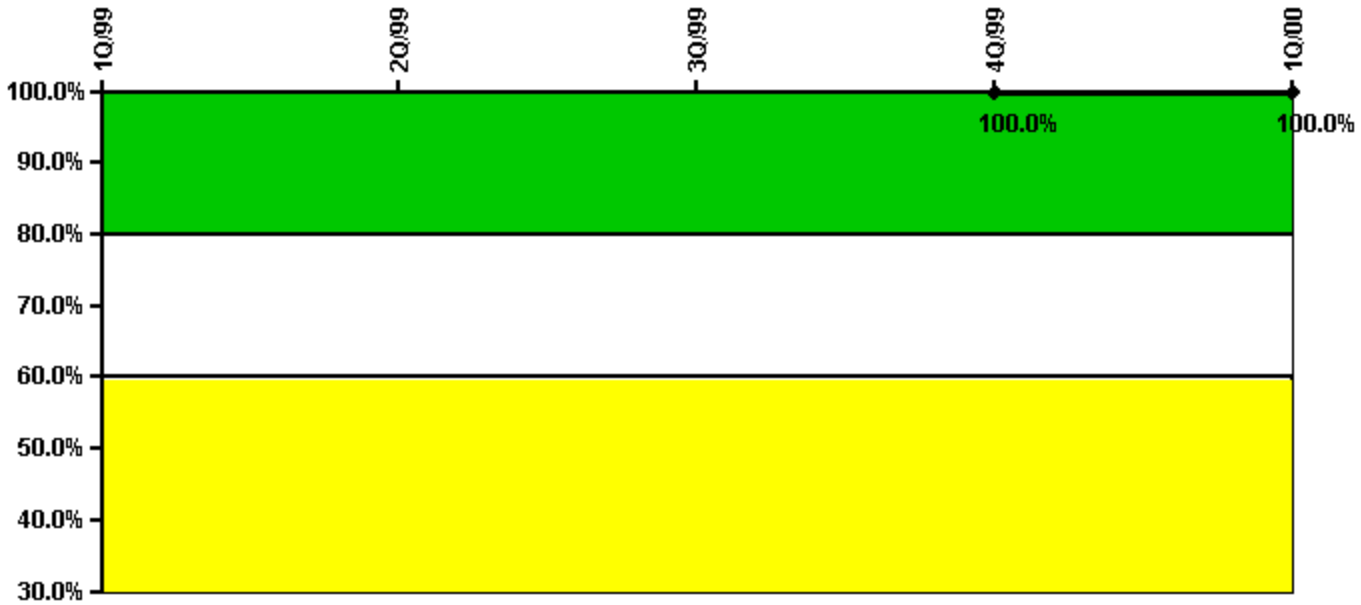
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities	11.0	50.0	0	11.0	32.0
Total opportunities	11.0	51.0	0	11.0	33.0
<b>Indicator value</b>				<b>99.2%</b>	<b>98.6%</b>

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

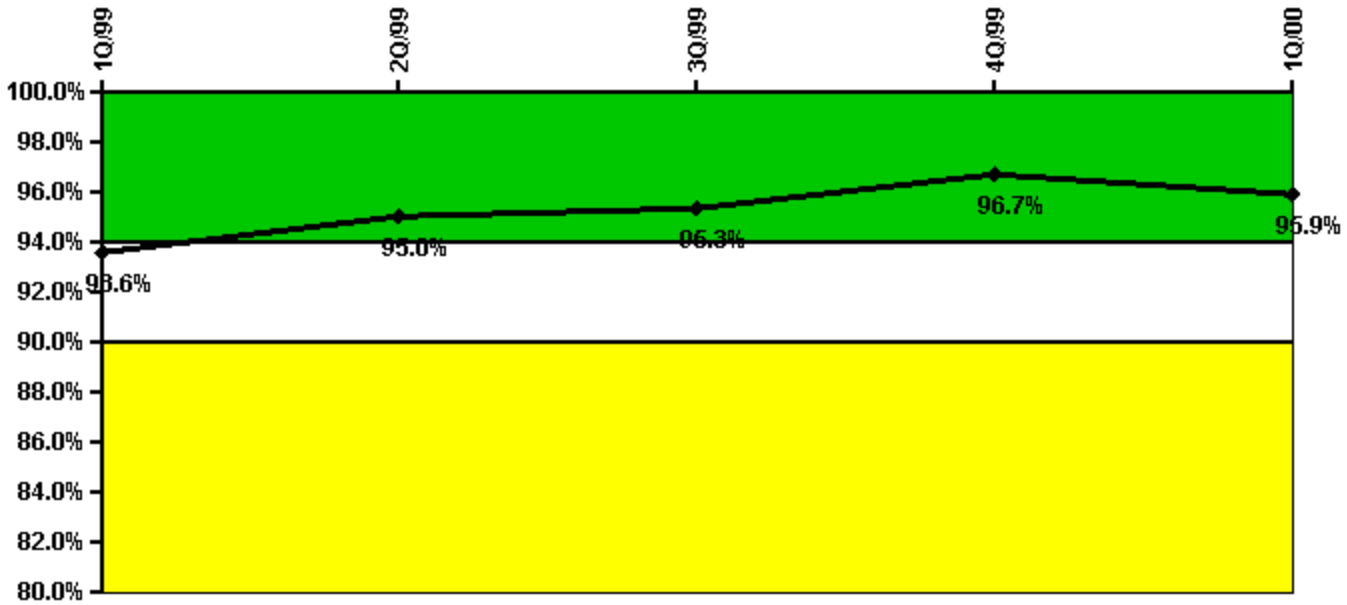
#### Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel				55.0	63.0
Total Key personnel				55.0	63.0
<b>Indicator value</b>				<b>100.0%</b>	<b>100.0%</b>

Licensee Comments: none



### Alert & Notification System



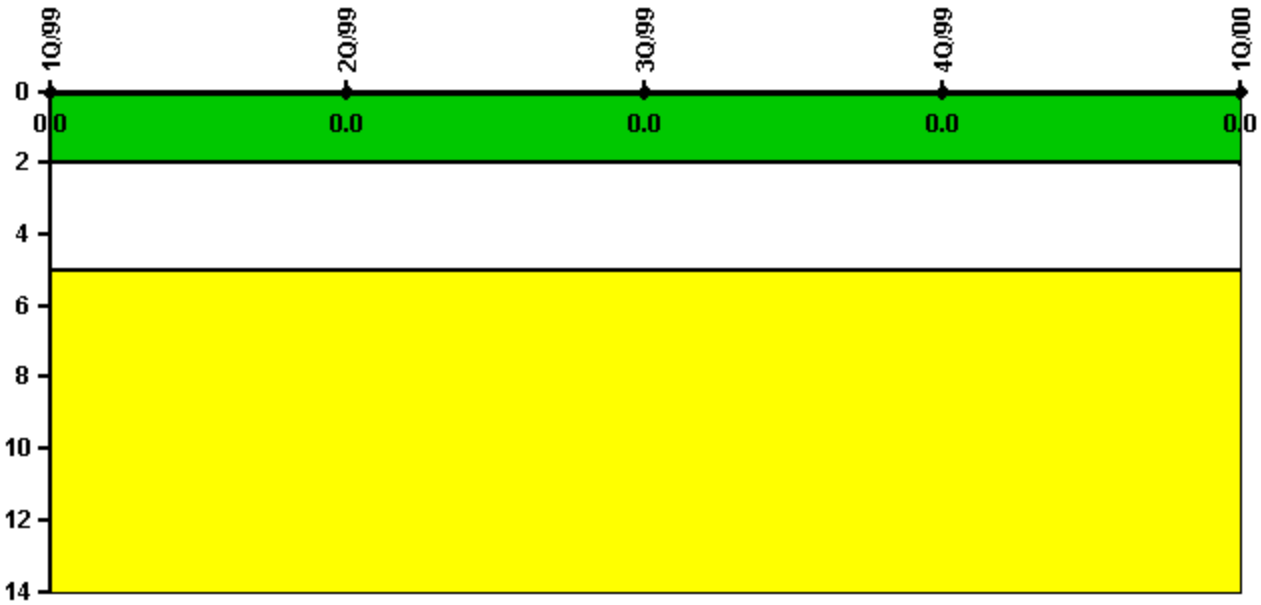
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	126	126	124	123	122
Total sirens-tests	129	129	129	129	129
Indicator value	93.6%	95.0%	95.3%	96.7%	95.9%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



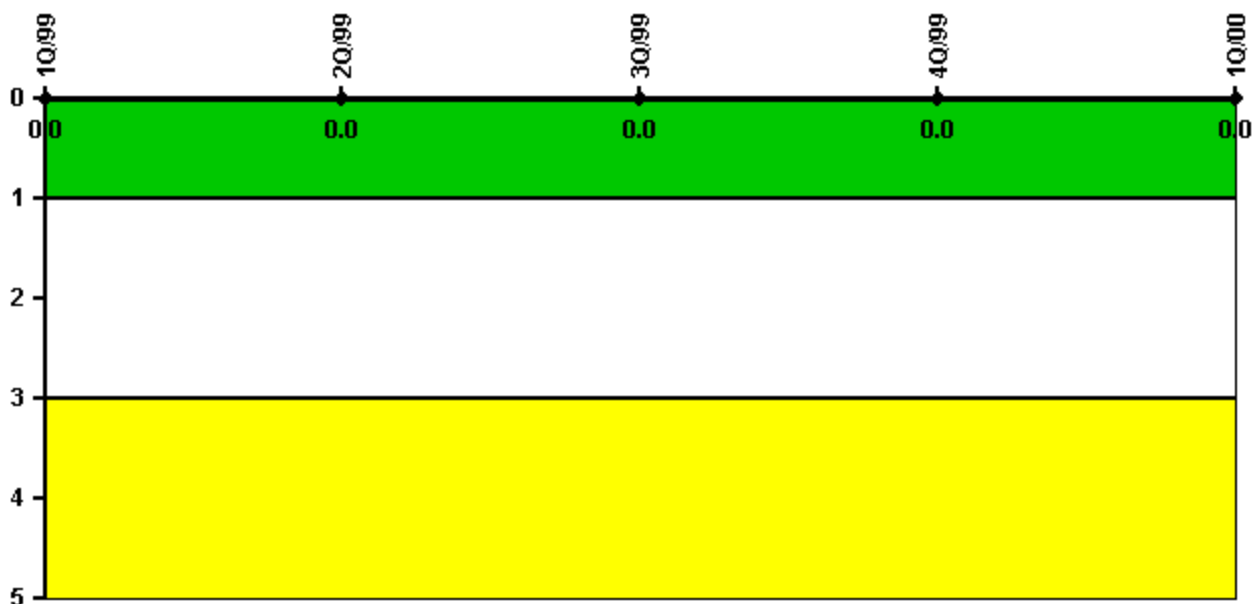
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



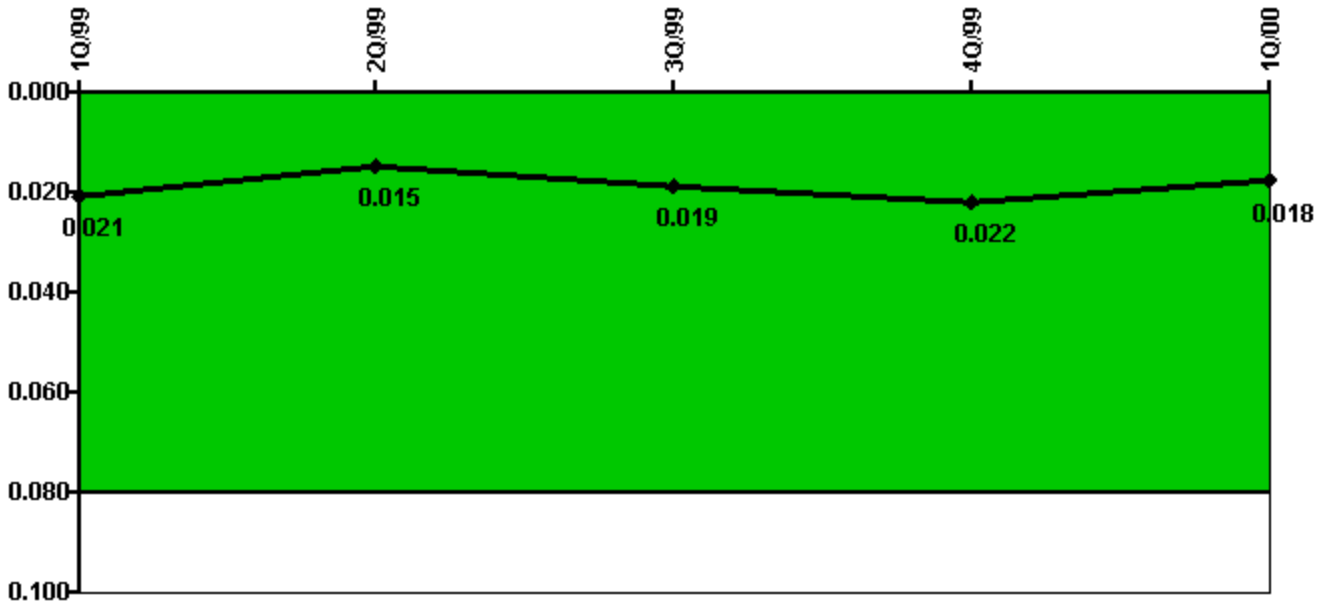
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



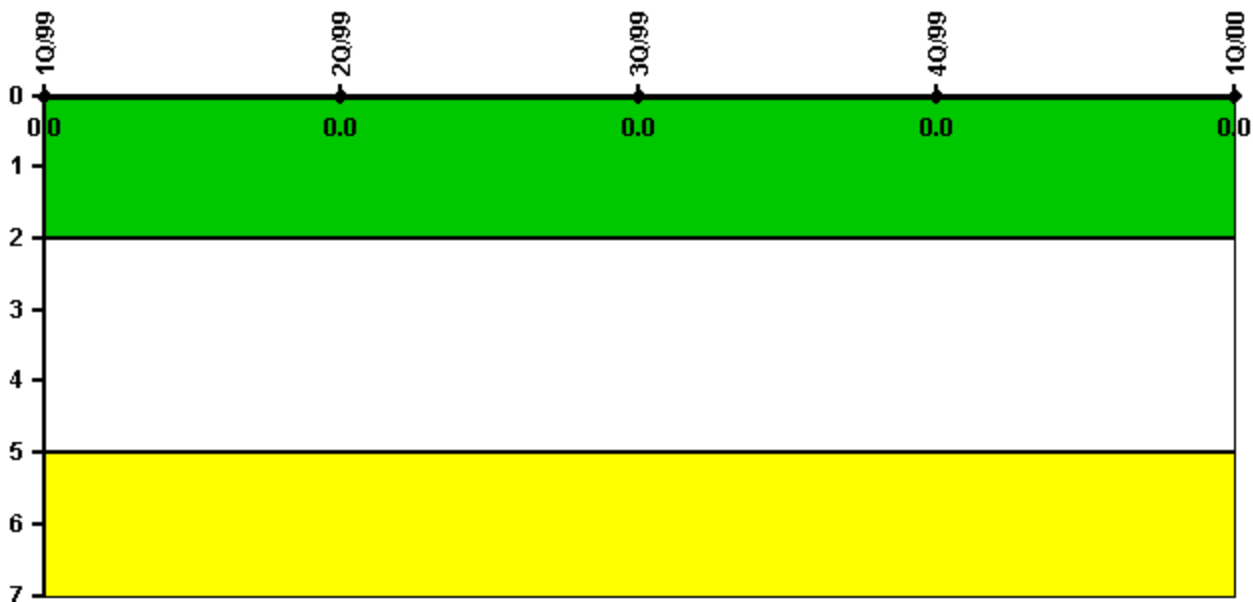
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	174.65	28.38	240.26	93.01	74.70
CCTV compensatory hours	3.3	29.4	0.3	20.4	5.6
IDS normalization factor	1.60	1.60	1.60	1.60	1.60
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2
<b>Index Value</b>	<b>0.021</b>	<b>0.015</b>	<b>0.019</b>	<b>0.022</b>	<b>0.018</b>

Licensee Comments: none

### Personnel Screening Program



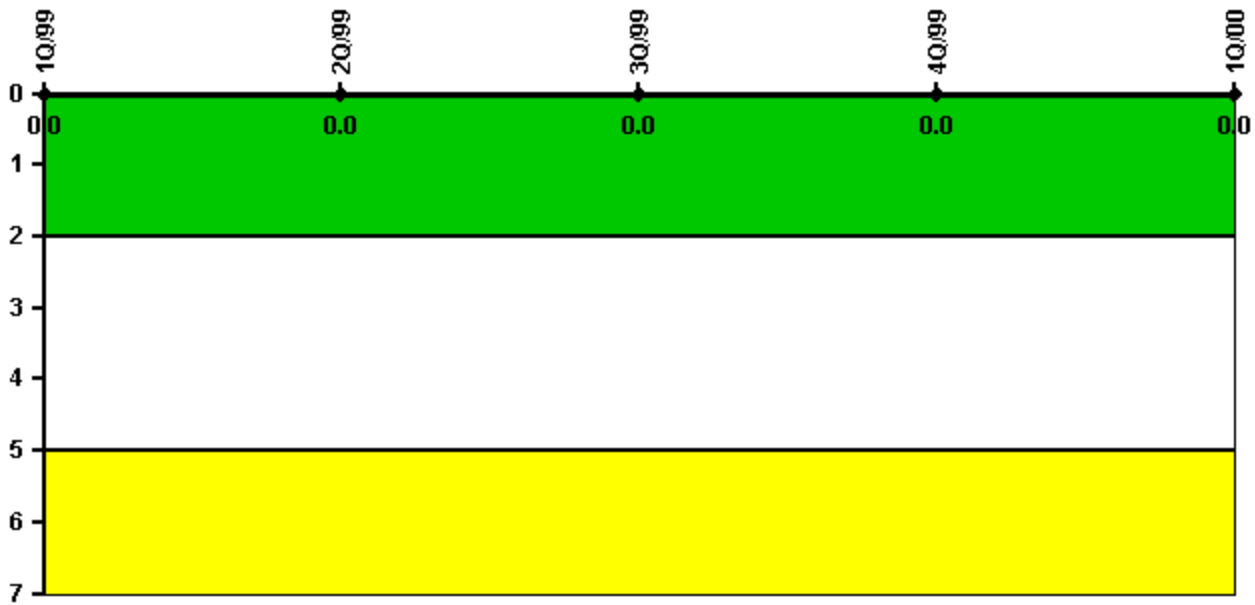
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program Failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

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

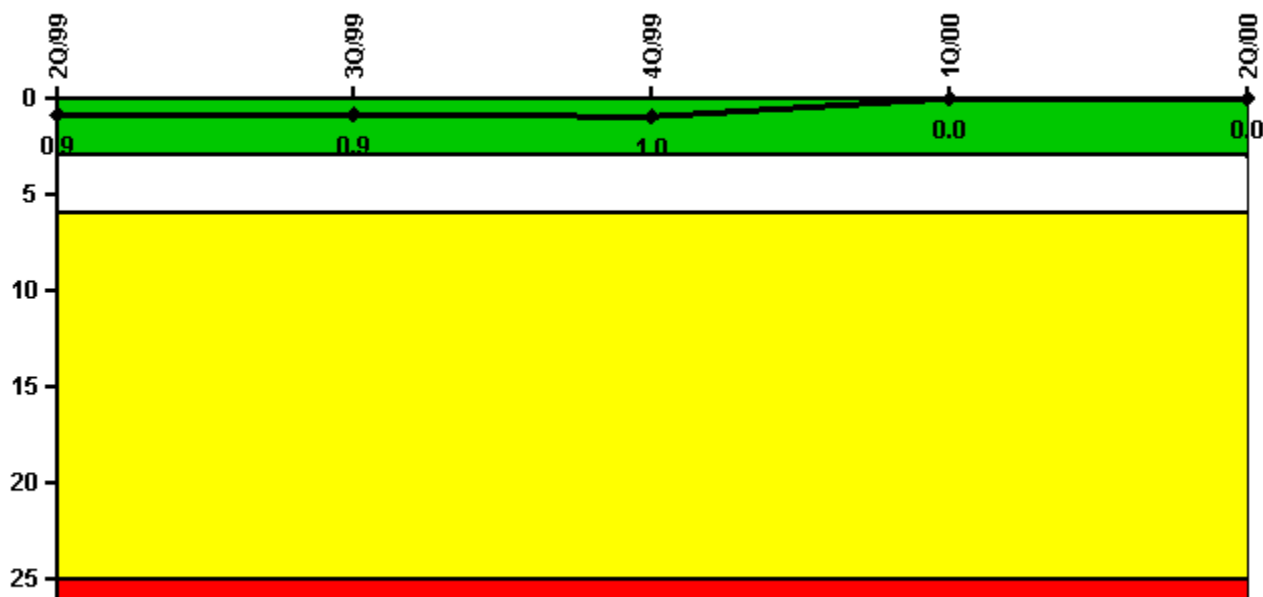
Last Modified: April 1, 2002

### Grand Gulf 1

#### 2Q/2000 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/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	2183.0	2208.0	1107.3	2184.0	2183.0
<b>Indicator value</b>	<b>0.9</b>	<b>0.9</b>	<b>1.0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

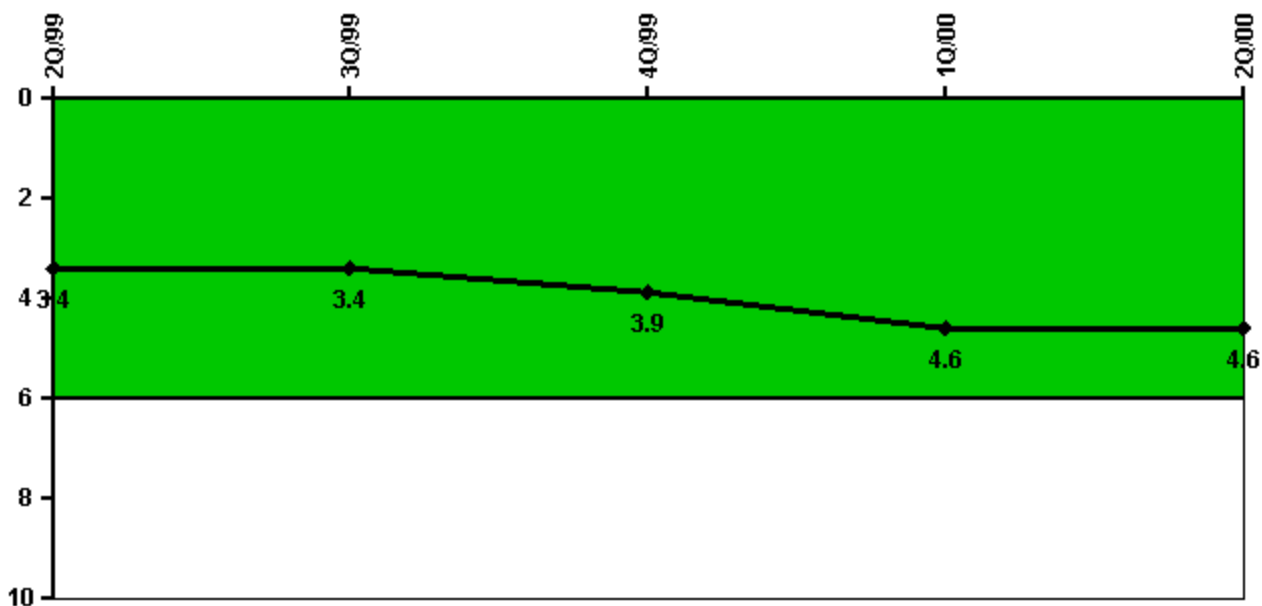
#### Notes

Scrams with Loss of Normal Heat Removal	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Scrams	0	0	0	0	0
Indicator value			1.0	1.0	1.0

Licensee Comments: none



### Unplanned Power Changes per 7000 Critical Hrs



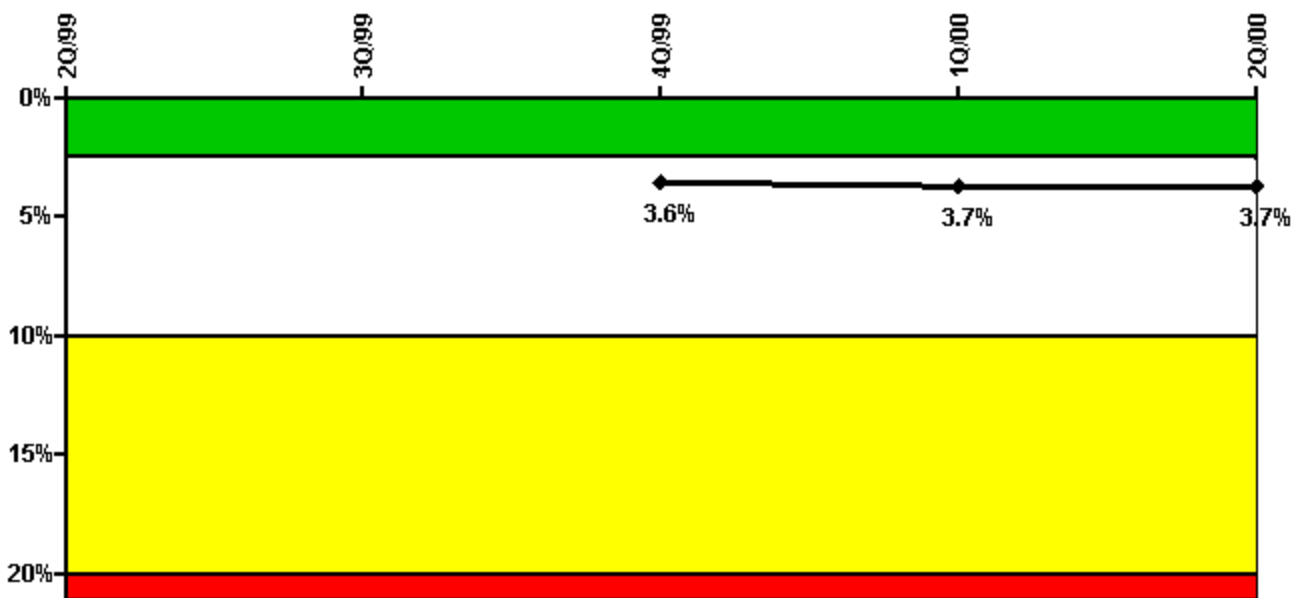
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	1.0	2.0	2.0	0
Critical hours	2183.0	2208.0	1107.3	2184.0	2183.0
<b>Indicator value</b>	<b>3.4</b>	<b>3.4</b>	<b>3.9</b>	<b>4.6</b>	<b>4.6</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

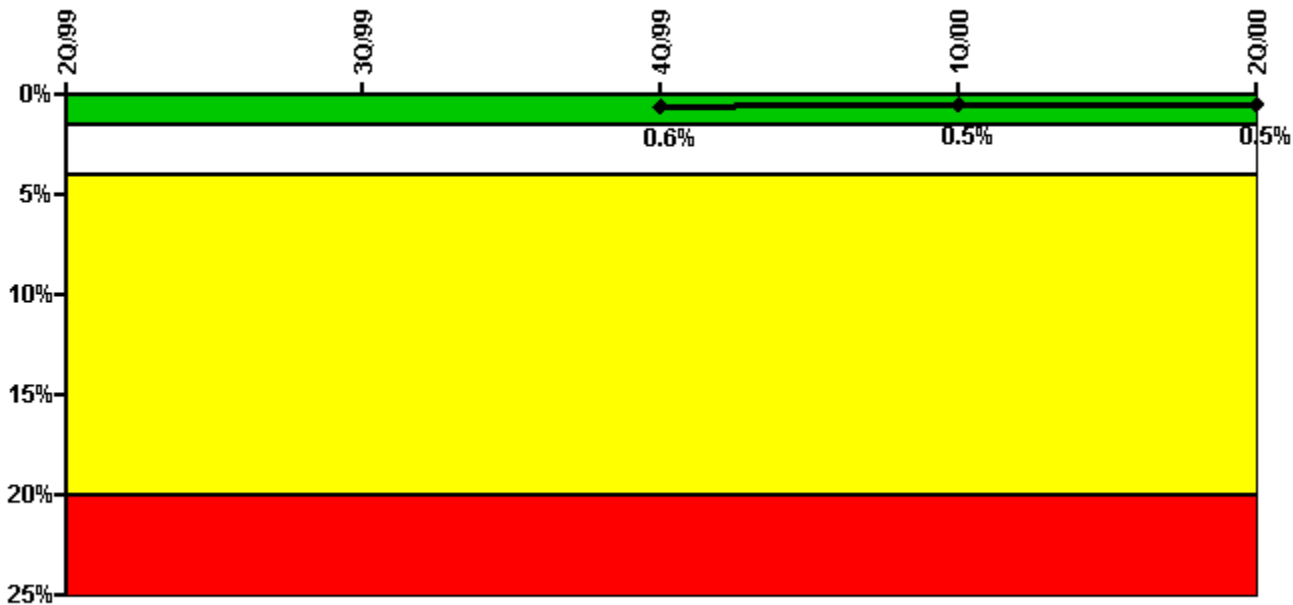
Safety System Unavailability, Emergency AC Power, >2EDG	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
<b>Train 1</b>					
Planned unavailable hours	25.05	0	0	37.61	43.90
Unplanned unavailable hours	0.17	31.66	0	0	0
Fault exposure hours	0	323.95	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Train 2</b>					
Planned unavailable hours	38.60	0	0	49.58	35.67
Unplanned unavailable hours	44.60	17.30	4.10	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Train 3</b>					
Planned unavailable hours	1.25	59.78	0	39.97	23.82
Unplanned unavailable hours	0	205.70	0	0	9.53
Fault exposure hours	0	1444.80	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Indicator value</b>			3.6%	3.7%	3.7%

#### Licensee Comments:

3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator from white to green.

3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator from white to green.

### Safety System Unavailability, High Pressure Injection System (HPCS)



Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
<b>Train 1</b>					
Planned unavailable hours	0.51	16.30	0	43.78	11.58
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	1107.30	2184.00	2183.00
<b>Indicator value</b>			<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



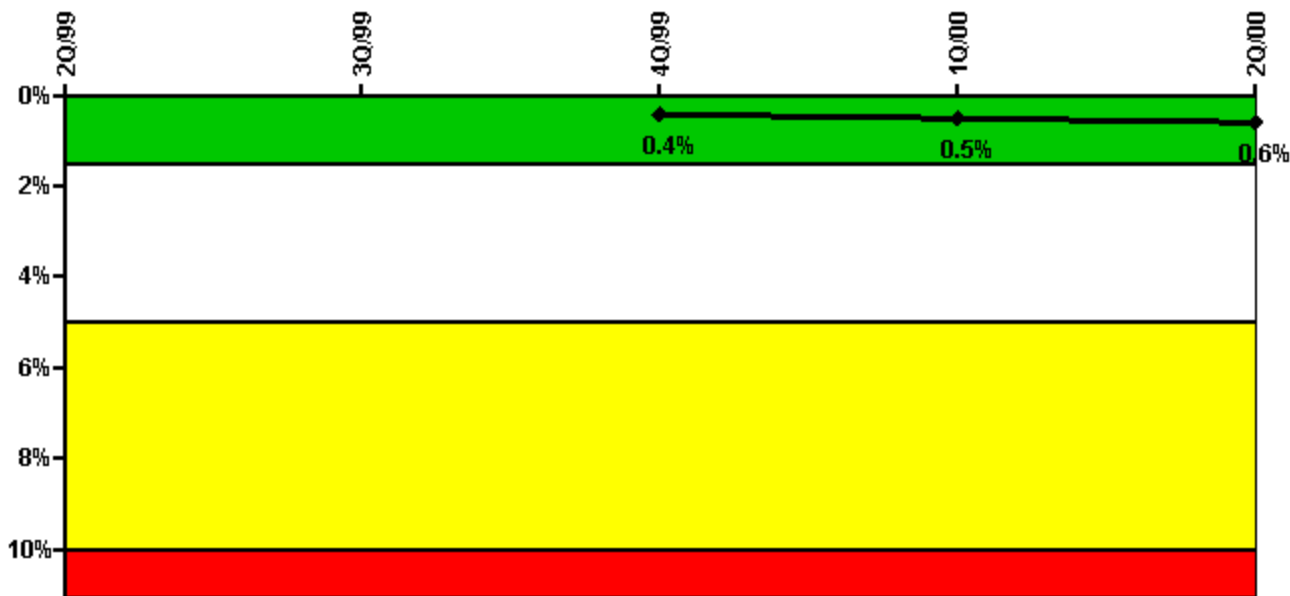
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
<b>Train 1</b>					
Planned unavailable hours	36.72	0	71.64	27.23	76.73
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	1107.30	2184.00	2183.00
<b>Indicator value</b>			<b>1.2%</b>	<b>1.2%</b>	<b>1.6%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



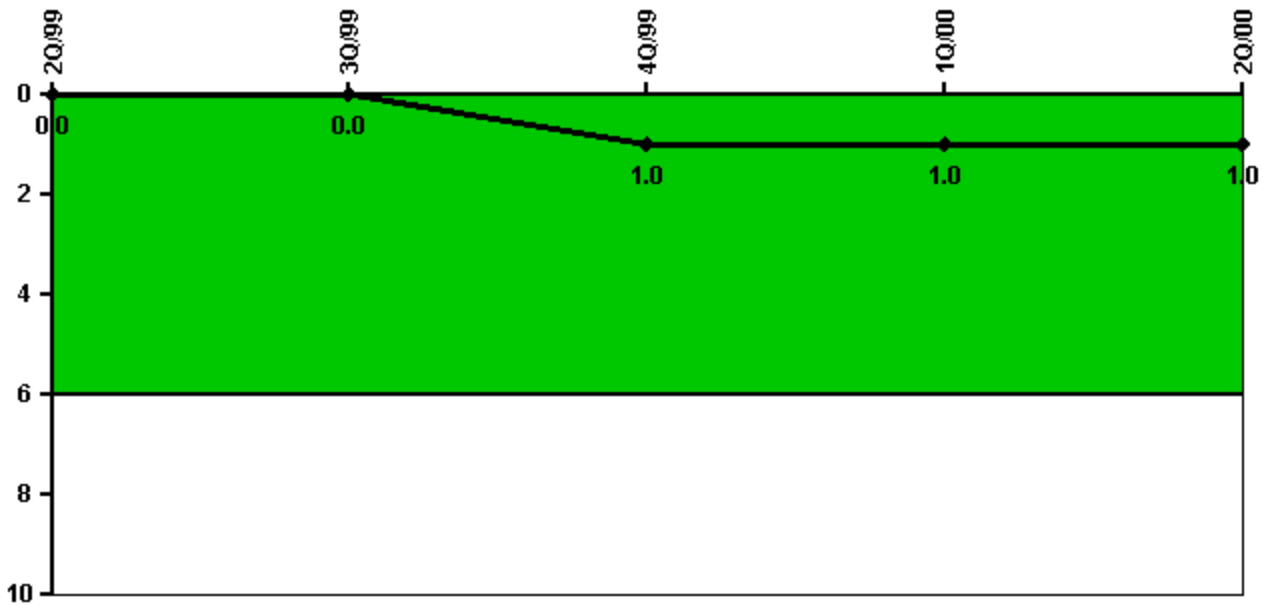
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
<b>Train 1</b>					
Planned unavailable hours	11.72	12.41	0	44.88	16.32
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Train 2</b>					
Planned unavailable hours	24.25	0	4.75	18.93	49.67
Unplanned unavailable hours	0	0	6.16	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Indicator value</b>			<b>0.4%</b>	<b>0.5%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



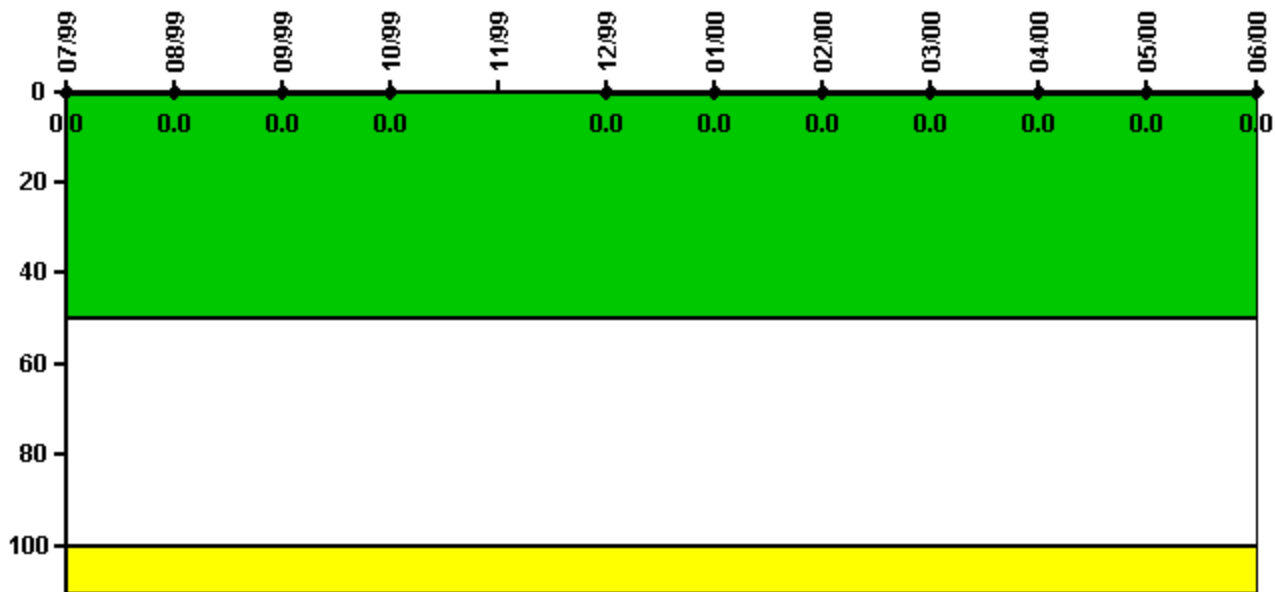
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Safety System Functional Failures	0	0	1	0	0
Indicator value	0	0	1	1	1

Licensee Comments: none

### Reactor Coolant System Activity



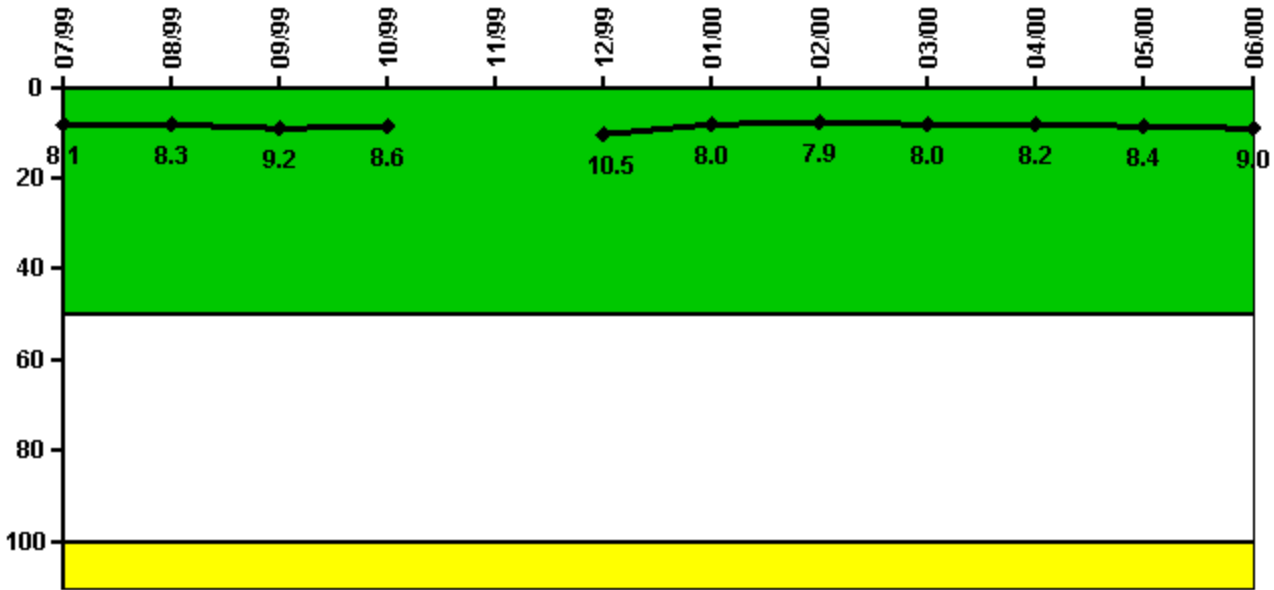
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum activity	0.000047	0.000045	0.000056	0.000060	N/A	0.000036	0.000051	0.000039	0.000050	0.000042	0.000051	0.000045
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	N/A	0	0	0	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

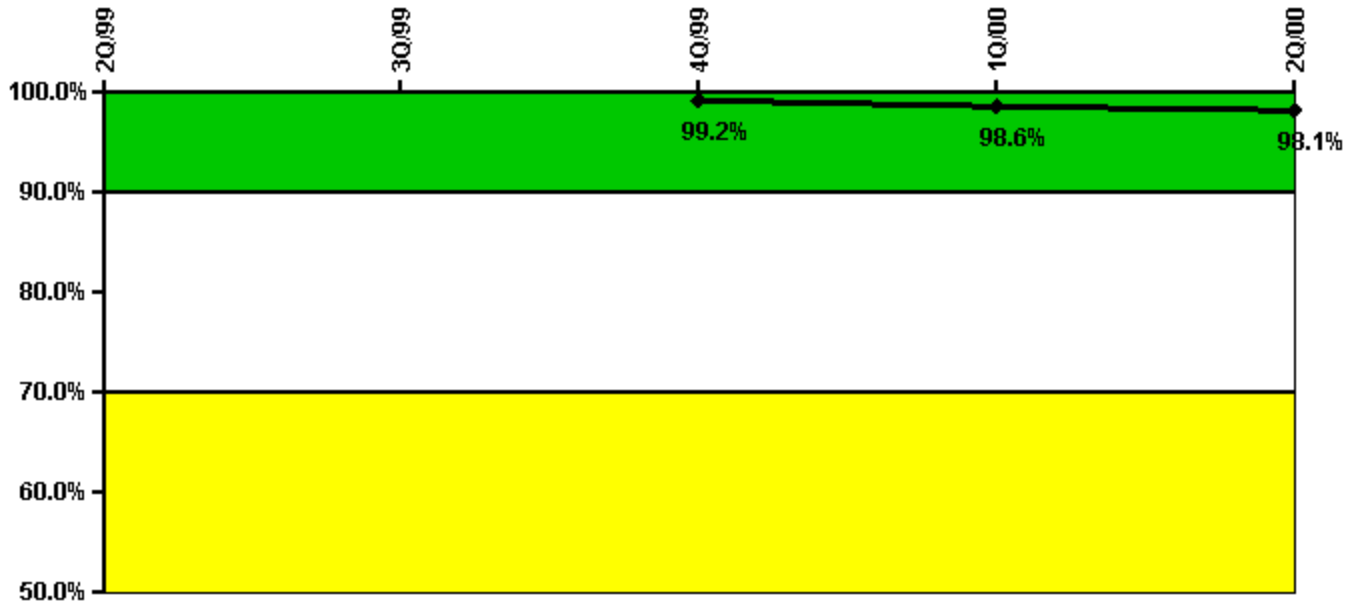
#### Notes

Reactor Coolant System Leakage	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage	2.440	2.480	2.760	2.580	N/A	3.160	2.390	2.370	2.390	2.460	2.510	2.700
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.1	8.3	9.2	8.6	N/A	10.5	8.0	7.9	8.0	8.2	8.4	9.0

Licensee Comments: none



### Drill/Exercise Performance



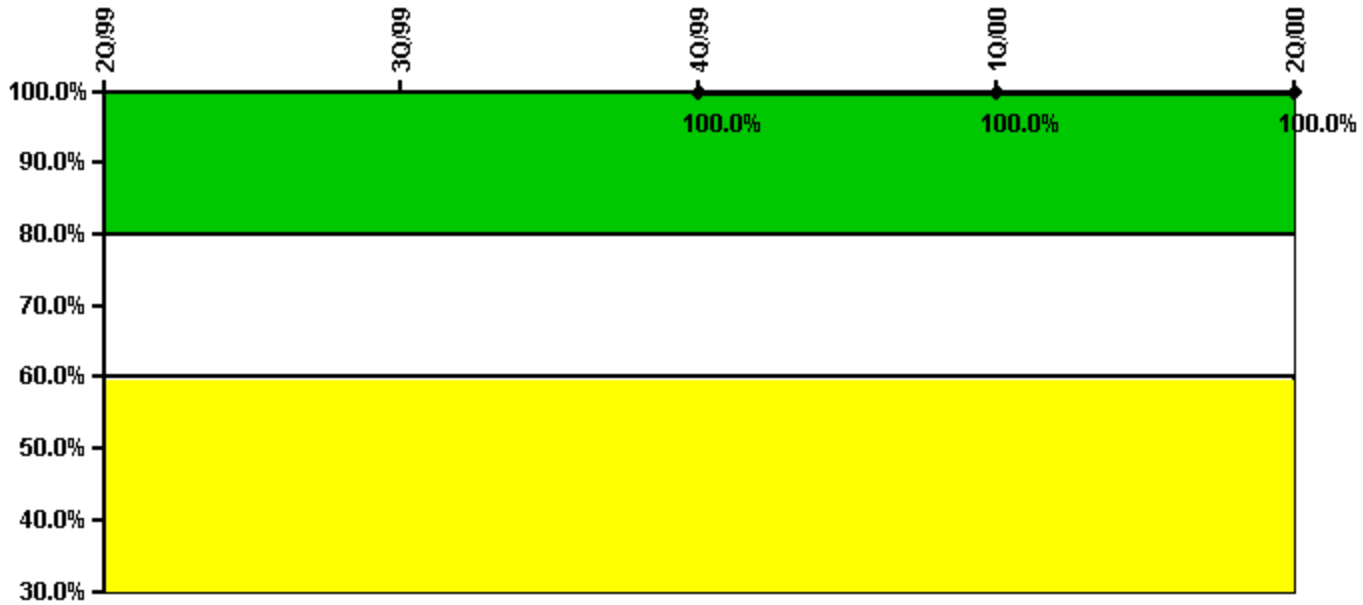
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful opportunities	50.0	0	11.0	32.0	70.0
Total opportunities	51.0	0	11.0	33.0	72.0
<b>Indicator value</b>			<b>99.2%</b>	<b>98.6%</b>	<b>98.1%</b>

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

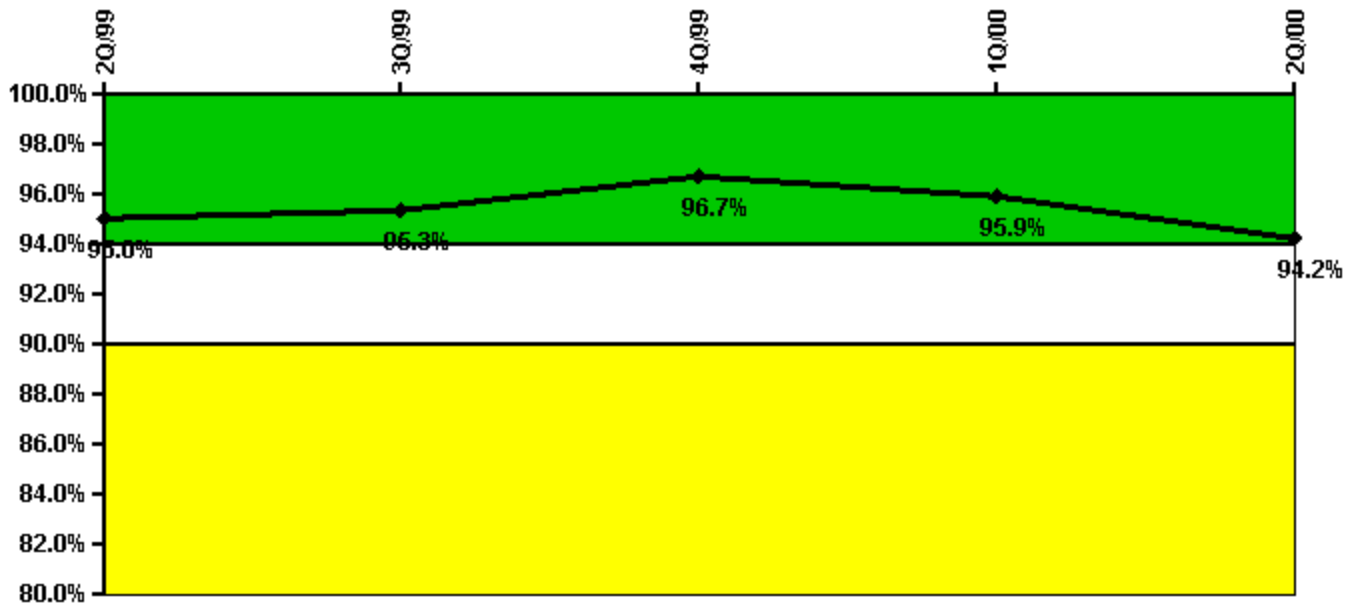
#### Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel			55.0	63.0	61.0
Total Key personnel			55.0	63.0	61.0
<b>Indicator value</b>			<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments:

2Q/00: Identified incorrect data reported for 1st Qtr 2000. One person was not counted that should have been. The inaccuracy did not effect color of indicator.

### Alert & Notification System



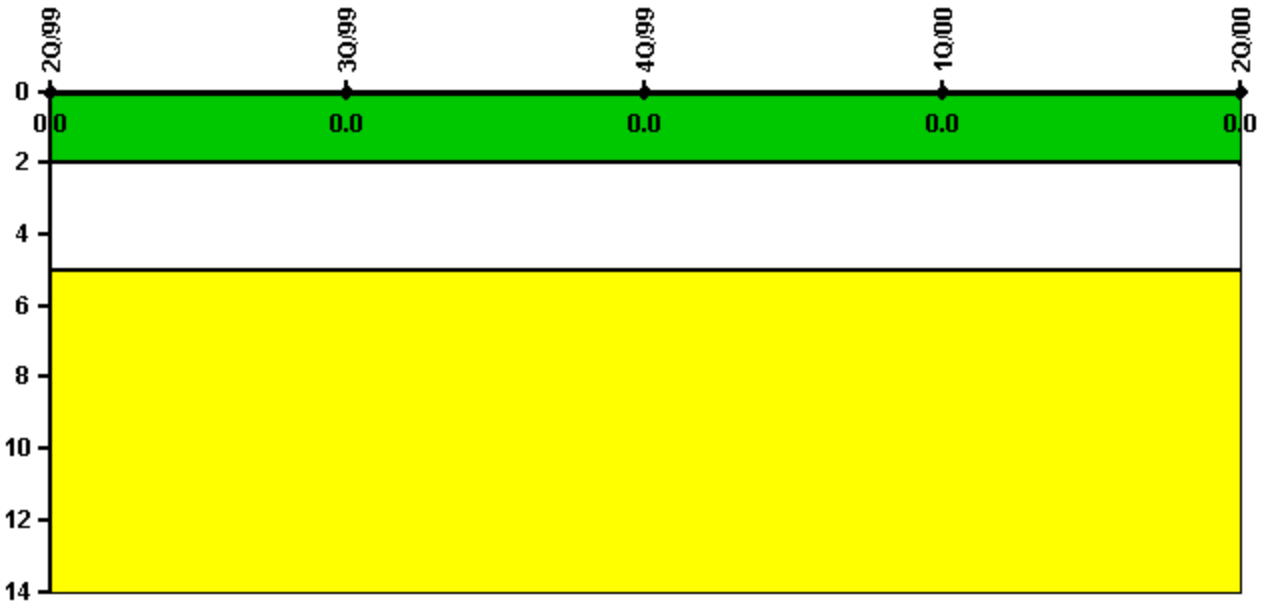
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful siren-tests	126	124	123	122	117
Total sirens-tests	129	129	129	129	129
Indicator value	95.0%	95.3%	96.7%	95.9%	94.2%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



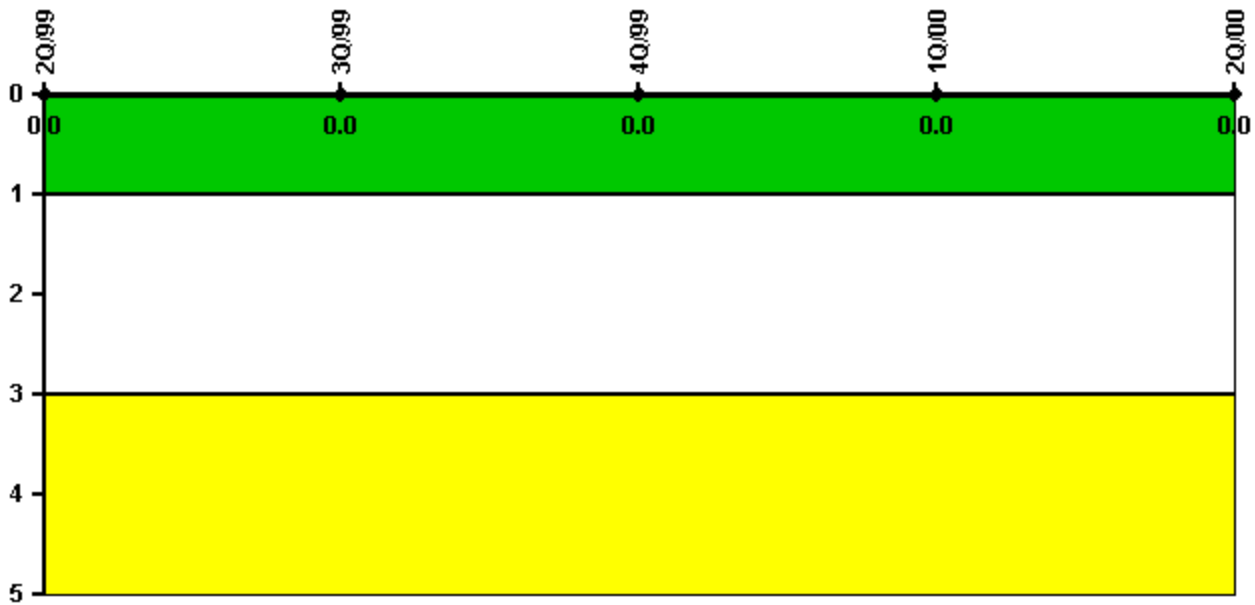
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



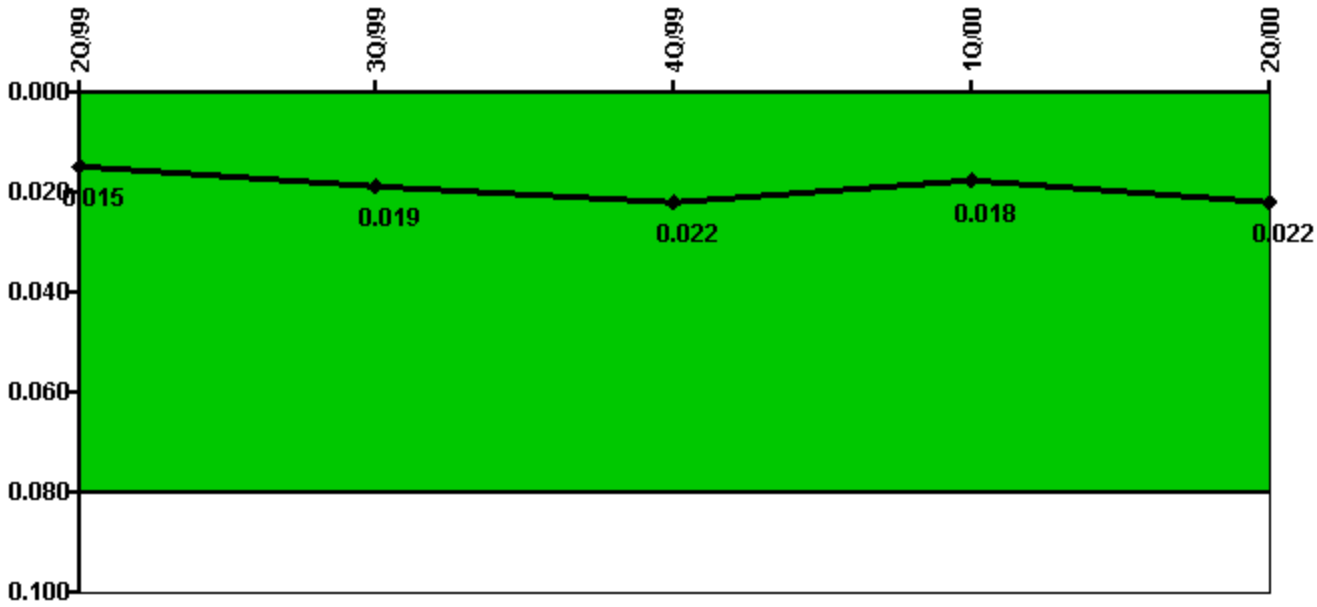
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



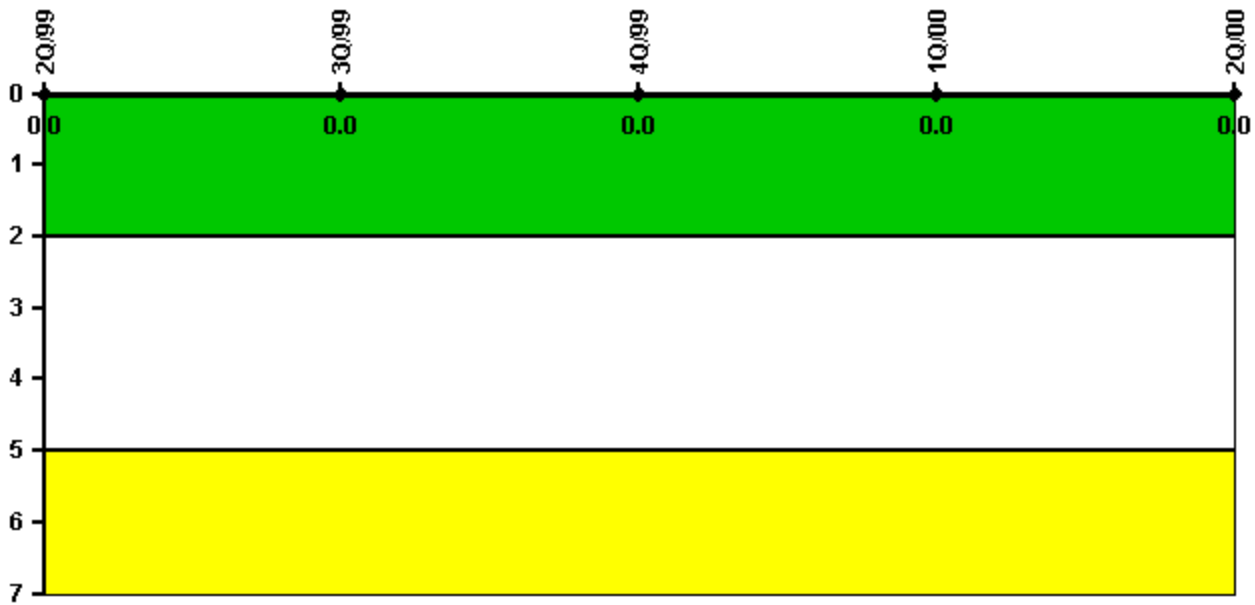
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
IDS compensatory hours	28.38	240.26	93.01	74.70	168.60
CCTV compensatory hours	29.4	0.3	20.4	5.6	1.3
IDS normalization factor	1.60	1.60	1.60	1.60	1.60
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2
<b>Index Value</b>	<b>0.015</b>	<b>0.019</b>	<b>0.022</b>	<b>0.018</b>	<b>0.022</b>

Licensee Comments: none

### Personnel Screening Program



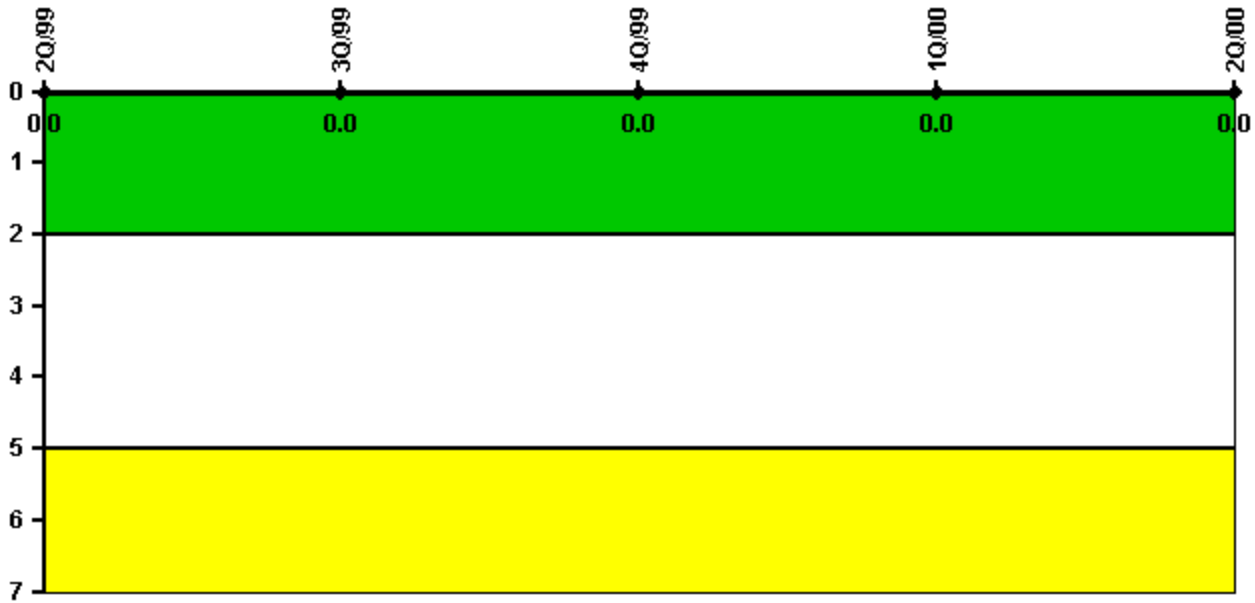
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Program failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Program Failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

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Last Modified: April 1, 2002

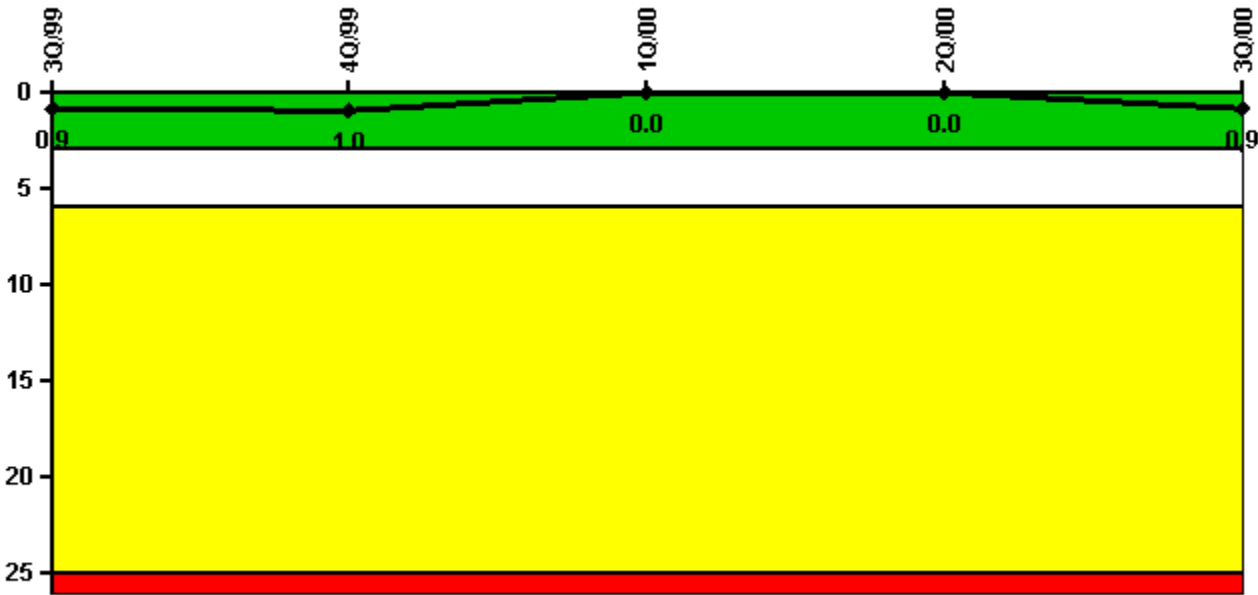


### Grand Gulf 1

#### 3Q/2000 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/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned scrams	0	0	0	0	1.0
Critical hours	2208.0	1107.3	2184.0	2183.0	2155.3
<b>Indicator value</b>	<b>0.9</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



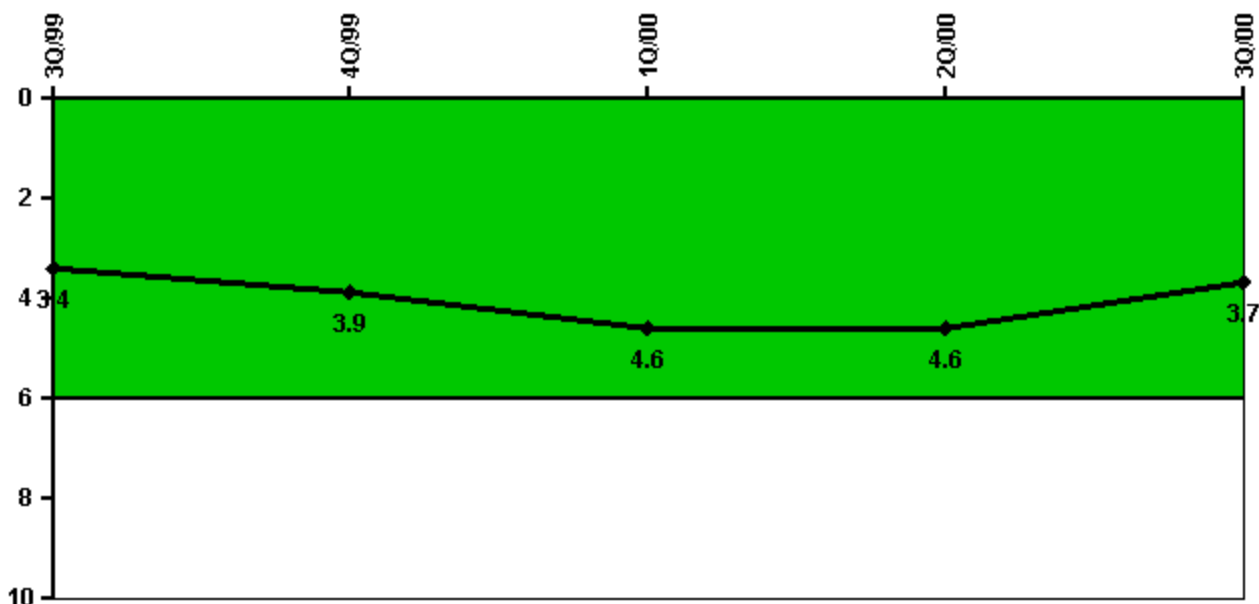
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Scrams	0	0	0	0	0
Indicator value		1.0	1.0	1.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



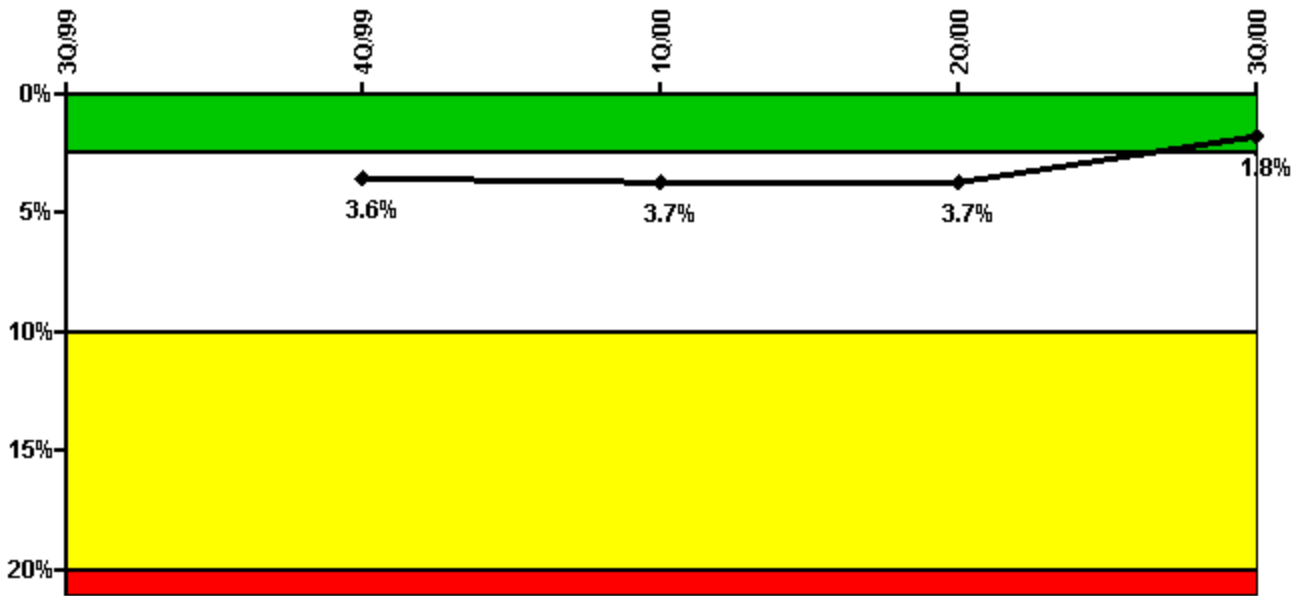
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	1.0	2.0	2.0	0	0
Critical hours	2208.0	1107.3	2184.0	2183.0	2155.3
<b>Indicator value</b>	<b>3.4</b>	<b>3.9</b>	<b>4.6</b>	<b>4.6</b>	<b>3.7</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
<b>Train 1</b>					
Planned unavailable hours	0	0	37.61	43.90	12.82
Unplanned unavailable hours	31.66	0	0	0	0
Fault exposure hours	323.95	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
<b>Train 2</b>					
Planned unavailable hours	0	0	49.58	35.67	21.93
Unplanned unavailable hours	17.30	4.10	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
<b>Train 3</b>					
Planned unavailable hours	59.78	0	39.97	23.82	73.05
Unplanned unavailable hours	205.70	0	0	9.53	0
Fault exposure hours	1444.80	0	0	0	0
Effective Reset hours	0	0	0	0	1444.80
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
<b>Indicator value</b>		<b>3.6%</b>	<b>3.7%</b>	<b>3.7%</b>	<b>1.8%</b>

#### Licensee Comments:

3Q/00: Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset)

3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator from white to green.

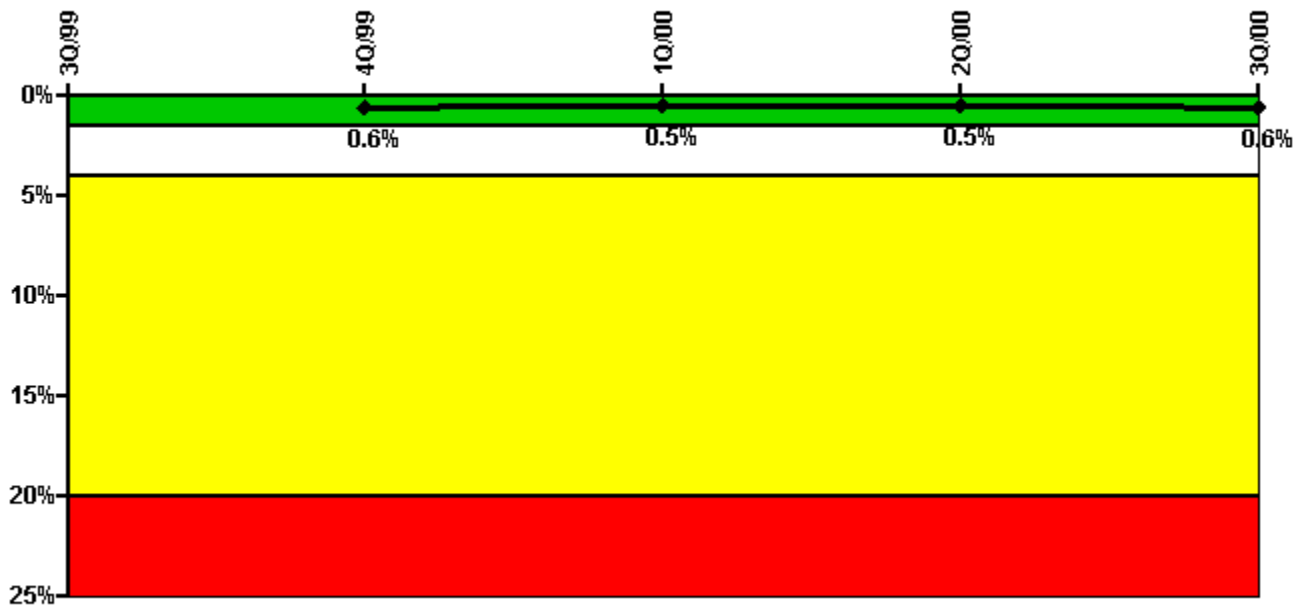
3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator

from white to green.

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process

### Safety System Unavailability, High Pressure Injection System (HPCS)



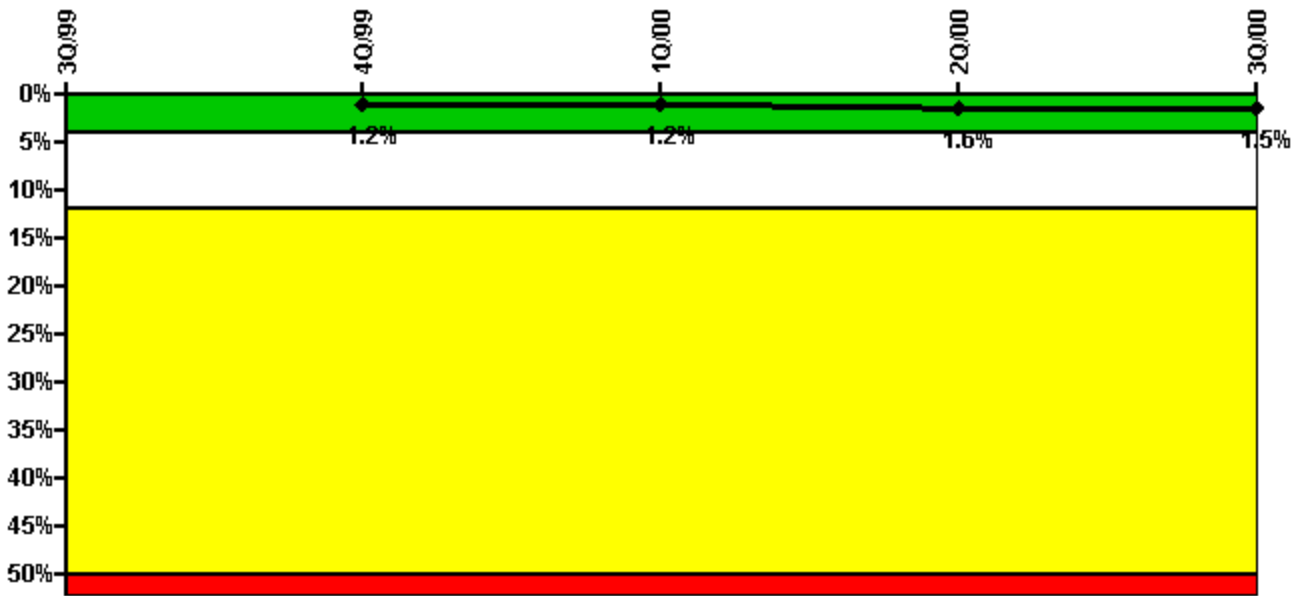
Thresholds: **White** > 1.5% **Yellow** > 4.0% **Red** > 20.0%

### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
<b>Train 1</b>					
Planned unavailable hours	16.30	0	43.78	11.58	15.94
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	1107.30	2184.00	2183.00	2208.00
<b>Indicator value</b>		<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
<b>Train 1</b>					
Planned unavailable hours	0	71.64	27.23	76.73	5.70
Unplanned unavailable hours	0	0	0	0	0.67
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	1107.30	2184.00	2183.00	2208.00
<b>Indicator value</b>		<b>1.2%</b>	<b>1.2%</b>	<b>1.6%</b>	<b>1.5%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



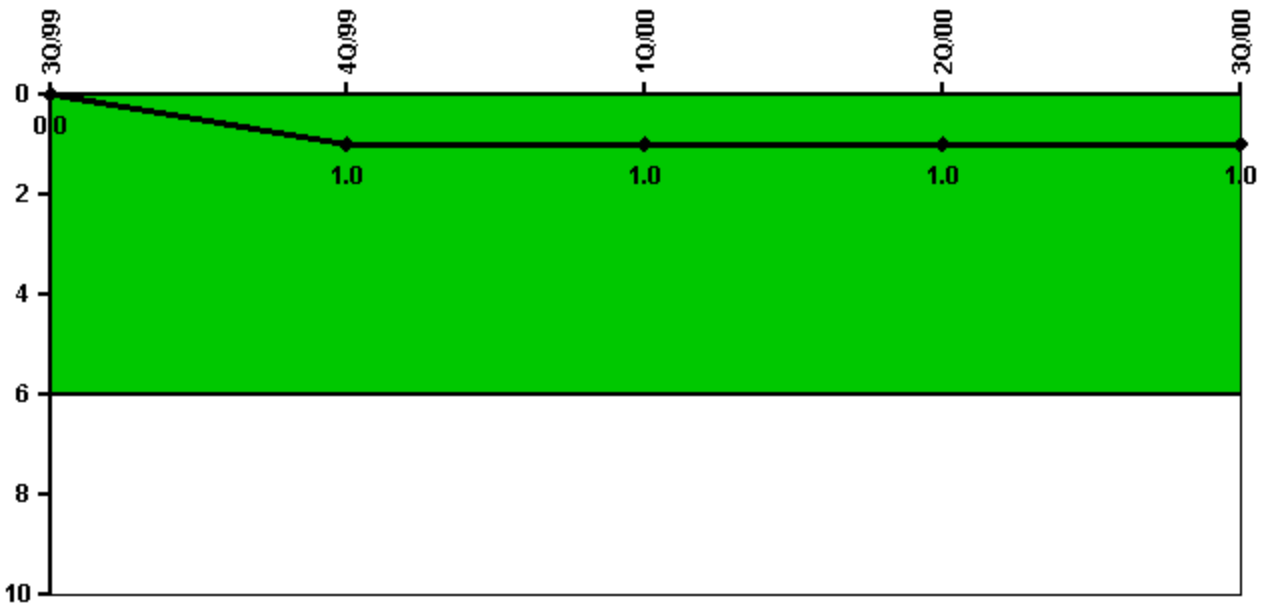
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
<b>Train 1</b>					
Planned unavailable hours	12.41	0	44.88	16.32	14.27
Unplanned unavailable hours	0	0	0	0	1.40
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
<b>Train 2</b>					
Planned unavailable hours	0	4.75	18.93	49.67	8.35
Unplanned unavailable hours	0	6.16	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
<b>Indicator value</b>		<b>0.4%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

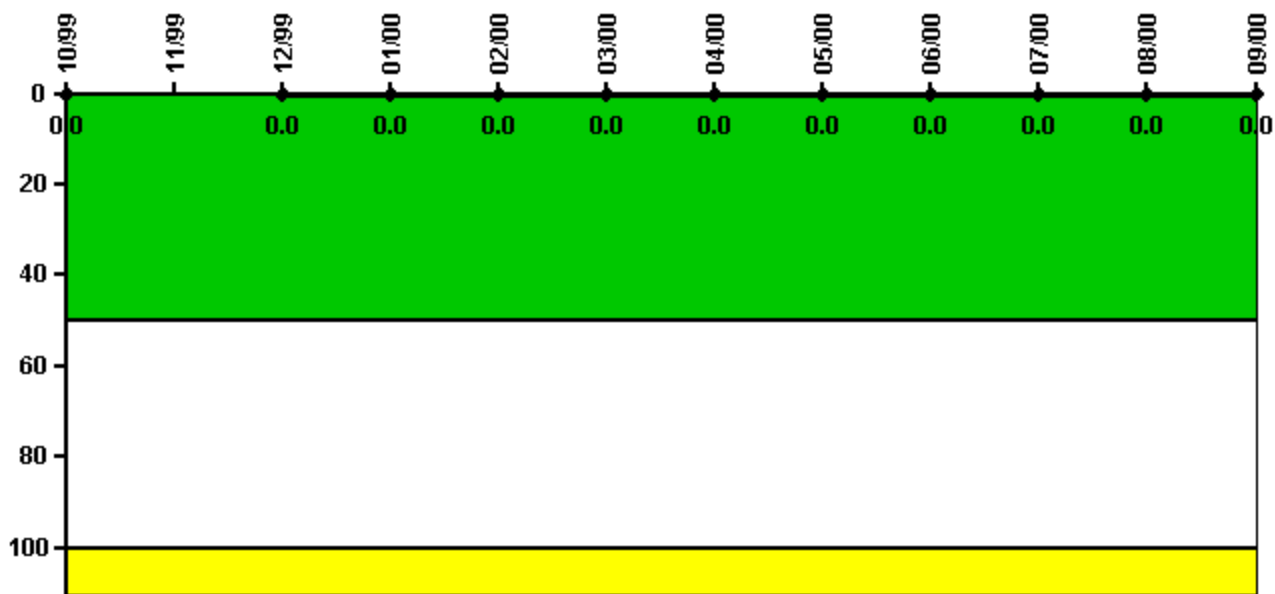
#### Notes

Safety System Functional Failures (BWR)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Safety System Functional Failures	0	1	0	0	0
Indicator value	0	1	1	1	1

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000060	N/A	0.000036	0.000051	0.000039	0.000050	0.000042	0.000051	0.000045	0.000045	0.000050	0.000046
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	N/A	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



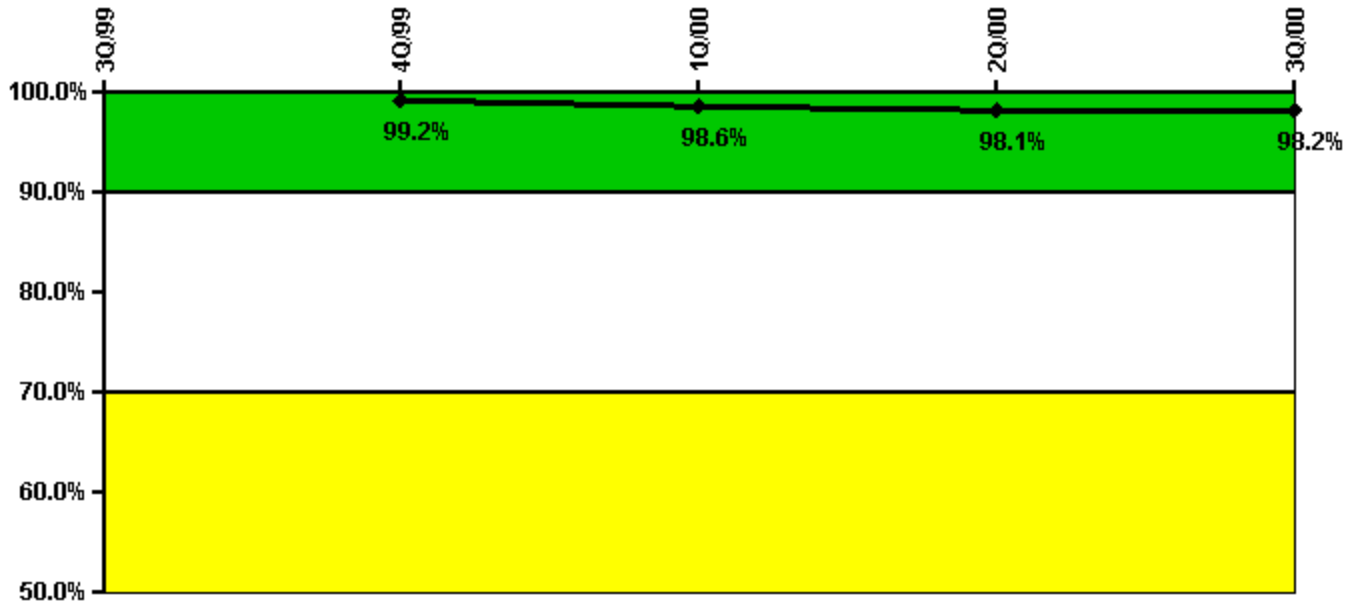
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	2.580	N/A	3.160	2.390	2.370	2.390	2.460	2.510	2.700	2.490	2.530	2.460
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.6	N/A	10.5	8.0	7.9	8.0	8.2	8.4	9.0	8.3	8.4	8.2

Licensee Comments: none

### Drill/Exercise Performance



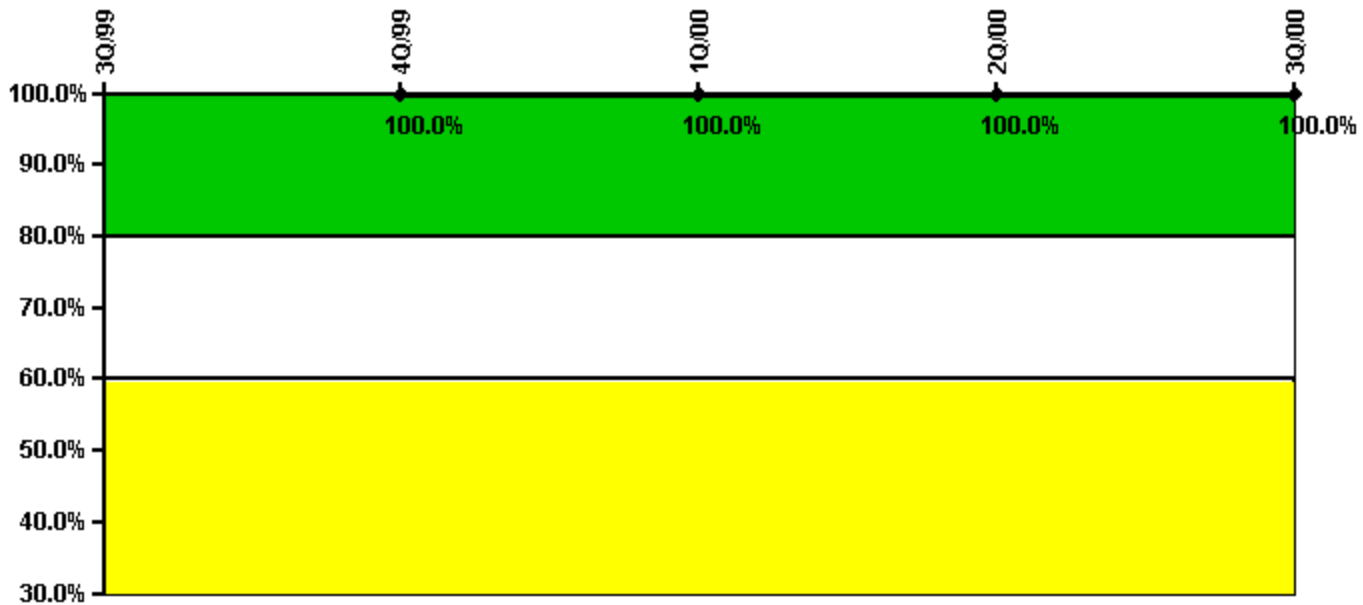
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	0	11.0	32.0	70.0	24.0
Total opportunities	0	11.0	33.0	72.0	24.0
<b>Indicator value</b>		<b>99.2%</b>	<b>98.6%</b>	<b>98.1%</b>	<b>98.2%</b>

Licensee Comments: none

### ERO Drill Participation



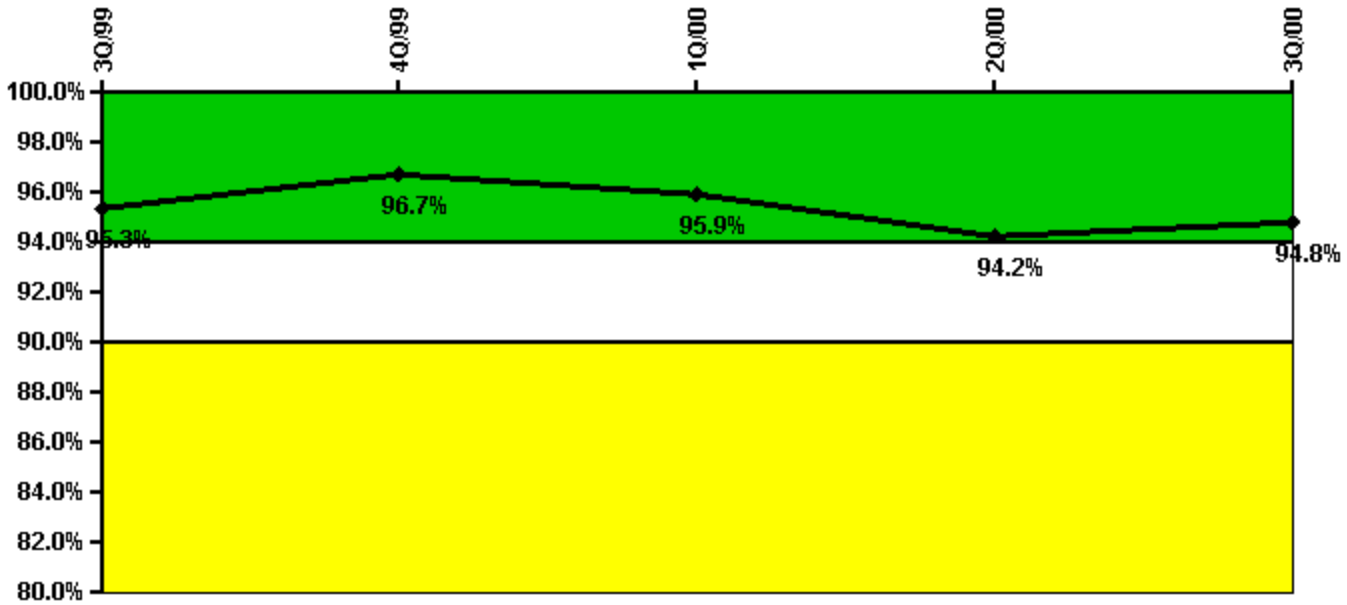
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel		55.0	63.0	61.0	63.0
Total Key personnel		55.0	63.0	61.0	63.0
Indicator value		100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



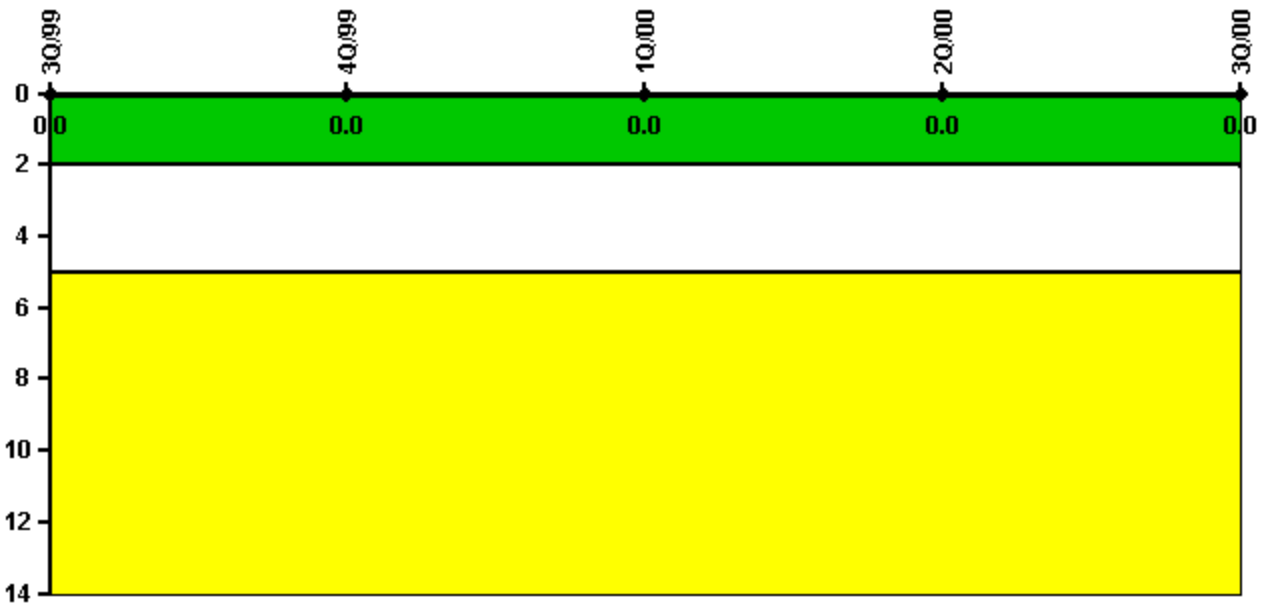
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful siren-tests	124	123	122	117	168
Total sirens-tests	129	129	129	129	172
Indicator value	95.3%	96.7%	95.9%	94.2%	94.8%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



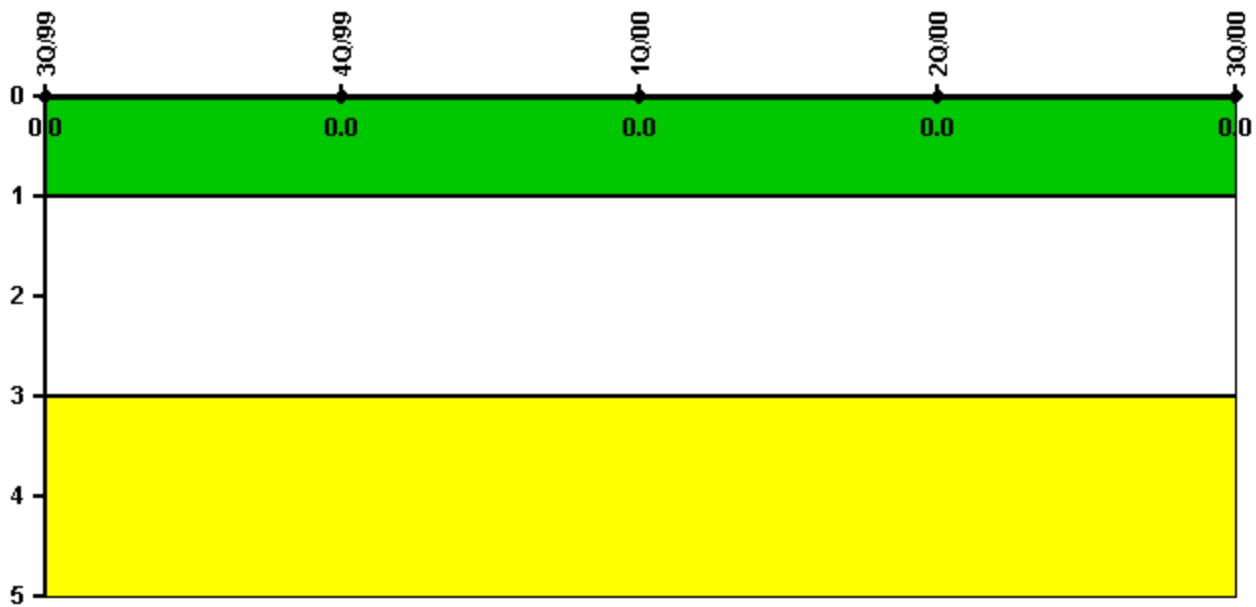
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



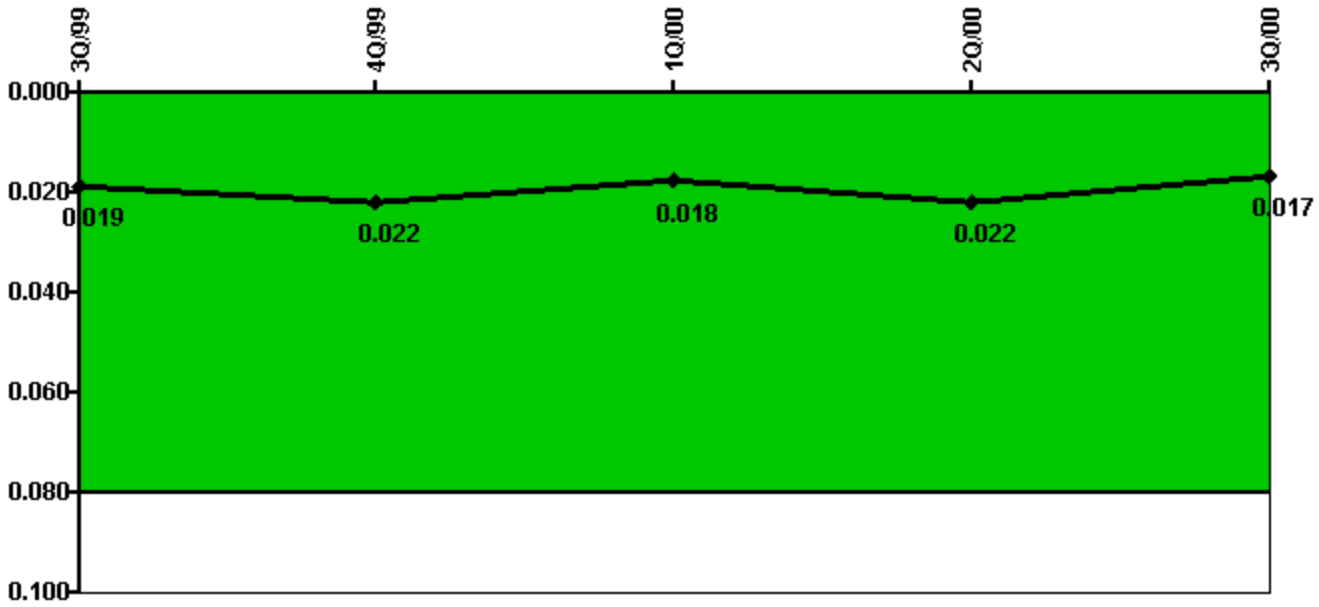
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



Thresholds: White > 0.080

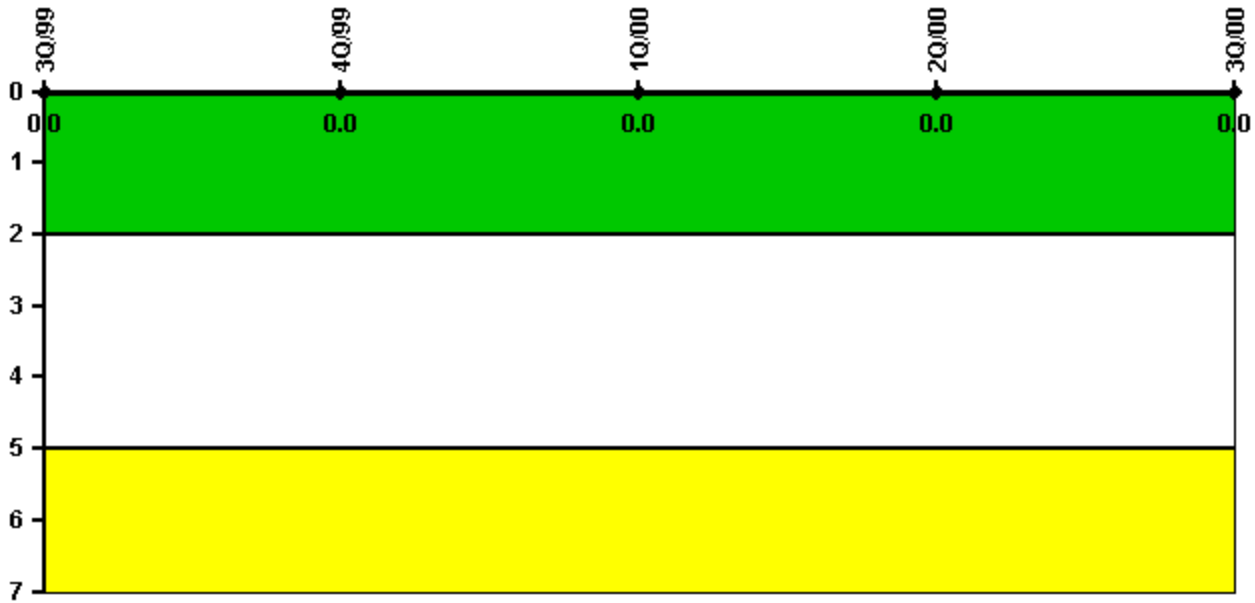
#### Notes

Protected Area Security Performance Index	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
IDS compensatory hours	240.26	93.01	74.70	168.60	96.90
CCTV compensatory hours	0.3	20.4	5.6	1.3	6.2
IDS normalization factor	1.60	1.60	1.60	1.60	1.60
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2
<b>Index Value</b>	<b>0.019</b>	<b>0.022</b>	<b>0.018</b>	<b>0.022</b>	<b>0.017</b>

Licensee Comments: none



### Personnel Screening Program



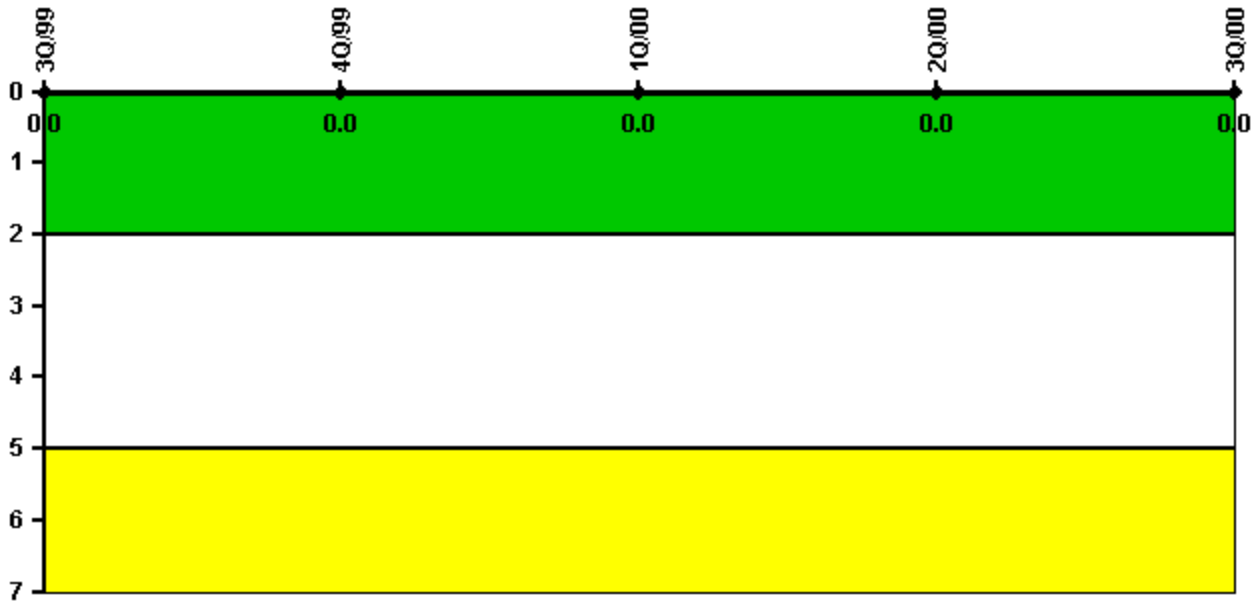
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Program failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Program Failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

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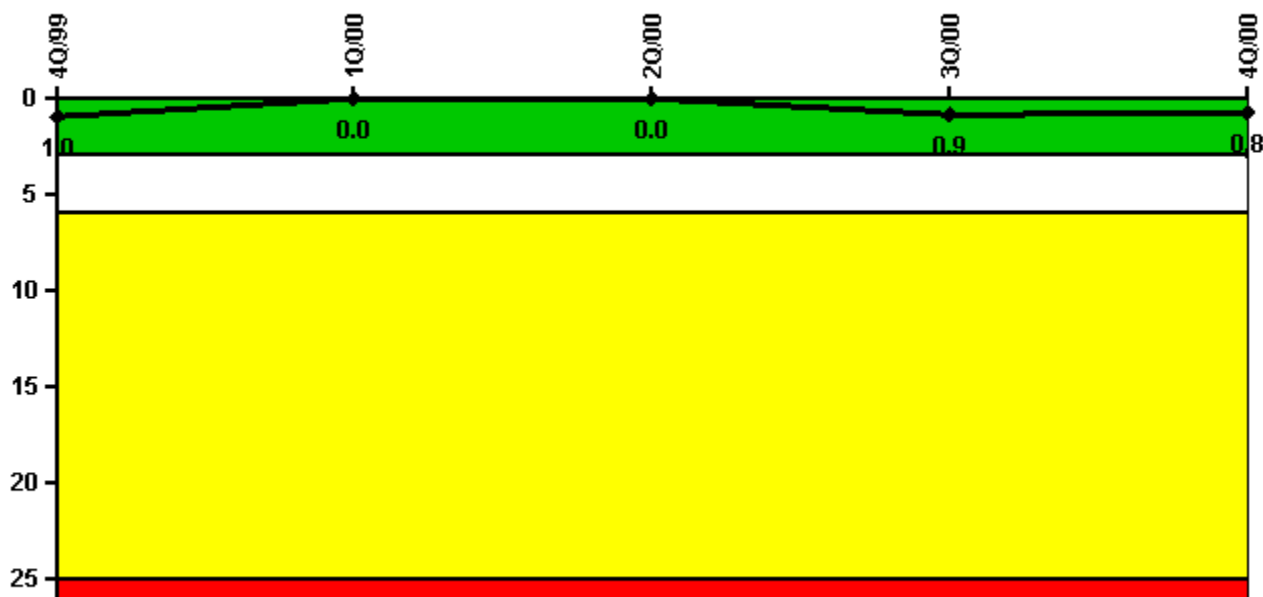
Last Modified: March 29, 2002

### Grand Gulf 1

#### 4Q/2000 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/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	0	0	1.0	0
Critical hours	1107.3	2184.0	2183.0	2155.3	2209.0
Indicator value	1.0	0	0	0.9	0.8

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



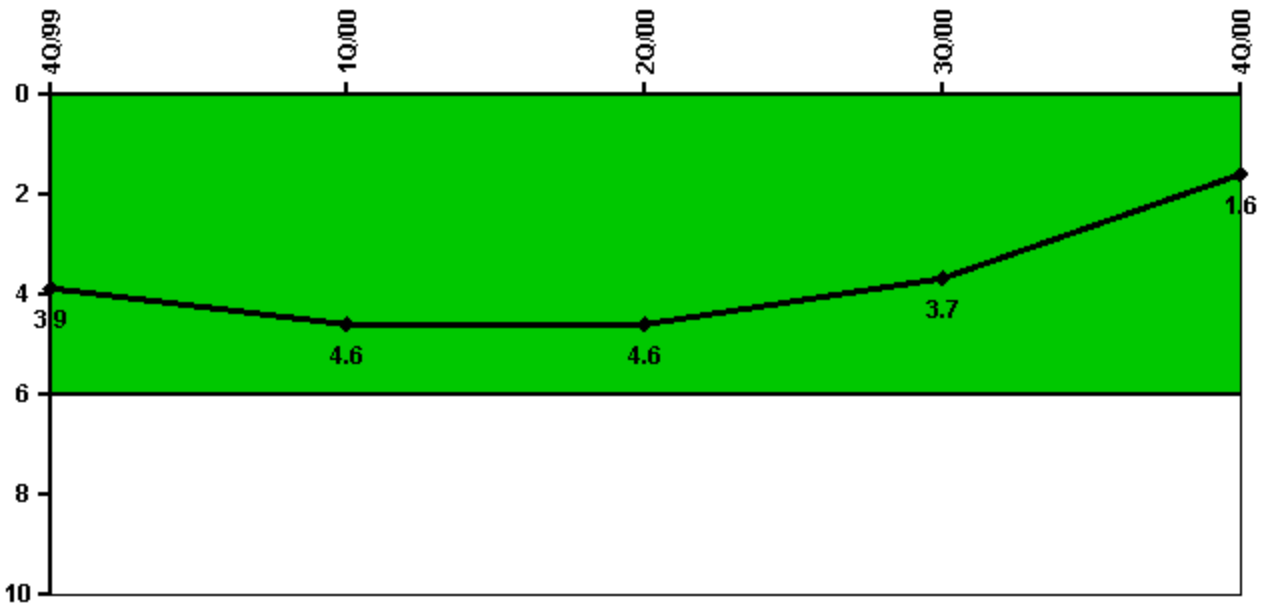
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Scrams	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



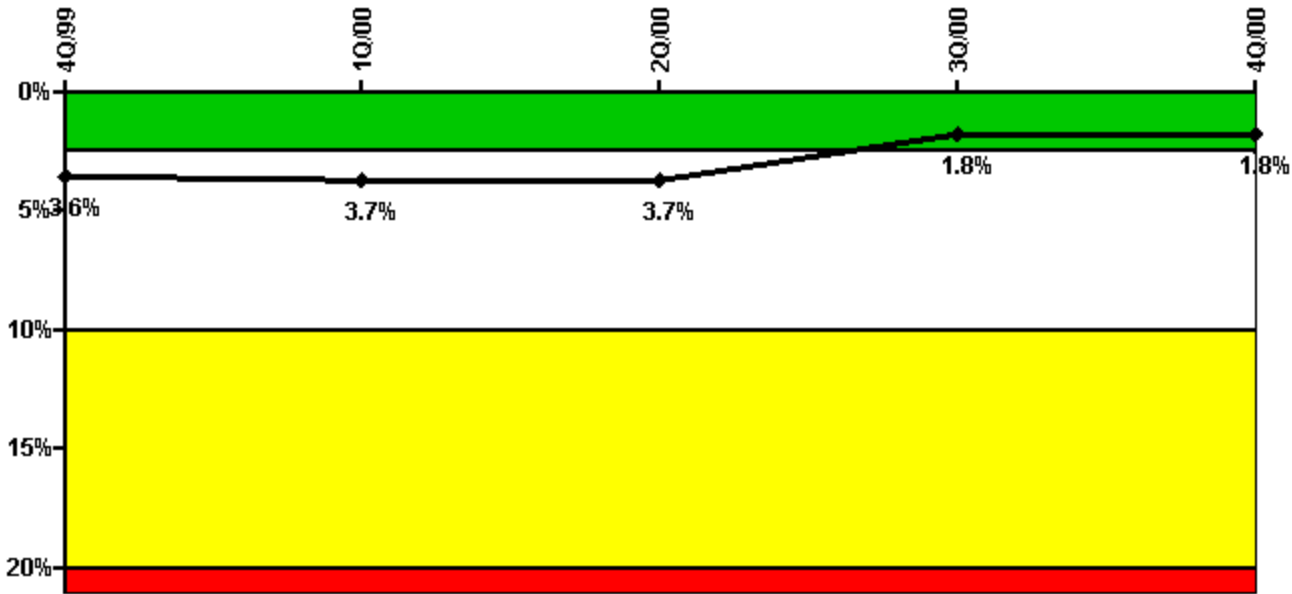
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	2.0	2.0	0	0	0
Critical hours	1107.3	2184.0	2183.0	2155.3	2209.0
<b>Indicator value</b>	<b>3.9</b>	<b>4.6</b>	<b>4.6</b>	<b>3.7</b>	<b>1.6</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
<b>Train 1</b>					
Planned unavailable hours	0	37.61	43.90	12.82	3.22
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
<b>Train 2</b>					
Planned unavailable hours	0	49.58	35.67	21.93	3.91
Unplanned unavailable hours	4.10	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
<b>Train 3</b>					
Planned unavailable hours	0	39.97	23.82	73.05	3.92
Unplanned unavailable hours	0	0	9.53	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	1444.80	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>3.6%</b>	<b>3.7%</b>	<b>3.7%</b>	<b>1.8%</b>	<b>1.8%</b>

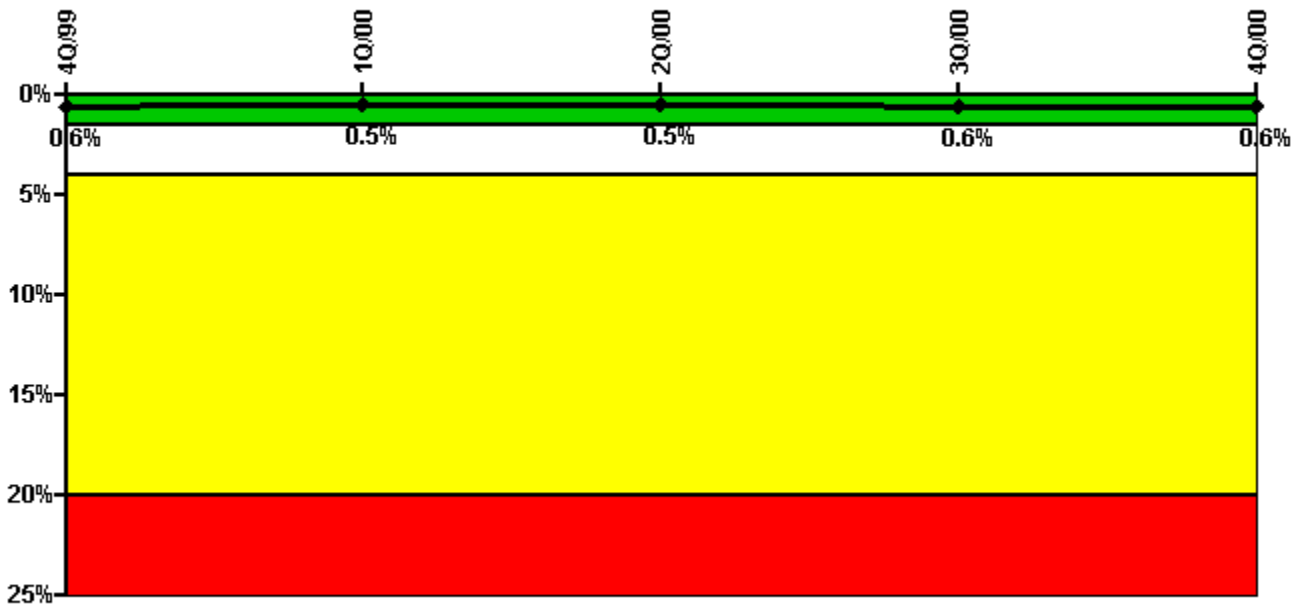
Licensee Comments:

3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator from white to green.

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process

### Safety System Unavailability, High Pressure Injection System (HPCS)



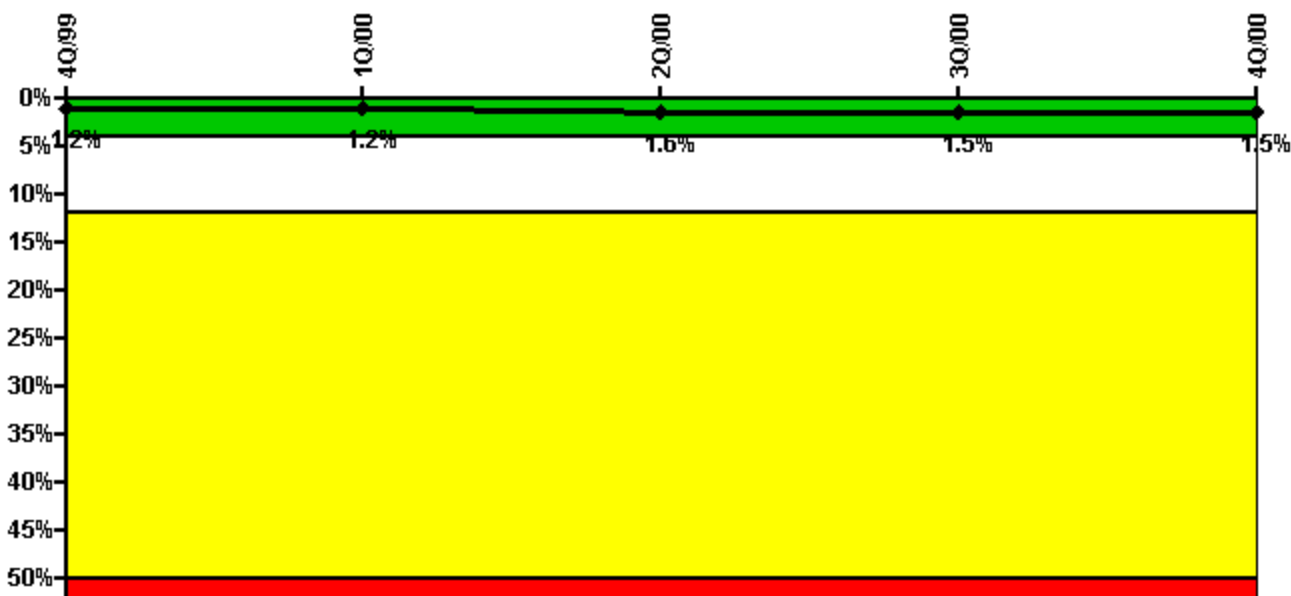
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
<b>Train 1</b>					
Planned unavailable hours	0	43.78	11.58	15.94	2.91
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1107.30	2184.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

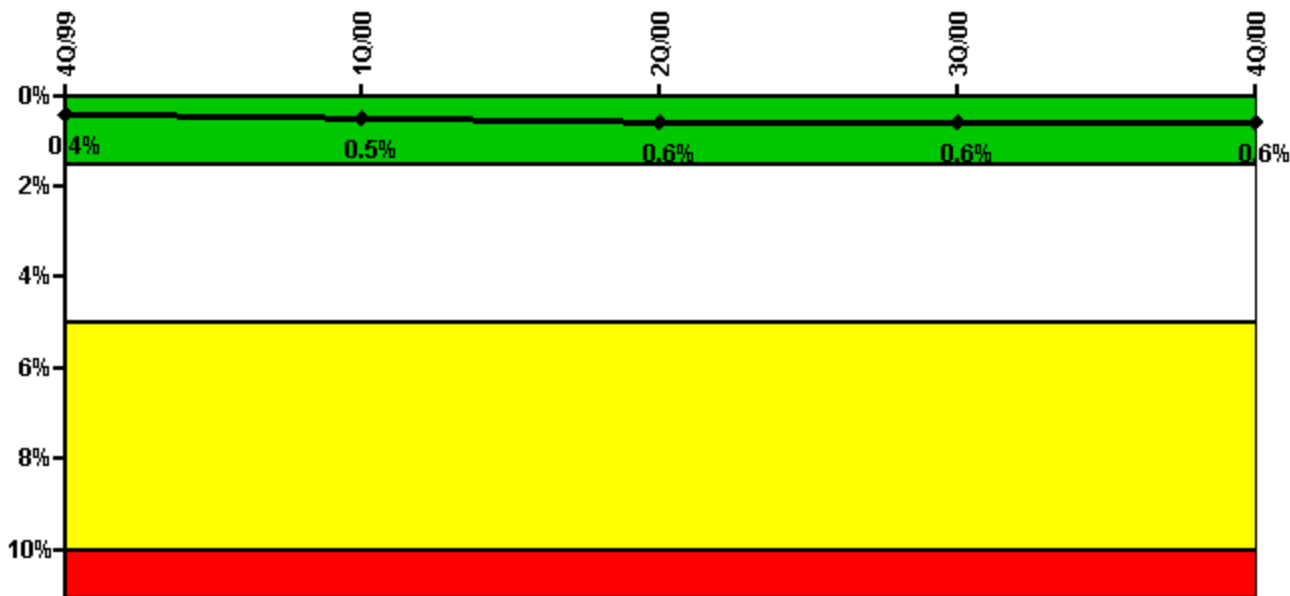
#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
<b>Train 1</b>					
Planned unavailable hours	71.64	27.23	76.73	5.70	81.77
Unplanned unavailable hours	0	0	0	0.67	0.07
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1107.30	2184.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>1.2%</b>	<b>1.2%</b>	<b>1.6%</b>	<b>1.5%</b>	<b>1.5%</b>

Licensee Comments: none



### Safety System Unavailability, Residual Heat Removal System



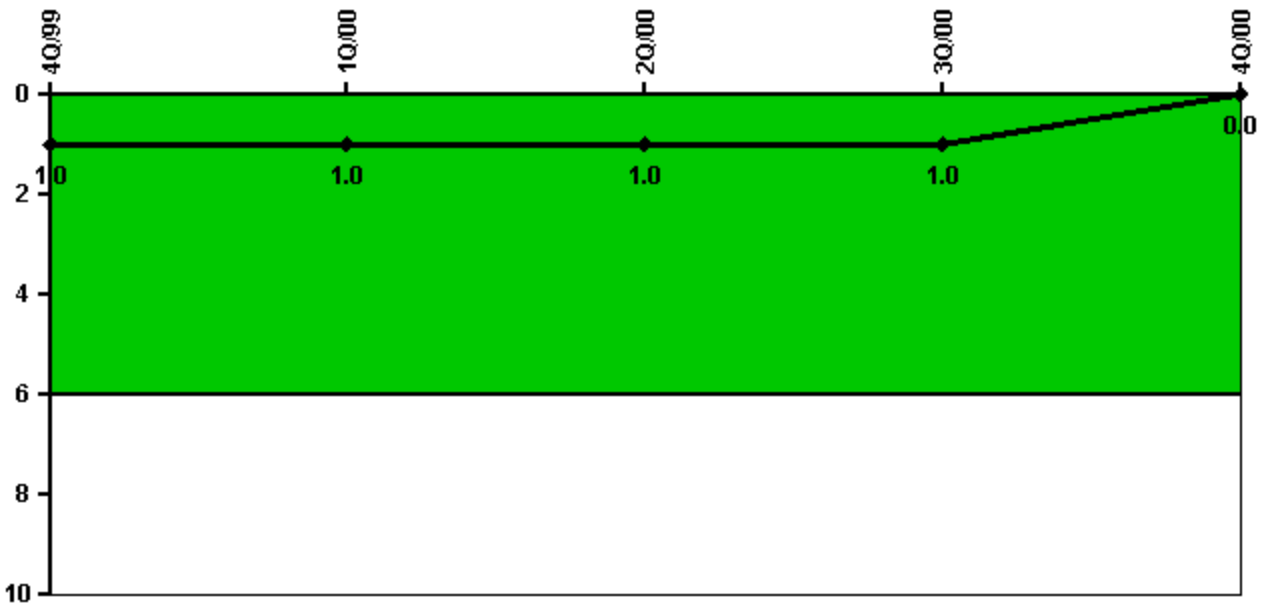
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
<b>Train 1</b>					
Planned unavailable hours	0	44.88	16.32	14.27	4.40
Unplanned unavailable hours	0	0	0	1.40	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
<b>Train 2</b>					
Planned unavailable hours	4.75	18.93	49.67	8.35	13.54
Unplanned unavailable hours	6.16	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



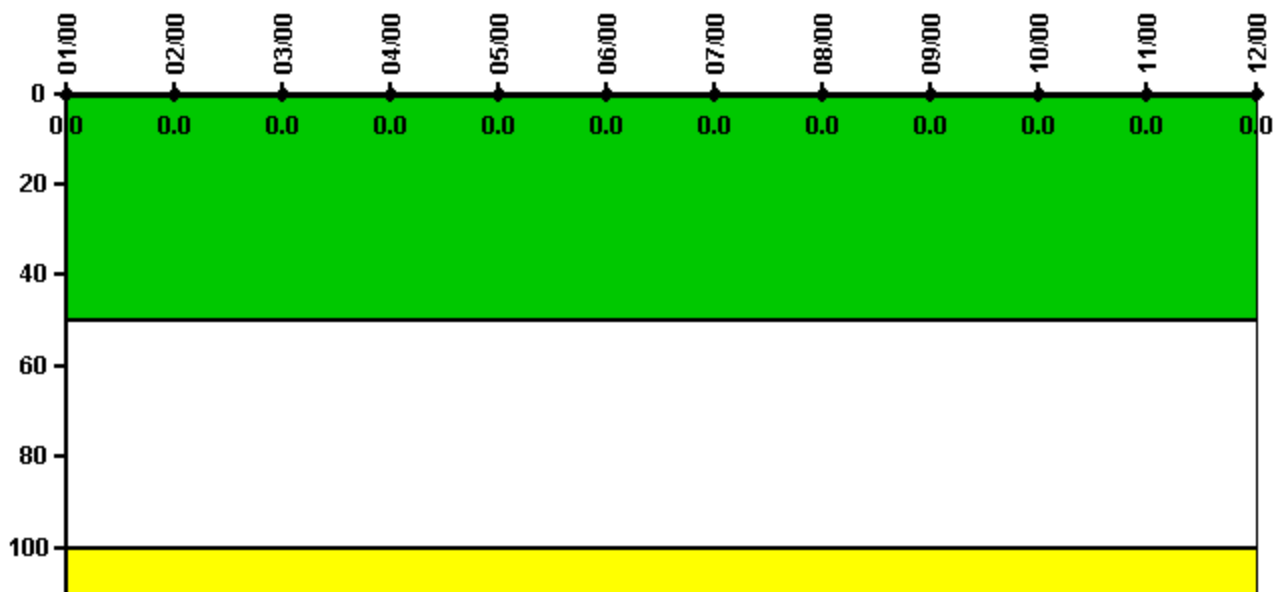
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Safety System Functional Failures	1	0	0	0	0
Indicator value	1	1	1	1	0

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.000051	0.000039	0.000050	0.000042	0.000051	0.000045	0.000045	0.000050	0.000046	0.000044	0.000053	0.000042
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



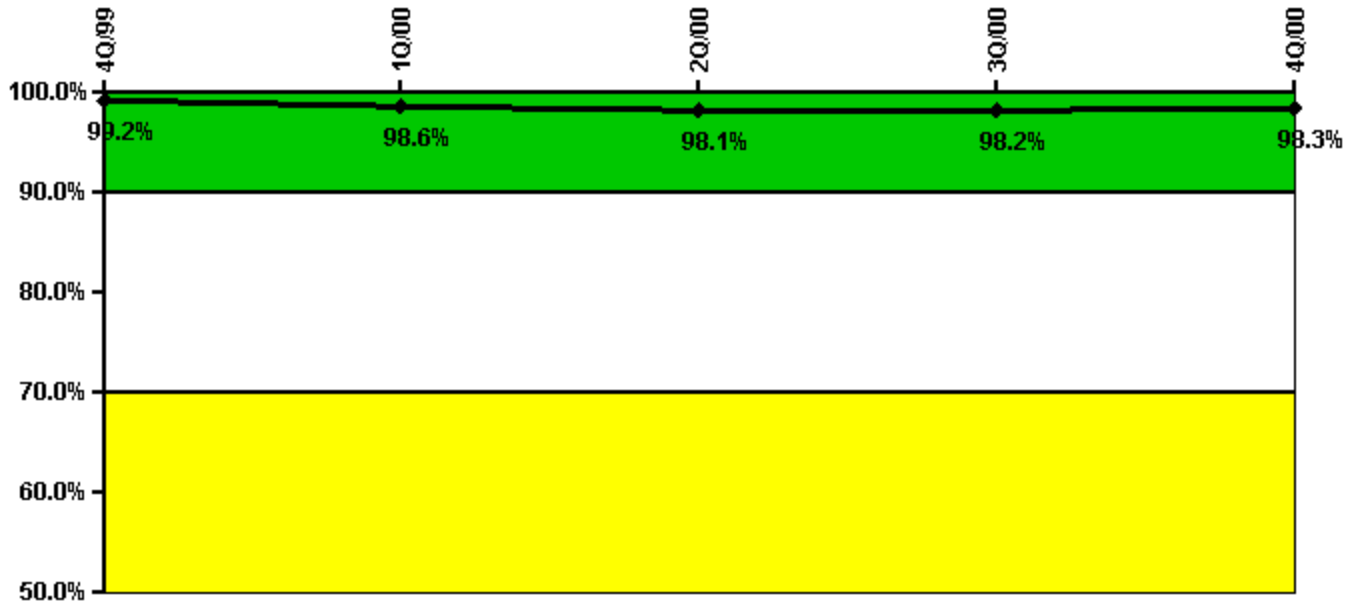
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	2.390	2.370	2.390	2.460	2.510	2.700	2.490	2.530	2.460	2.560	2.550	2.550
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.0	7.9	8.0	8.2	8.4	9.0	8.3	8.4	8.2	8.5	8.5	8.5

Licensee Comments: none

### Drill/Exercise Performance



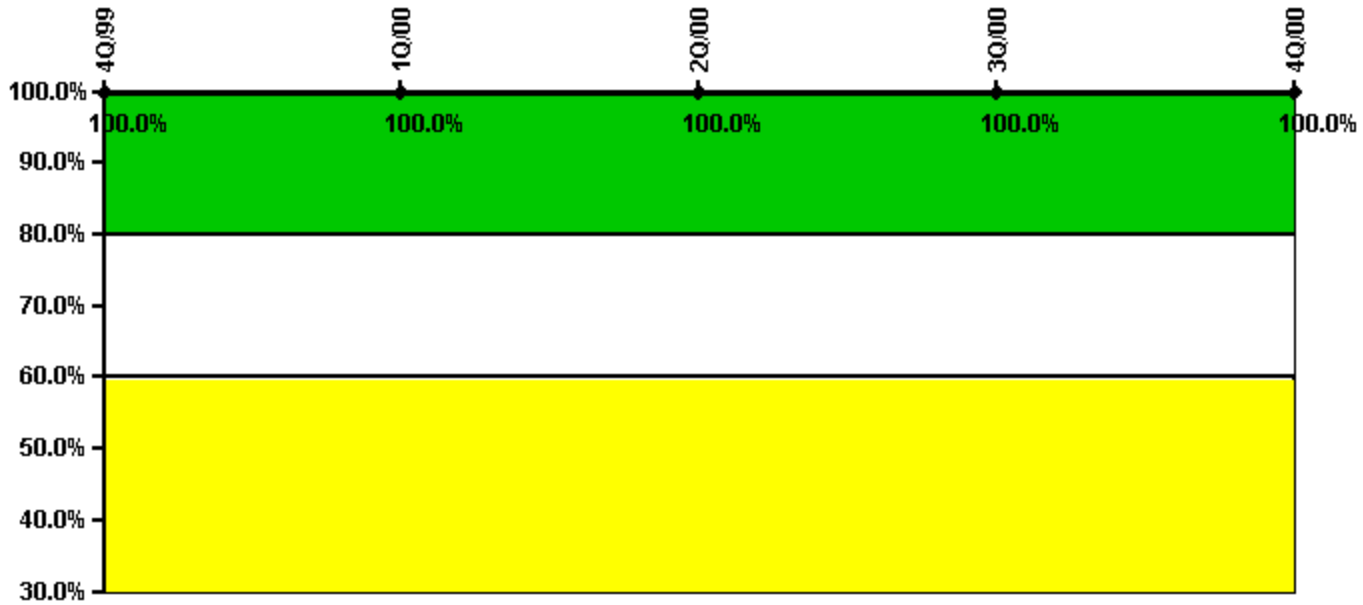
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful opportunities	11.0	32.0	70.0	24.0	34.0
Total opportunities	11.0	33.0	72.0	24.0	34.0
Indicator value	99.2%	98.6%	98.1%	98.2%	98.3%

Licensee Comments: none

### ERO Drill Participation



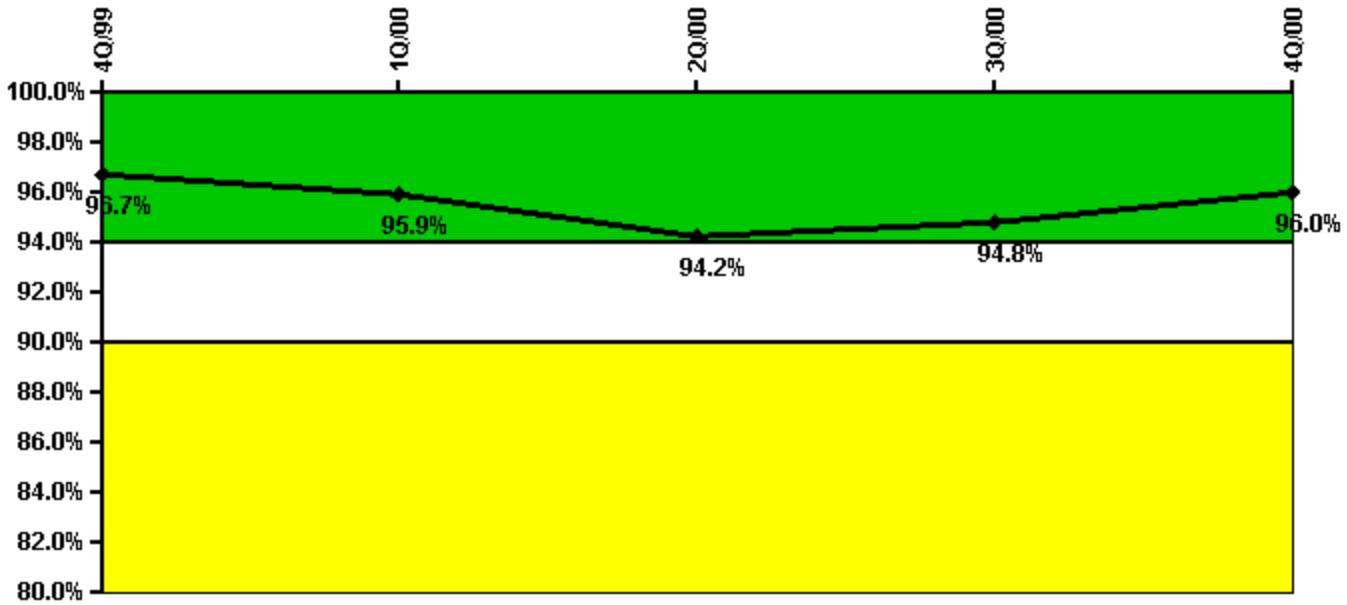
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	55.0	63.0	61.0	63.0	79.0
Total Key personnel	55.0	63.0	61.0	63.0	79.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments: none

### Alert & Notification System



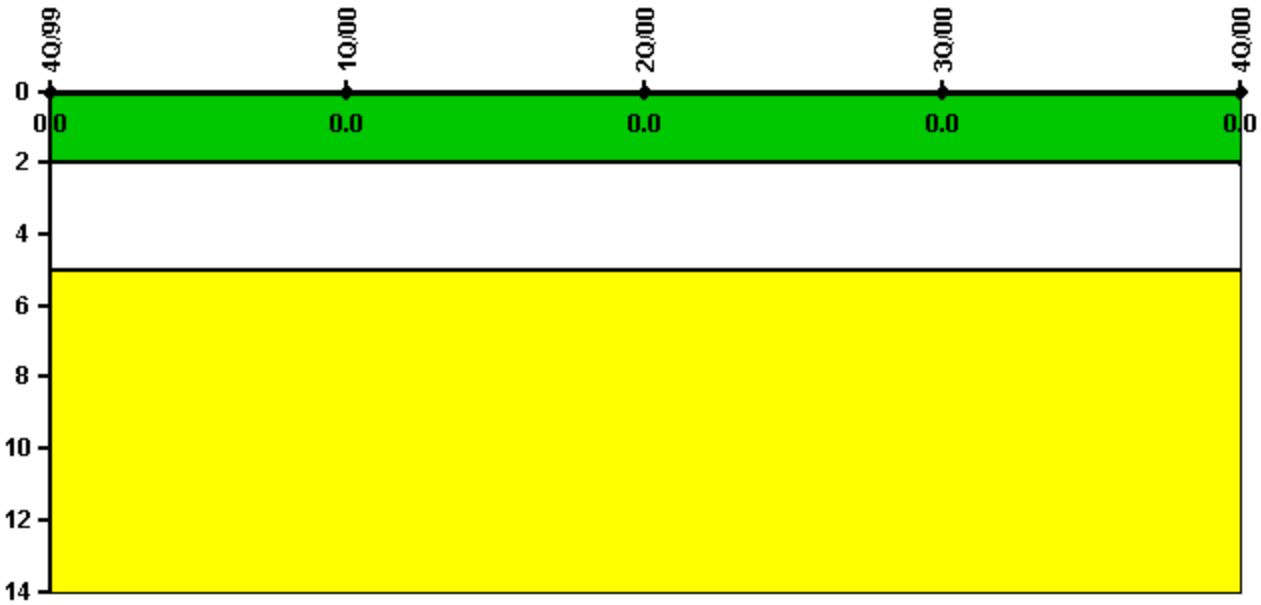
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful siren-tests	123	122	117	168	212
Total sirens-tests	129	129	129	172	215
Indicator value	96.7%	95.9%	94.2%	94.8%	96.0%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

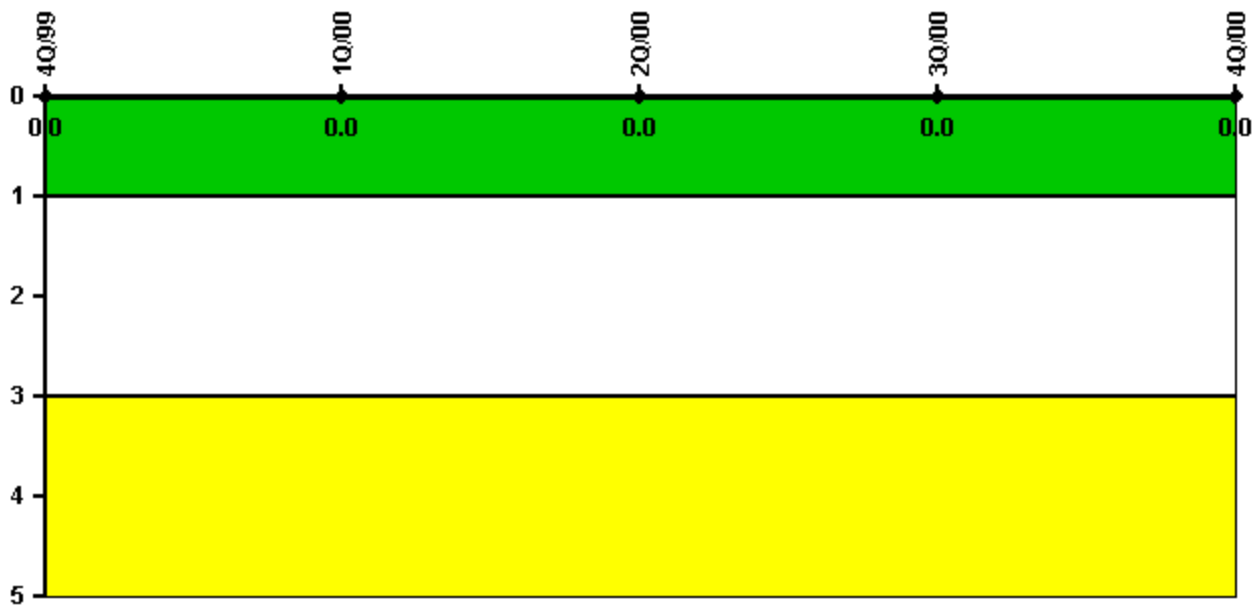
#### Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none



### RETS/ODCM Radiological Effluent



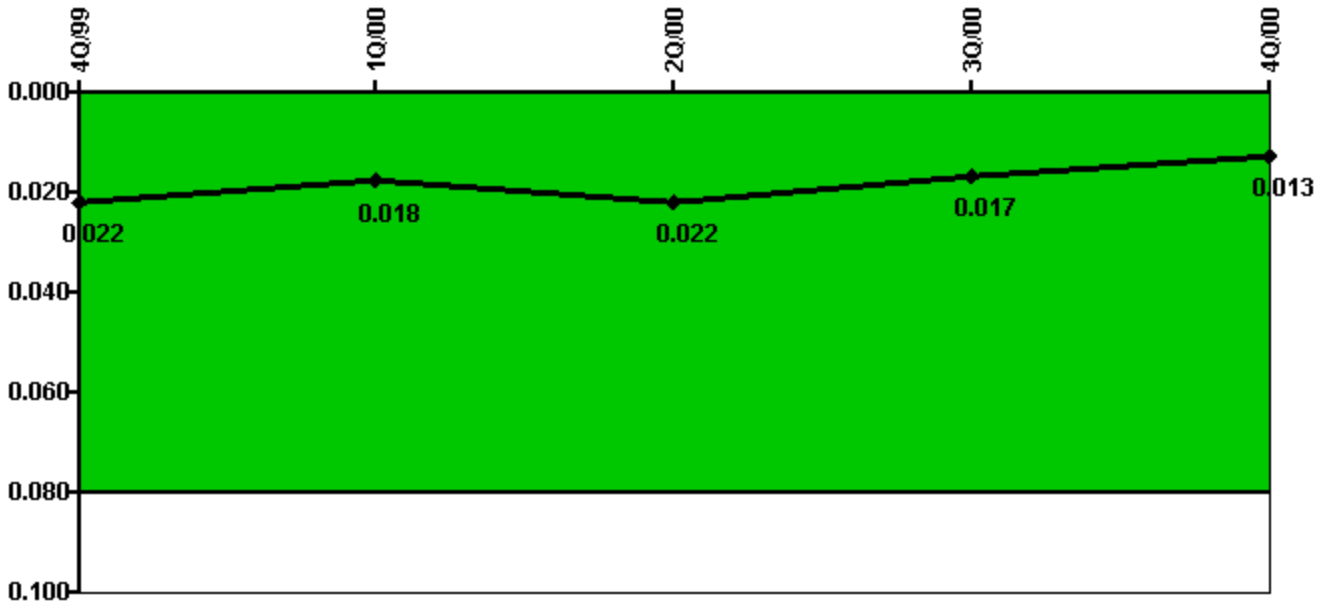
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



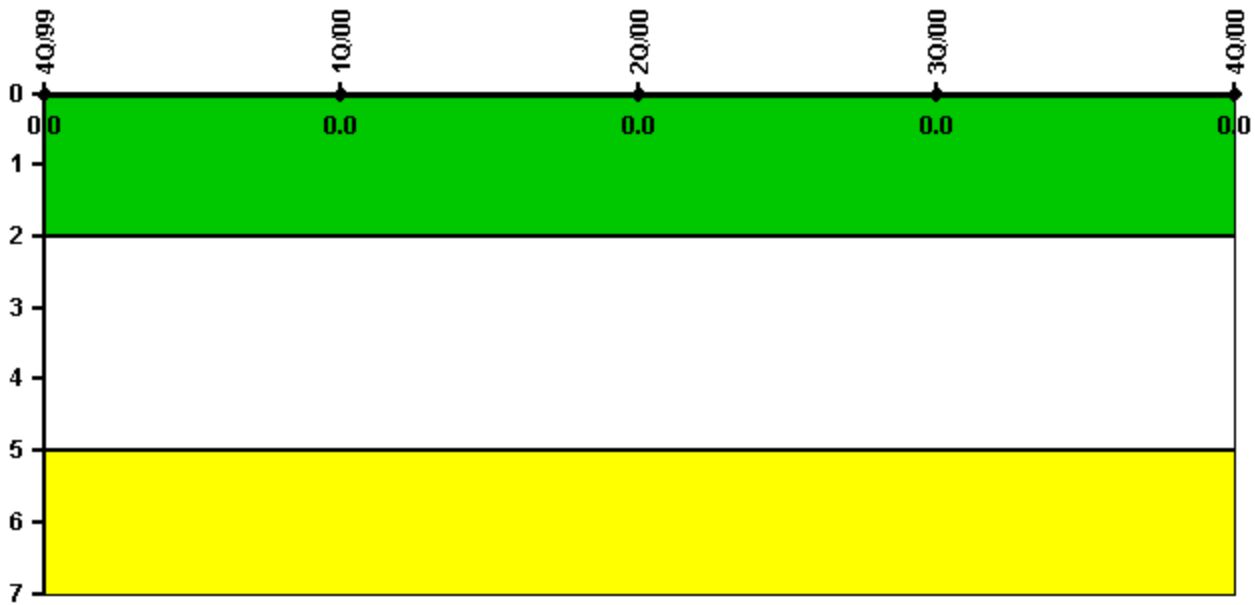
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
IDS compensatory hours	93.01	74.70	168.60	96.90	6.90
CCTV compensatory hours	20.4	5.6	1.3	6.2	1.2
IDS normalization factor	1.60	1.60	1.60	1.60	1.60
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2
<b>Index Value</b>	<b>0.022</b>	<b>0.018</b>	<b>0.022</b>	<b>0.017</b>	<b>0.013</b>

Licensee Comments: none

### Personnel Screening Program



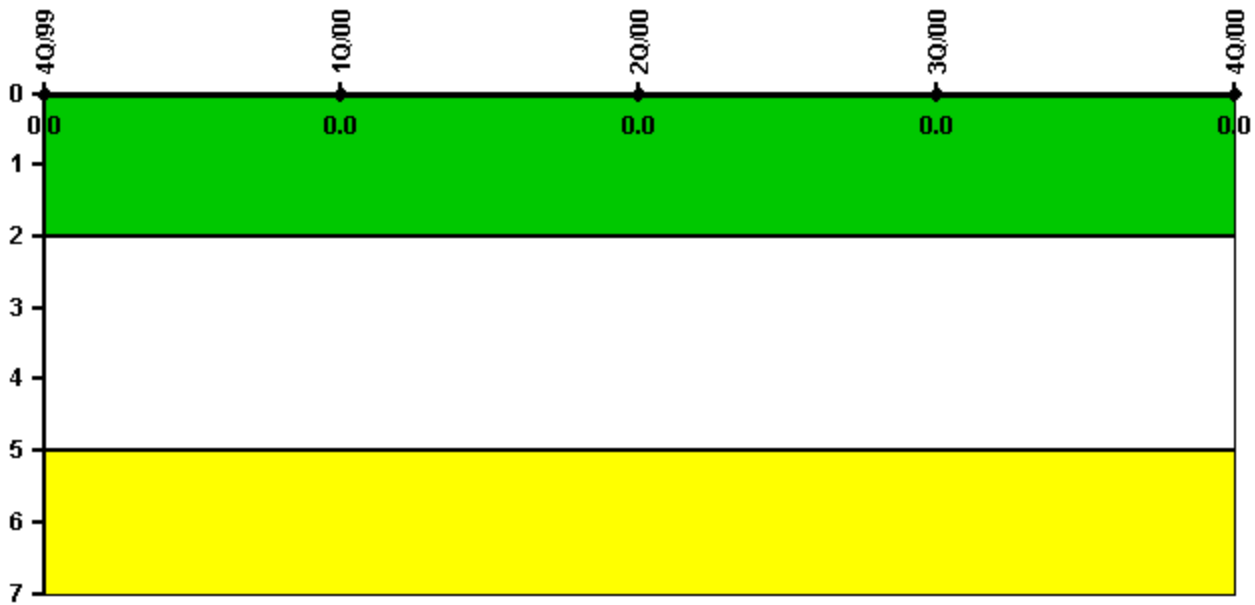
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Program failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Program Failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

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

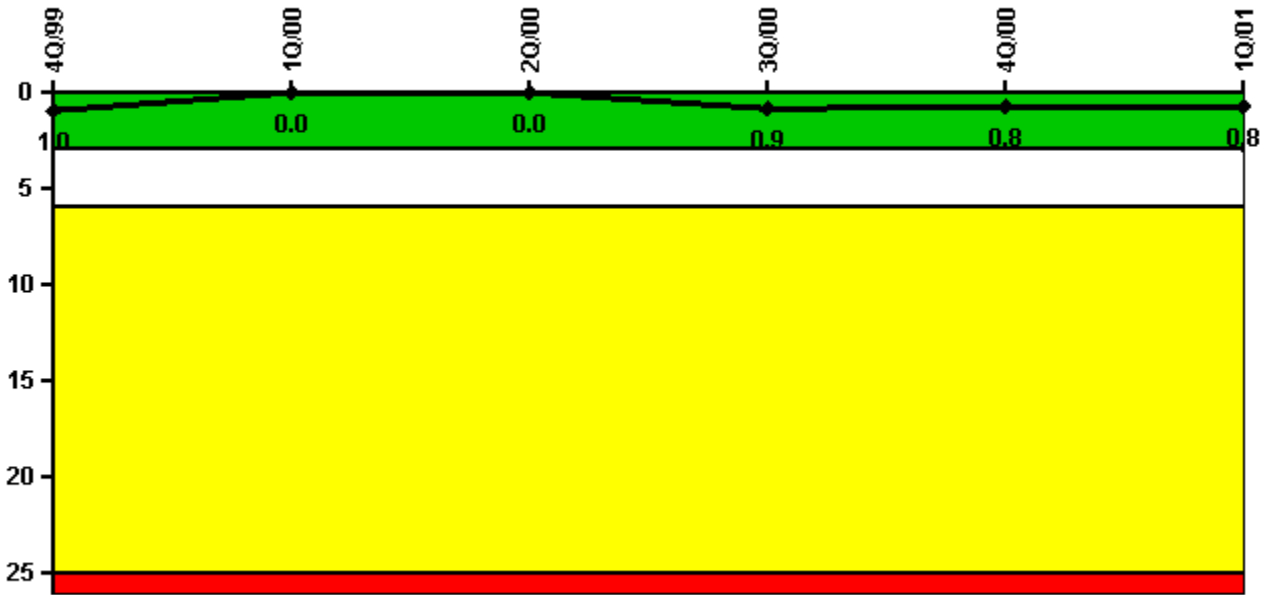
Last Modified: March 28, 2002

### Grand Gulf 1

#### 1Q/2001 Performance Indicators

Licensee's General Comments: Change Report for 1Q2001 HP Injection System data submitted to add 3.75 hours. No change to PI color.

#### Unplanned Scrams per 7000 Critical Hrs



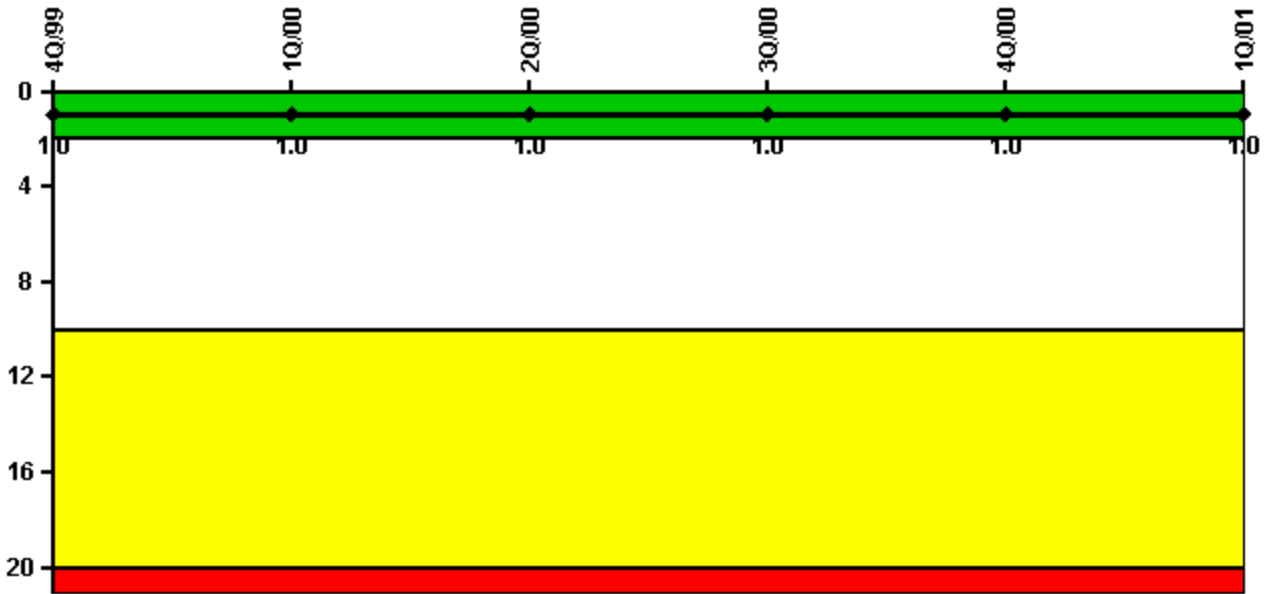
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

#### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	0	1.0	0	0
Critical hours	1107.3	2184.0	2183.0	2155.3	2209.0	2160.0
Indicator value	1.0	0	0	0.9	0.8	0.8

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



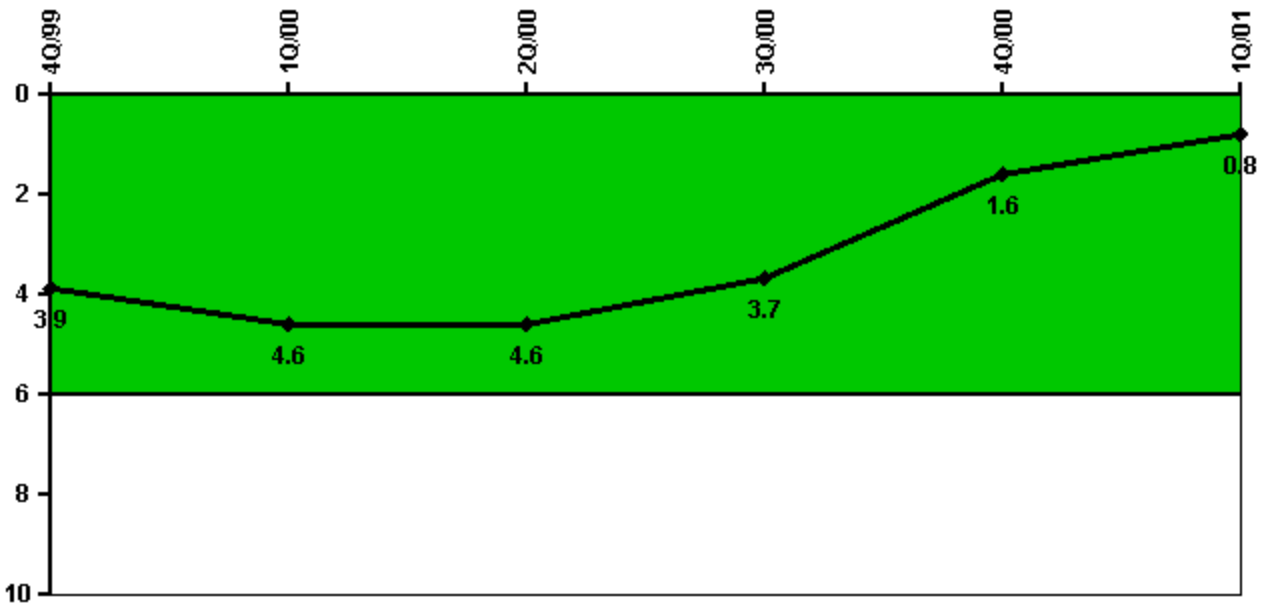
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Scrams	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



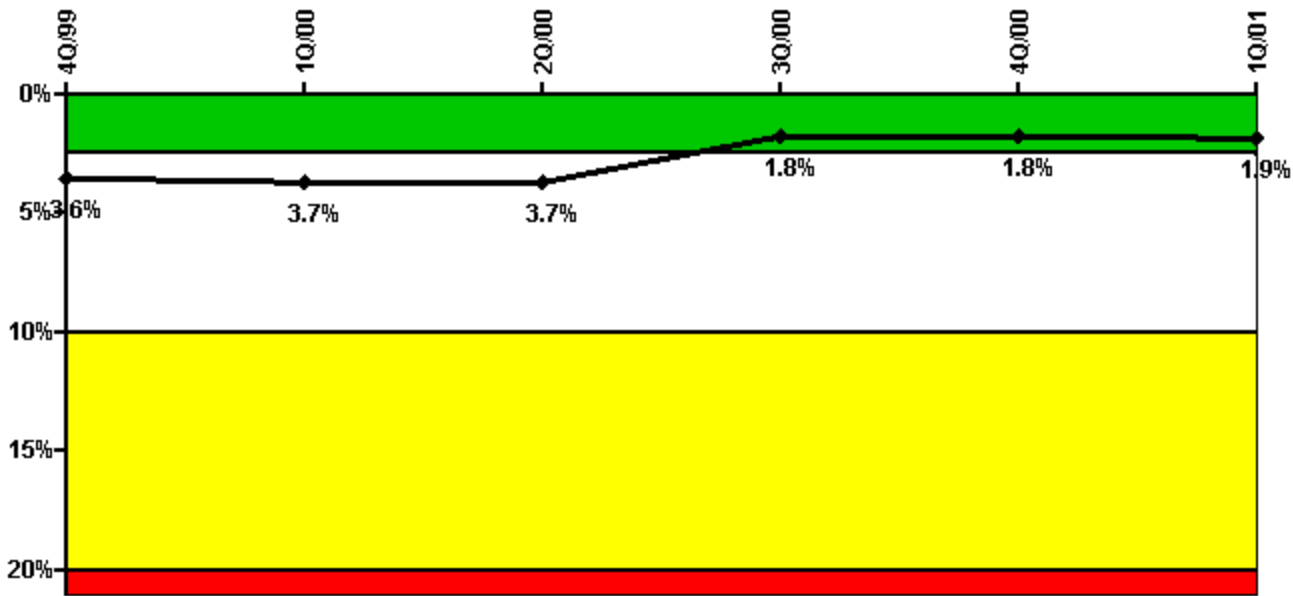
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	2.0	2.0	0	0	0	1.0
Critical hours	1107.3	2184.0	2183.0	2155.3	2209.0	2160.0
Indicator value	3.9	4.6	4.6	3.7	1.6	0.8

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
<b>Train 1</b>						
Planned unavailable hours	0	37.61	43.90	12.82	3.22	39.52
Unplanned unavailable hours	0	0	0	0	0	40.25
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>						
Planned unavailable hours	0	49.58	35.67	21.93	3.91	26.95
Unplanned unavailable hours	4.10	0	0	0	0	13.16
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Train 3</b>						
Planned unavailable hours	0	39.97	23.82	73.05	3.92	4.17
Unplanned unavailable hours	0	0	9.53	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	1444.80	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>3.6%</b>	<b>3.7%</b>	<b>3.7%</b>	<b>1.8%</b>	<b>1.8%</b>	<b>1.9%</b>

Licensee Comments:

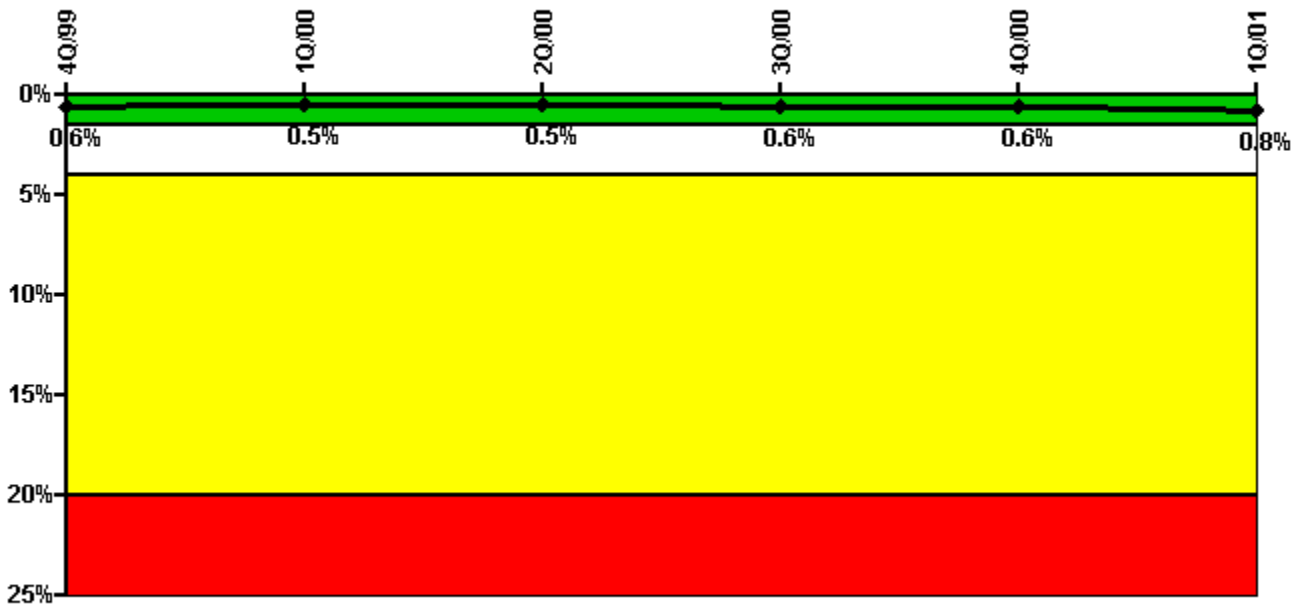
3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator from white to green.

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process



### Safety System Unavailability, High Pressure Injection System (HPCS)



Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

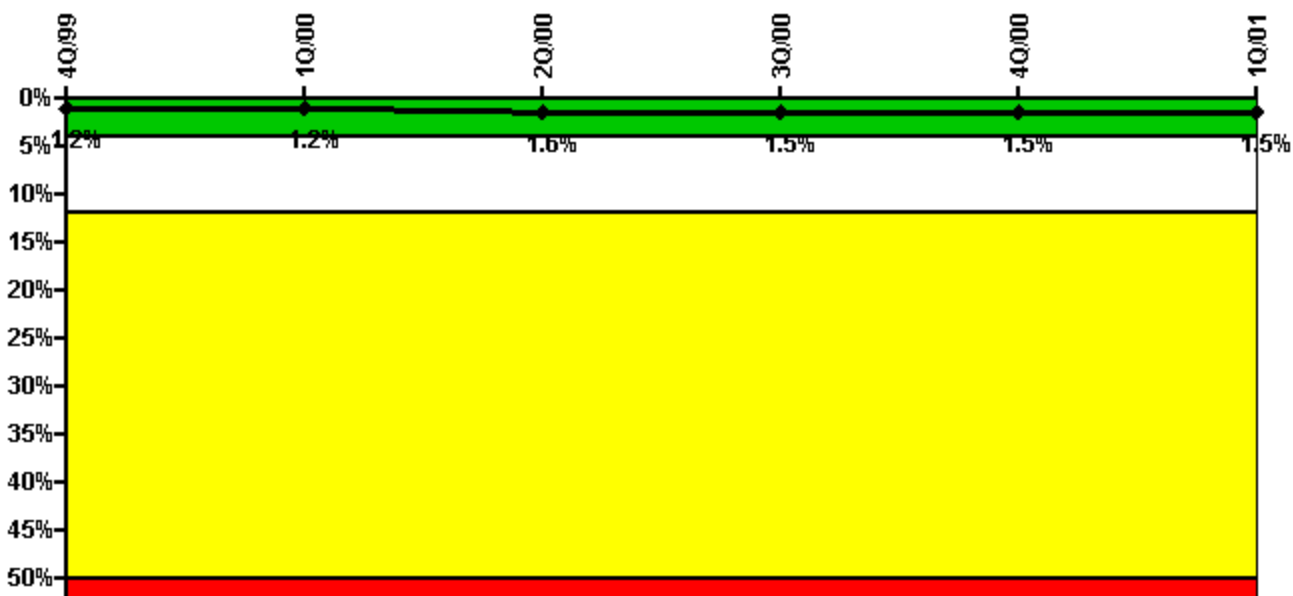
**Notes**

Safety System Unavailability, High Pressure Injection System (HPCS)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
<b>Train 1</b>						
Planned unavailable hours	0	43.78	11.58	15.94	2.91	65.85
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	1107.30	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.8%</b>

Licensee Comments:

1Q/01: Revision to previously submitted data: 3.75 additional unavailable hours were identified for 1Q2001 data. PI color is unaffected

### Safety System Unavailability, Heat Removal System (RCIC)



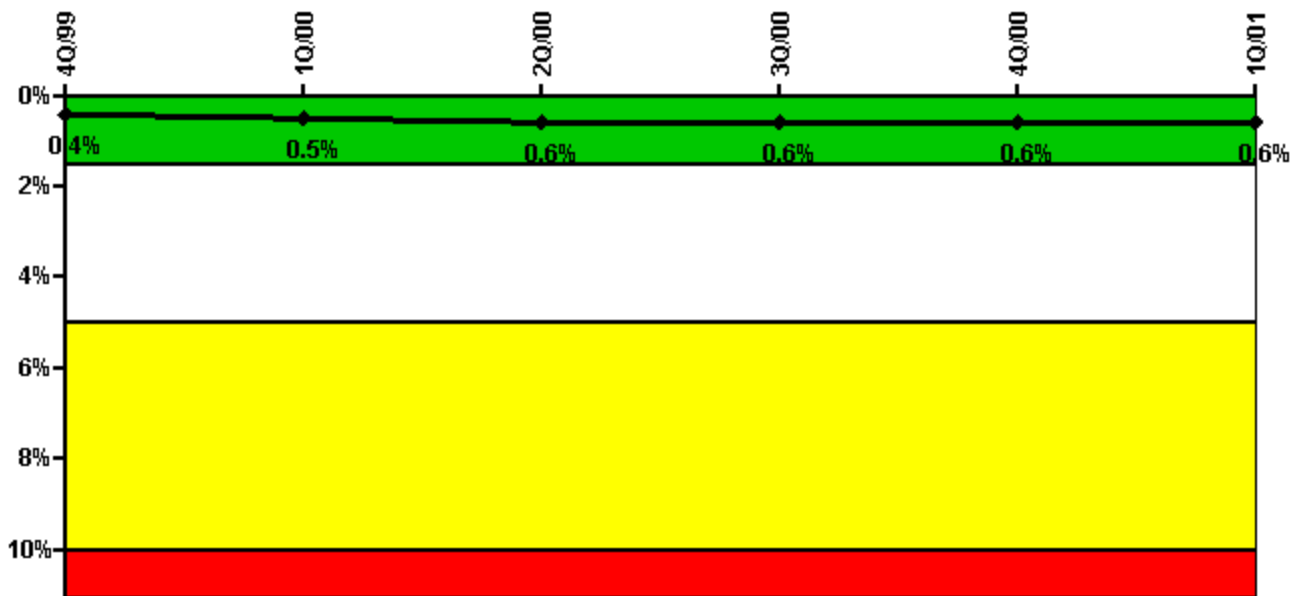
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
<b>Train 1</b>						
Planned unavailable hours	71.64	27.23	76.73	5.70	81.77	22.01
Unplanned unavailable hours	0	0	0	0.67	0.07	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	1107.30	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	1.2%	1.2%	1.6%	1.5%	1.5%	1.5%

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



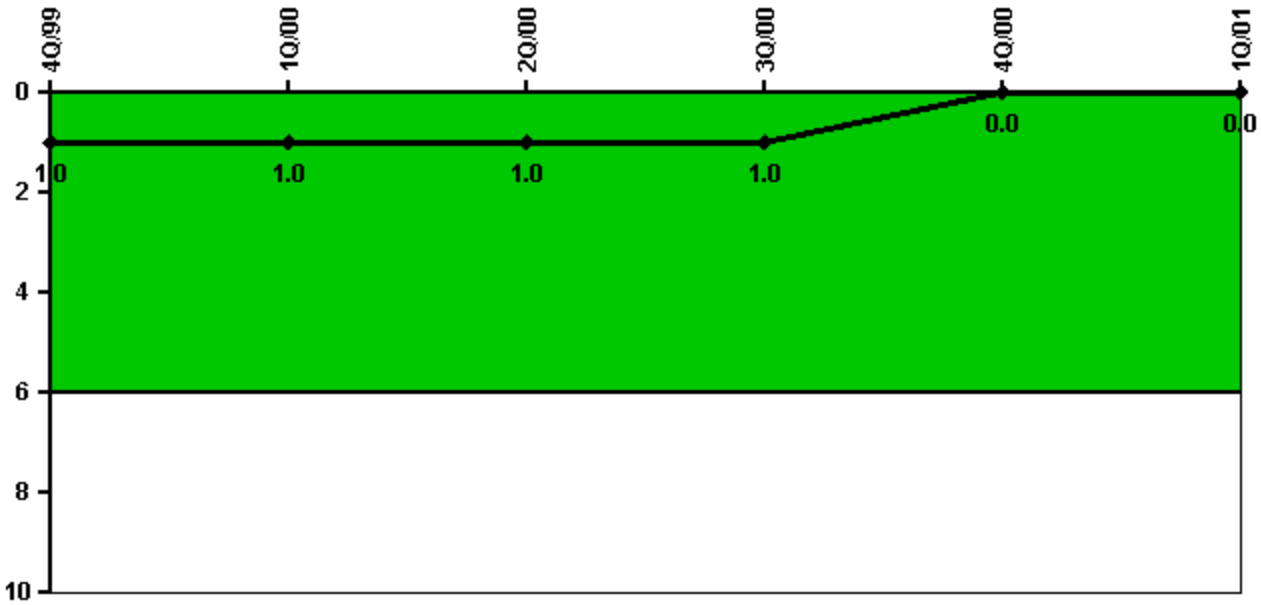
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
<b>Train 1</b>						
Planned unavailable hours	0	44.88	16.32	14.27	4.40	25.73
Unplanned unavailable hours	0	0	0	1.40	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>						
Planned unavailable hours	4.75	18.93	49.67	8.35	13.54	26.62
Unplanned unavailable hours	6.16	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



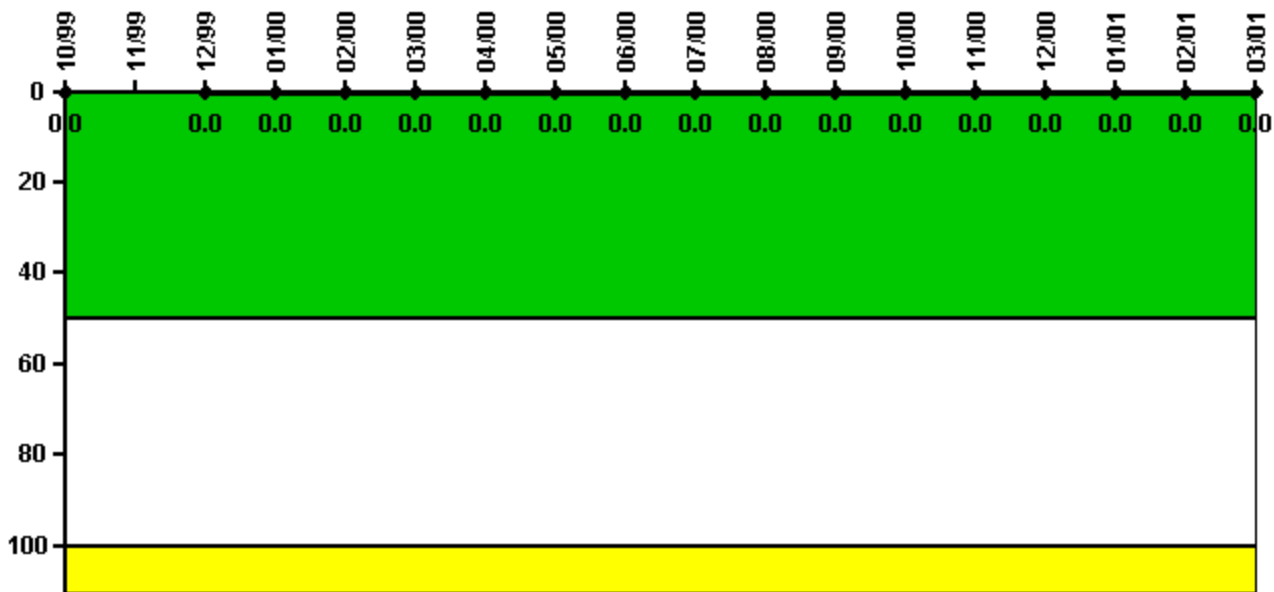
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Safety System Functional Failures	1	0	0	0	0	0
Indicator value	1	1	1	1	0	0

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

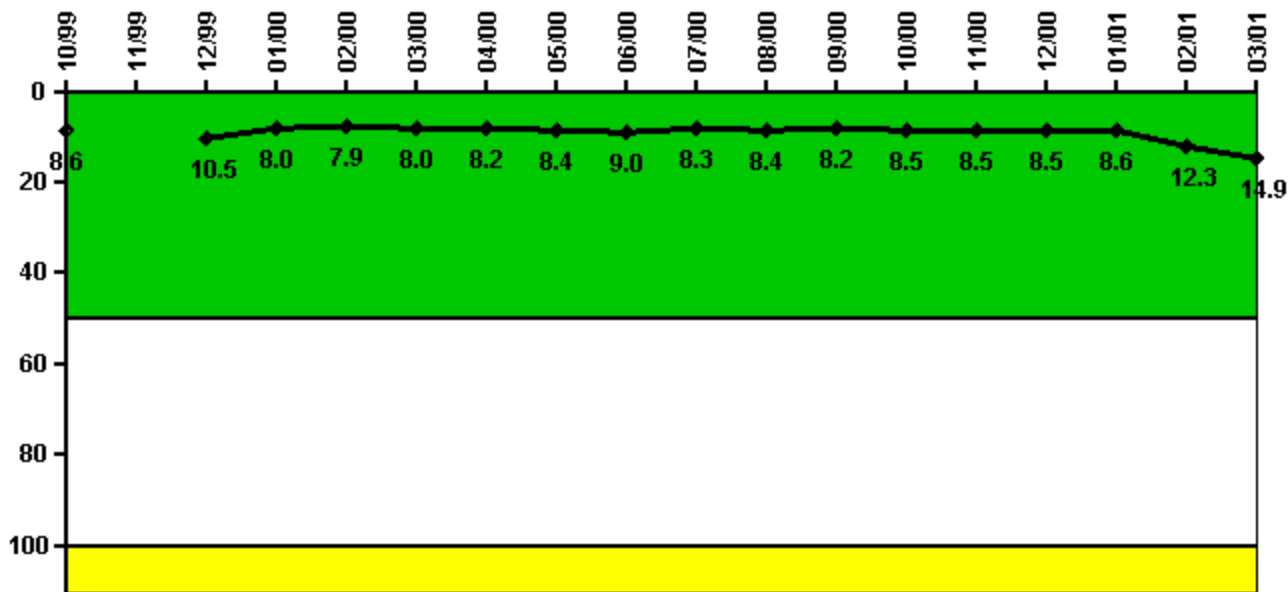
Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000060	N/A	0.000036	0.000051	0.000039	0.000050	0.000042	0.000051	0.000045	0.000045	0.000050	0.000046
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	N/A	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000044	0.000053	0.000042	0.000053	0.000043	0.000042
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

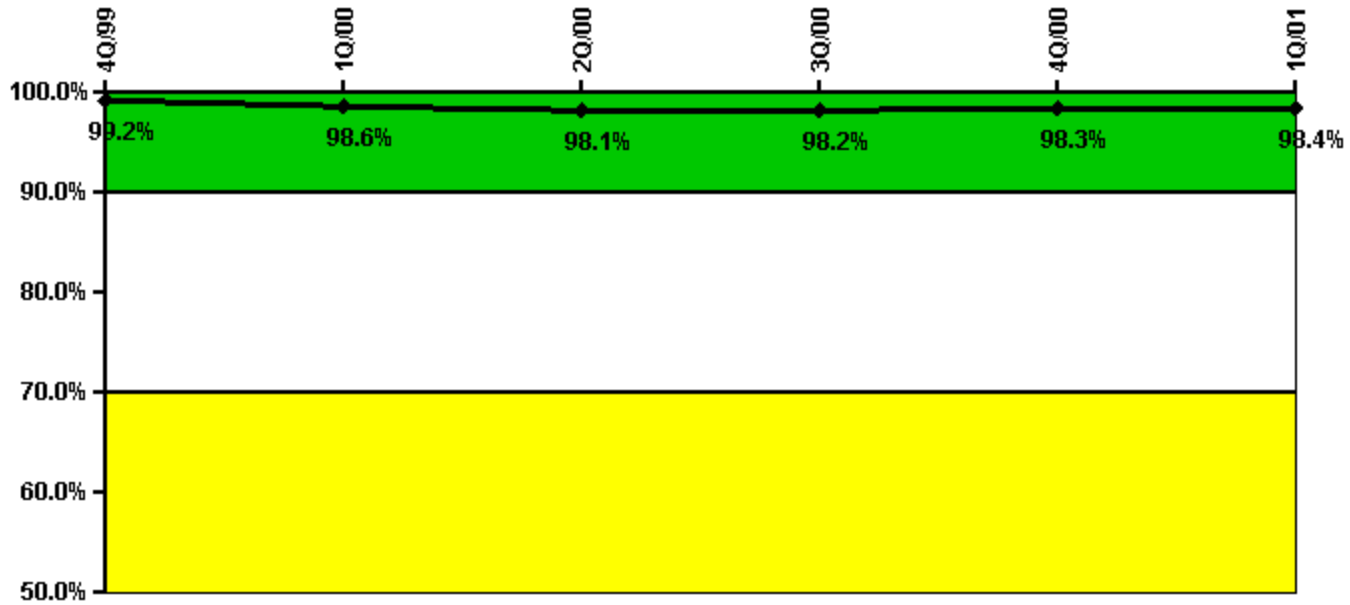
#### Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	2.580	N/A	3.160	2.390	2.370	2.390	2.460	2.510	2.700	2.490	2.530	2.460
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.6	N/A	10.5	8.0	7.9	8.0	8.2	8.4	9.0	8.3	8.4	8.2

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	2.560	2.550	2.550	2.570	3.700	4.470
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.5	8.5	8.5	8.6	12.3	14.9

Licensee Comments: none

### Drill/Exercise Performance



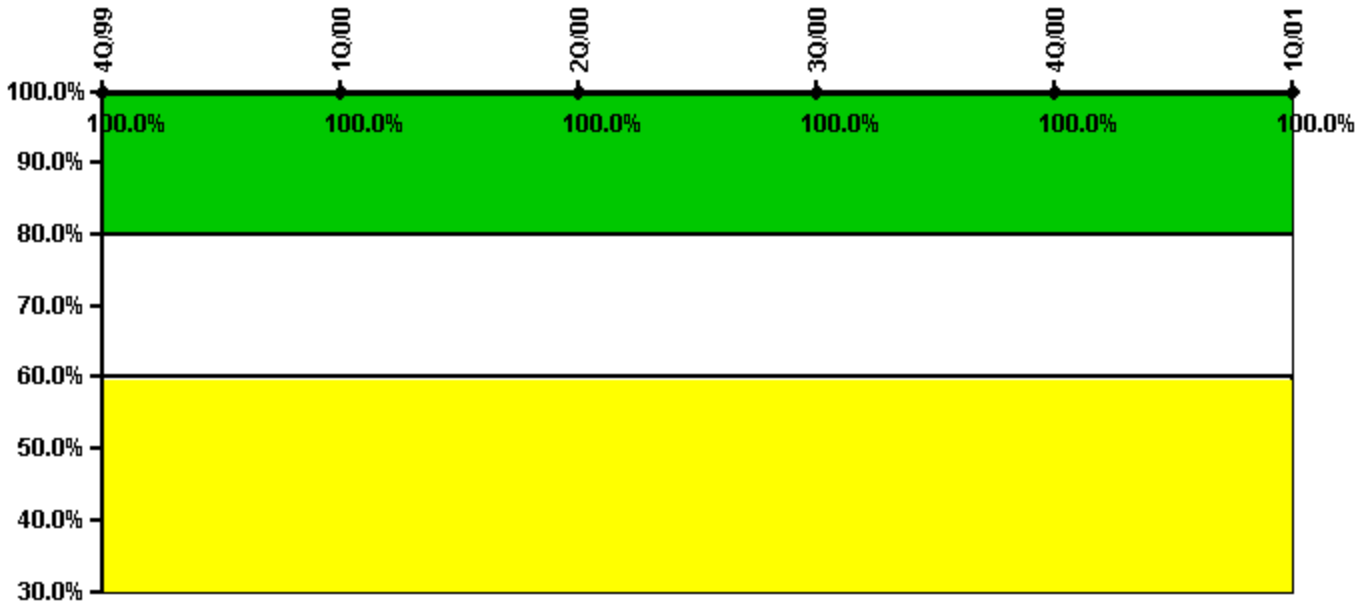
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	11.0	32.0	70.0	24.0	34.0	30.0
Total opportunities	11.0	33.0	72.0	24.0	34.0	30.0
Indicator value	99.2%	98.6%	98.1%	98.2%	98.3%	98.4%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

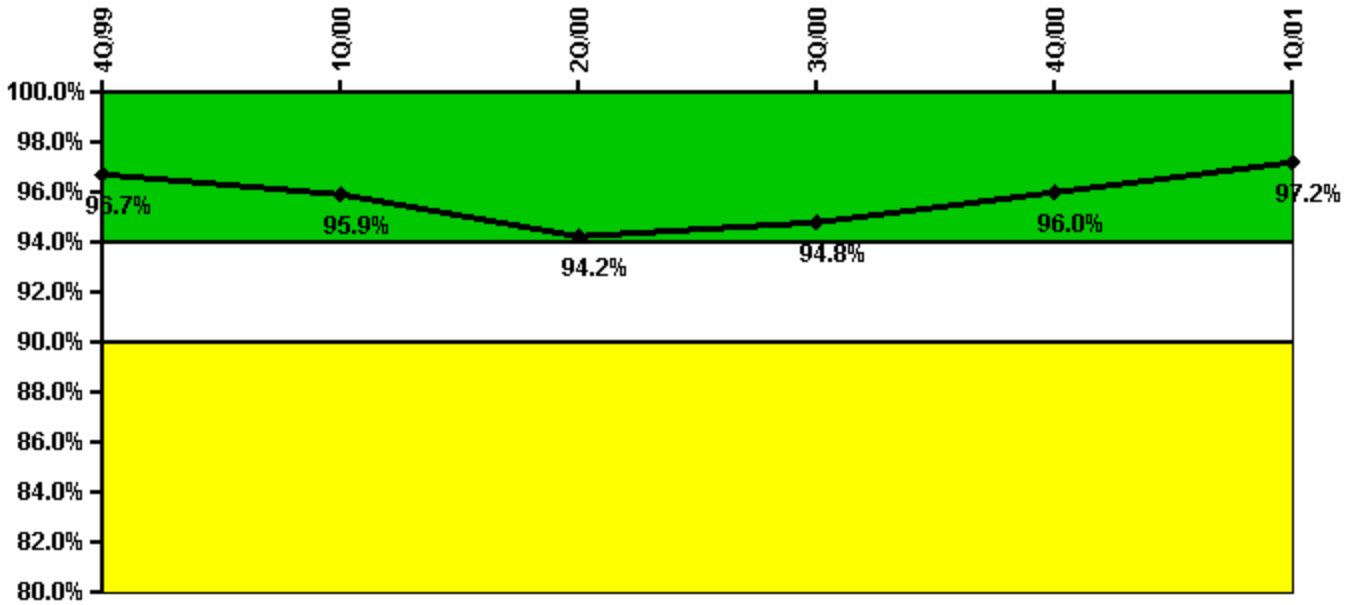
#### Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel	55.0	63.0	61.0	63.0	79.0	83.0
Total Key personnel	55.0	63.0	61.0	63.0	79.0	83.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none



### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful siren-tests	123	122	117	168	212	255
Total sirens-tests	129	129	129	172	215	258
Indicator value	96.7%	95.9%	94.2%	94.8%	96.0%	97.2%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



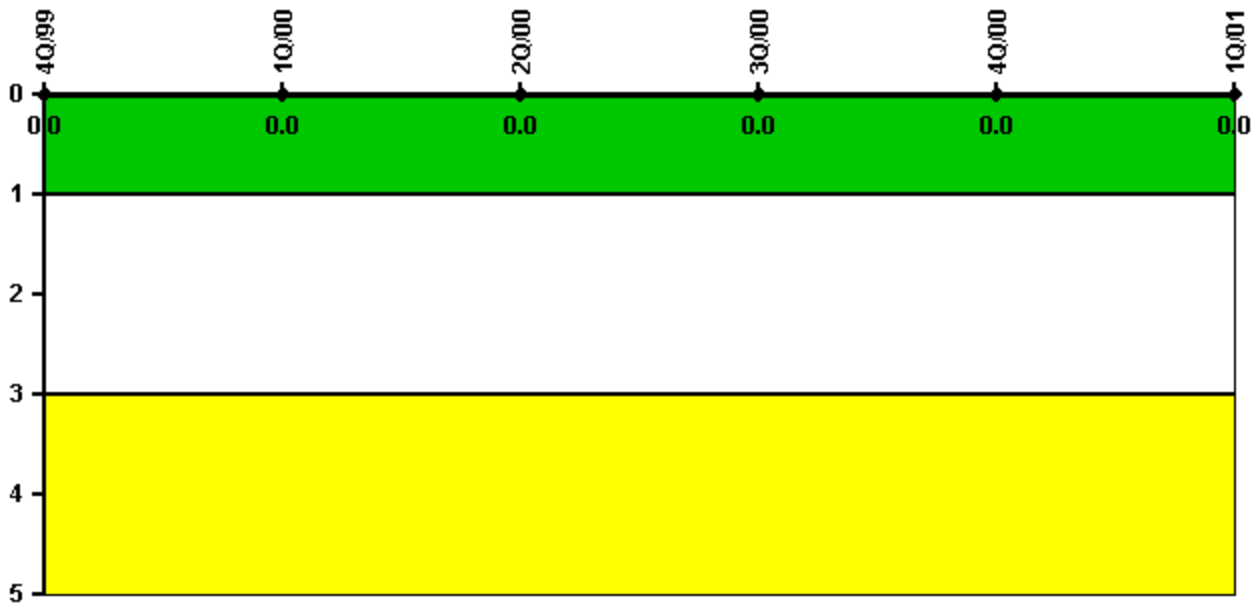
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
High radiation area occurrences	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0
Unintended exposure occurrences	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>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



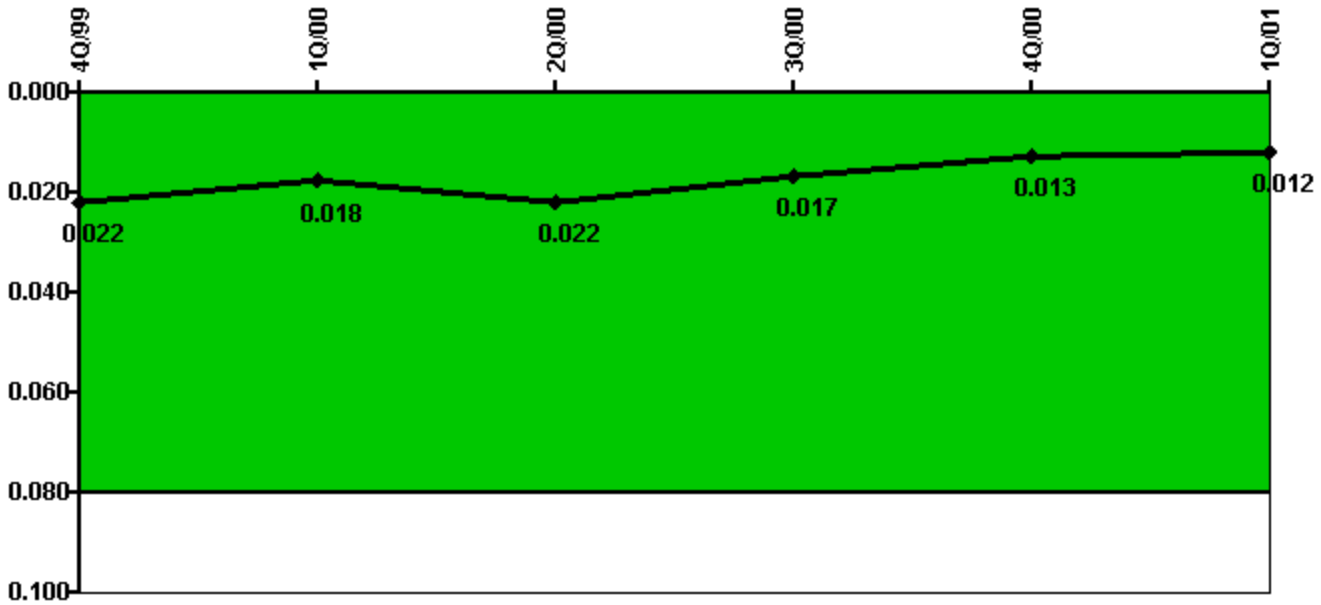
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
RETS/ODCM occurrences	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



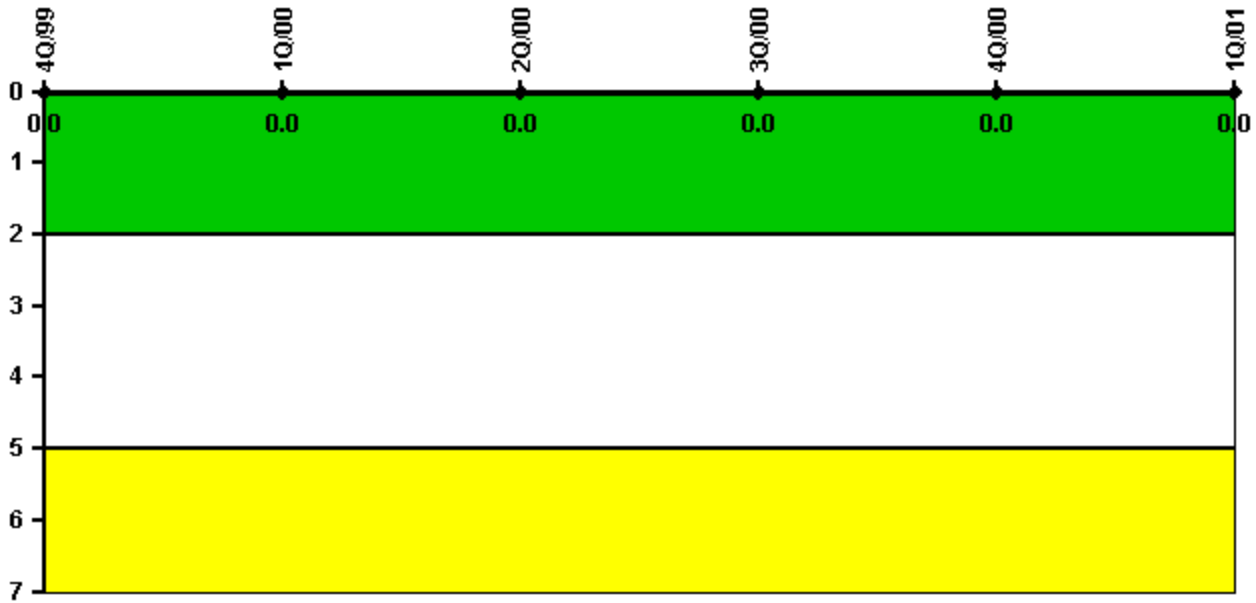
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
IDS compensatory hours	93.01	74.70	168.60	96.90	6.90	50.50
CCTV compensatory hours	20.4	5.6	1.3	6.2	1.2	4.7
IDS normalization factor	1.60	1.60	1.60	1.60	1.60	1.60
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.2
<b>Index Value</b>	<b>0.022</b>	<b>0.018</b>	<b>0.022</b>	<b>0.017</b>	<b>0.013</b>	<b>0.012</b>

Licensee Comments: none

### Personnel Screening Program



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program failures	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program Failures	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

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

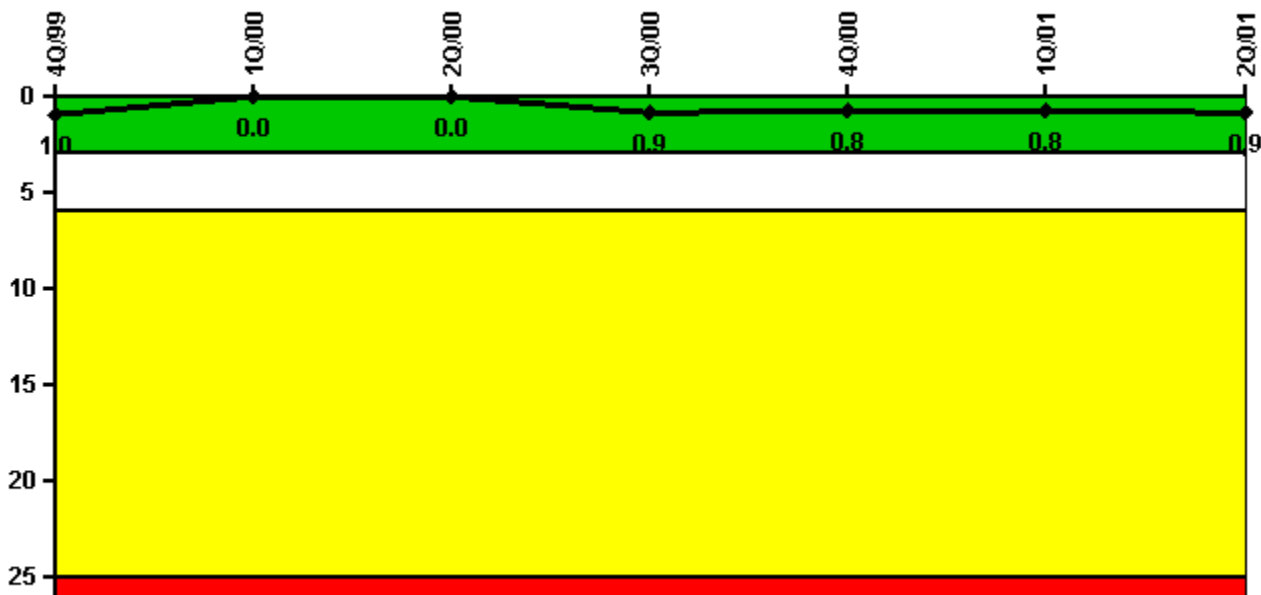
Last Modified: March 28, 2002

### Grand Gulf 1

#### 2Q/2001 Performance Indicators

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



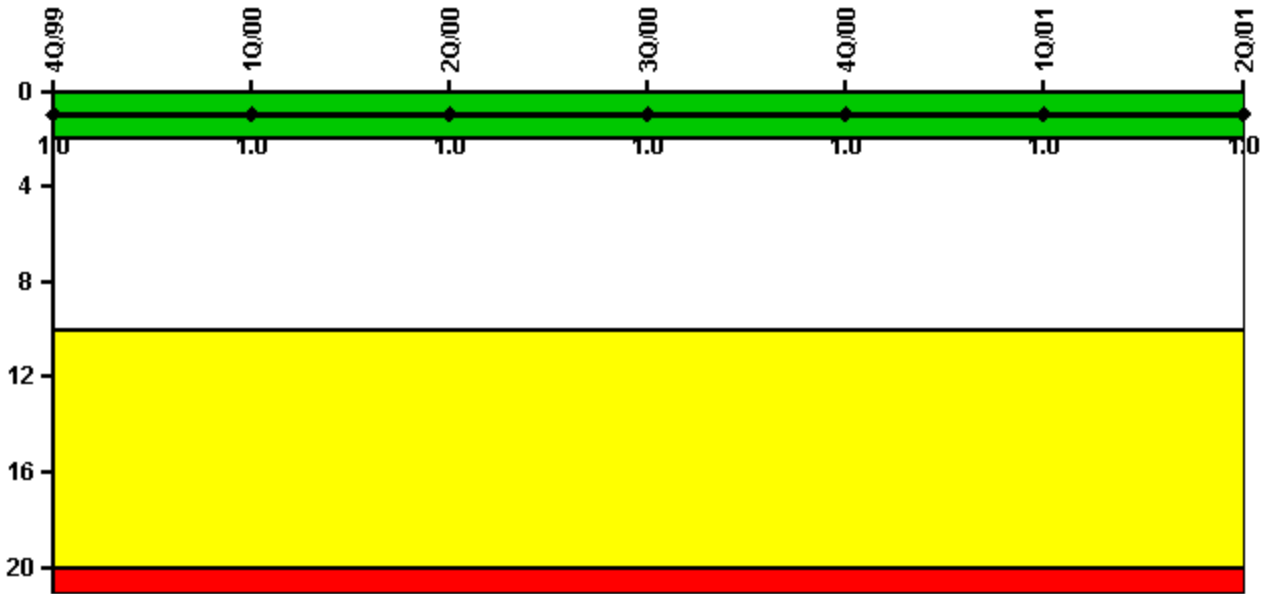
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

#### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned scrams	0	0	0	1.0	0	0	0
Critical hours	1107.3	2184.0	2183.0	2155.3	2209.0	2160.0	1695.3
<b>Indicator value</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

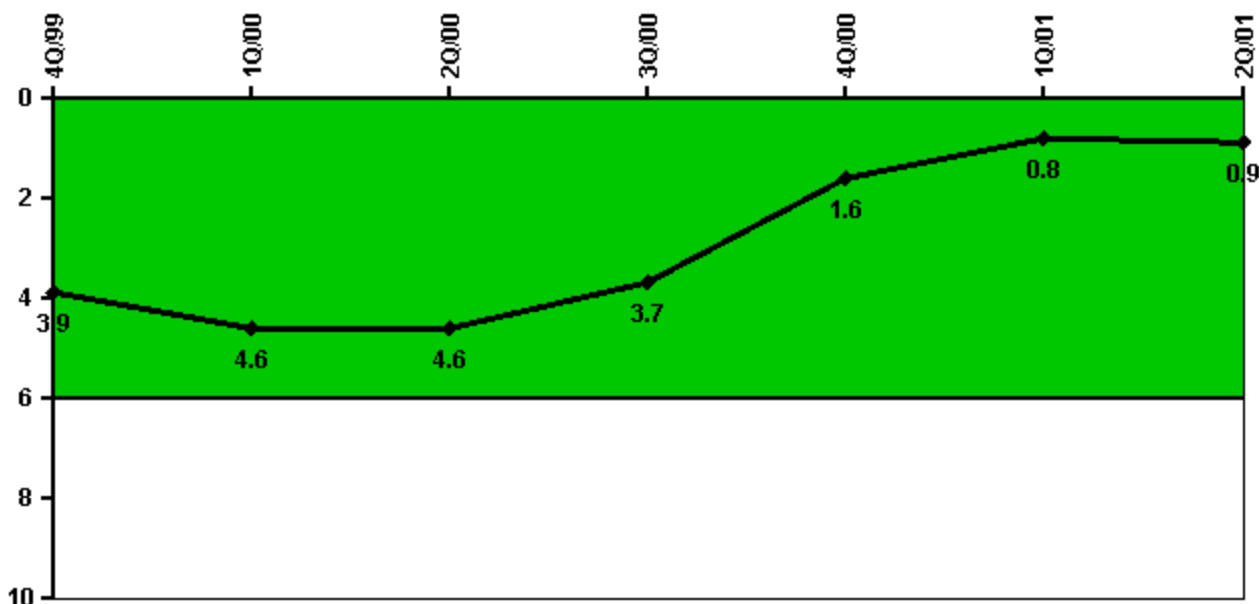
#### Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Scrams	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none



### Unplanned Power Changes per 7000 Critical Hrs



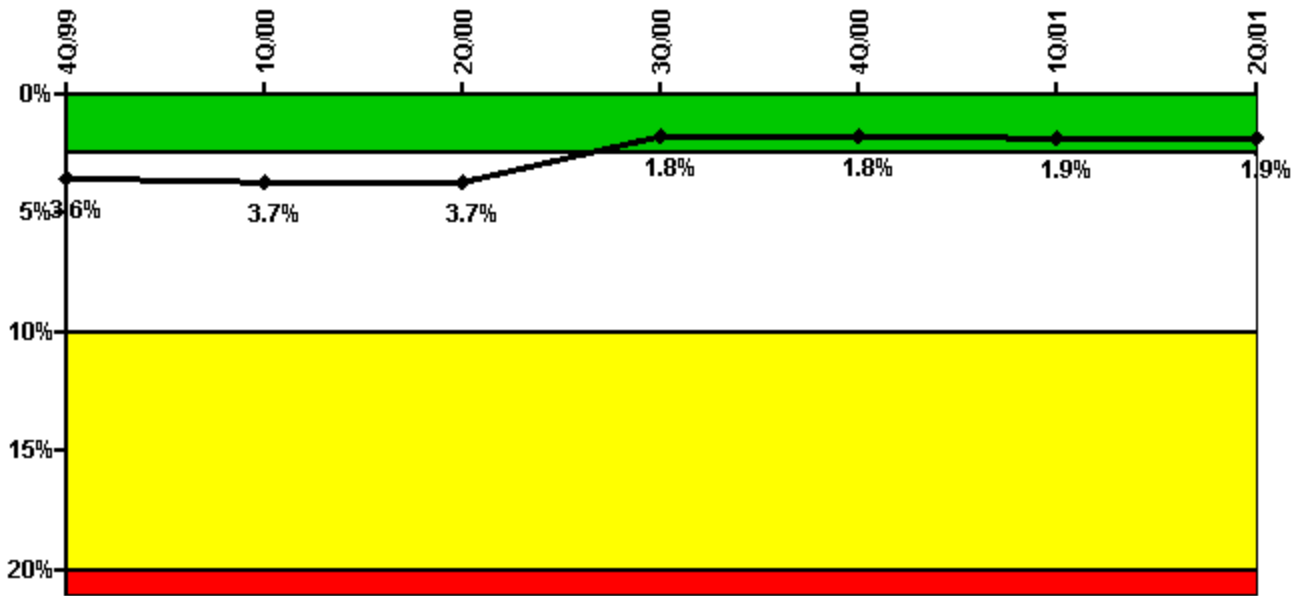
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned power changes	2.0	2.0	0	0	0	1.0	0
Critical hours	1107.3	2184.0	2183.0	2155.3	2209.0	2160.0	1695.3
Indicator value	3.9	4.6	4.6	3.7	1.6	0.8	0.9

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
<b>Train 1</b>							
Planned unavailable hours	0	37.61	43.90	12.82	3.22	39.52	4.29
Unplanned unavailable hours	0	0	0	0	0	40.25	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 2</b>							
Planned unavailable hours	0	49.58	35.67	21.93	3.91	26.95	1.67
Unplanned unavailable hours	4.10	0	0	0	0	13.16	4.20
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 3</b>							
Planned unavailable hours	0	39.97	23.82	73.05	3.92	4.17	2.81
Unplanned unavailable hours	0	0	9.53	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	1444.80	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Indicator value</b>	<b>3.6%</b>	<b>3.7%</b>	<b>3.7%</b>	<b>1.8%</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.9%</b>

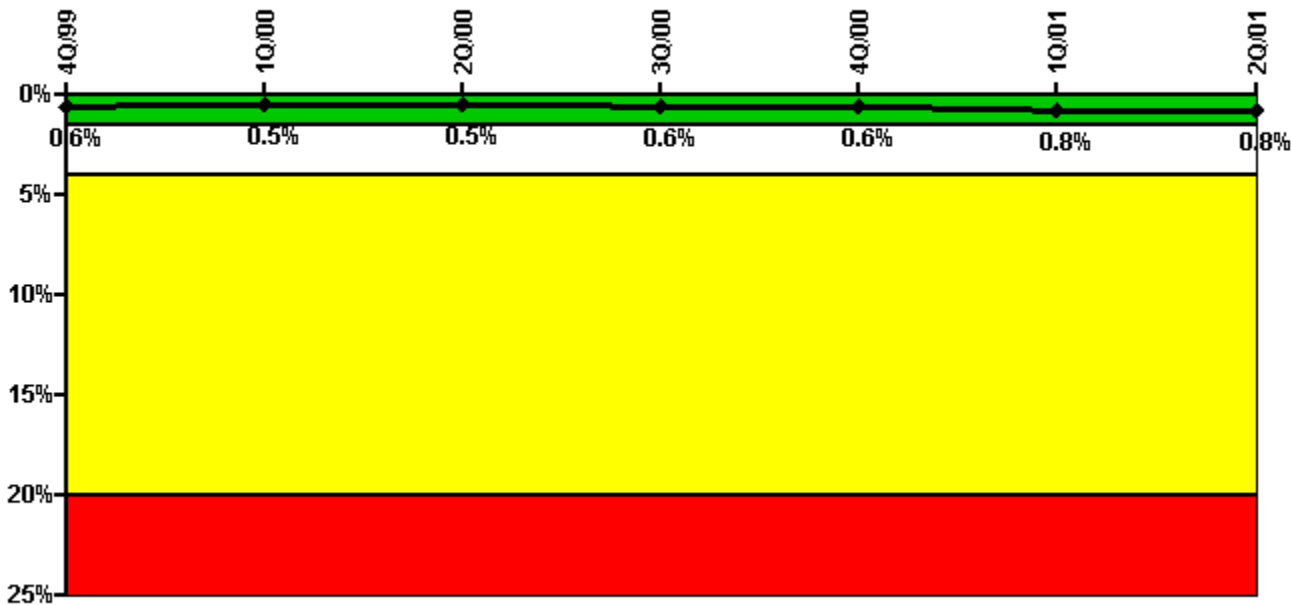
Licensee Comments:

3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator from white to green.

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process

### Safety System Unavailability, High Pressure Injection System (HPCS)



Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

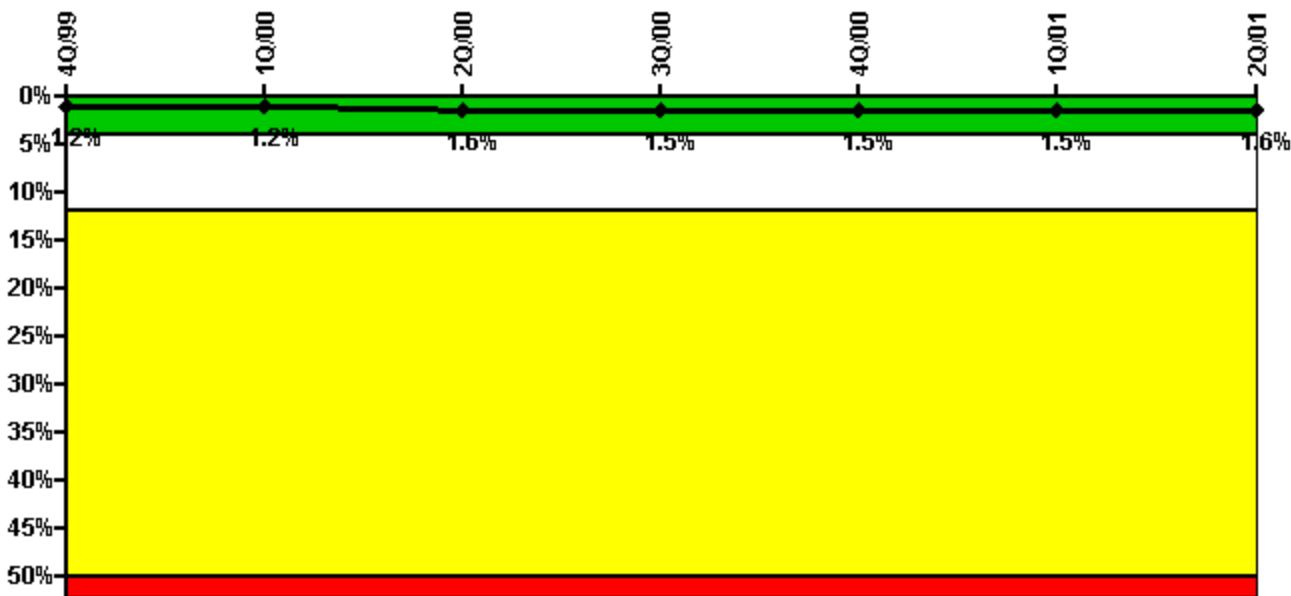
#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
<b>Train 1</b>							
Planned unavailable hours	0	43.78	11.58	15.94	2.91	65.85	2.69
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	1107.30	2184.00	2183.00	2208.00	2209.00	2160.00	1695.30
<b>Indicator value</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.8%</b>	<b>0.8%</b>

Licensee Comments:

1Q/01: Revision to previously submitted data: 3.75 additional unavailable hours were identified for 1Q2001 data. PI color is unaffected

### Safety System Unavailability, Heat Removal System (RCIC)



Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

**Notes**

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
<b>Train 1</b>							
Planned unavailable hours	71.64	27.23	76.73	5.70	81.77	22.01	30.75
Unplanned unavailable hours	0	0	0	0.67	0.07	0	5.10
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	1107.30	2184.00	2183.00	2208.00	2209.00	2160.00	1695.30
<b>Indicator value</b>	<b>1.2%</b>	<b>1.2%</b>	<b>1.6%</b>	<b>1.5%</b>	<b>1.5%</b>	<b>1.5%</b>	<b>1.6%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



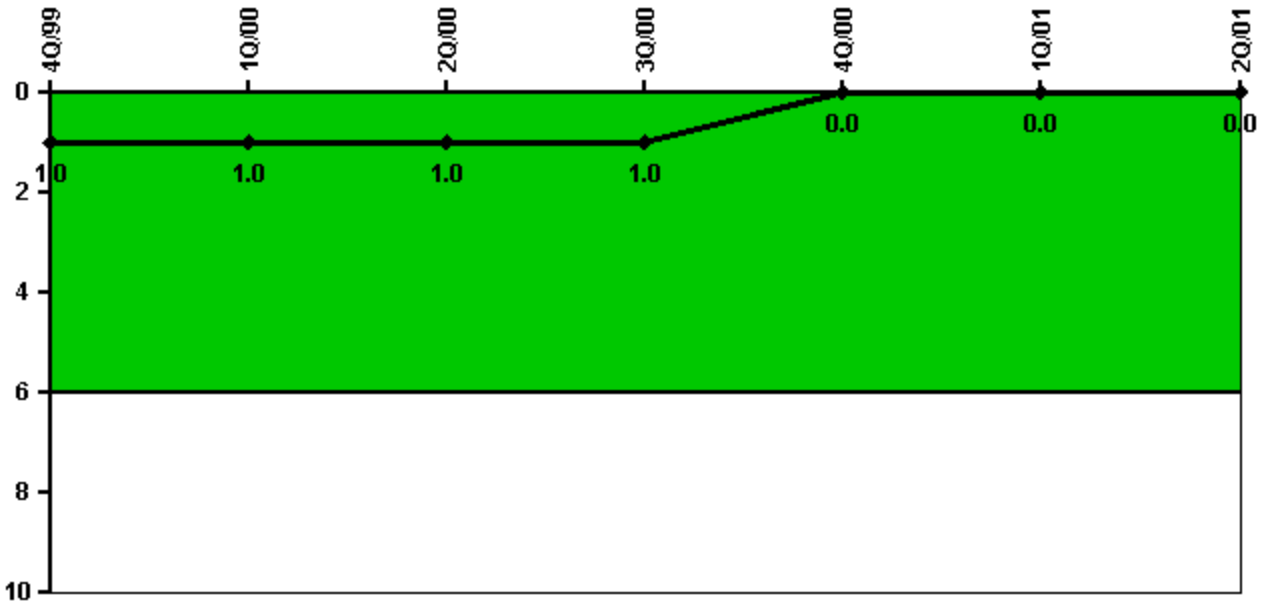
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
<b>Train 1</b>							
Planned unavailable hours	0	44.88	16.32	14.27	4.40	25.73	3.91
Unplanned unavailable hours	0	0	0	1.40	0	0	25.86
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 2</b>							
Planned unavailable hours	4.75	18.93	49.67	8.35	13.54	26.62	2.30
Unplanned unavailable hours	6.16	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Indicator value</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



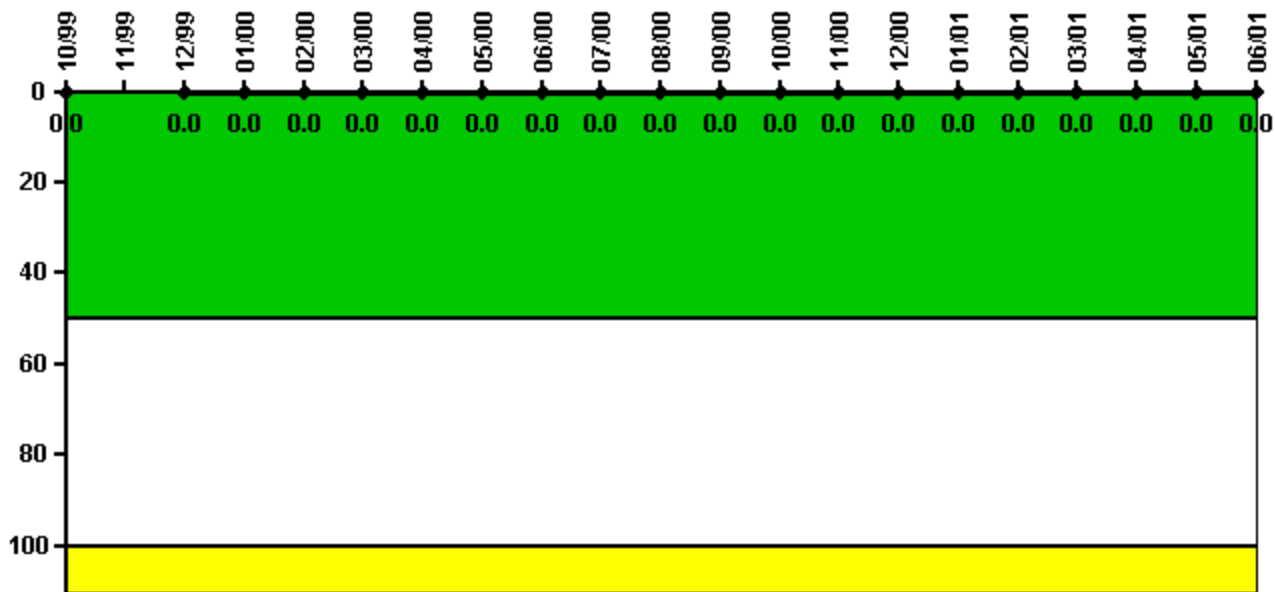
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Safety System Functional Failures	1	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

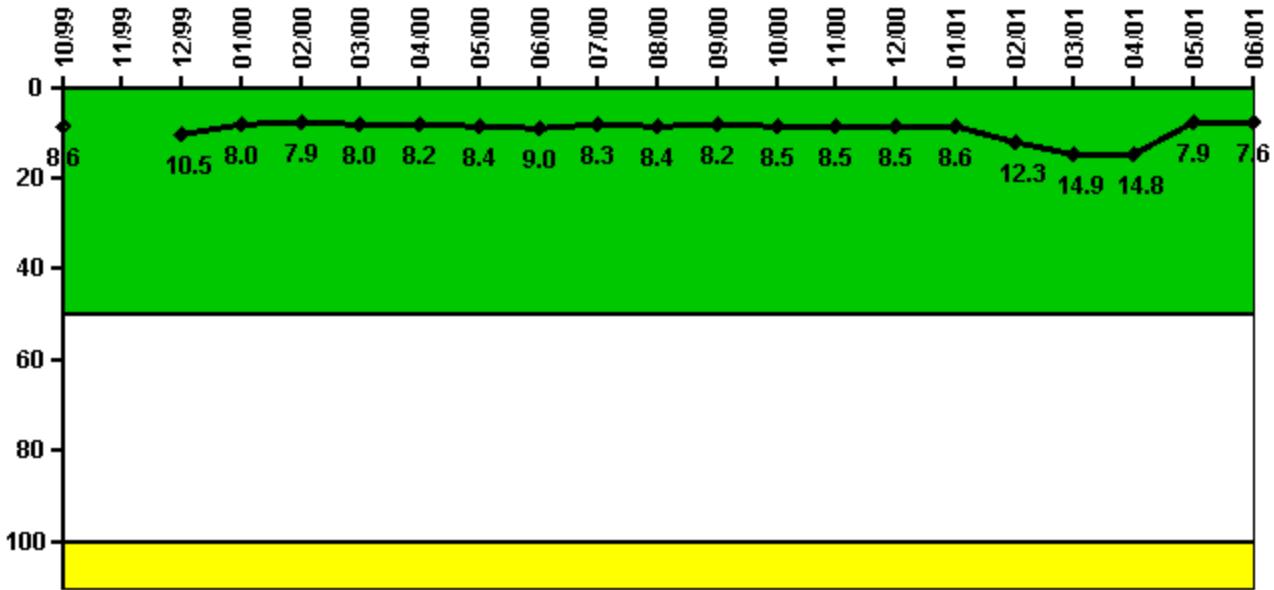
Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000060	N/A	0.000036	0.000051	0.000039	0.000050	0.000042	0.000051	0.000045	0.000045	0.000050	0.000046
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	N/A	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.000044	0.000053	0.000042	0.000053	0.000043	0.000042	0.000057	0.000030	0.000036
Technical specification limit	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

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

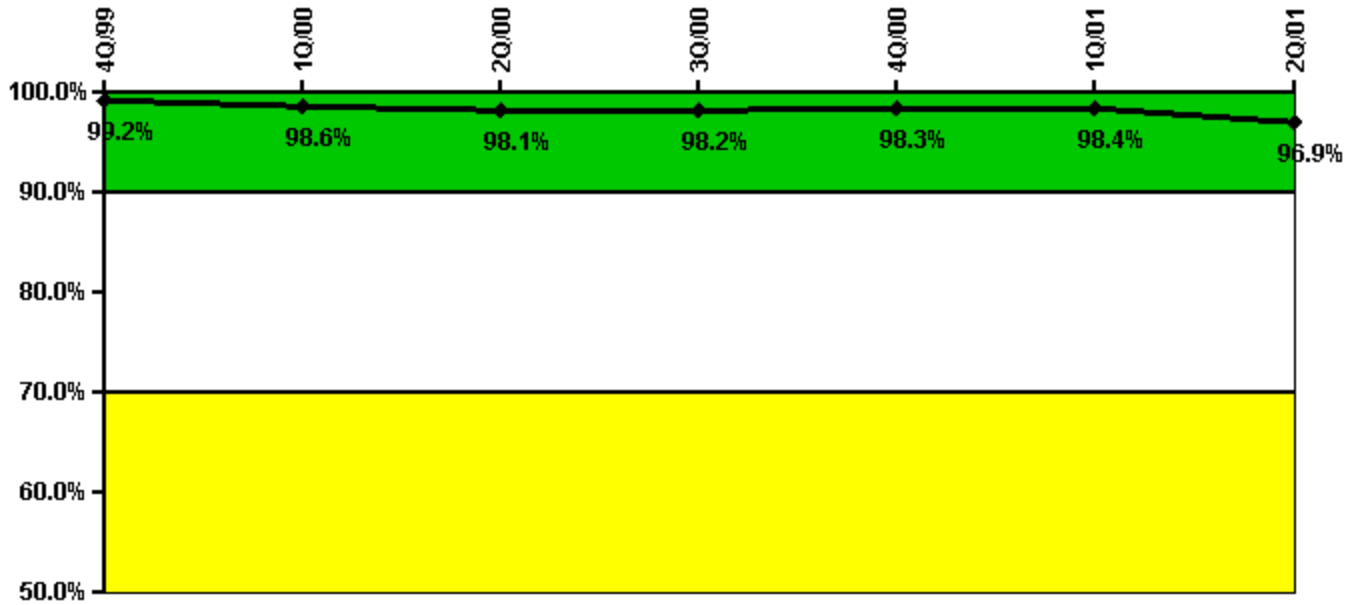
Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	2.580	N/A	3.160	2.390	2.370	2.390	2.460	2.510	2.700	2.490	2.530	2.460
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.6	N/A	10.5	8.0	7.9	8.0	8.2	8.4	9.0	8.3	8.4	8.2

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	2.560	2.550	2.550	2.570	3.700	4.470	4.430	2.380	2.280
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.5	8.5	8.5	8.6	12.3	14.9	14.8	7.9	7.6

Licensee Comments: none



### Drill/Exercise Performance



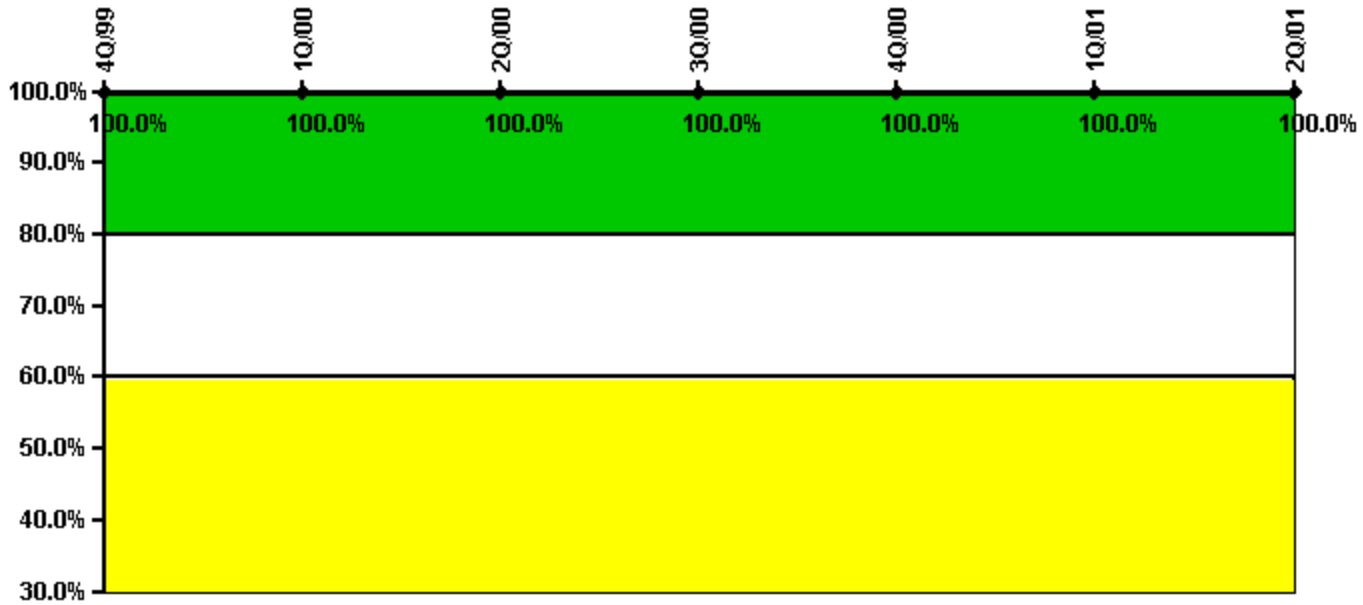
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful opportunities	11.0	32.0	70.0	24.0	34.0	30.0	20.0
Total opportunities	11.0	33.0	72.0	24.0	34.0	30.0	24.0
Indicator value	99.2%	98.6%	98.1%	98.2%	98.3%	98.4%	96.9%

Licensee Comments: none

### ERO Drill Participation



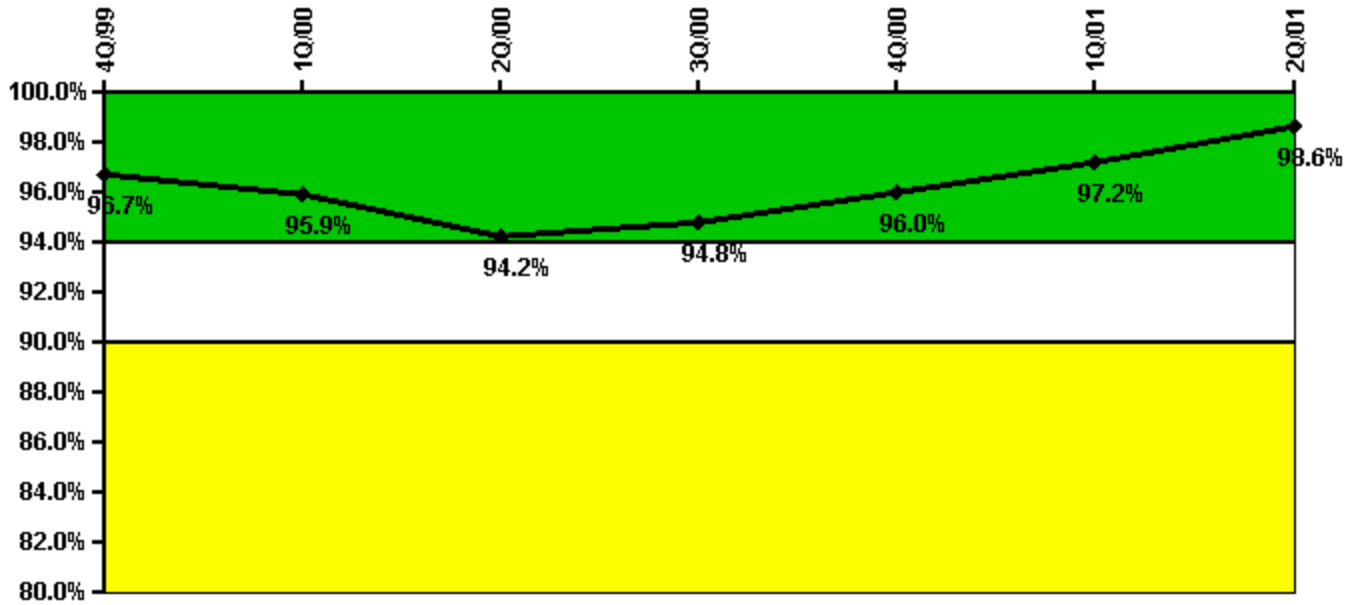
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Participating Key personnel	55.0	63.0	61.0	63.0	79.0	83.0	85.0
Total Key personnel	55.0	63.0	61.0	63.0	79.0	83.0	85.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



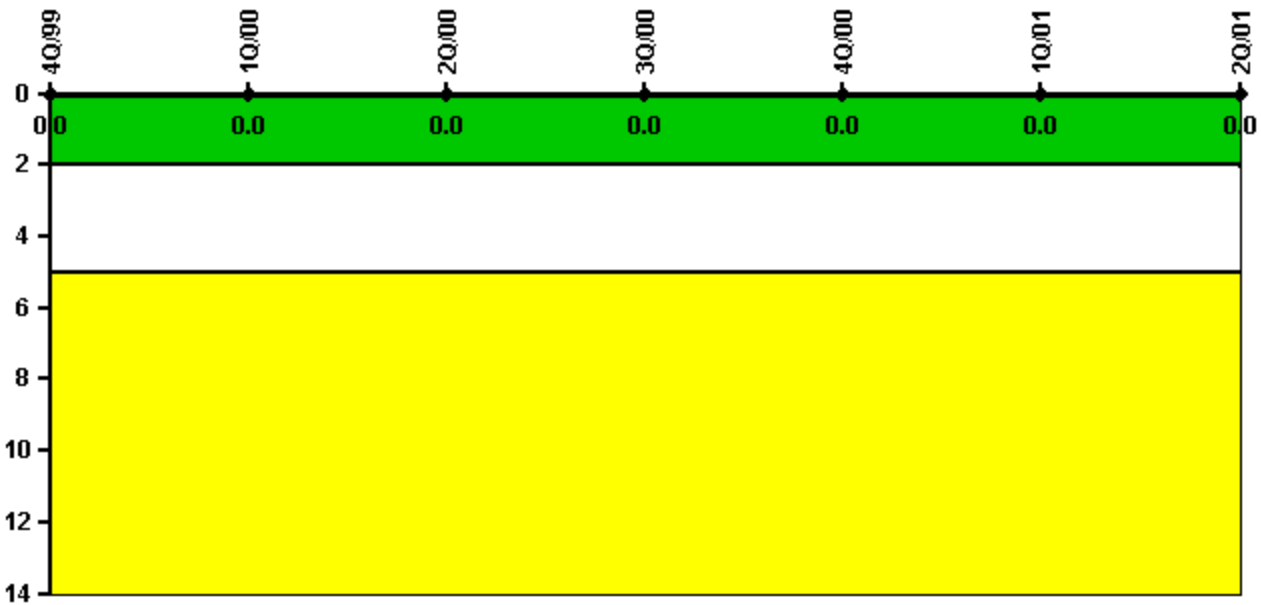
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful siren-tests	123	122	117	168	212	255	128
Total sirens-tests	129	129	129	172	215	258	129
Indicator value	96.7%	95.9%	94.2%	94.8%	96.0%	97.2%	98.6%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



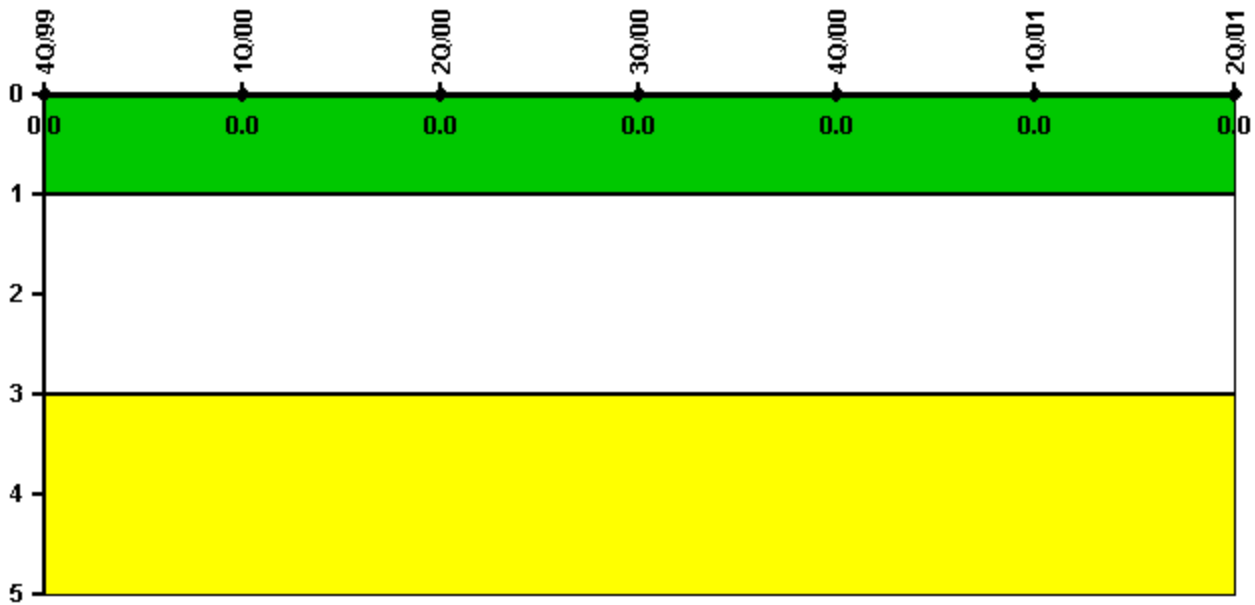
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
High radiation area occurrences	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0
Unintended exposure occurrences	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>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



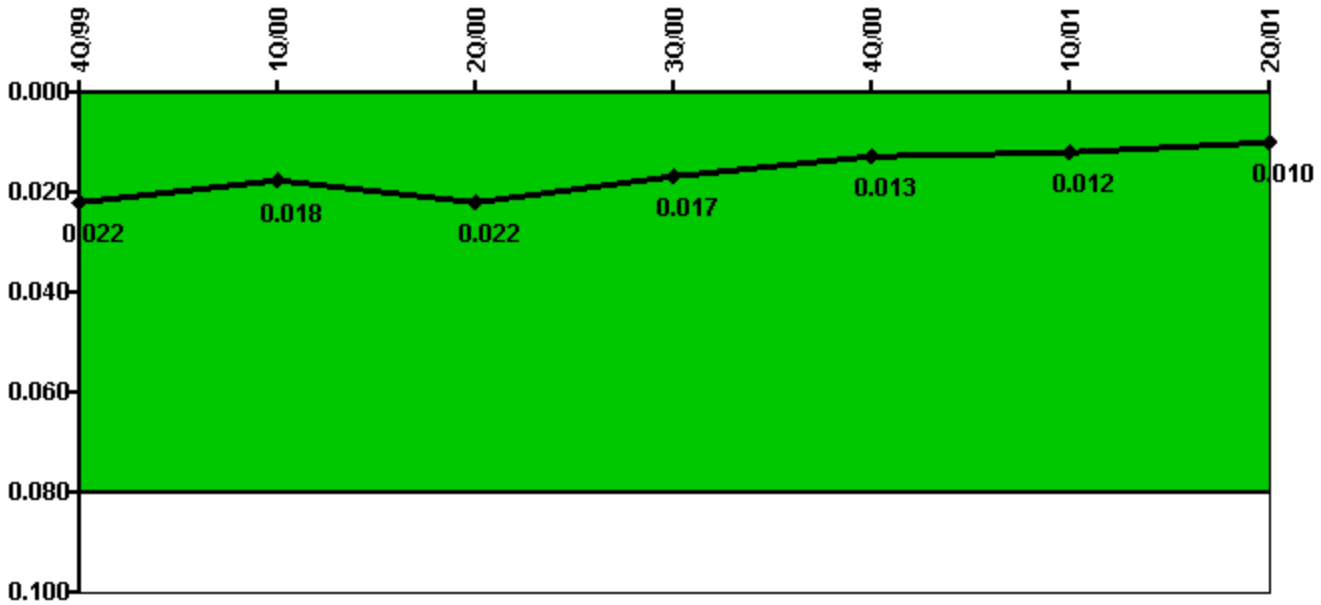
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



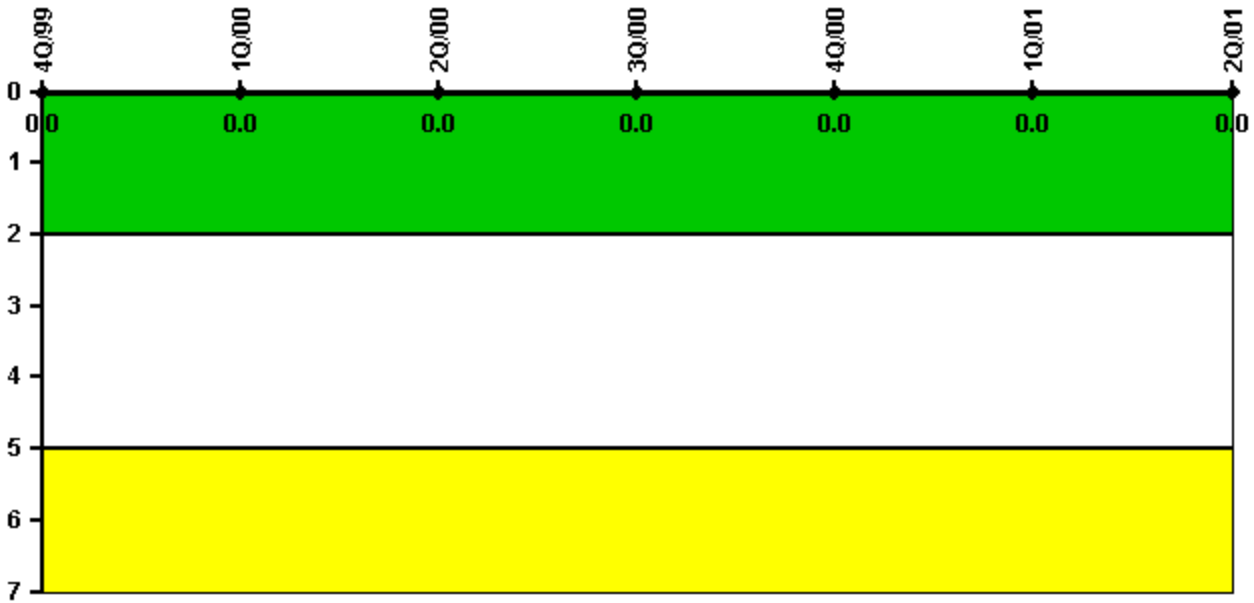
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	93.01	74.70	168.60	96.90	6.90	50.50	118.50
CCTV compensatory hours	20.4	5.6	1.3	6.2	1.2	4.7	0
IDS normalization factor	1.60	1.60	1.60	1.60	1.60	1.60	1.60
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.2	1.2
<b>Index Value</b>	<b>0.022</b>	<b>0.018</b>	<b>0.022</b>	<b>0.017</b>	<b>0.013</b>	<b>0.012</b>	<b>0.010</b>

Licensee Comments: none

### Personnel Screening Program



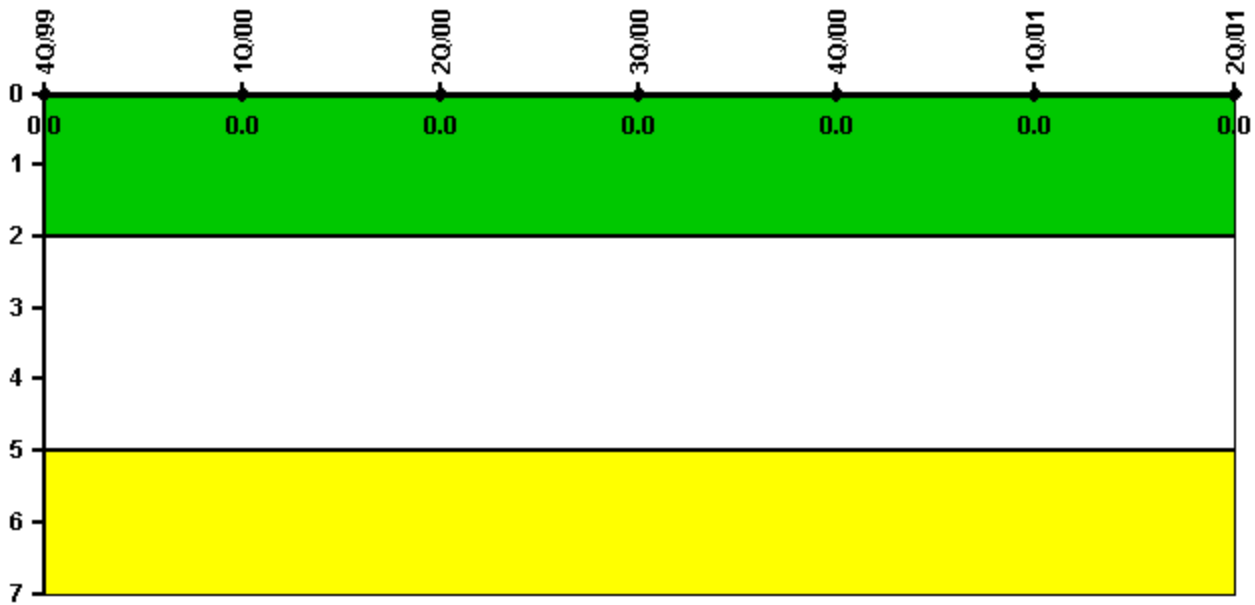
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Program failures	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Program Failures	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0

Licensee Comments: none

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

Last Modified: March 27, 2002

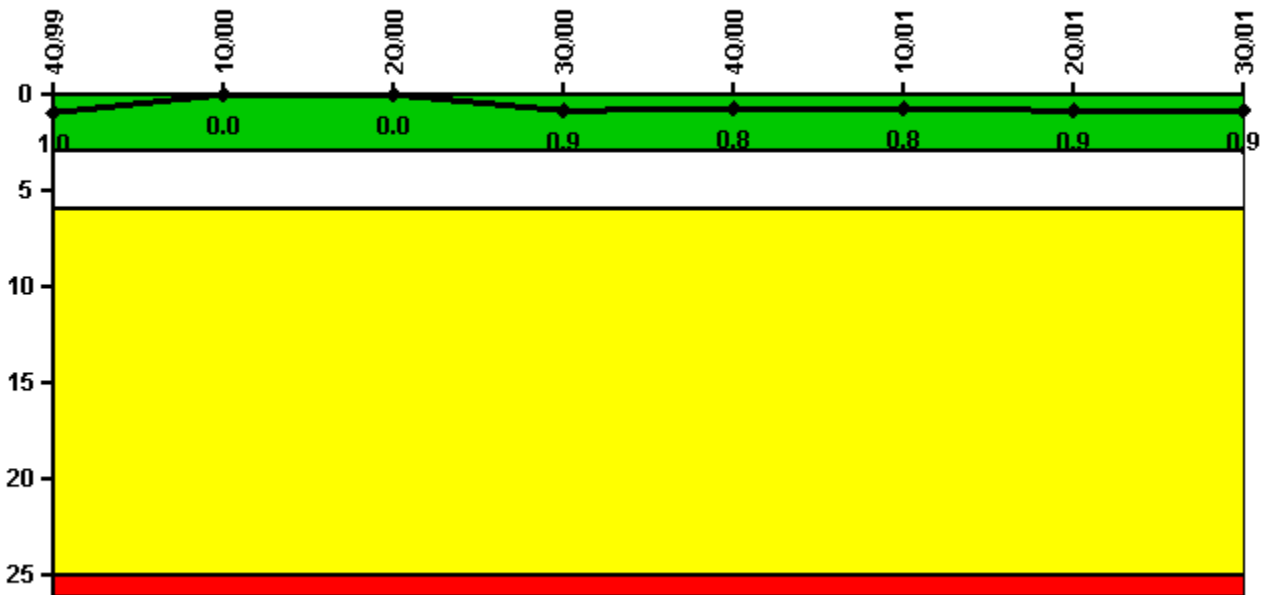


### Grand Gulf 1

#### 3Q/2001 Performance Indicators

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



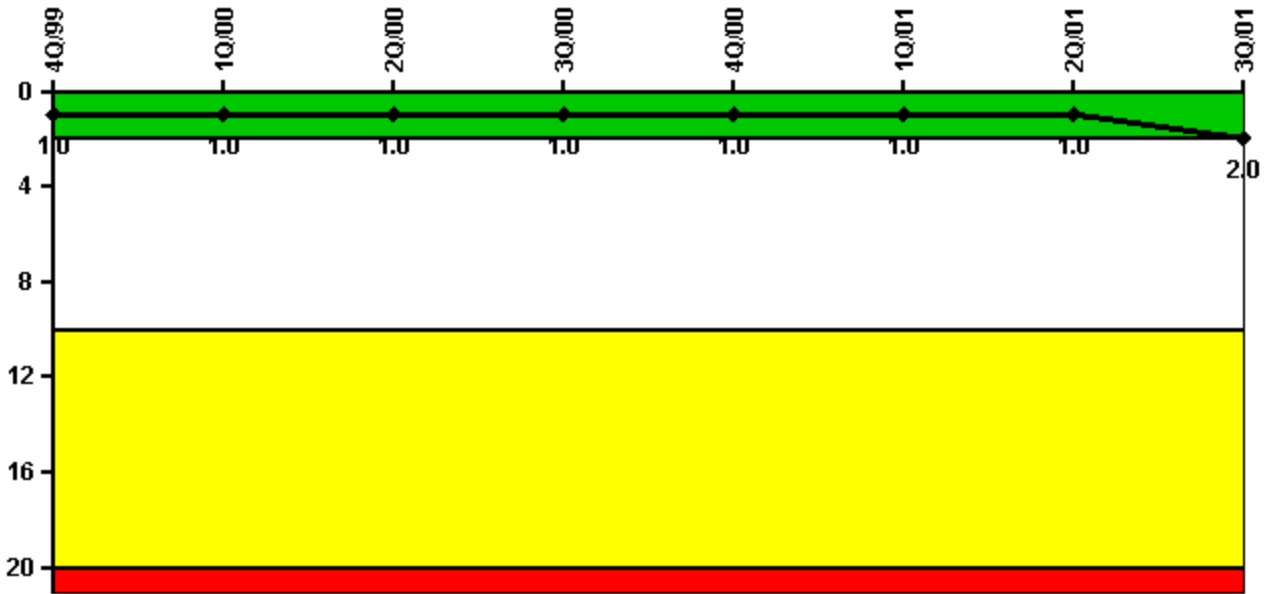
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

#### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned scrams	0	0	0	1.0	0	0	0	1.0
Critical hours	1107.3	2184.0	2183.0	2155.3	2209.0	2160.0	1695.3	2083.6
Indicator value	1.0	0	0	0.9	0.8	0.8	0.9	0.9

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



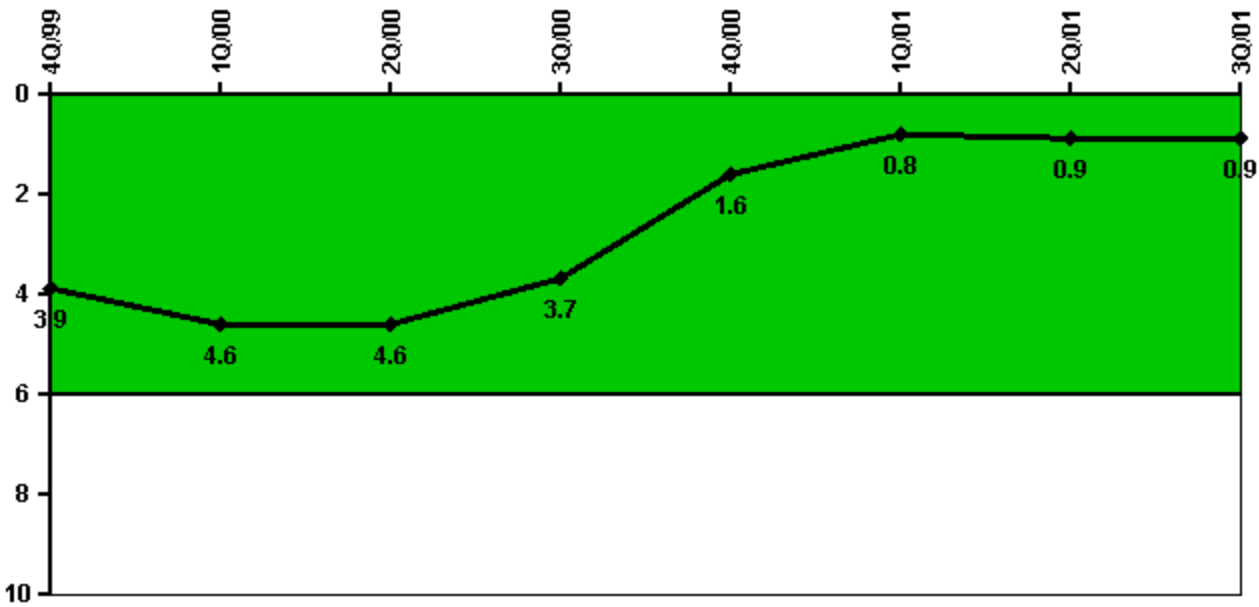
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Scrams	0	0	0	0	0	0	0	1.0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



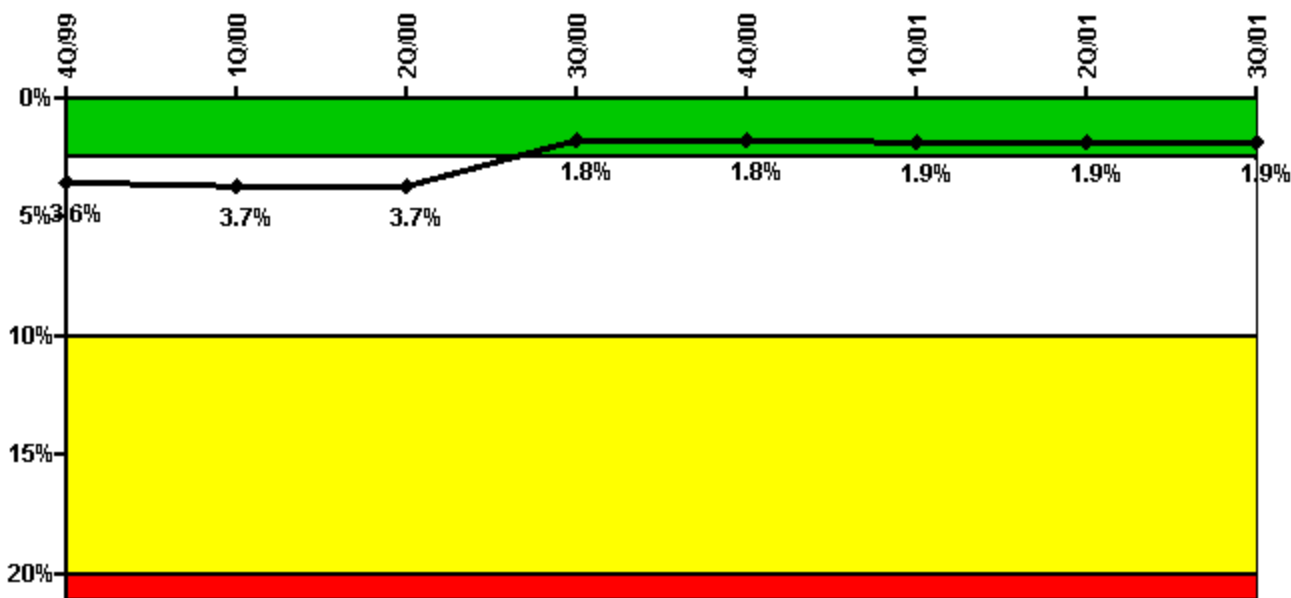
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned power changes	2.0	2.0	0	0	0	1.0	0	0
Critical hours	1107.3	2184.0	2183.0	2155.3	2209.0	2160.0	1695.3	2083.6
Indicator value	3.9	4.6	4.6	3.7	1.6	0.8	0.9	0.9

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
<b>Train 1</b>								
Planned unavailable hours	0	37.61	43.90	12.82	3.22	39.52	4.29	33.44
Unplanned unavailable hours	0	0	0	0	0	40.25	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	0	49.58	35.67	21.93	3.91	26.95	1.67	8.28
Unplanned unavailable hours	4.10	0	0	0	0	13.16	4.20	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 3</b>								
Planned unavailable hours	0	39.97	23.82	73.05	3.92	4.17	2.81	3.23
Unplanned unavailable hours	0	0	9.53	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	1444.80	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Indicator value</b>	<b>3.6%</b>	<b>3.7%</b>	<b>3.7%</b>	<b>1.8%</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>

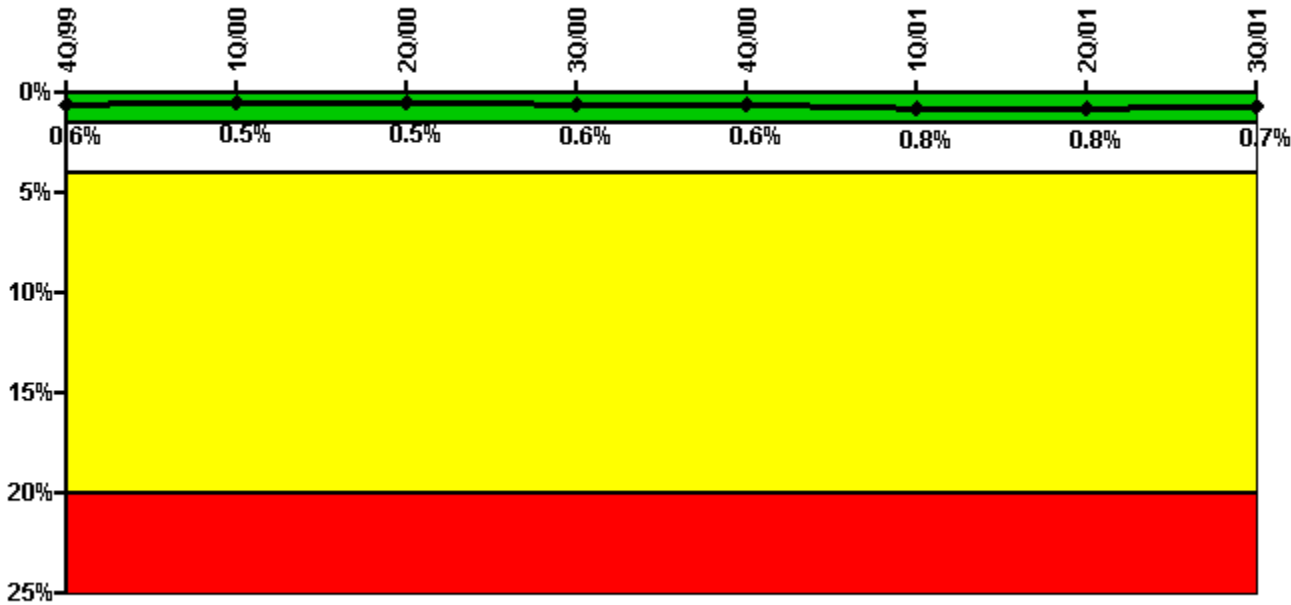
Licensee Comments:

3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator from white to green.

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process

### Safety System Unavailability, High Pressure Injection System (HPCS)



Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

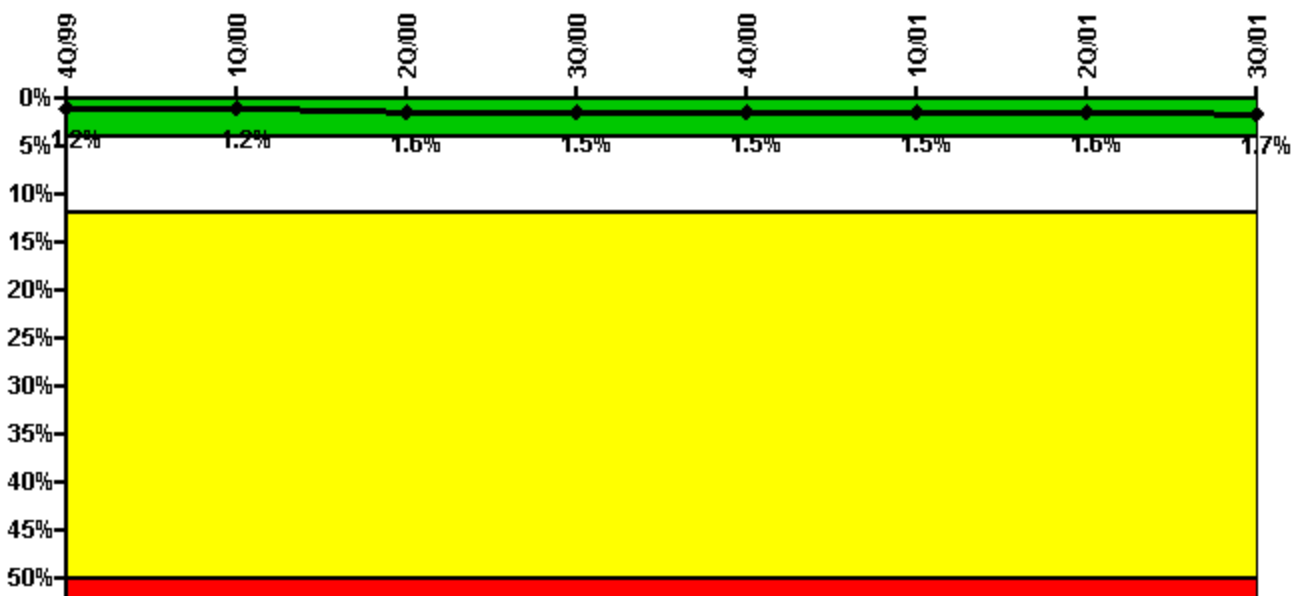
#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
<b>Train 1</b>								
Planned unavailable hours	0	43.78	11.58	15.94	2.91	65.85	2.69	1.86
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1107.30	2184.00	2183.00	2208.00	2209.00	2160.00	1695.30	2083.60
<b>Indicator value</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>

Licensee Comments:

1Q/01: Revision to previously submitted data: 3.75 additional unavailable hours were identified for 1Q2001 data. PI color is unaffected

### Safety System Unavailability, Heat Removal System (RCIC)



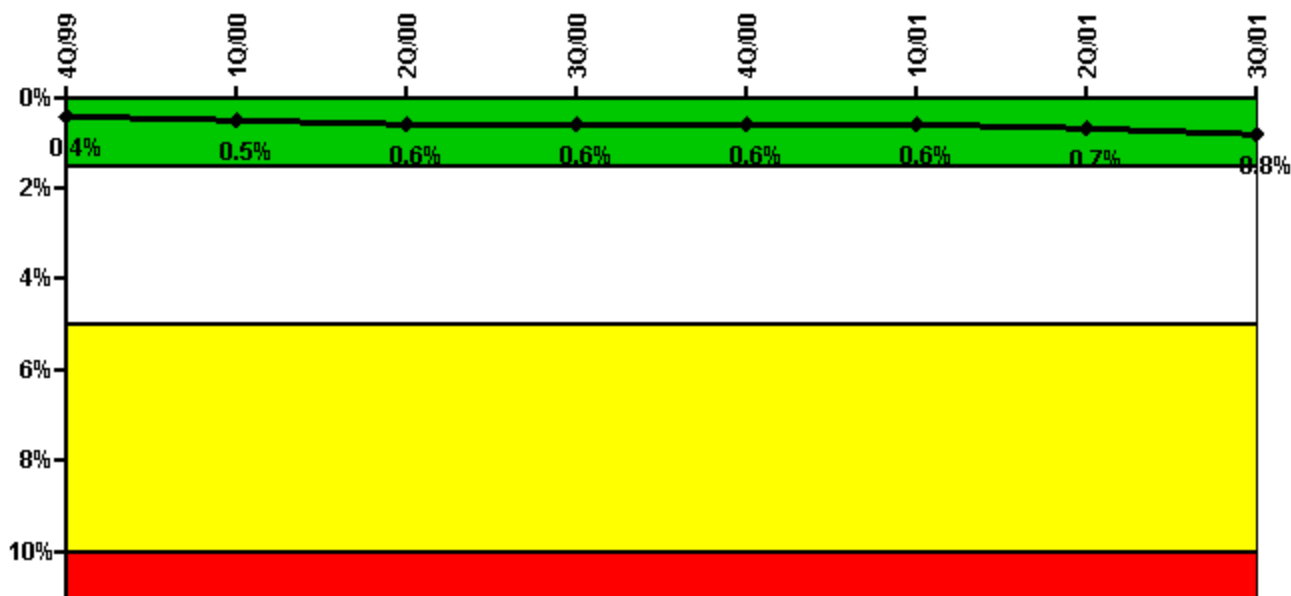
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
<b>Train 1</b>								
Planned unavailable hours	71.64	27.23	76.73	5.70	81.77	22.01	30.75	6.59
Unplanned unavailable hours	0	0	0	0.67	0.07	0	5.10	8.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1107.30	2184.00	2183.00	2208.00	2209.00	2160.00	1695.30	2083.60
Indicator value	1.2%	1.2%	1.6%	1.5%	1.5%	1.5%	1.6%	1.7%

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



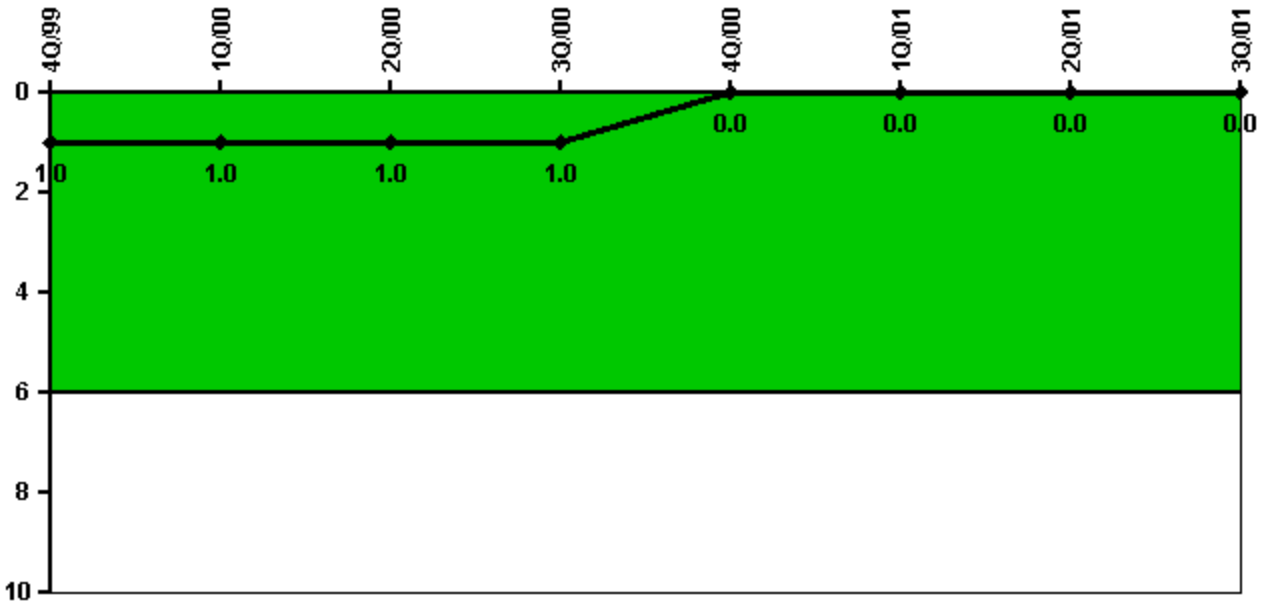
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
<b>Train 1</b>								
Planned unavailable hours	0	44.88	16.32	14.27	4.40	25.73	3.91	24.55
Unplanned unavailable hours	0	0	0	1.40	0	0	25.86	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	4.75	18.93	49.67	8.35	13.54	26.62	2.30	26.05
Unplanned unavailable hours	6.16	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Indicator value</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

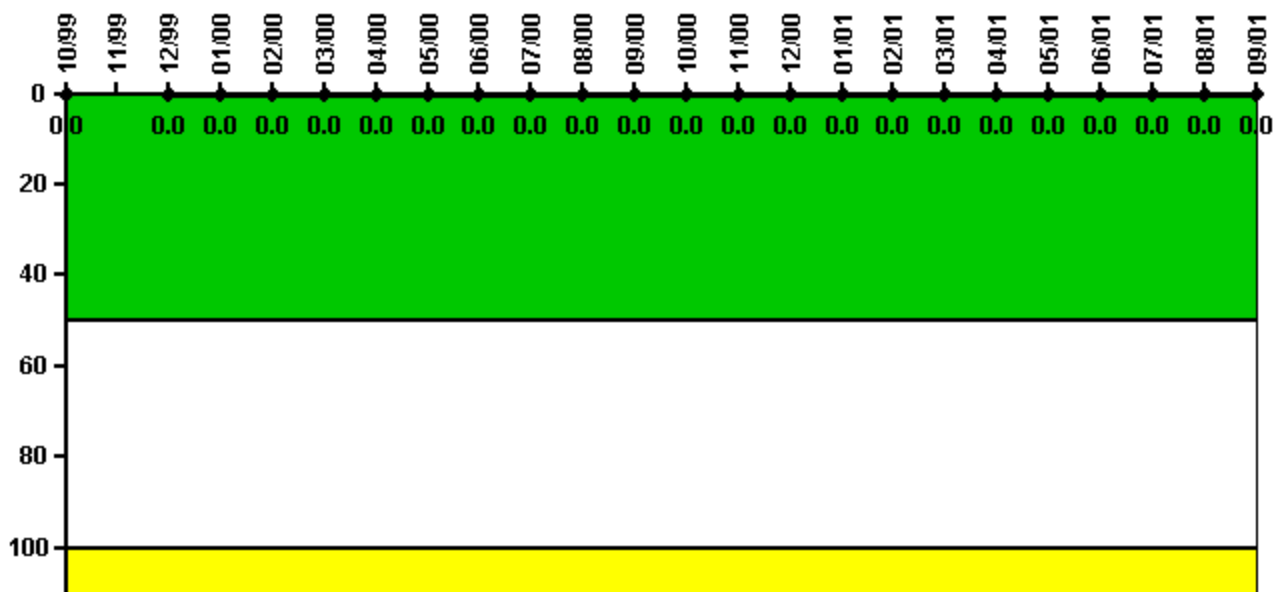
#### Notes

Safety System Functional Failures (BWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

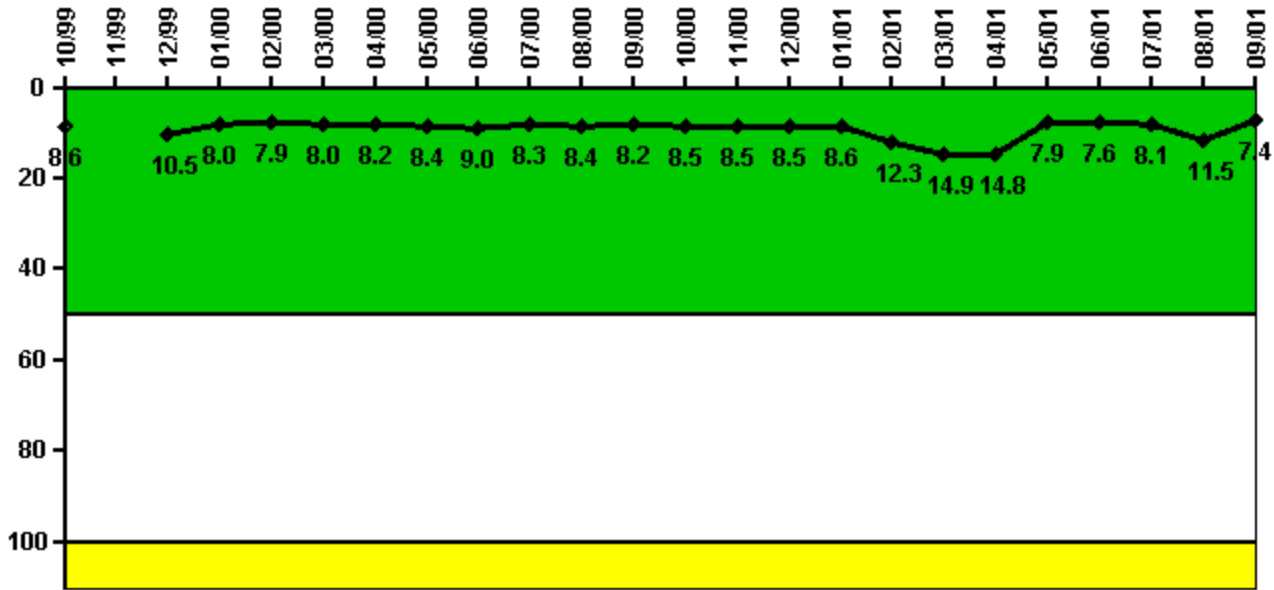
Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000060	N/A	0.000036	0.000051	0.000039	0.000050	0.000042	0.000051	0.000045	0.000045	0.000050	0.000046
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	N/A	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.000044	0.000053	0.000042	0.000053	0.000043	0.000042	0.000057	0.000030	0.000036	0.000030	0.000027	0.000033
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

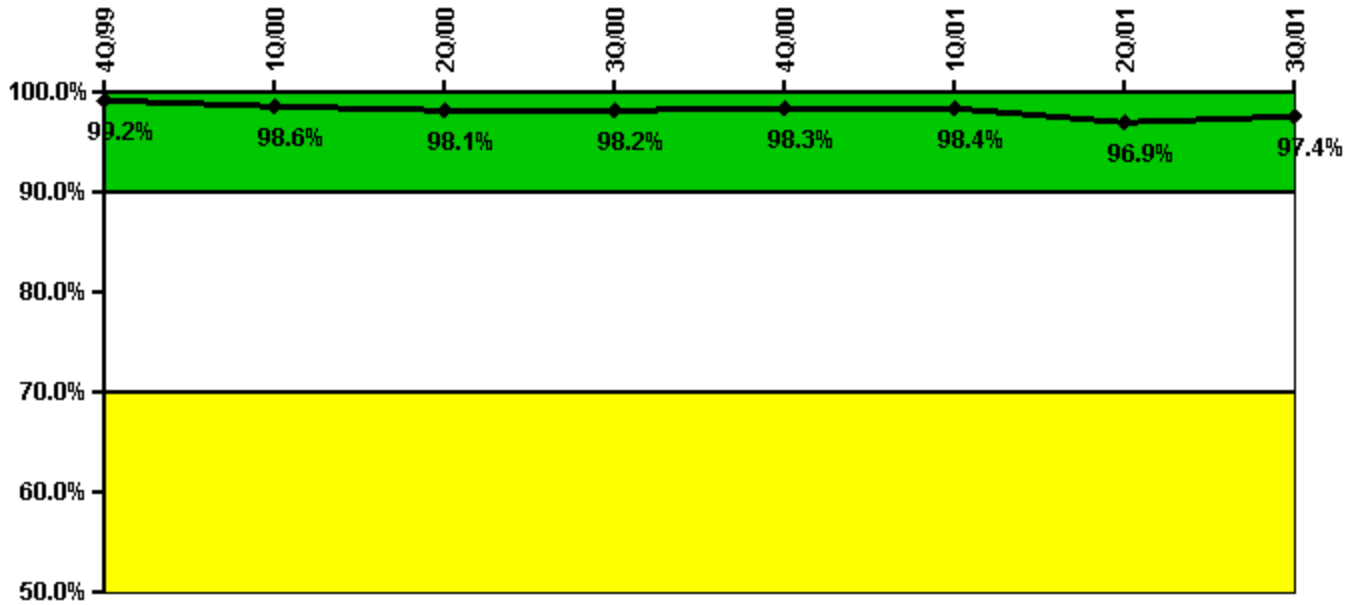
Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	2.580	N/A	3.160	2.390	2.370	2.390	2.460	2.510	2.700	2.490	2.530	2.460
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.6	N/A	10.5	8.0	7.9	8.0	8.2	8.4	9.0	8.3	8.4	8.2

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	2.560	2.550	2.550	2.570	3.700	4.470	4.430	2.380	2.280	2.440	3.440	2.220
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.5	8.5	8.5	8.6	12.3	14.9	14.8	7.9	7.6	8.1	11.5	7.4

Licensee Comments: none

### Drill/Exercise Performance



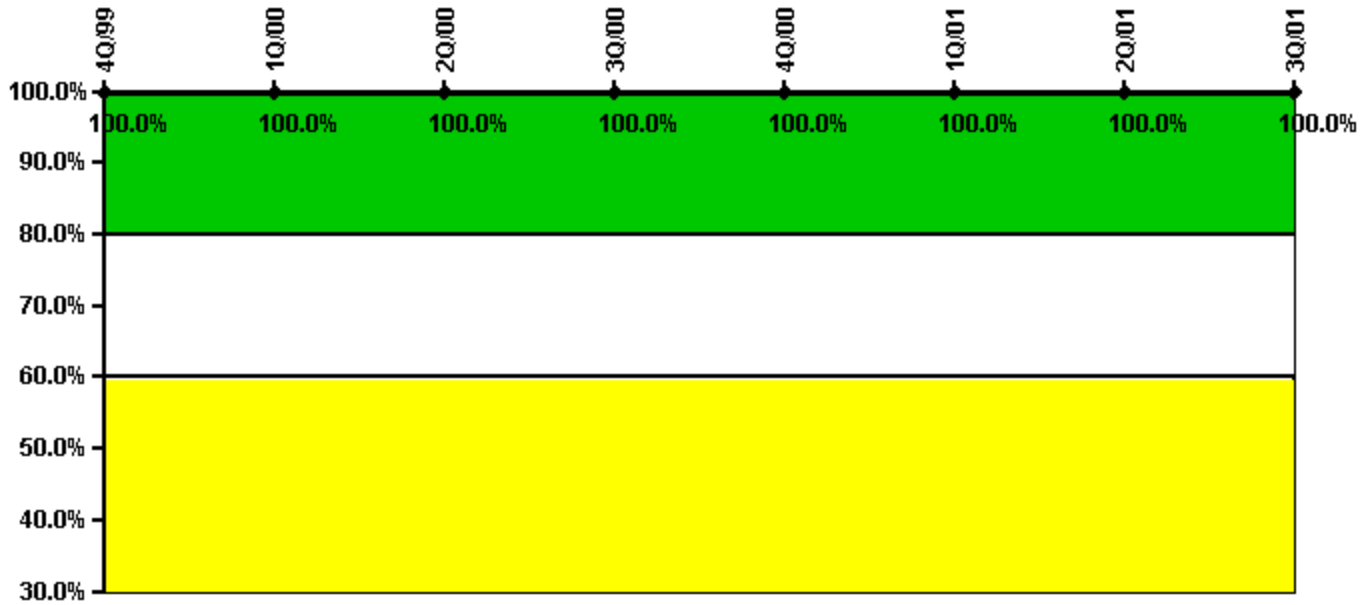
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful opportunities	11.0	32.0	70.0	24.0	34.0	30.0	20.0	39.0
Total opportunities	11.0	33.0	72.0	24.0	34.0	30.0	24.0	39.0
Indicator value	99.2%	98.6%	98.1%	98.2%	98.3%	98.4%	96.9%	97.4%

Licensee Comments: none

### ERO Drill Participation



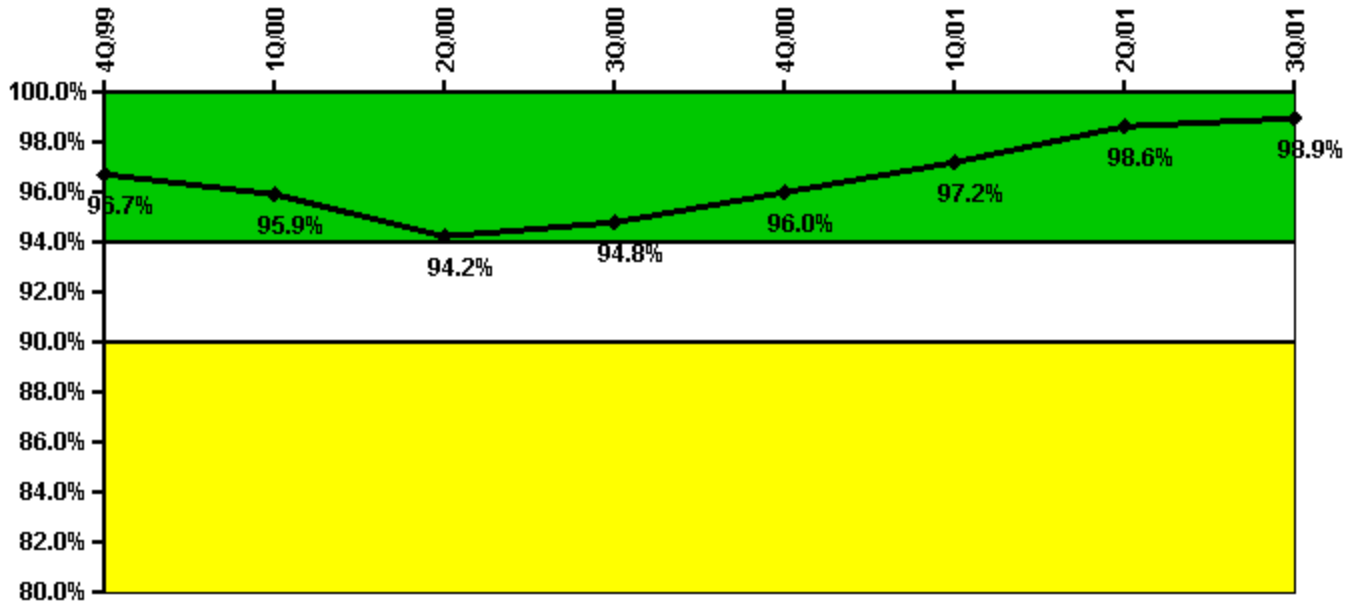
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Participating Key personnel	55.0	63.0	61.0	63.0	79.0	83.0	85.0	88.0
Total Key personnel	55.0	63.0	61.0	63.0	79.0	83.0	85.0	88.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



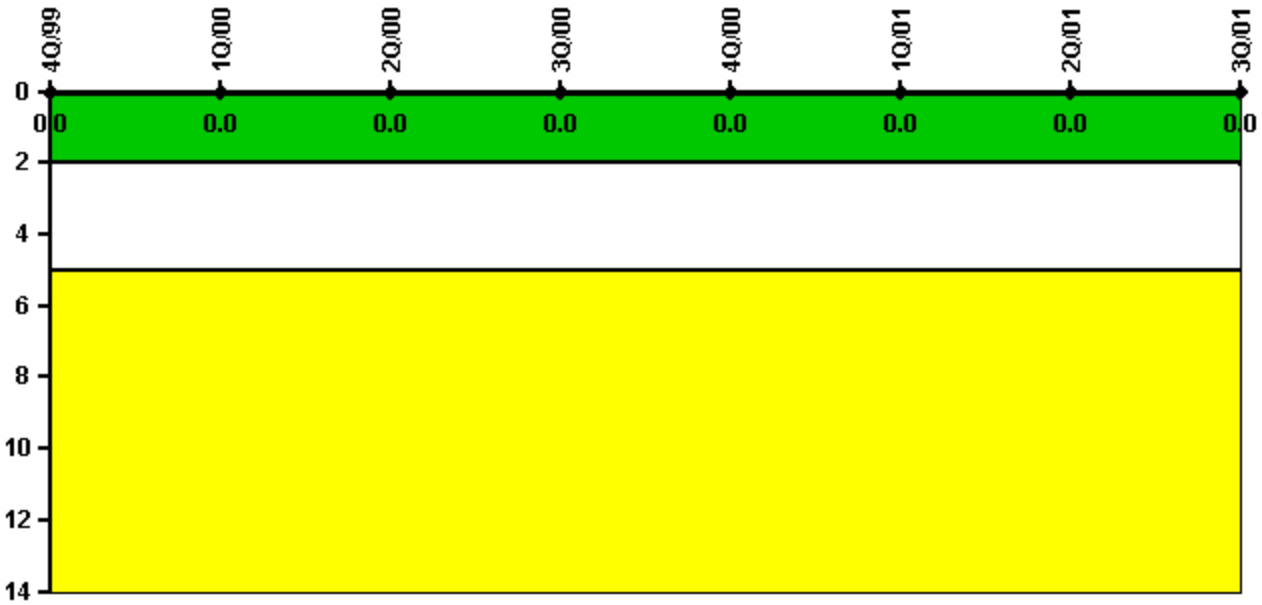
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful siren-tests	123	122	117	168	212	255	128	128
Total sirens-tests	129	129	129	172	215	258	129	129
Indicator value	96.7%	95.9%	94.2%	94.8%	96.0%	97.2%	98.6%	98.9%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



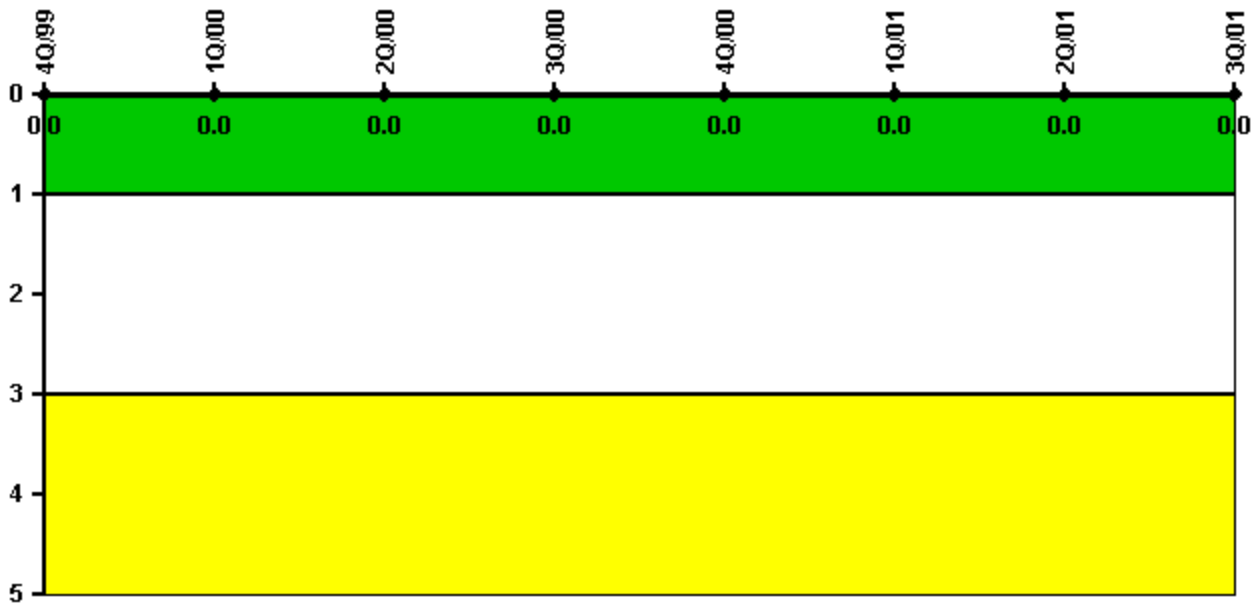
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
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



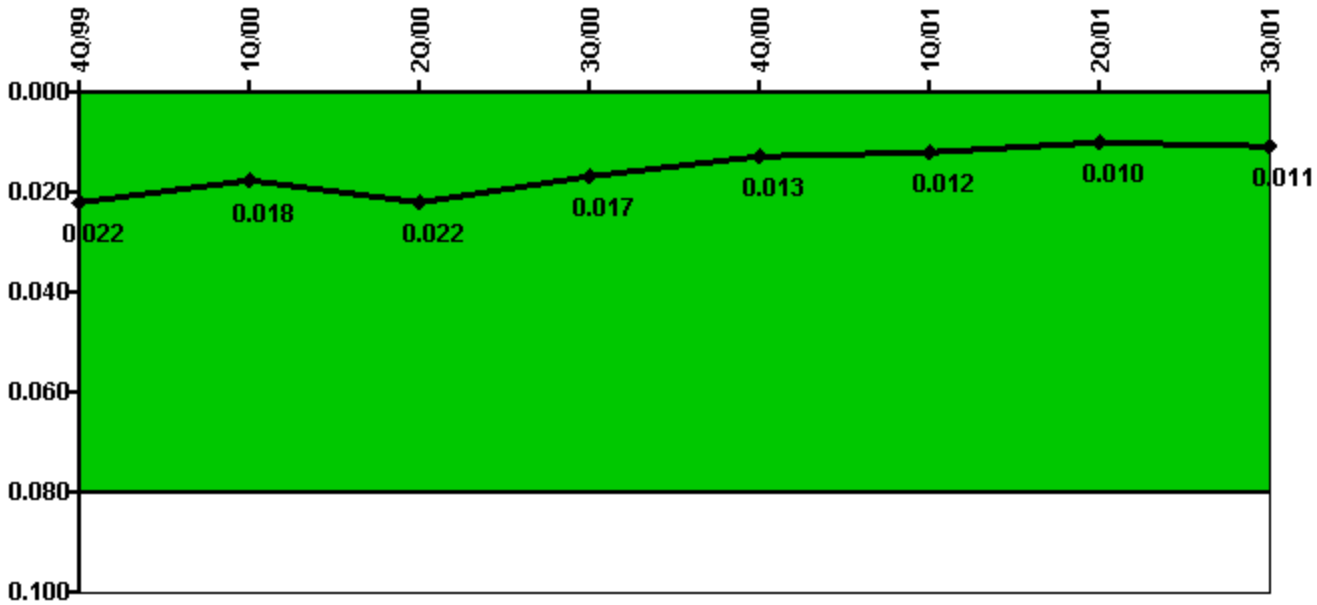
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



Thresholds: White > 0.080

#### Notes

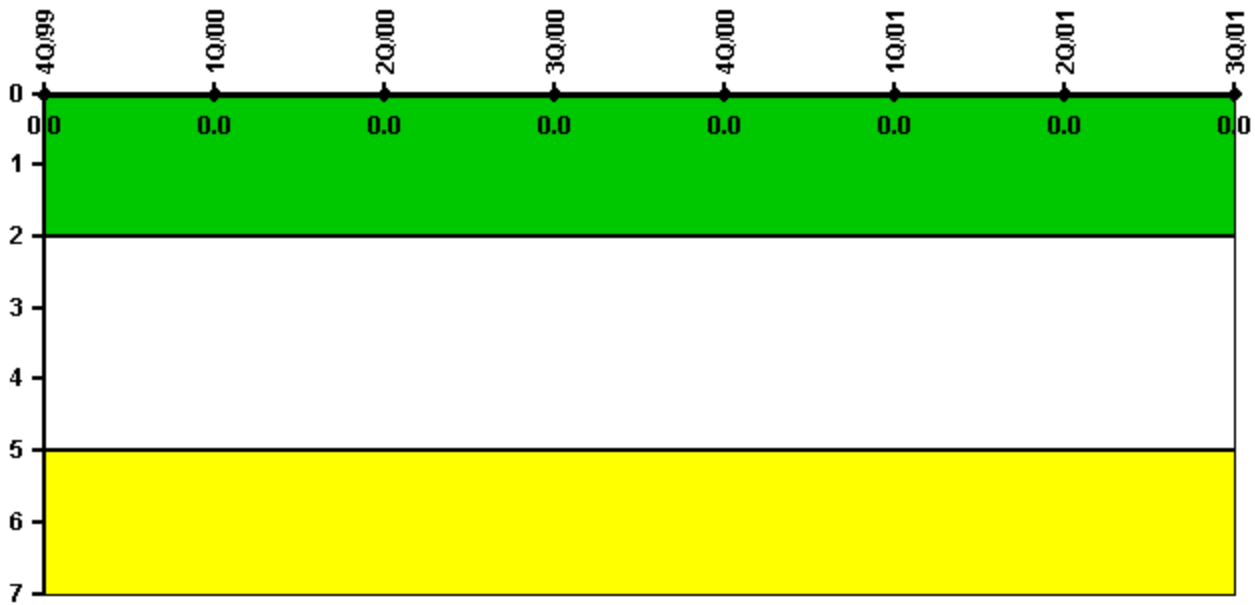
Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
IDS compensatory hours	93.01	74.70	168.60	96.90	6.90	50.50	118.50	10.50
CCTV compensatory hours	20.4	5.6	1.3	6.2	1.2	4.7	0	65.2
IDS normalization factor	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.50
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0
<b>Index Value</b>	<b>0.022</b>	<b>0.018</b>	<b>0.022</b>	<b>0.017</b>	<b>0.013</b>	<b>0.012</b>	<b>0.010</b>	<b>0.011</b>

Licensee Comments:

3Q/01: The new normalization factor of 1.5 for IDS and 1 for CCTV reflect the changes due to the completion of the north perimeter upgrade.



### Personnel Screening Program



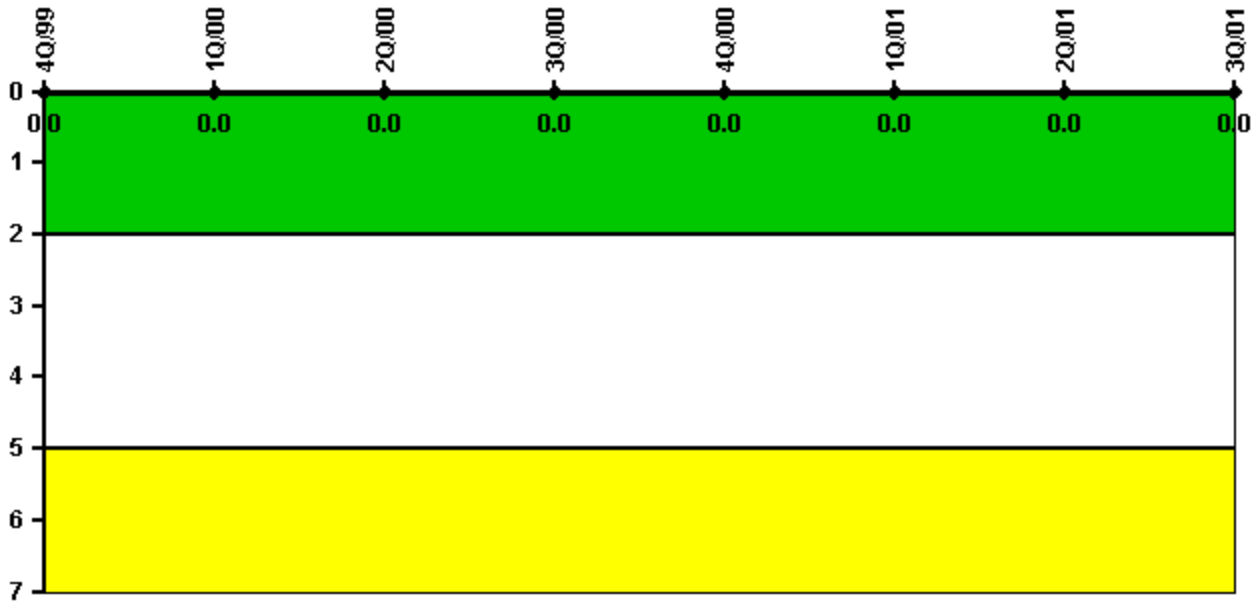
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Program failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

Last Modified: March 26, 2002

### Grand Gulf 1

#### 4Q/2001 Performance Indicators

Licensee's General Comments: none

#### Unplanned Scrams per 7000 Critical Hrs



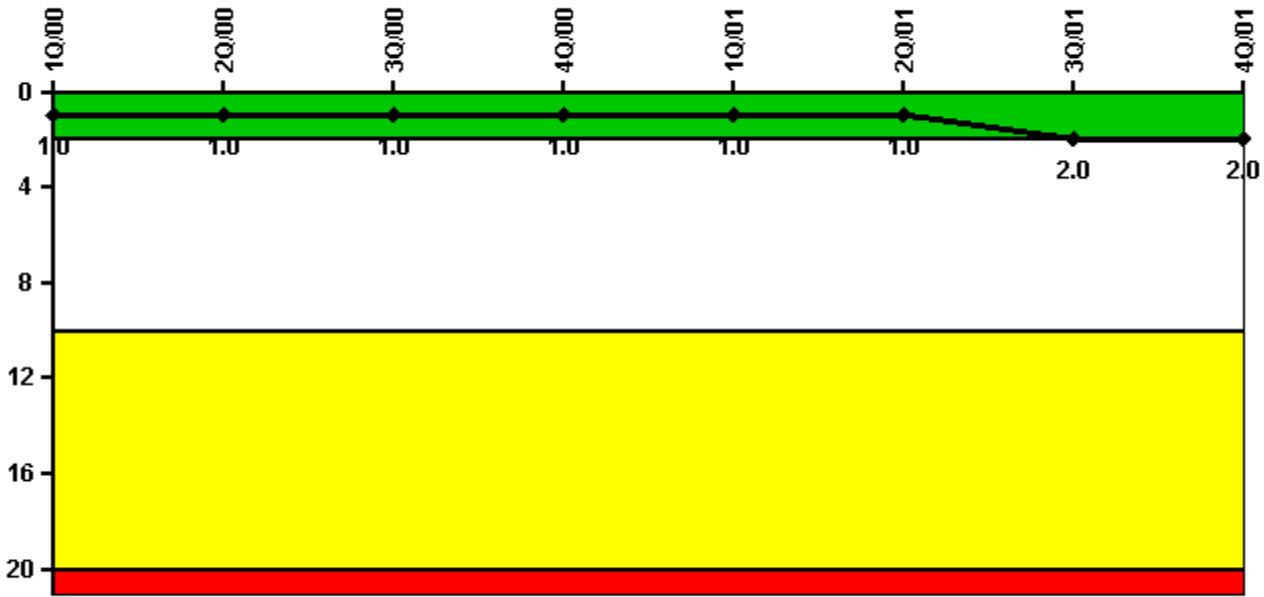
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

#### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	0	0	1.0	0	0	0	1.0	0
Critical hours	2184.0	2183.0	2155.3	2209.0	2160.0	1695.3	2083.6	2209.0
Indicator value	0	0	0.9	0.8	0.8	0.9	0.9	0.9

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



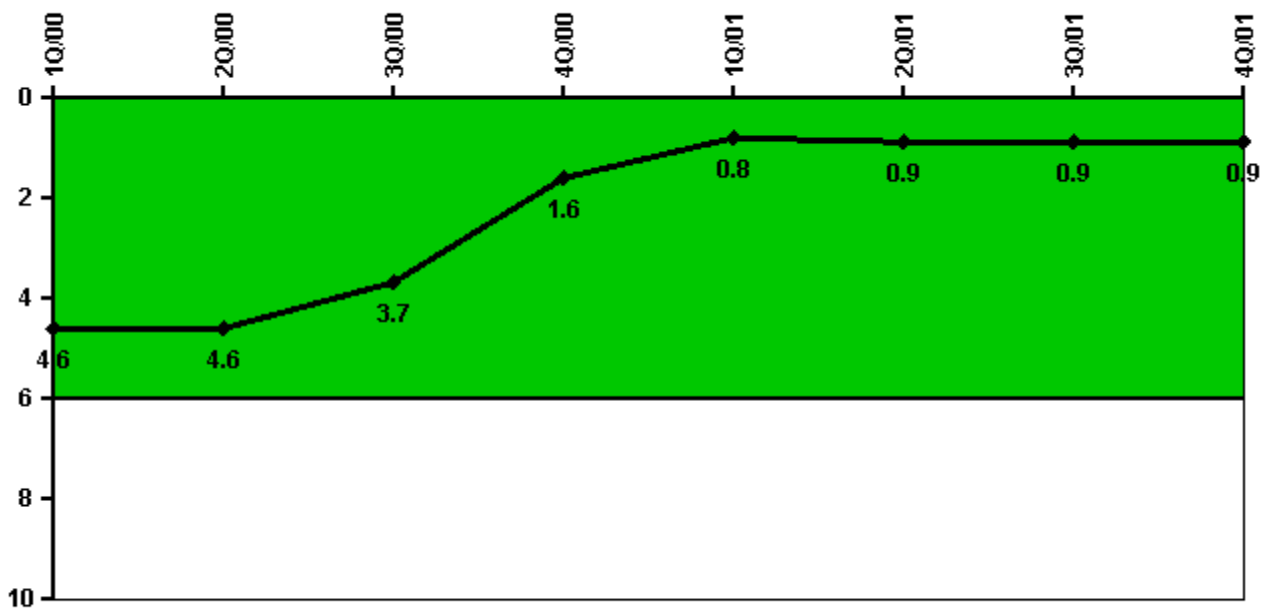
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

### Notes

Scrams with Loss of Normal Heat Removal	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Scrams	0	0	0	0	0	0	1.0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



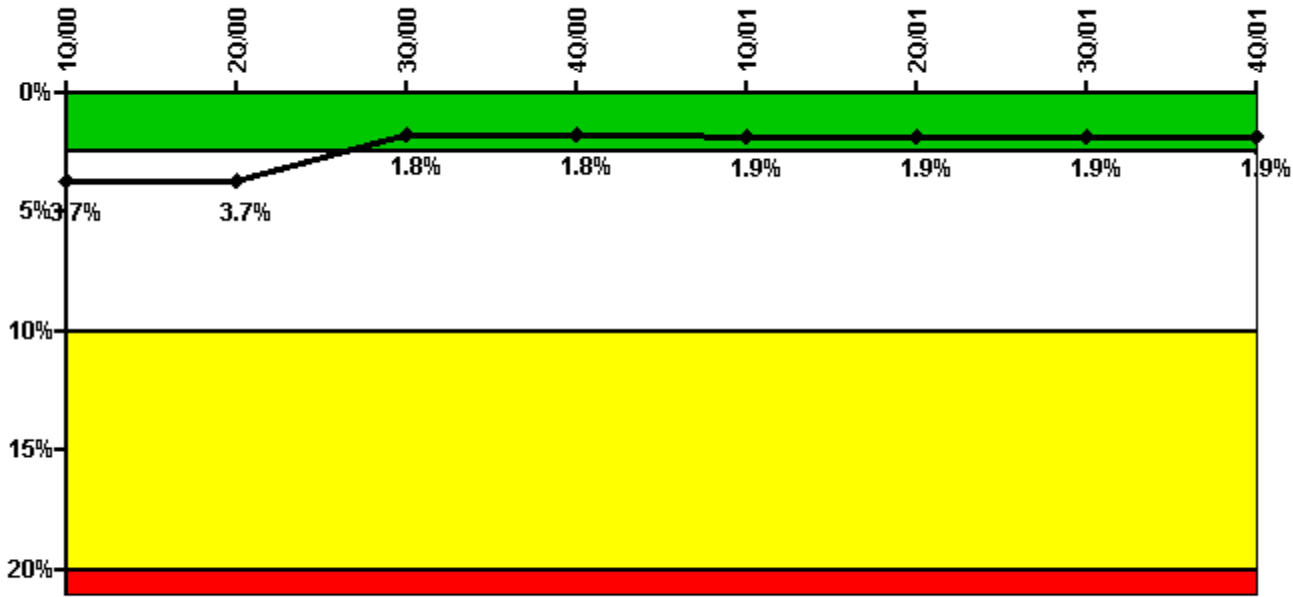
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	2.0	0	0	0	1.0	0	0	0
Critical hours	2184.0	2183.0	2155.3	2209.0	2160.0	1695.3	2083.6	2209.0
Indicator value	4.6	4.6	3.7	1.6	0.8	0.9	0.9	0.9

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
<b>Train 1</b>								
Planned unavailable hours	37.61	43.90	12.82	3.22	39.52	4.29	33.44	3.29
Unplanned unavailable hours	0	0	0	0	40.25	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	49.58	35.67	21.93	3.91	26.95	1.67	8.28	2.68
Unplanned unavailable hours	0	0	0	0	13.16	4.20	0	1.67
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 3</b>								
Planned unavailable hours	39.97	23.82	73.05	3.92	4.17	2.81	3.23	2.73
Unplanned unavailable hours	0	9.53	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	1444.80	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>3.7%</b>	<b>3.7%</b>	<b>1.8%</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>

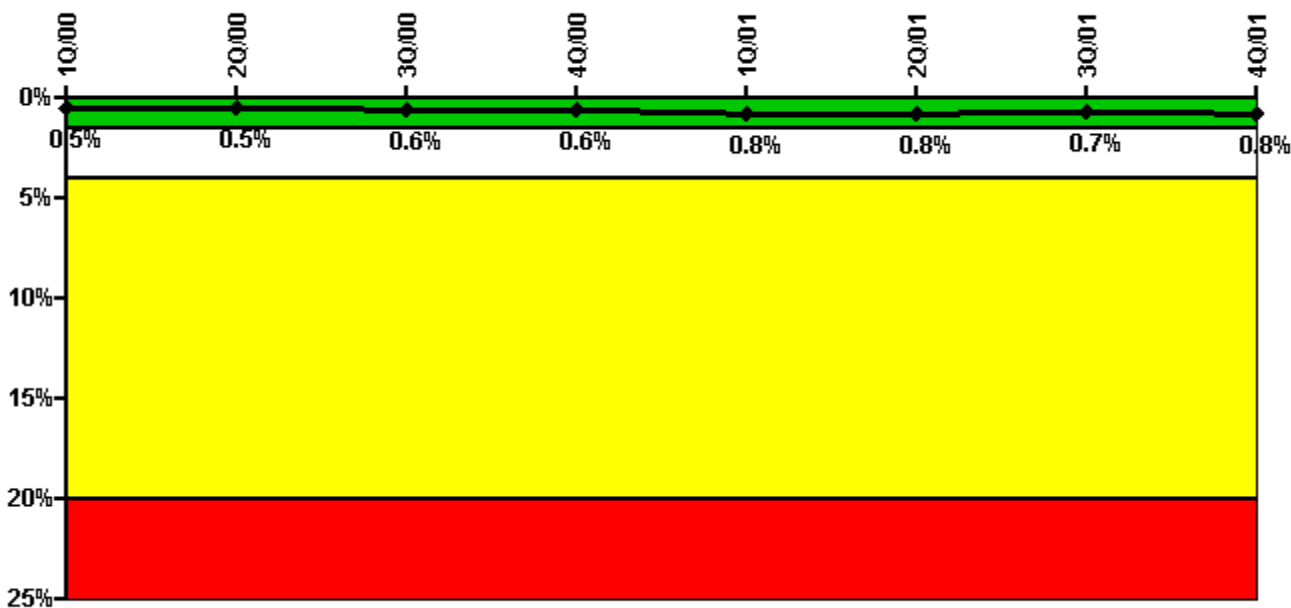
Licensee Comments:

3Q/99: Emergency AC Power System Train 3 fault exposure hours (1444.8) for 3rd qtr 1999 were removed (reset) which changes the indicator from white to green.

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process

### Safety System Unavailability, High Pressure Injection System (HPCS)



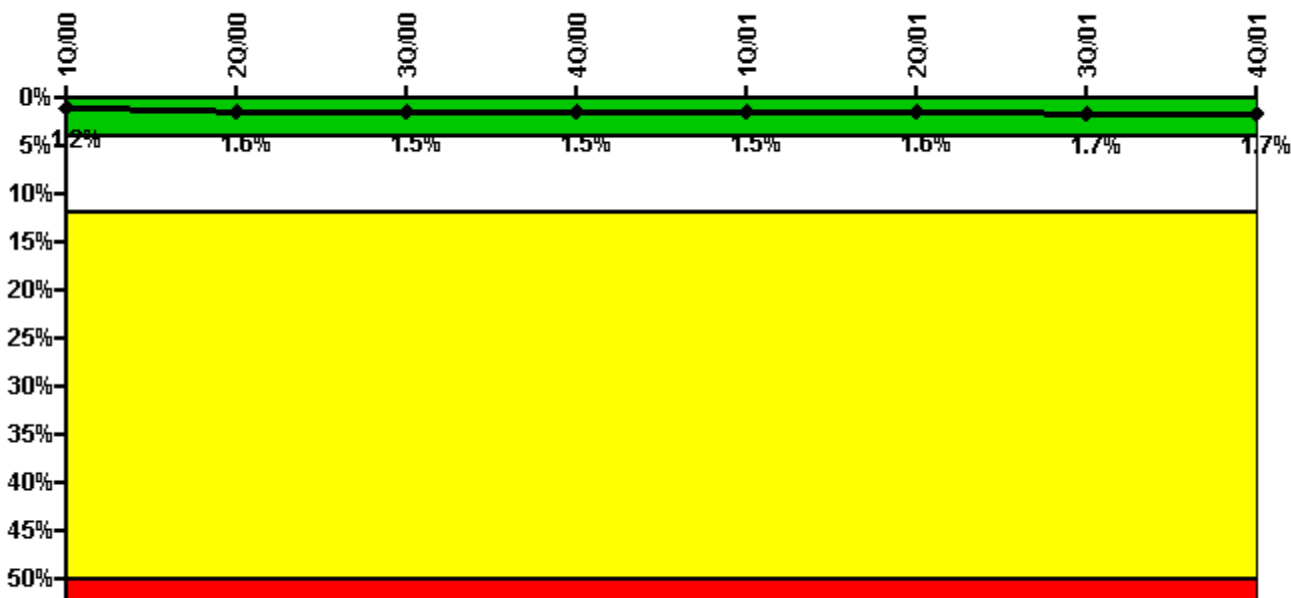
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
<b>Train 1</b>								
Planned unavailable hours	43.78	11.58	15.94	2.91	65.85	2.69	1.86	23.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	1695.30	2083.60	2209.00
<b>Indicator value</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

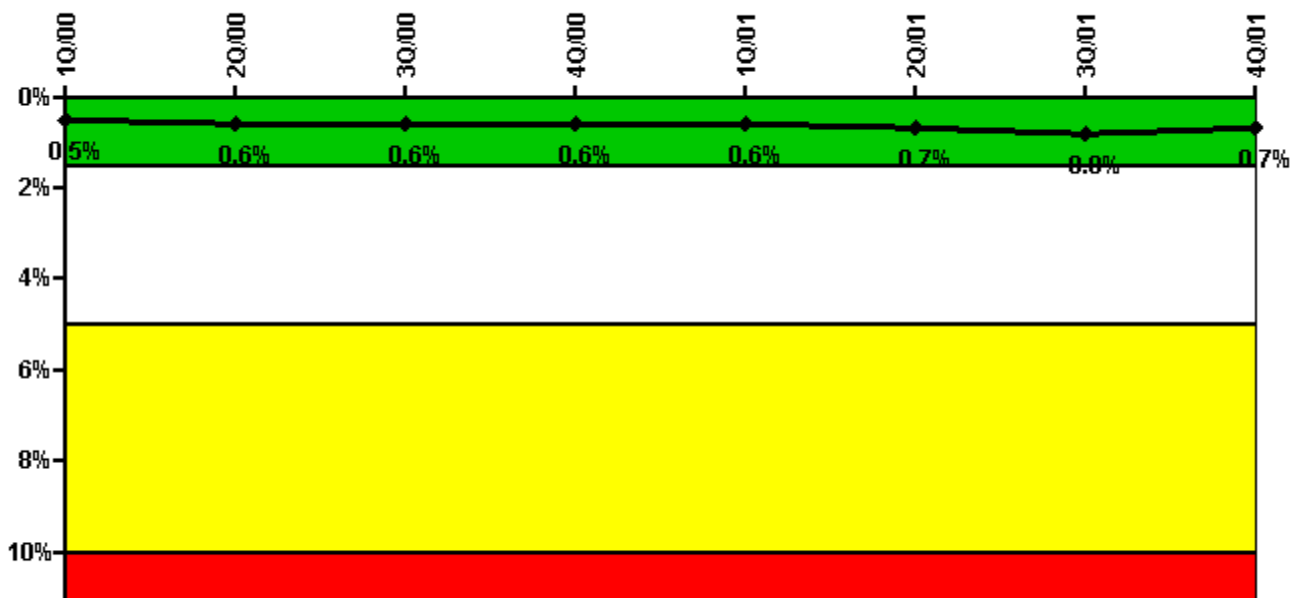
#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
<b>Train 1</b>								
Planned unavailable hours	27.23	76.73	5.70	81.77	22.01	30.75	6.59	26.98
Unplanned unavailable hours	0	0	0.67	0.07	0	5.10	8.00	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	1695.30	2083.60	2209.00
<b>Indicator value</b>	<b>1.2%</b>	<b>1.6%</b>	<b>1.5%</b>	<b>1.5%</b>	<b>1.5%</b>	<b>1.6%</b>	<b>1.7%</b>	<b>1.7%</b>

Licensee Comments: none



### Safety System Unavailability, Residual Heat Removal System



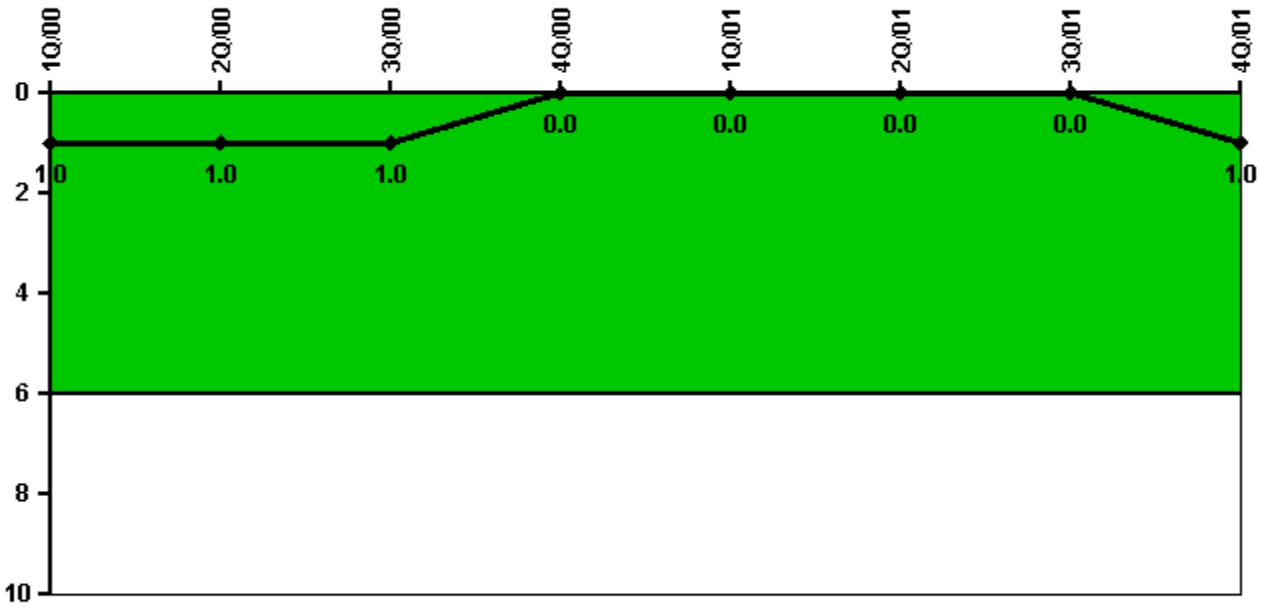
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
<b>Train 1</b>								
Planned unavailable hours	44.88	16.32	14.27	4.40	25.73	3.91	24.55	3.73
Unplanned unavailable hours	0	0	1.40	0	0	25.86	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	18.93	49.67	8.35	13.54	26.62	2.30	26.05	2.43
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



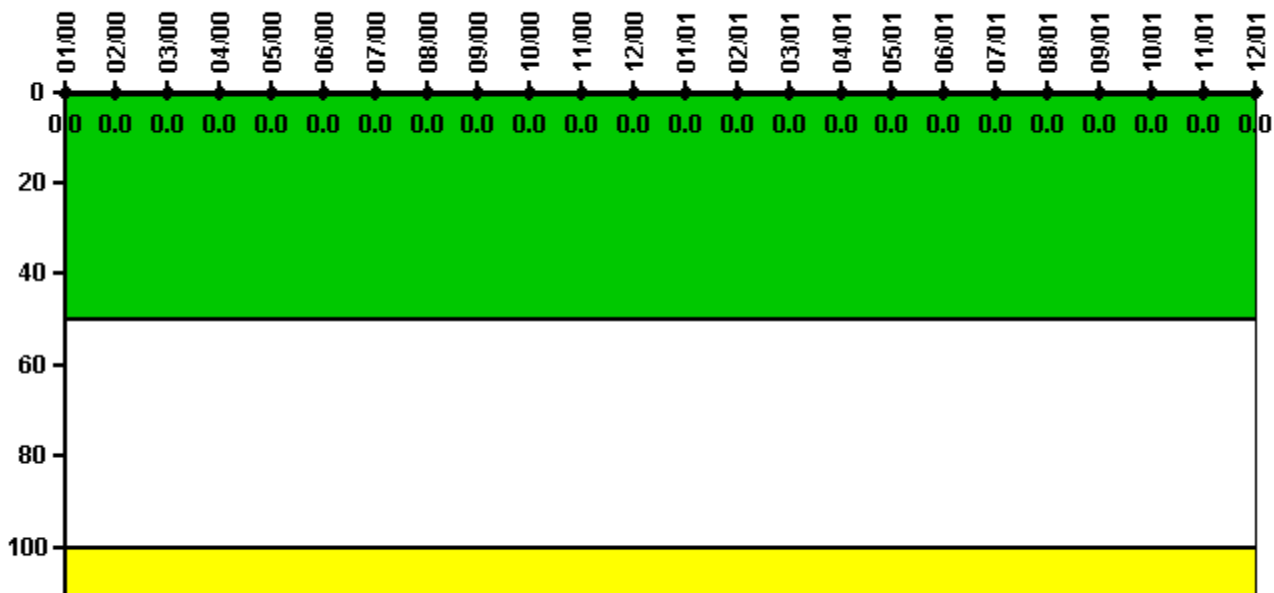
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Safety System Functional Failures	0	0	0	0	0	0	0	1
Indicator value	1	1	1	0	0	0	0	1

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

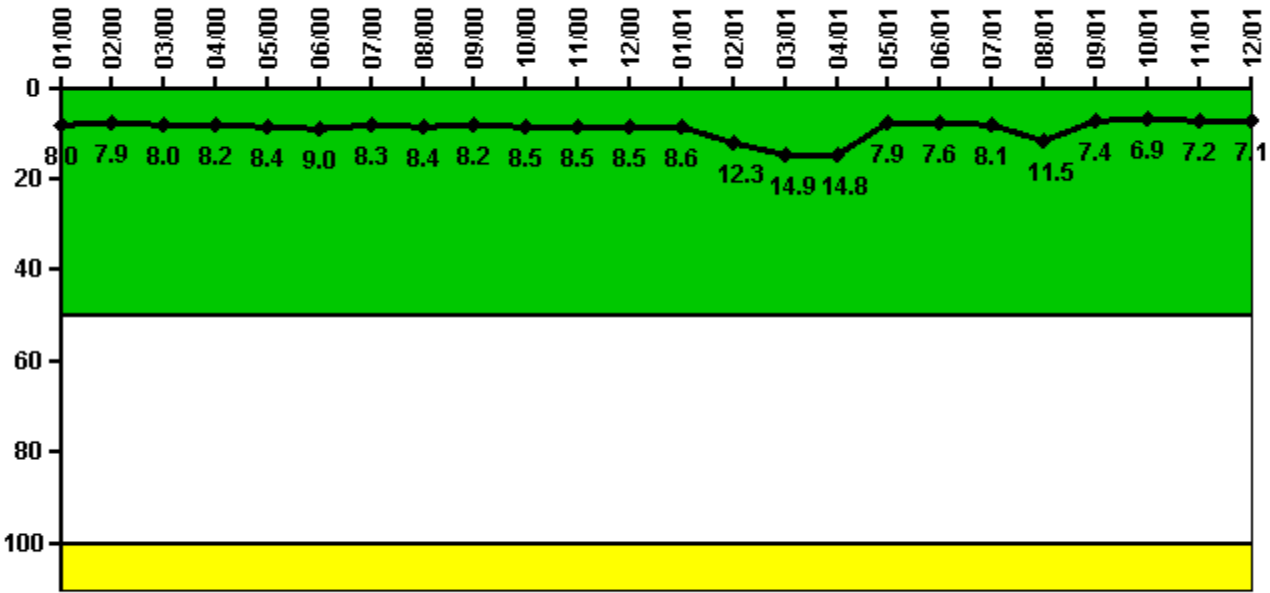
Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.000051	0.000039	0.000050	0.000042	0.000051	0.000045	0.000045	0.000050	0.000046	0.000044	0.000053	0.000042
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000053	0.000043	0.000042	0.000057	0.000030	0.000036	0.000030	0.000027	0.000033	0.000034	0.000026	0.000030
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

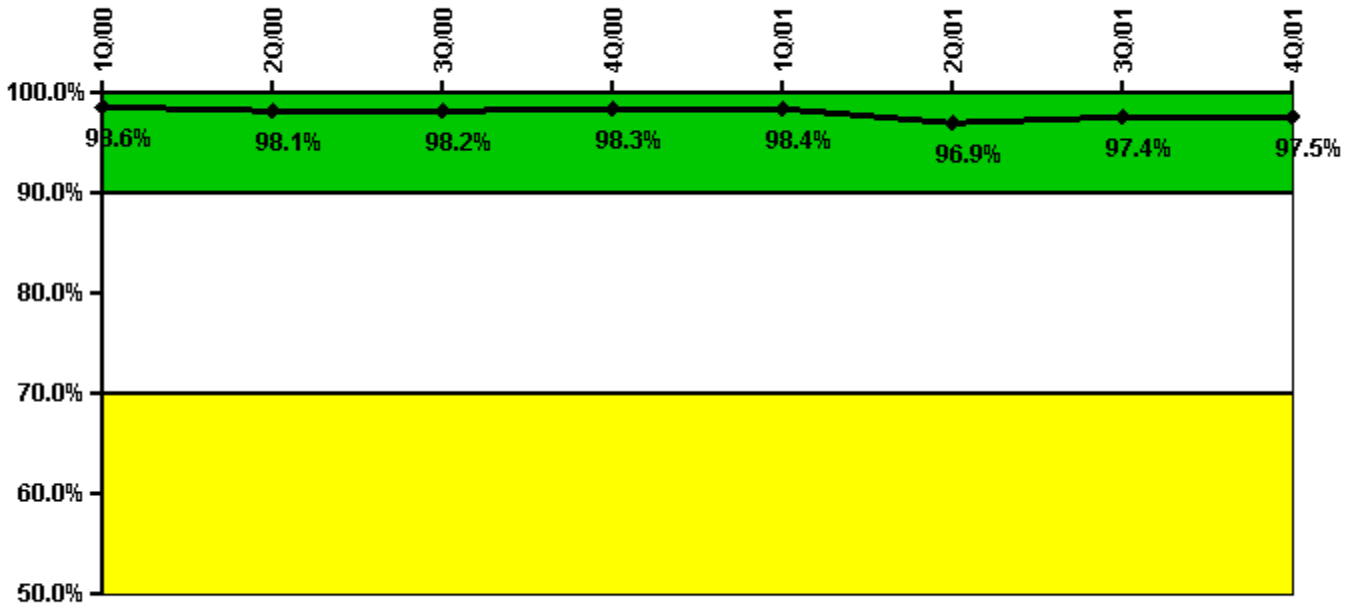
Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	2.390	2.370	2.390	2.460	2.510	2.700	2.490	2.530	2.460	2.560	2.550	2.550
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.0	7.9	8.0	8.2	8.4	9.0	8.3	8.4	8.2	8.5	8.5	8.5

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	2.570	3.700	4.470	4.430	2.380	2.280	2.440	3.440	2.220	2.080	2.150	2.140
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.6	12.3	14.9	14.8	7.9	7.6	8.1	11.5	7.4	6.9	7.2	7.1

Licensee Comments: none

### Drill/Exercise Performance



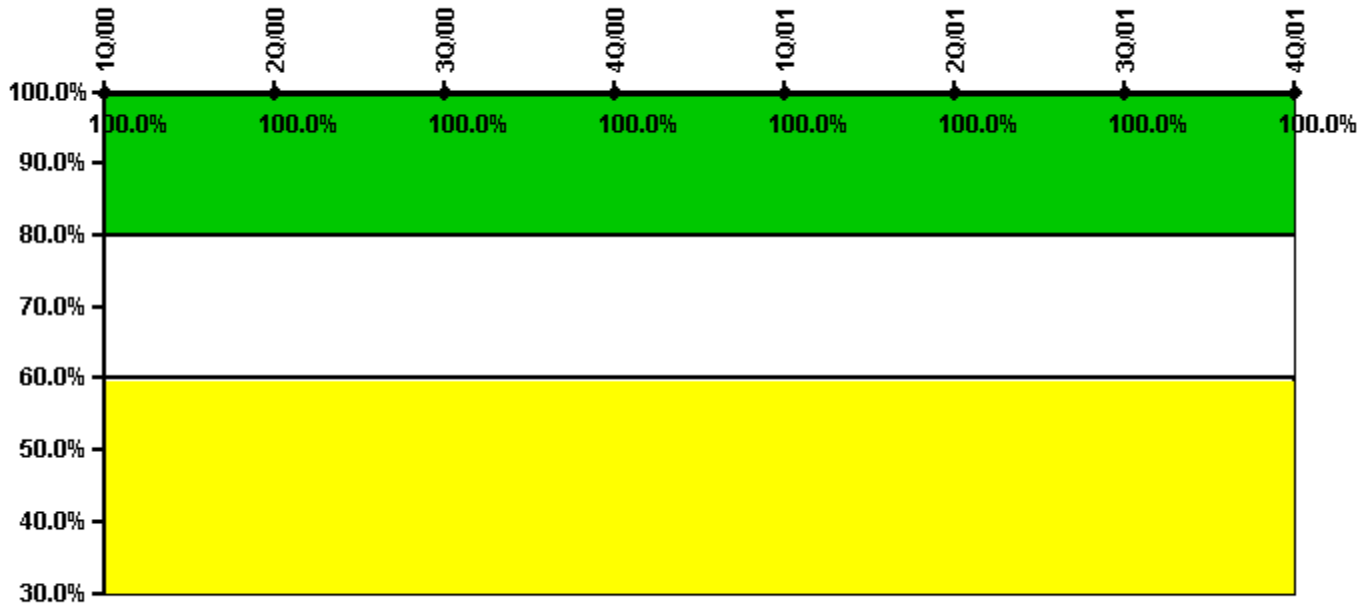
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	32.0	70.0	24.0	34.0	30.0	20.0	39.0	28.0
Total opportunities	33.0	72.0	24.0	34.0	30.0	24.0	39.0	28.0
Indicator value	98.6%	98.1%	98.2%	98.3%	98.4%	96.9%	97.4%	97.5%

Licensee Comments: none

### ERO Drill Participation



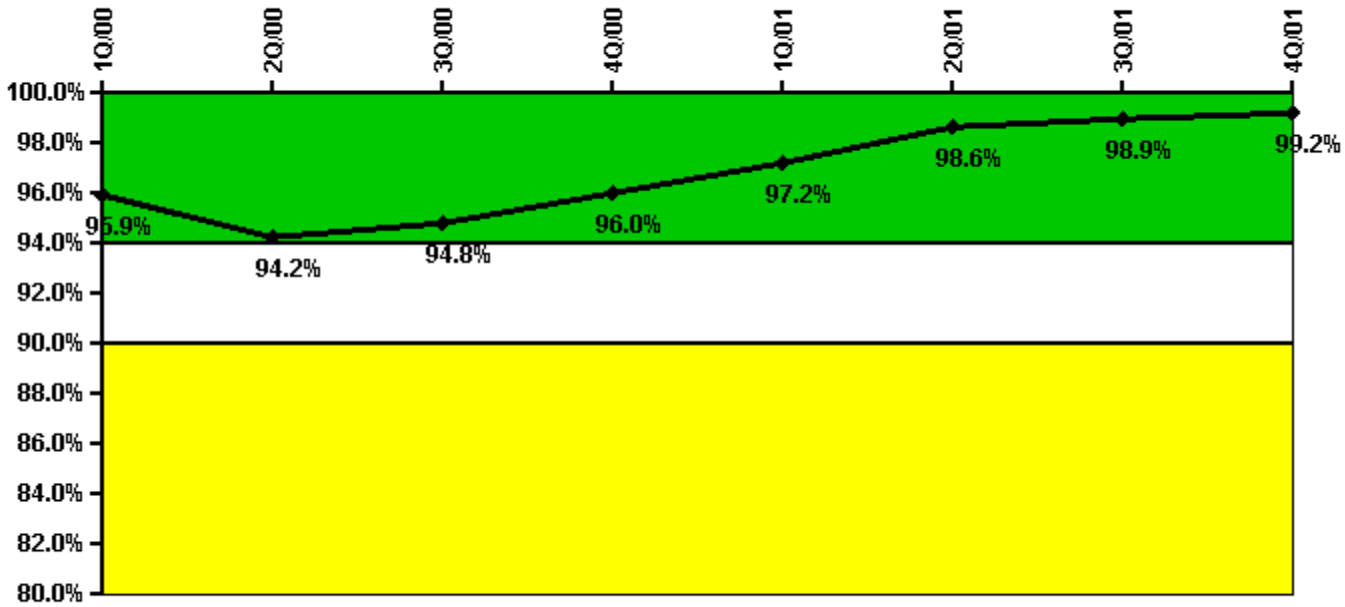
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	63.0	61.0	63.0	79.0	83.0	85.0	88.0	92.0
Total Key personnel	63.0	61.0	63.0	79.0	83.0	85.0	88.0	92.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



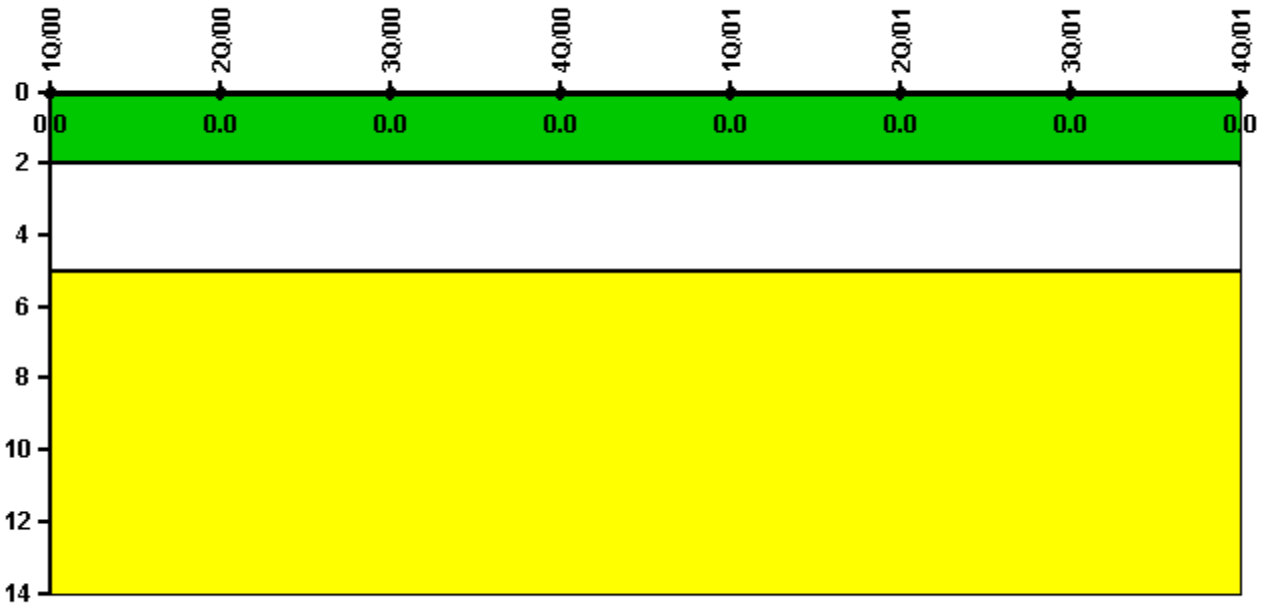
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful siren-tests	122	117	168	212	255	128	128	129
Total sirens-tests	129	129	172	215	258	129	129	129
Indicator value	95.9%	94.2%	94.8%	96.0%	97.2%	98.6%	98.9%	99.2%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

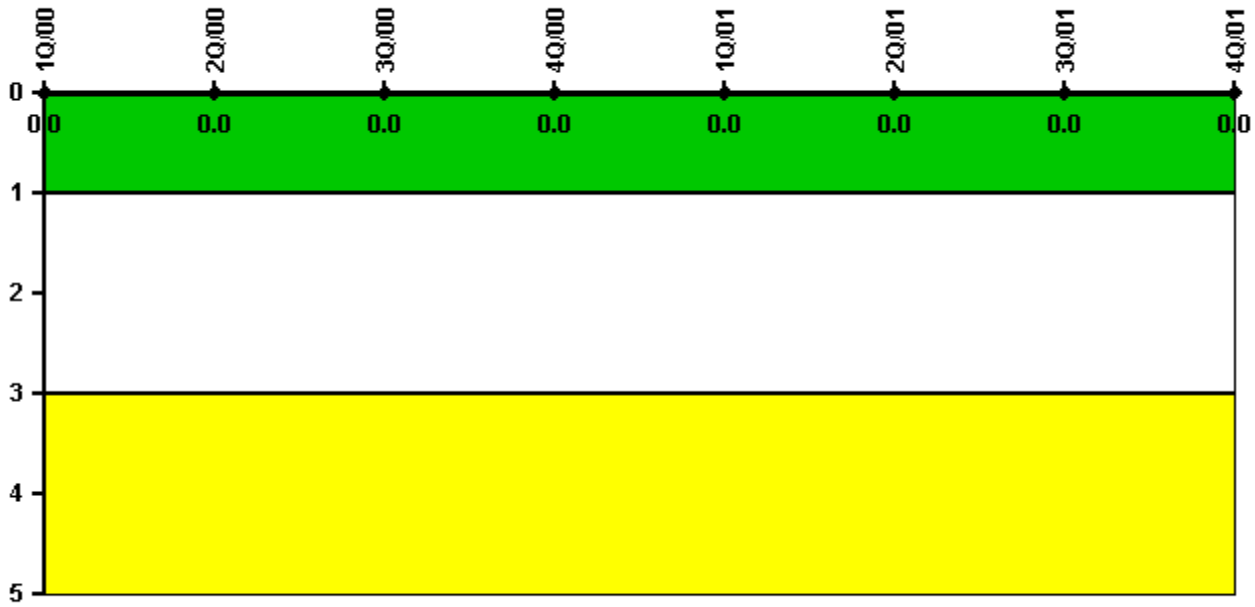
#### Notes

Occupational Exposure Control Effectiveness	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
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



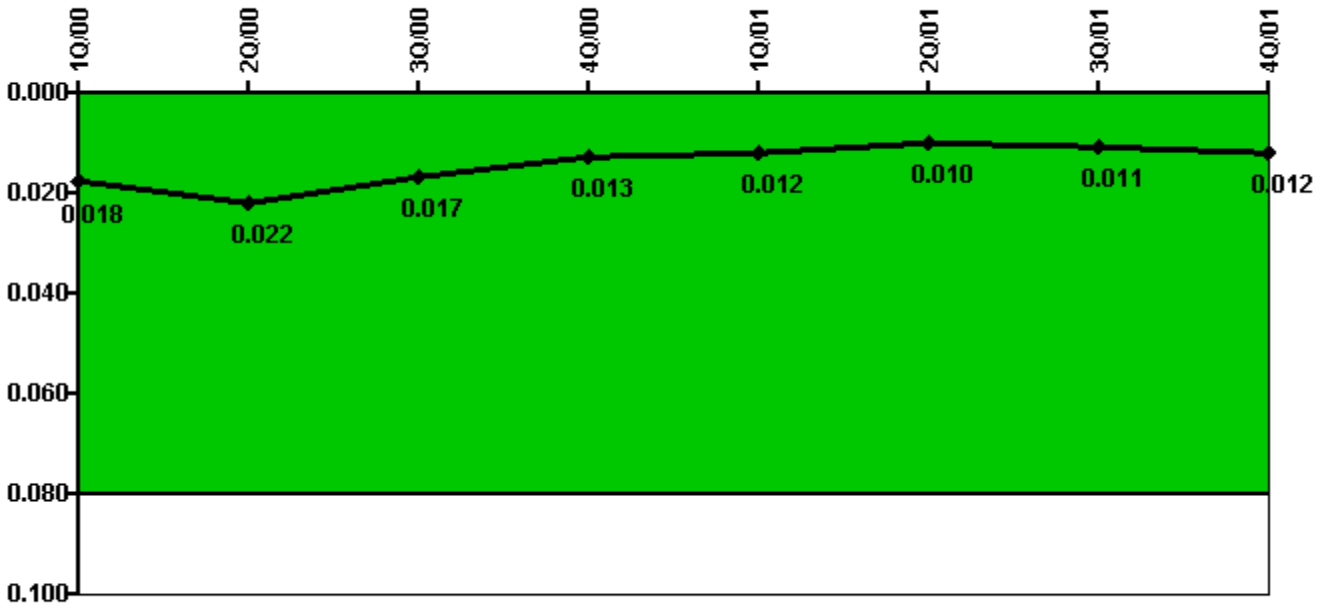
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



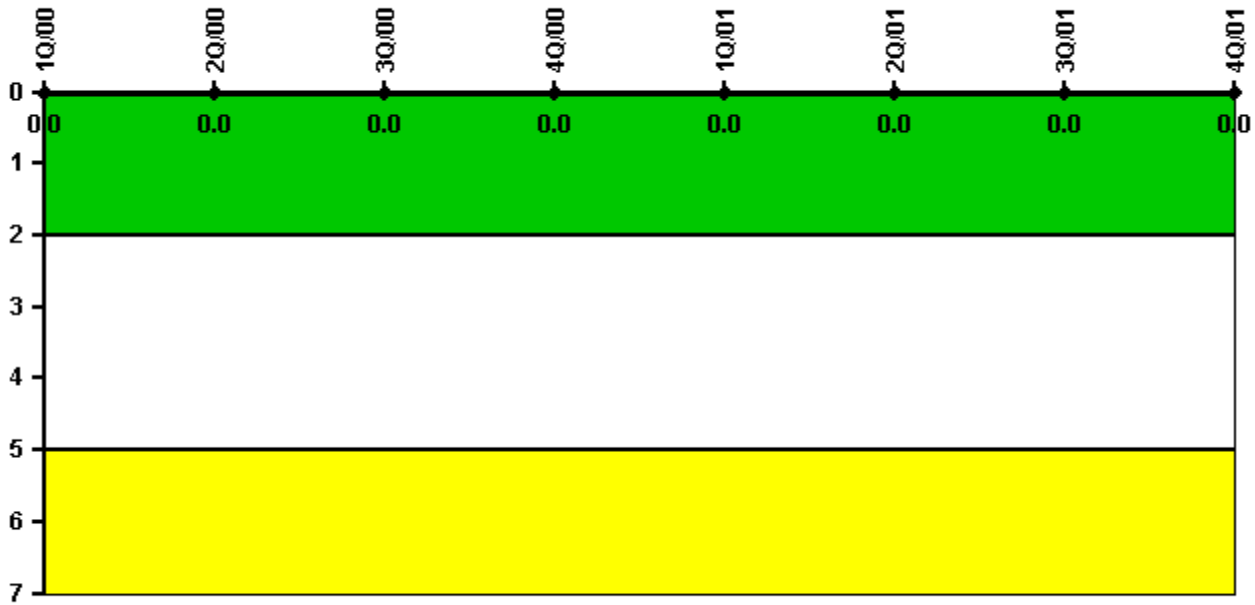
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
IDS compensatory hours	74.70	168.60	96.90	6.90	50.50	118.50	10.50	22.70
CCTV compensatory hours	5.6	1.3	6.2	1.2	4.7	0	65.2	1.3
IDS normalization factor	1.60	1.60	1.60	1.60	1.60	1.60	1.50	1.50
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0
<b>Index Value</b>	<b>0.018</b>	<b>0.022</b>	<b>0.017</b>	<b>0.013</b>	<b>0.012</b>	<b>0.010</b>	<b>0.011</b>	<b>0.012</b>

Licensee Comments: none

### Personnel Screening Program



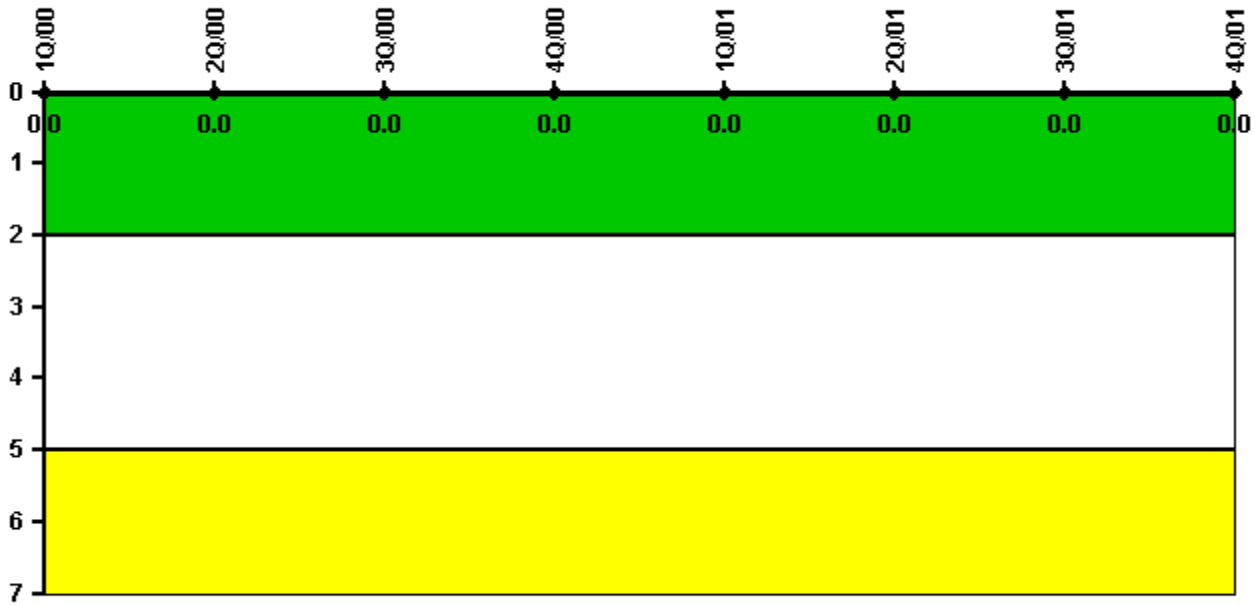
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Program failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

### Notes

FFD/Personnel Reliability	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

Last Modified: March 15, 2002

# Grand Gulf 1

## 1Q/2002 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



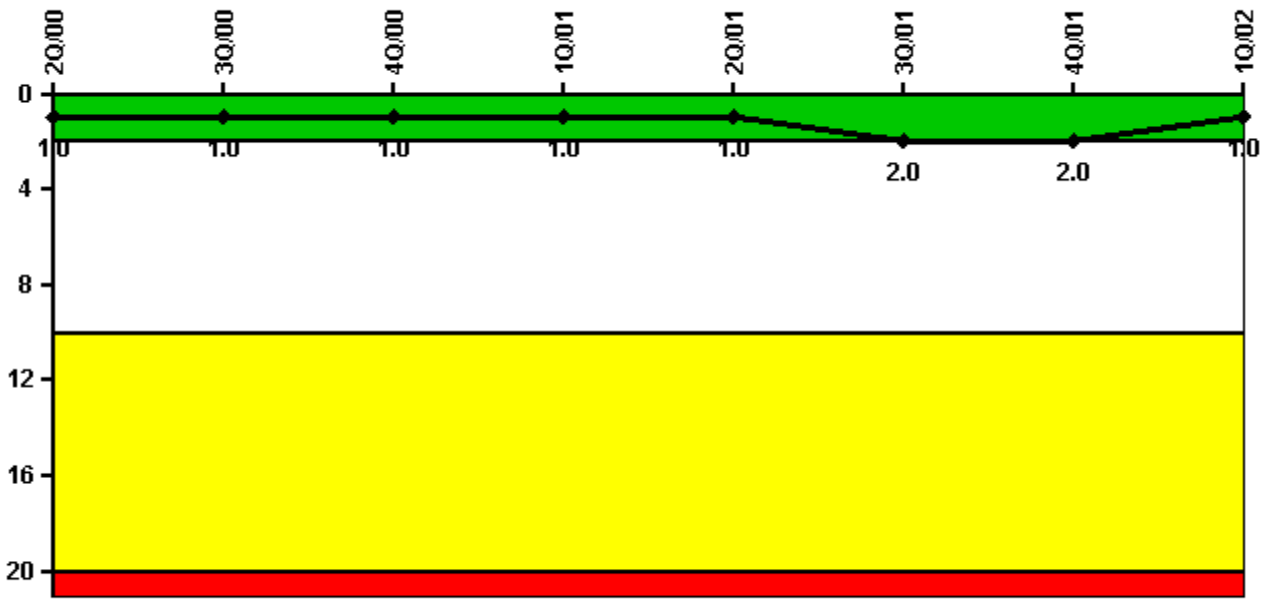
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	0	1.0	0	0	0	1.0	0	0
Critical hours	2183.0	2155.3	2209.0	2160.0	1695.3	2083.6	2209.0	2160.0
<b>Indicator value</b>	<b>0</b>	<b>0.9</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



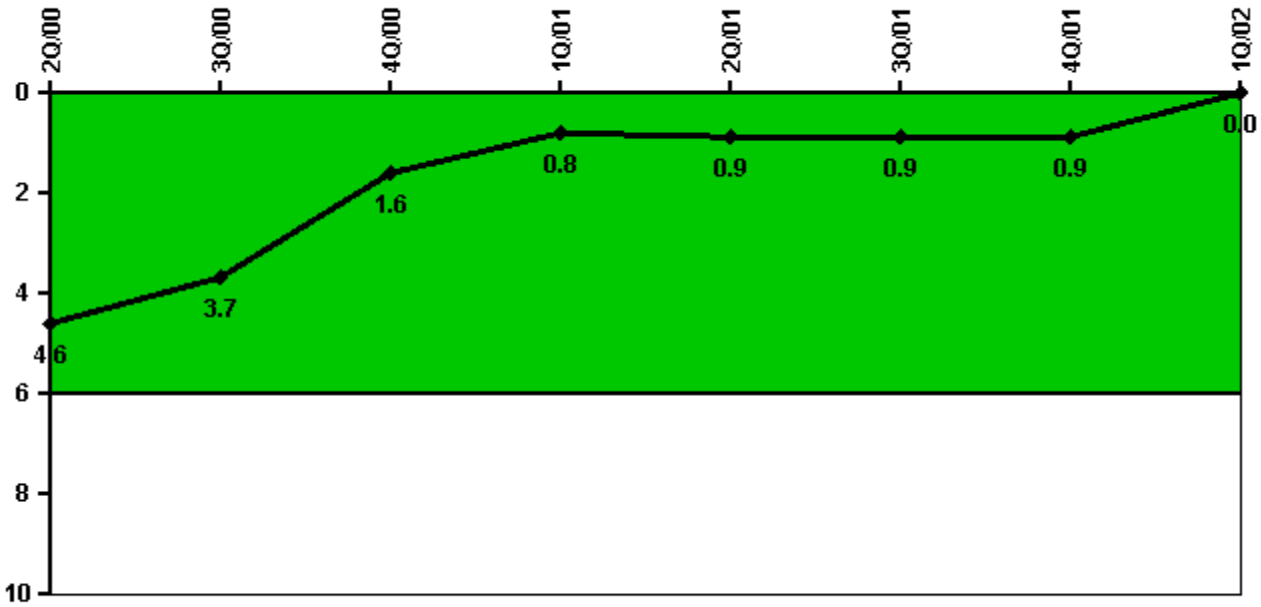
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Scrams	0	0	0	0	0	1.0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



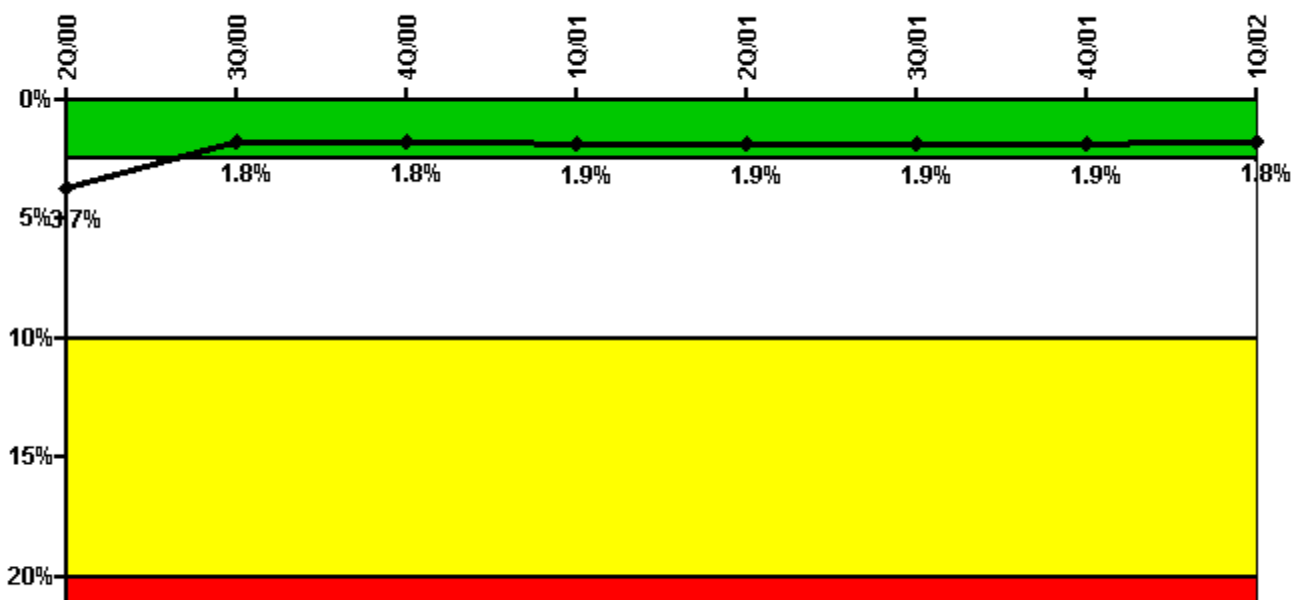
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2155.3	2209.0	2160.0	1695.3	2083.6	2209.0	2160.0
<b>Indicator value</b>	<b>4.6</b>	<b>3.7</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

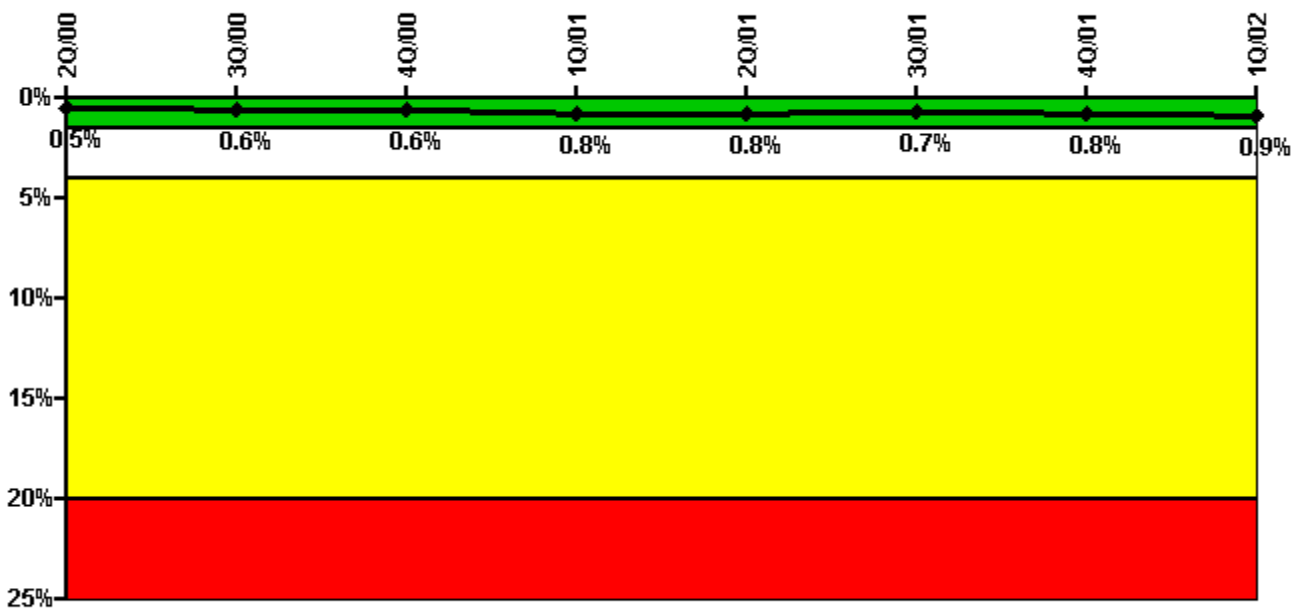
Safety System Unavailability, Emergency AC Power, >2EDG	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	43.90	12.82	3.22	39.52	4.29	33.44	3.29	4.86
Unplanned unavailable hours	0	0	0	40.25	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	35.67	21.93	3.91	26.95	1.67	8.28	2.68	79.24
Unplanned unavailable hours	0	0	0	13.16	4.20	0	1.67	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Train 3</b>								
Planned unavailable hours	23.82	73.05	3.92	4.17	2.81	3.23	2.73	23.33
Unplanned unavailable hours	9.53	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	1444.80	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>3.7%</b>	<b>1.8%</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.8%</b>

#### Licensee Comments:

1Q/02: A support system online overhaul resulted in 36.37 and 38.5 hours of unavailability. These hours are not reported pending expected approval of a submitted FAQ. There would be no change of color (green to white) if these hours were not exempted.



### Safety System Unavailability, High Pressure Injection System (HPCS)



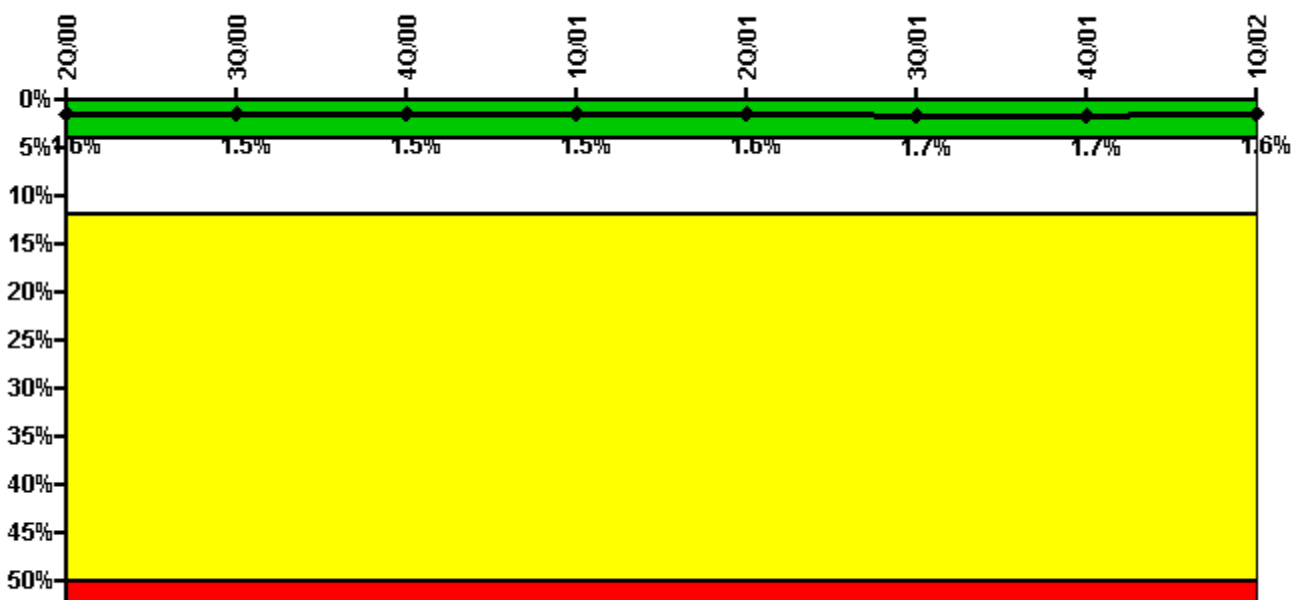
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	11.58	15.94	2.91	65.85	2.69	1.86	23.35	32.88
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1695.30	2083.60	2209.00	2160.00
Indicator value	0.5%	0.6%	0.6%	0.8%	0.8%	0.7%	0.8%	0.9%

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



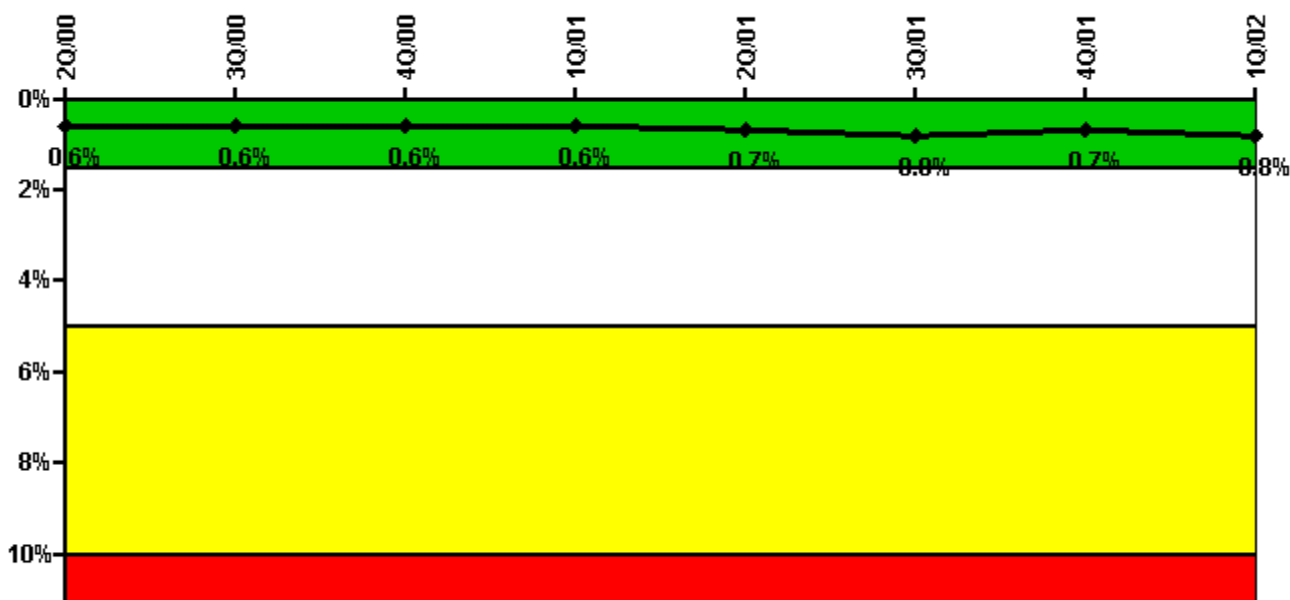
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	76.73	5.70	81.77	22.01	30.75	6.59	26.98	2.84
Unplanned unavailable hours	0	0.67	0.07	0	5.10	8.00	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1695.30	2083.60	2209.00	2160.00
<b>Indicator value</b>	<b>1.6%</b>	<b>1.5%</b>	<b>1.5%</b>	<b>1.5%</b>	<b>1.6%</b>	<b>1.7%</b>	<b>1.7%</b>	<b>1.6%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

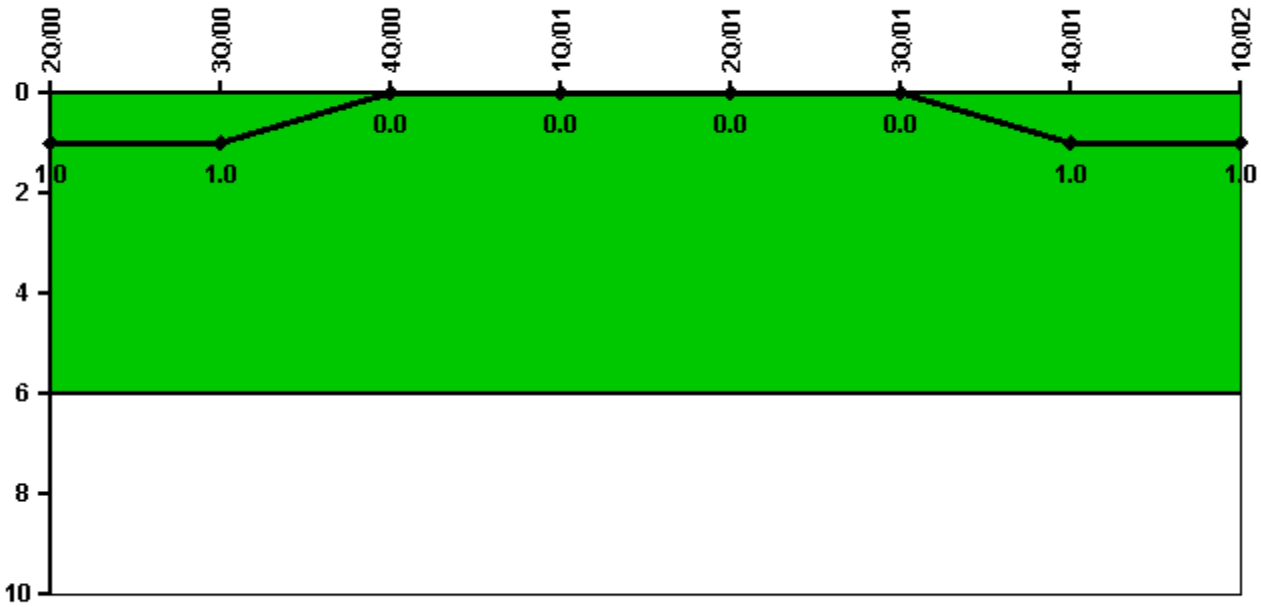
#### Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	16.32	14.27	4.40	25.73	3.91	24.55	3.73	19.05
Unplanned unavailable hours	0	1.40	0	0	25.86	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	49.67	8.35	13.54	26.62	2.30	26.05	2.43	14.17
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>

#### Licensee Comments:

1Q/02: A support system online overhaul resulted in 36.37 and 38.5 hours of unavailability. These hours are not reported pending expected approval of a submitted FAQ. There would be no change of color (green to white) if these hours were not exempted.

### Safety System Functional Failures (BWR)



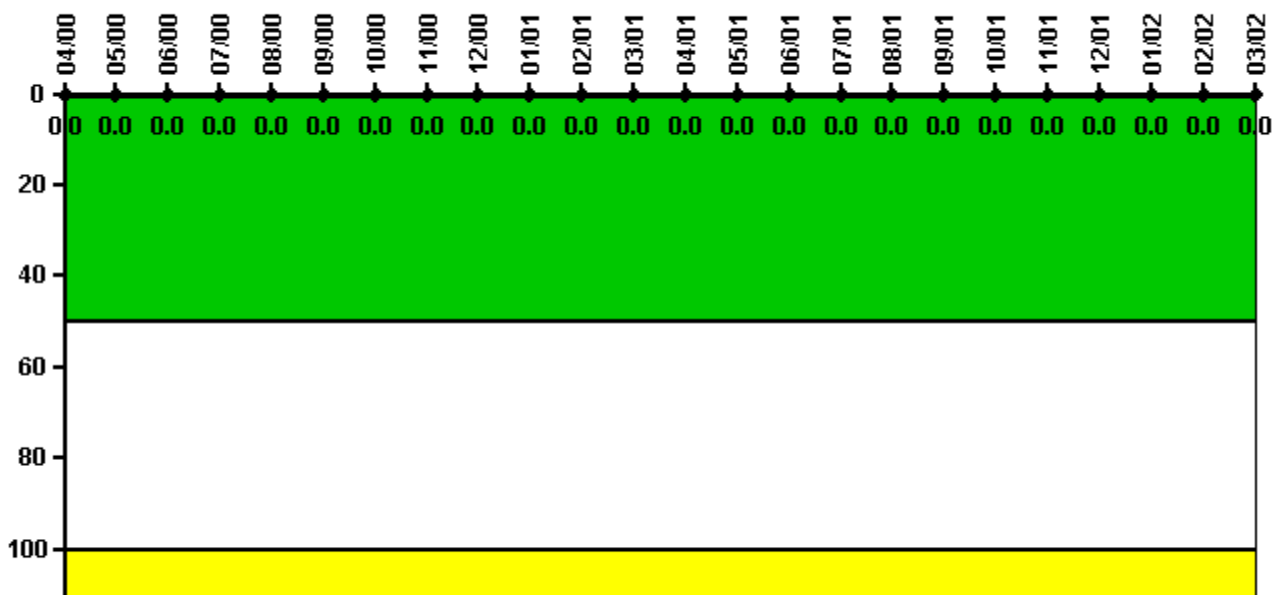
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Safety System Functional Failures	0	0	0	0	0	0	1	0
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

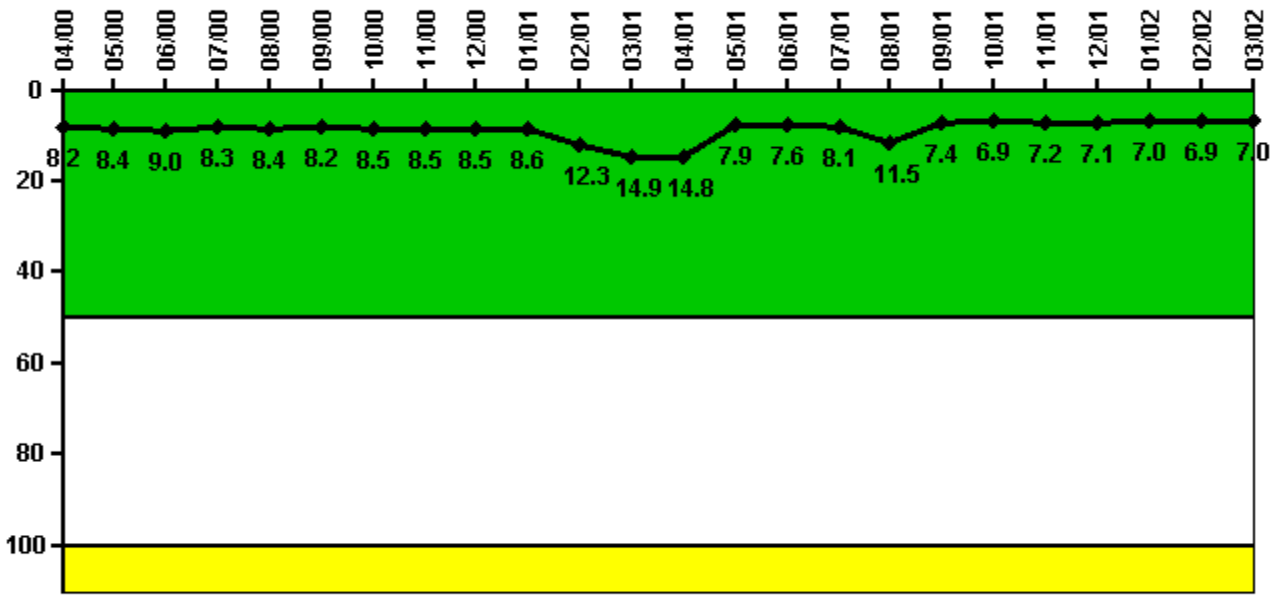
Reactor Coolant System Activity	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000042	0.000051	0.000045	0.000045	0.000050	0.000046	0.000044	0.000053	0.000042	0.000053	0.000043	0.000042
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.000057	0.000030	0.000036	0.000030	0.000027	0.000033	0.000034	0.000026	0.000030	0.000034	0.000044	0.000030
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

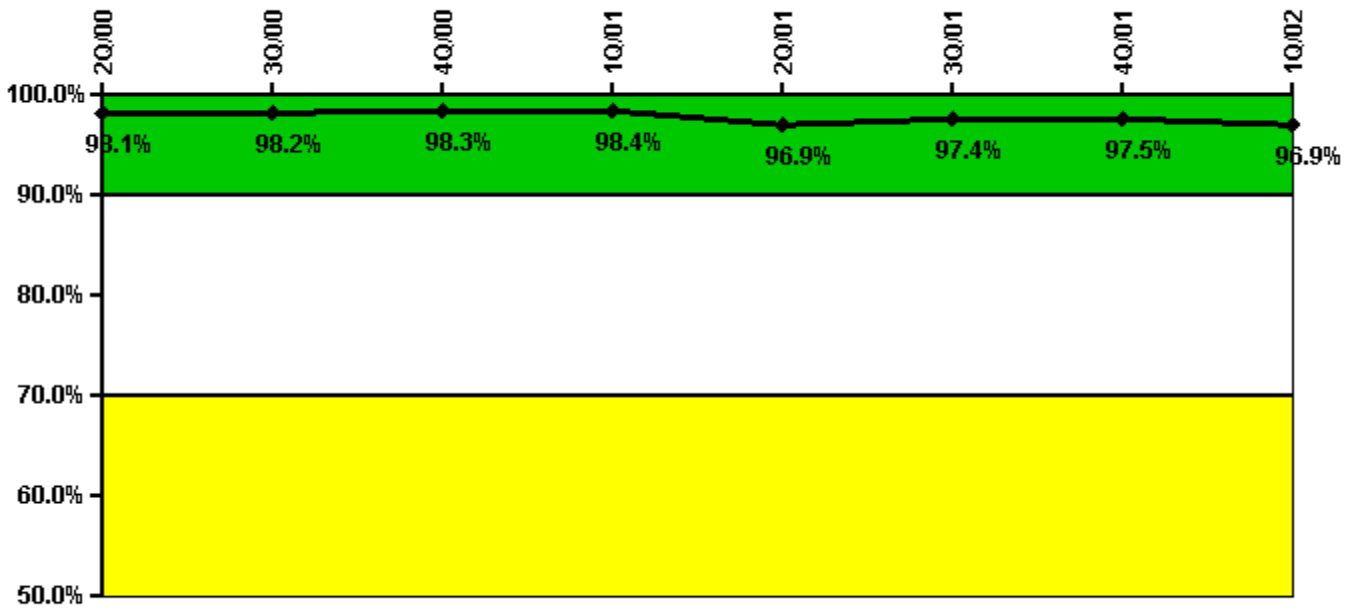
Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	2.460	2.510	2.700	2.490	2.530	2.460	2.560	2.550	2.550	2.570	3.700	4.470
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.2	8.4	9.0	8.3	8.4	8.2	8.5	8.5	8.5	8.6	12.3	14.9

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	4.430	2.380	2.280	2.440	3.440	2.220	2.080	2.150	2.140	2.090	2.080	2.100
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	14.8	7.9	7.6	8.1	11.5	7.4	6.9	7.2	7.1	7.0	6.9	7.0

Licensee Comments: none

### Drill/Exercise Performance



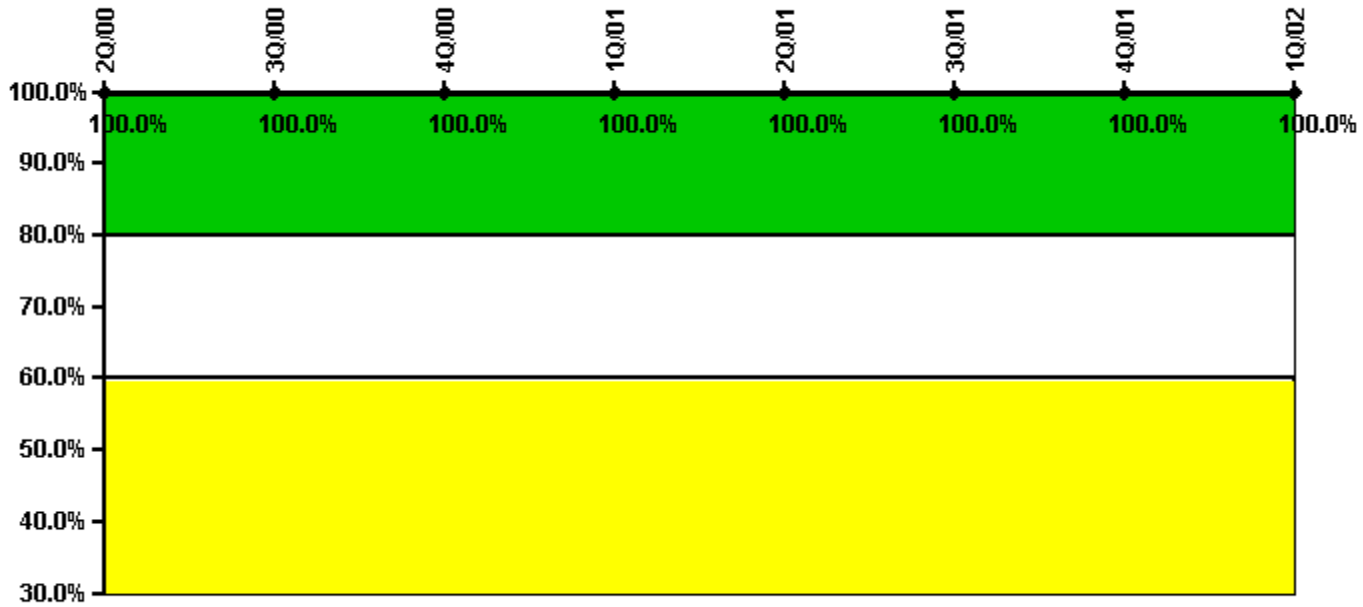
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	70.0	24.0	34.0	30.0	20.0	39.0	28.0	32.0
Total opportunities	72.0	24.0	34.0	30.0	24.0	39.0	28.0	35.0
<b>Indicator value</b>	<b>98.1%</b>	<b>98.2%</b>	<b>98.3%</b>	<b>98.4%</b>	<b>96.9%</b>	<b>97.4%</b>	<b>97.5%</b>	<b>96.9%</b>

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

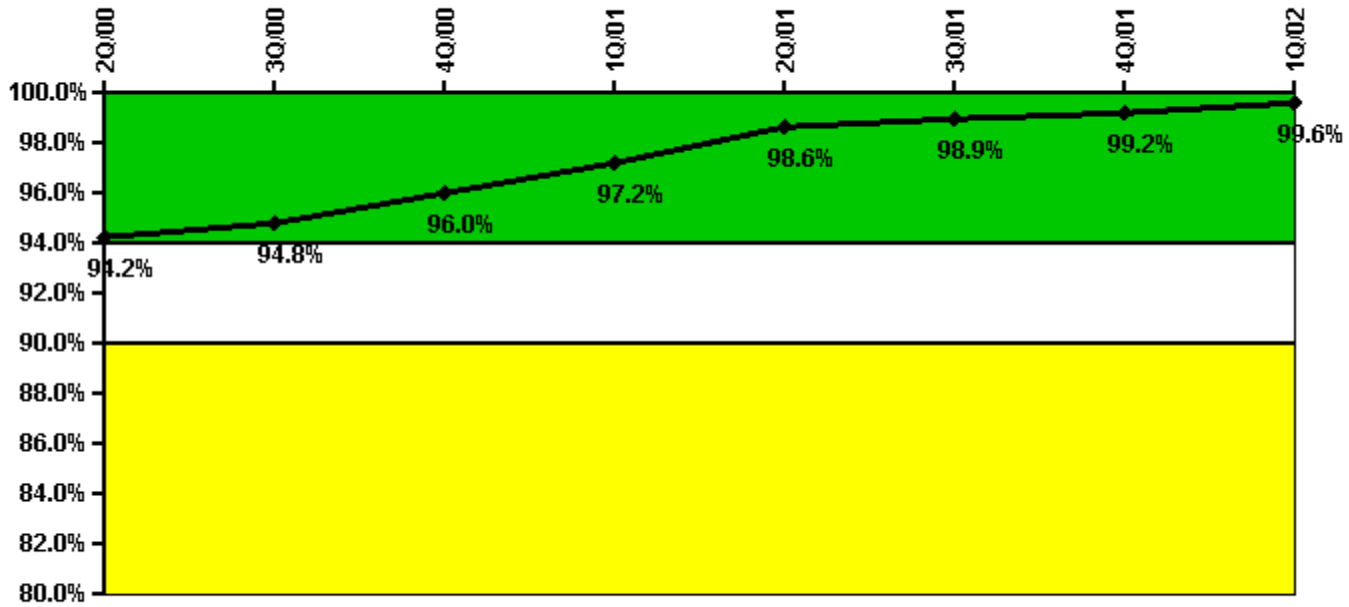
#### Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	61.0	63.0	79.0	83.0	85.0	88.0	92.0	84.0
Total Key personnel	61.0	63.0	79.0	83.0	85.0	88.0	92.0	84.0
<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



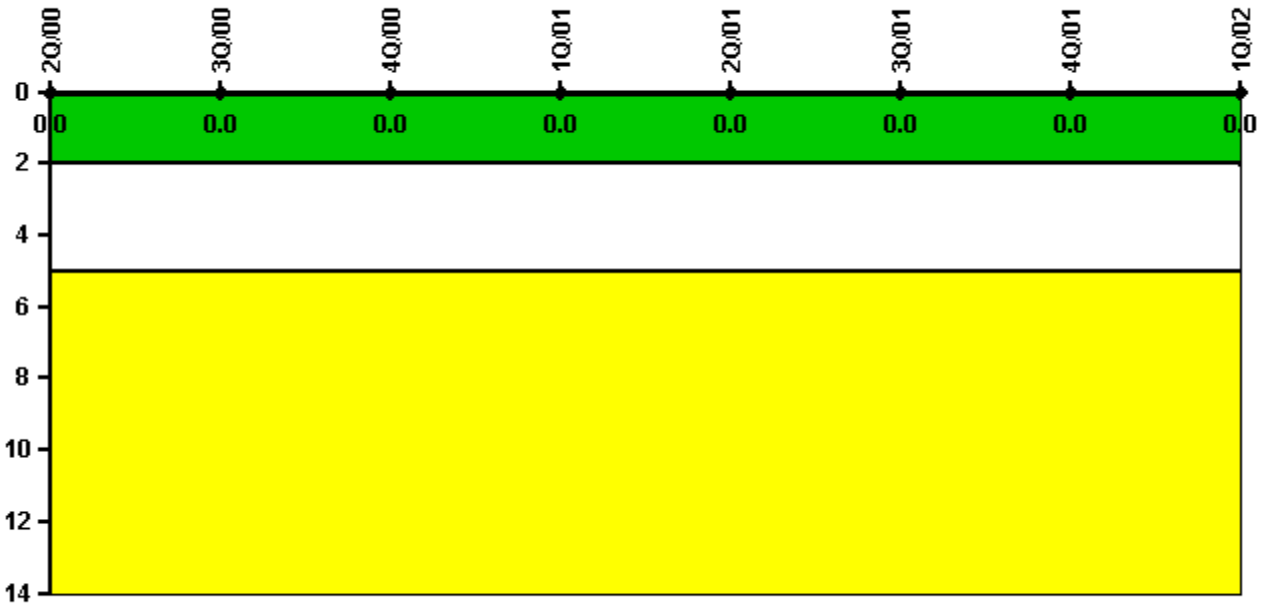
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	117	168	212	255	128	128	129	129
Total sirens-tests	129	172	215	258	129	129	129	129
<b>Indicator value</b>	<b>94.2%</b>	<b>94.8%</b>	<b>96.0%</b>	<b>97.2%</b>	<b>98.6%</b>	<b>98.9%</b>	<b>99.2%</b>	<b>99.6%</b>

Licensee Comments: none

### Occupational Exposure Control Effectiveness



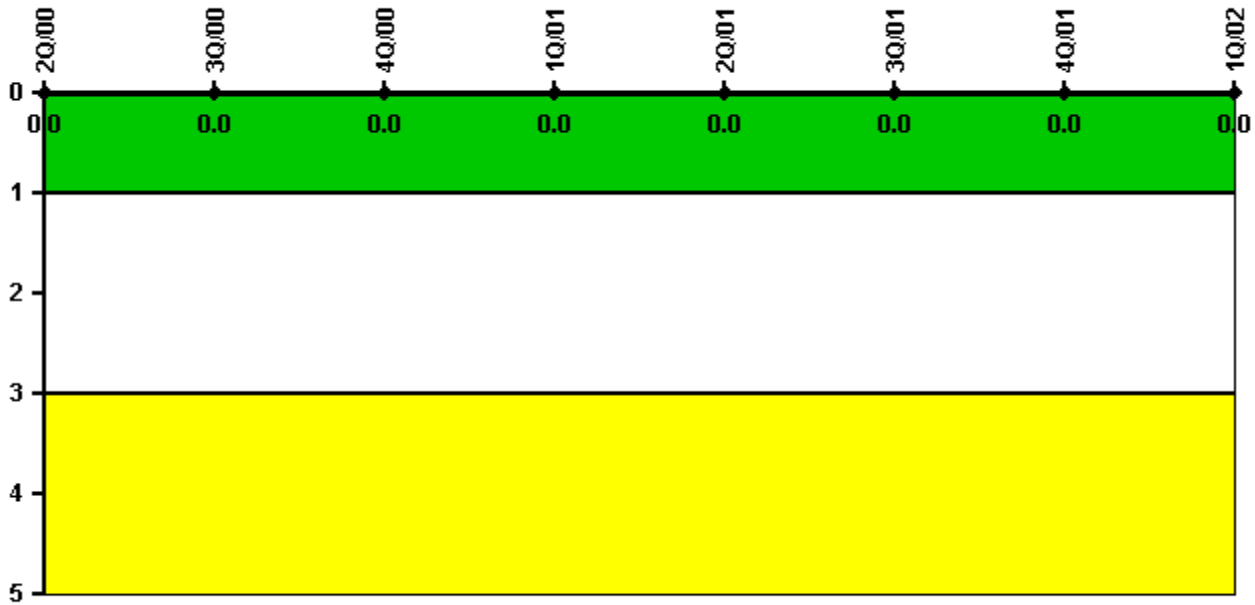
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
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



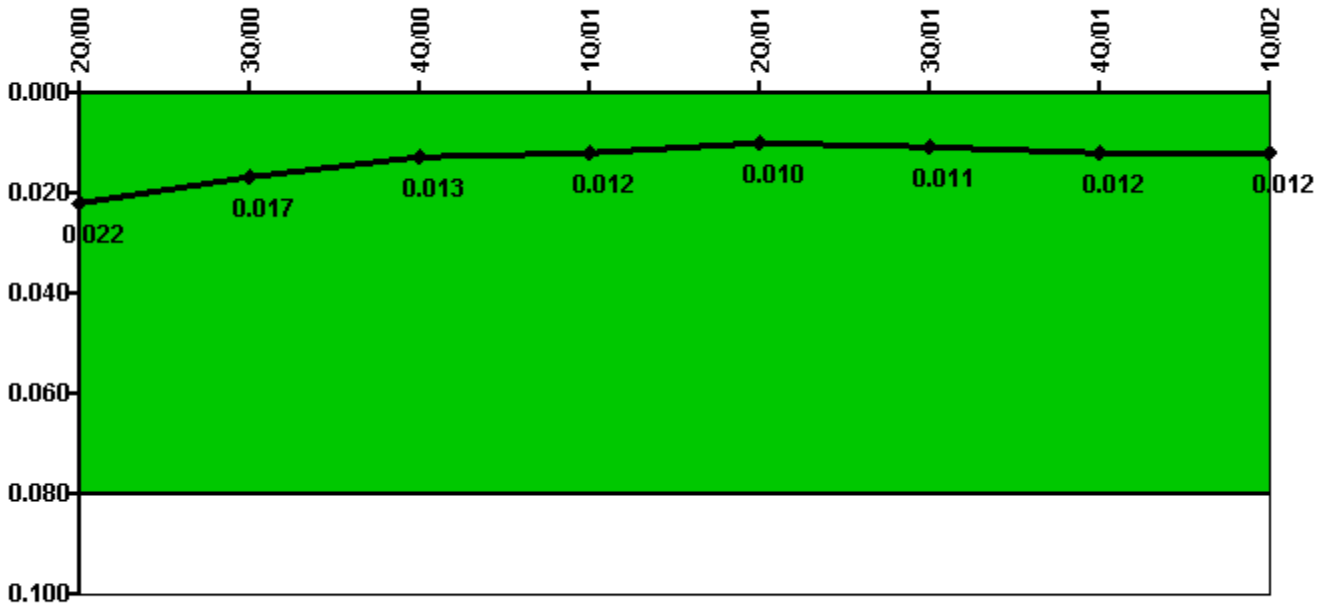
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



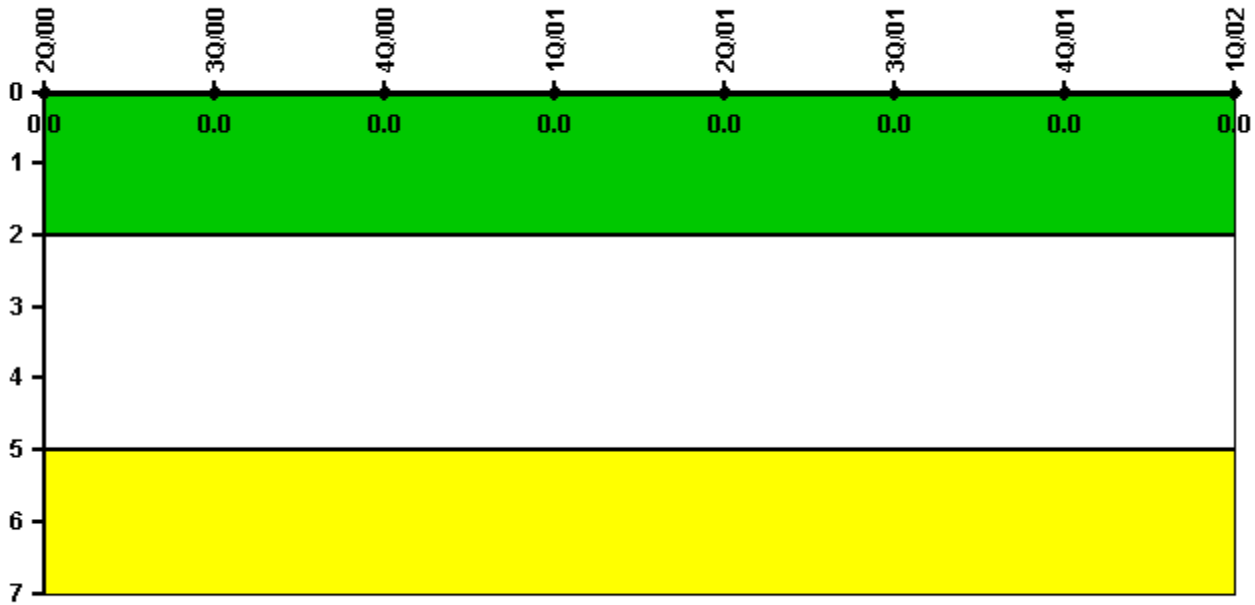
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
IDS compensatory hours	168.60	96.90	6.90	50.50	118.50	10.50	22.70	55.20
CCTV compensatory hours	1.3	6.2	1.2	4.7	0	65.2	1.3	0
IDS normalization factor	1.60	1.60	1.60	1.60	1.60	1.50	1.50	1.50
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0
<b>Index Value</b>	<b>0.022</b>	<b>0.017</b>	<b>0.013</b>	<b>0.012</b>	<b>0.010</b>	<b>0.011</b>	<b>0.012</b>	<b>0.012</b>

Licensee Comments: none

### Personnel Screening Program



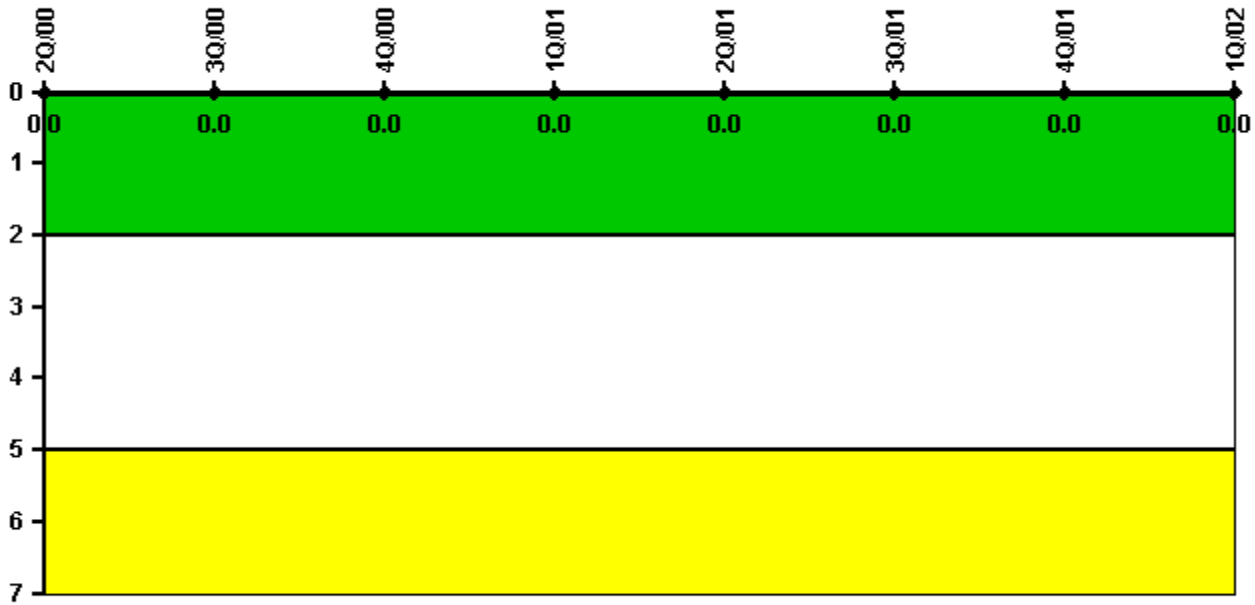
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program Failures	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

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

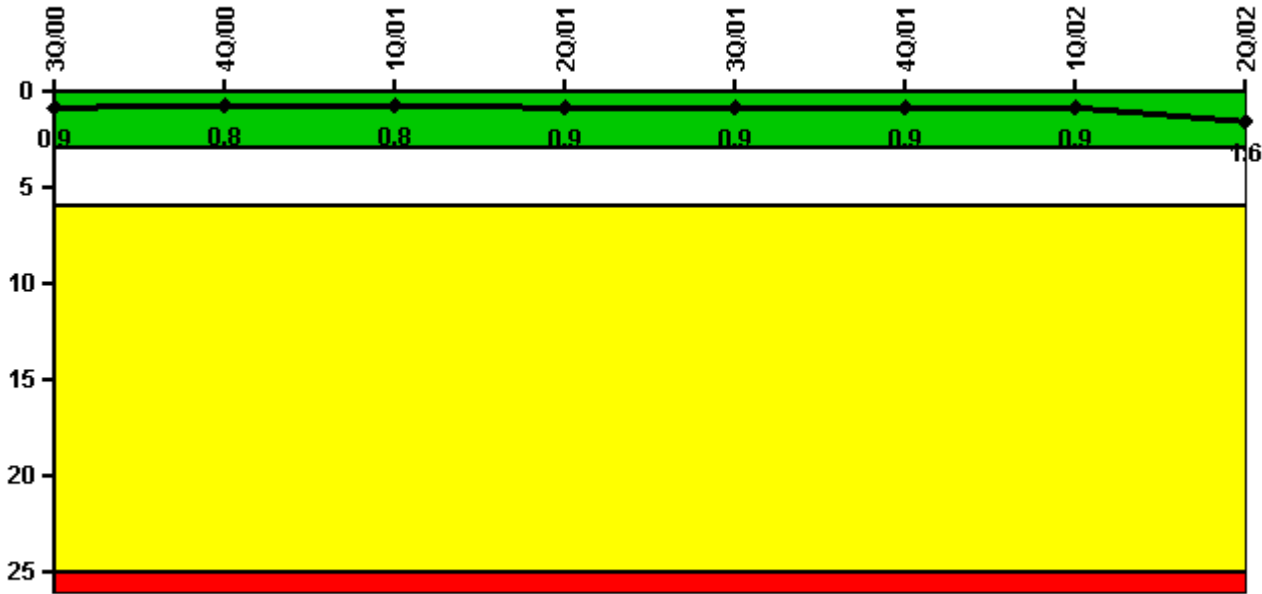
Last Modified: May 1, 2002

# Grand Gulf 1

## 2Q/2002 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



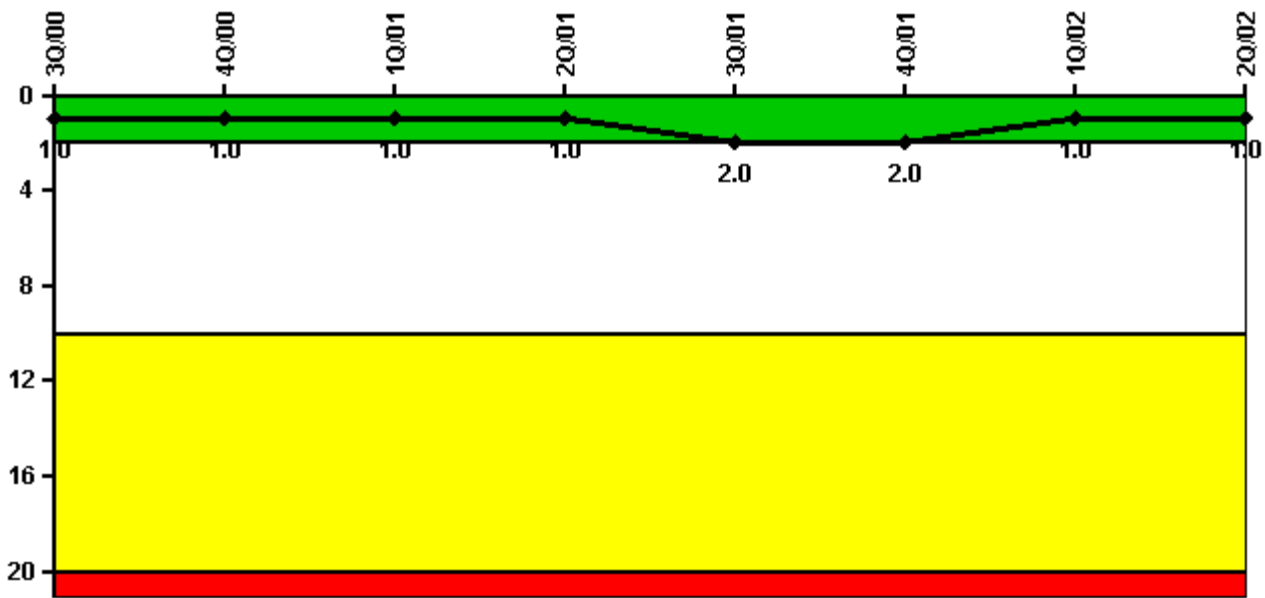
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned scrams	1.0	0	0	0	1.0	0	0	1.0
Critical hours	2155.3	2209.0	2160.0	1695.3	2083.6	2209.0	2160.0	2132.2
Indicator value	0.9	0.8	0.8	0.9	0.9	0.9	0.9	1.6

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

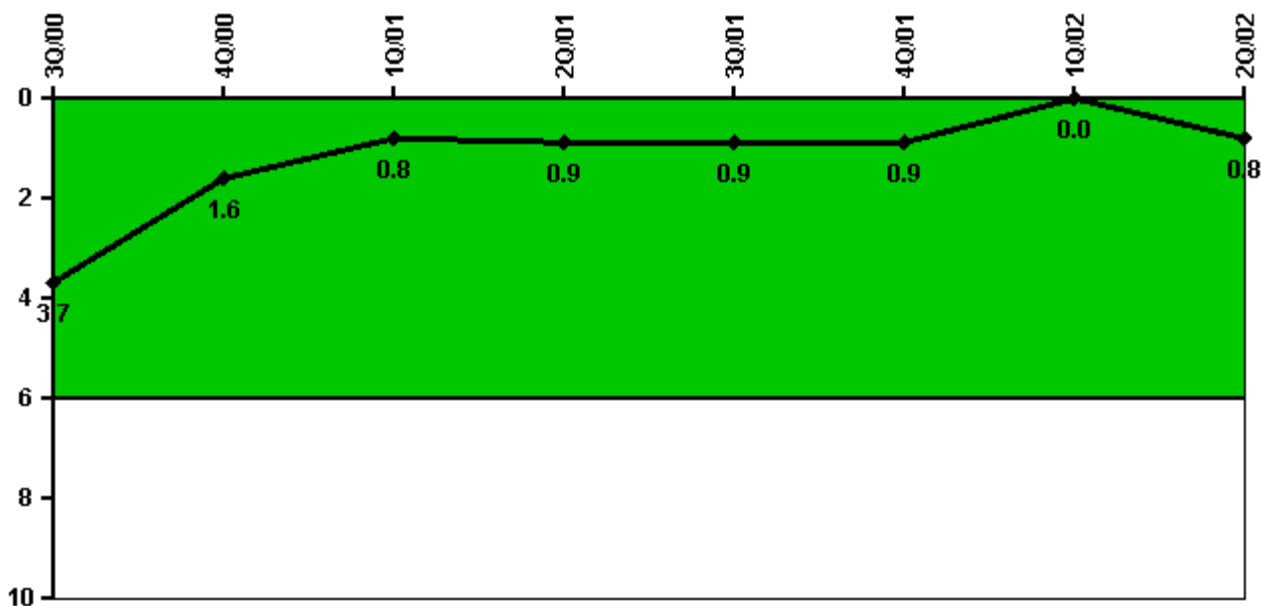
#### Notes

Scrams with Loss of Normal Heat Removal	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Scrams	0	0	0	0	1.0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0

Licensee Comments: none



### Unplanned Power Changes per 7000 Critical Hrs



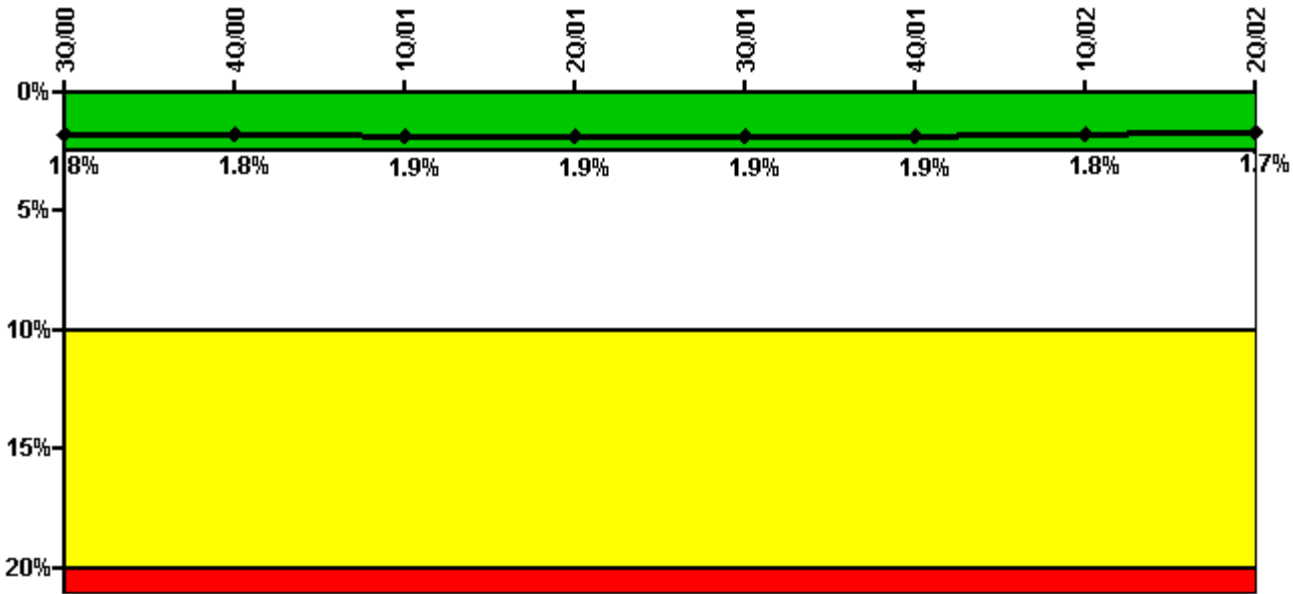
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned power changes	0	0	1.0	0	0	0	0	1.0
Critical hours	2155.3	2209.0	2160.0	1695.3	2083.6	2209.0	2160.0	2132.2
<b>Indicator value</b>	<b>3.7</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>	<b>0.8</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



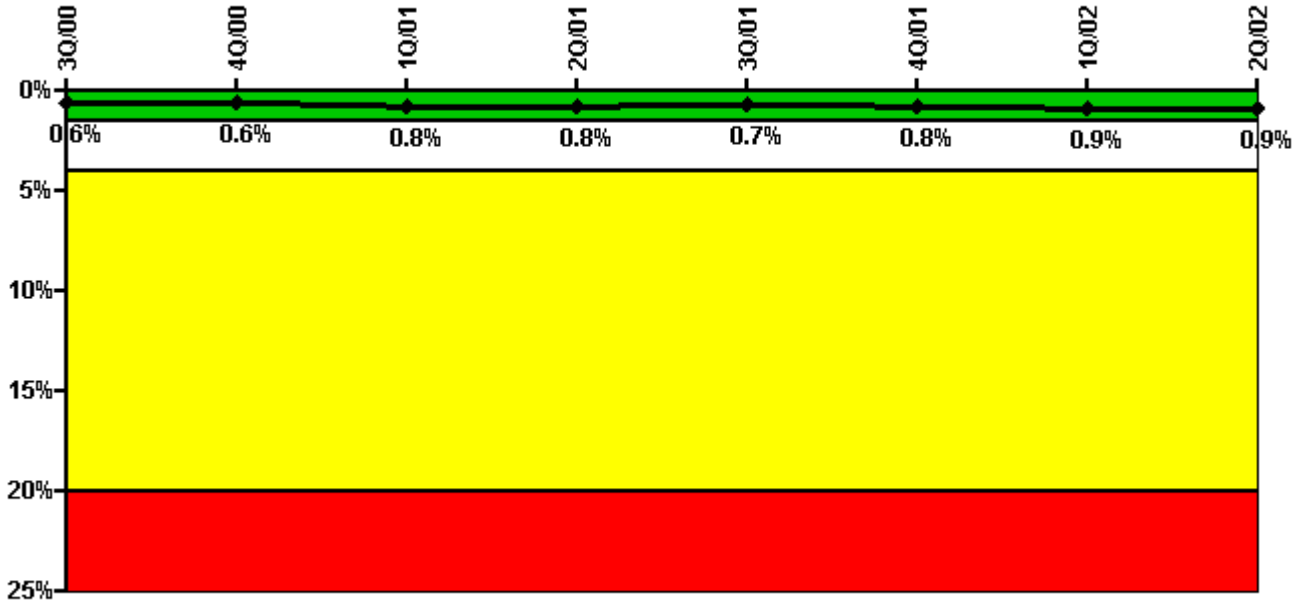
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
<b>Train 1</b>								
Planned unavailable hours	12.82	3.22	39.52	4.29	33.44	3.29	4.86	0.95
Unplanned unavailable hours	0	0	40.25	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	21.93	3.91	26.95	1.67	8.28	2.68	79.24	8.16
Unplanned unavailable hours	0	0	13.16	4.20	0	1.67	0	1.08
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 3</b>								
Planned unavailable hours	73.05	3.92	4.17	2.81	3.23	2.73	23.33	0.85
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	1444.80	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Indicator value</b>	<b>1.8%</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.8%</b>	<b>1.7%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



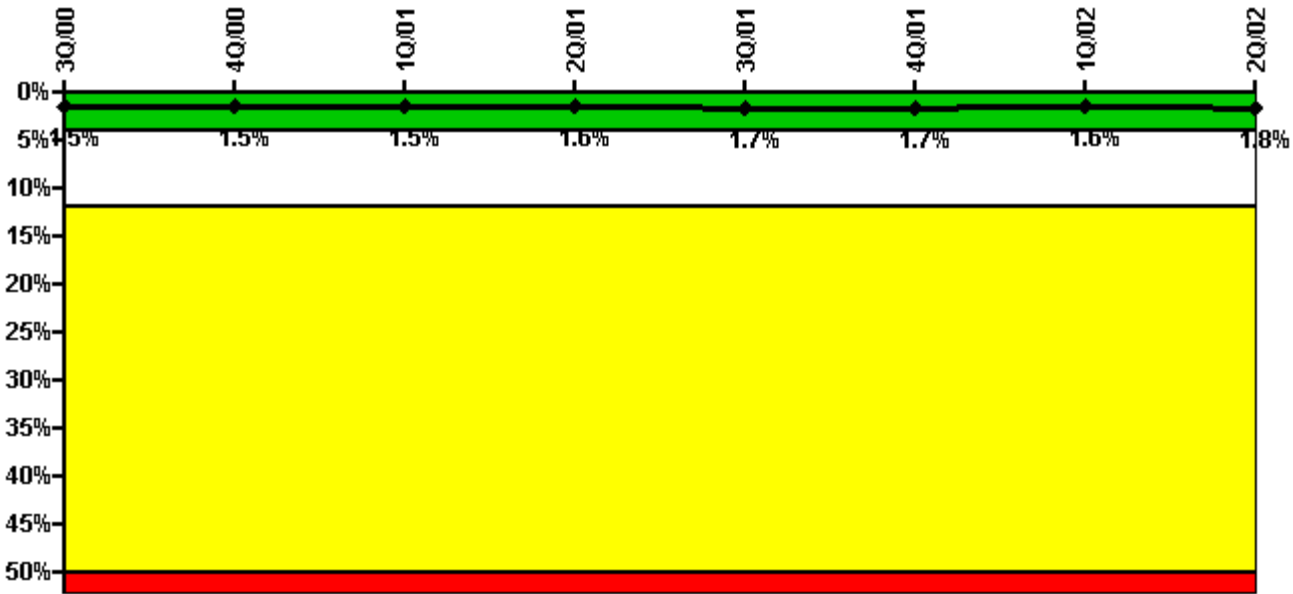
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
<b>Train 1</b>								
Planned unavailable hours	15.94	2.91	65.85	2.69	1.86	23.35	32.88	2.05
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	1695.30	2083.60	2209.00	2160.00	2132.15
<b>Indicator value</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



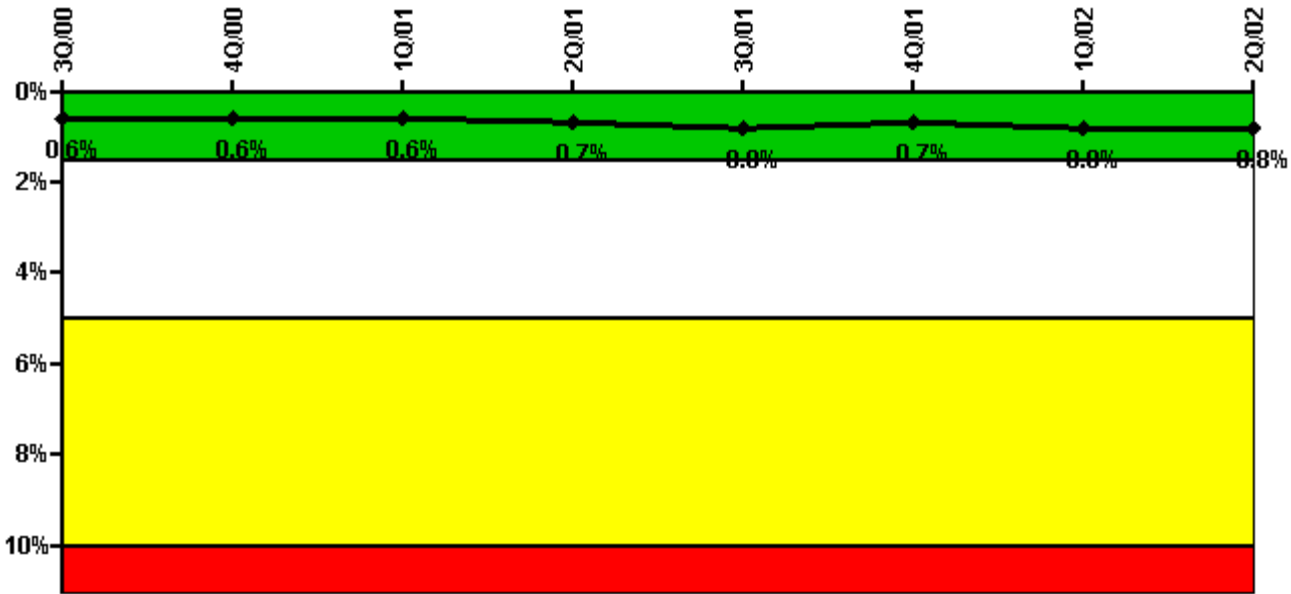
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
<b>Train 1</b>								
Planned unavailable hours	5.70	81.77	22.01	30.75	6.59	26.98	2.84	69.56
Unplanned unavailable hours	0.67	0.07	0	5.10	8.00	0	0	11.63
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	1695.30	2083.60	2209.00	2160.00	2132.15
<b>Indicator value</b>	<b>1.5%</b>	<b>1.5%</b>	<b>1.5%</b>	<b>1.6%</b>	<b>1.7%</b>	<b>1.7%</b>	<b>1.6%</b>	<b>1.8%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



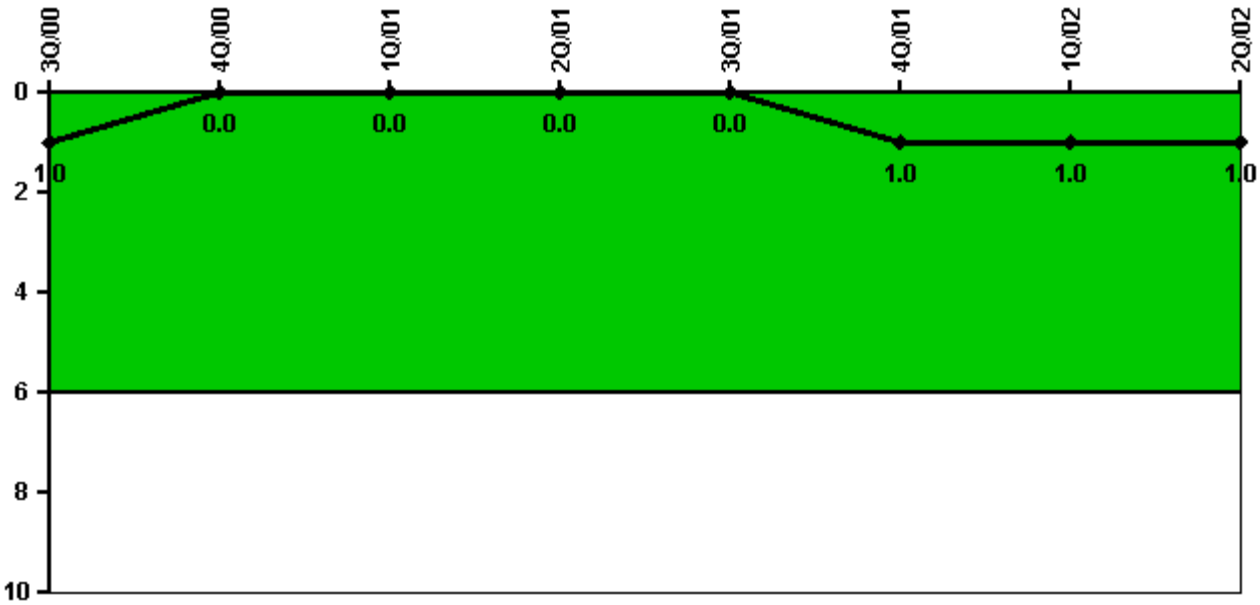
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
<b>Train 1</b>								
Planned unavailable hours	14.27	4.40	25.73	3.91	24.55	3.73	19.05	2.40
Unplanned unavailable hours	1.40	0	0	25.86	0	0	0	15.27
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	8.35	13.54	26.62	2.30	26.05	2.43	14.17	22.15
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



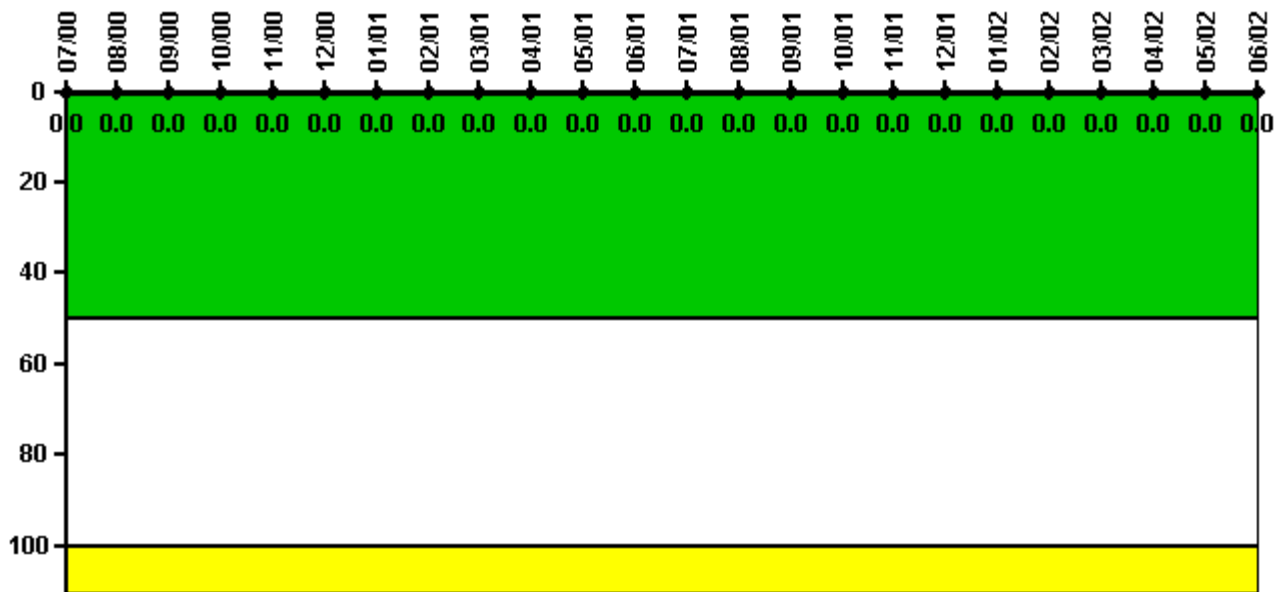
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	1	0	0	0	0	1	1	1

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

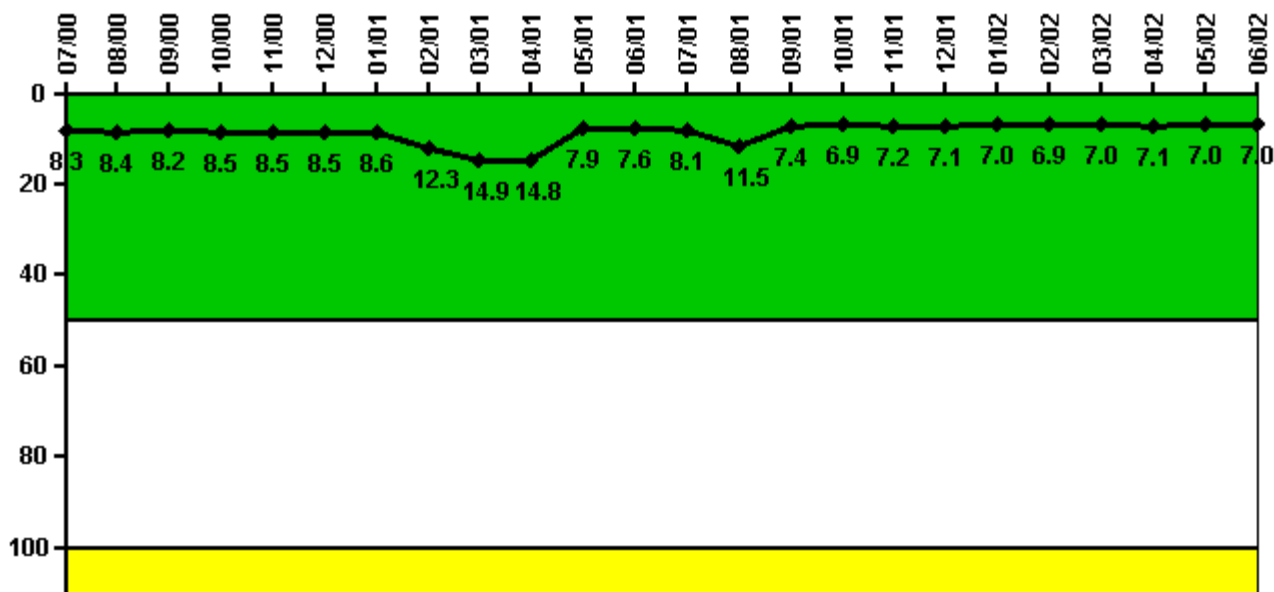
Reactor Coolant System Activity	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.000045	0.000050	0.000046	0.000044	0.000053	0.000042	0.000053	0.000043	0.000042	0.000057	0.000030	0.000036
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.000030	0.000027	0.000033	0.000034	0.000026	0.000030	0.000034	0.000044	0.000030	0.000028	0.000028	0.000030
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**

Reactor Coolant System Leakage	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	2.490	2.530	2.460	2.560	2.550	2.550	2.570	3.700	4.470	4.430	2.380	2.280
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.3	8.4	8.2	8.5	8.5	8.5	8.6	12.3	14.9	14.8	7.9	7.6

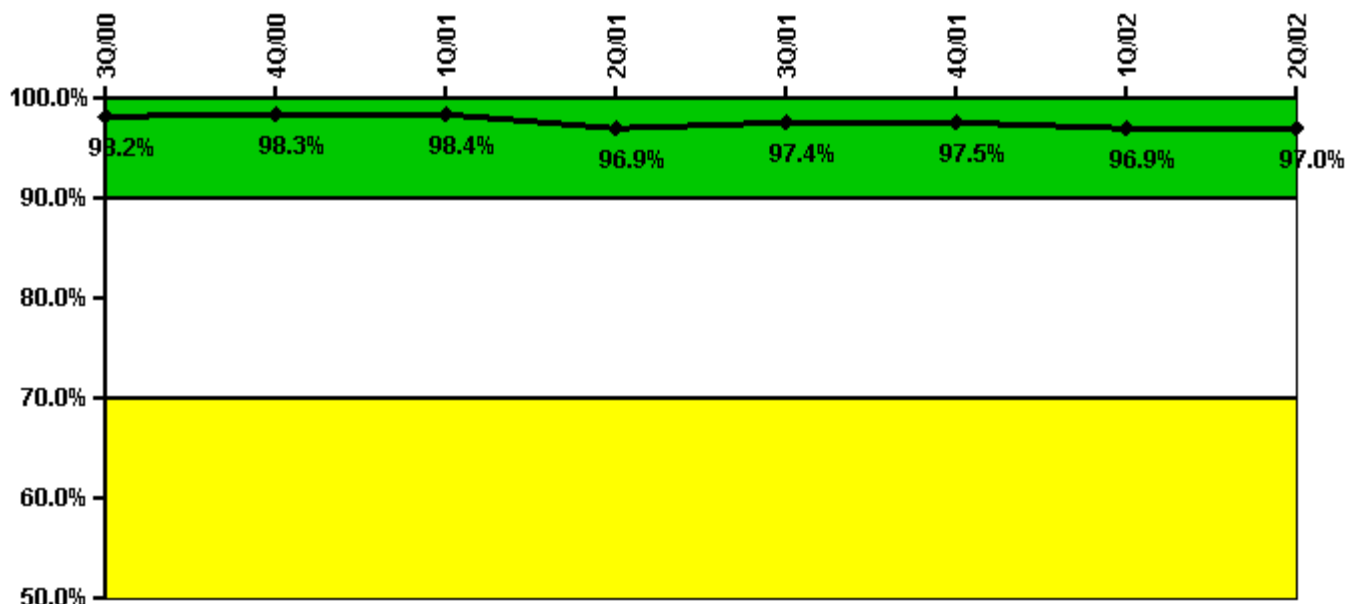
  

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	2.440	3.440	2.220	2.080	2.150	2.140	2.090	2.080	2.100	2.130	2.090	2.110
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.1	11.5	7.4	6.9	7.2	7.1	7.0	6.9	7.0	7.1	7.0	7.0

Licensee Comments: none



### Drill/Exercise Performance



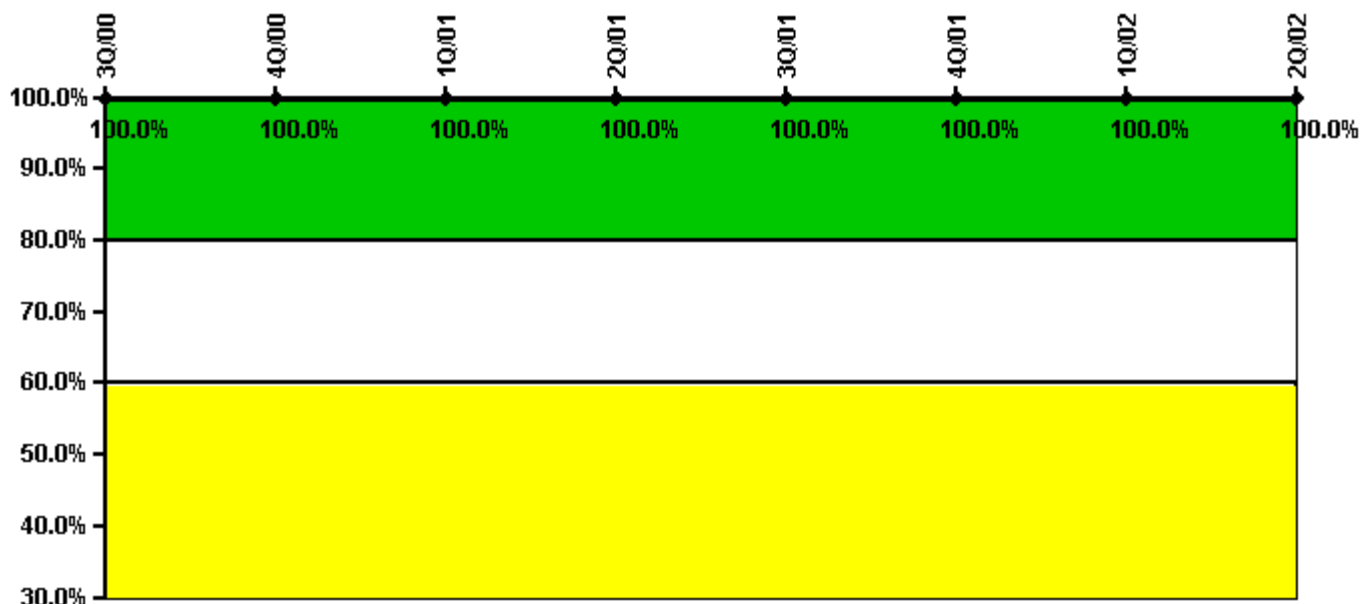
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	24.0	34.0	30.0	20.0	39.0	28.0	32.0	18.0
Total opportunities	24.0	34.0	30.0	24.0	39.0	28.0	35.0	18.0
<b>Indicator value</b>	<b>98.2%</b>	<b>98.3%</b>	<b>98.4%</b>	<b>96.9%</b>	<b>97.4%</b>	<b>97.5%</b>	<b>96.9%</b>	<b>97.0%</b>

Licensee Comments: none

### ERO Drill Participation



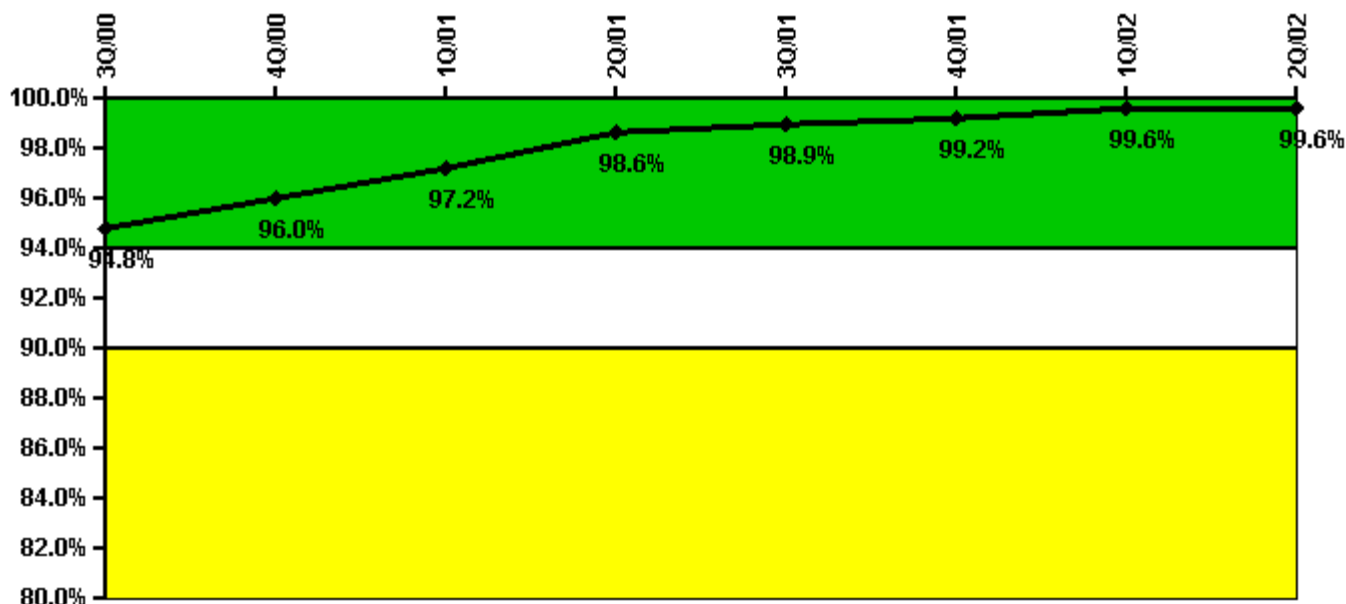
Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Participating Key personnel	63.0	79.0	83.0	85.0	88.0	92.0	84.0	80.0
Total Key personnel	63.0	79.0	83.0	85.0	88.0	92.0	84.0	80.0
<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



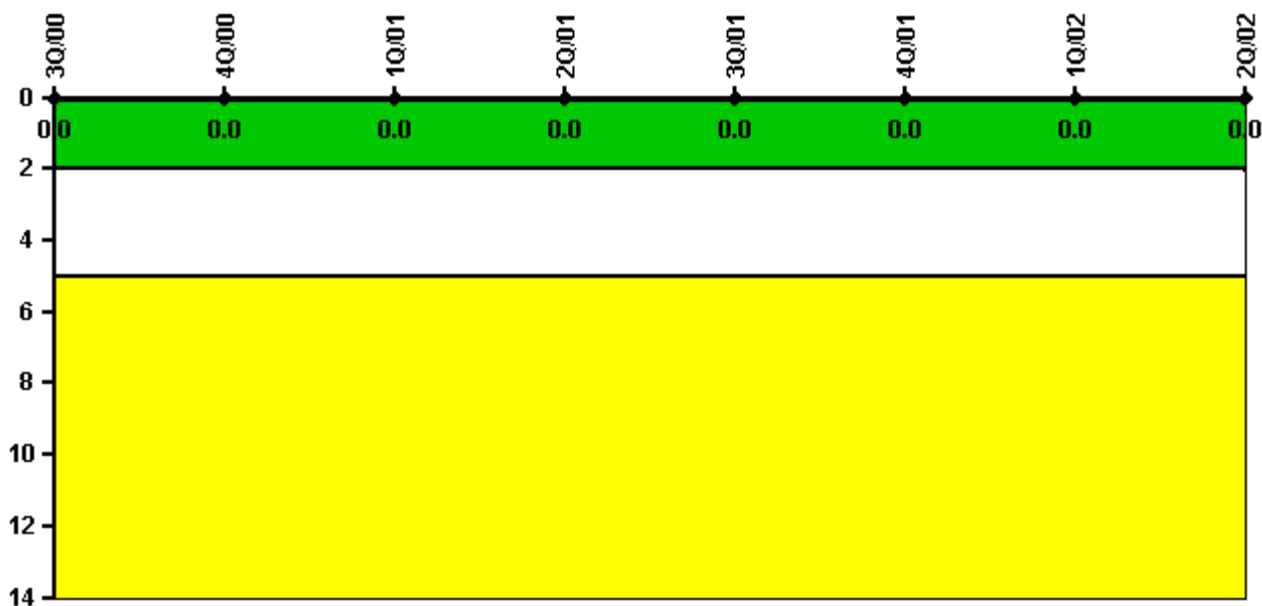
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful siren-tests	168	212	255	128	128	129	129	127
Total sirens-tests	172	215	258	129	129	129	129	128
<b>Indicator value</b>	<b>94.8%</b>	<b>96.0%</b>	<b>97.2%</b>	<b>98.6%</b>	<b>98.9%</b>	<b>99.2%</b>	<b>99.6%</b>	<b>99.6%</b>

Licensee Comments: none

### Occupational Exposure Control Effectiveness



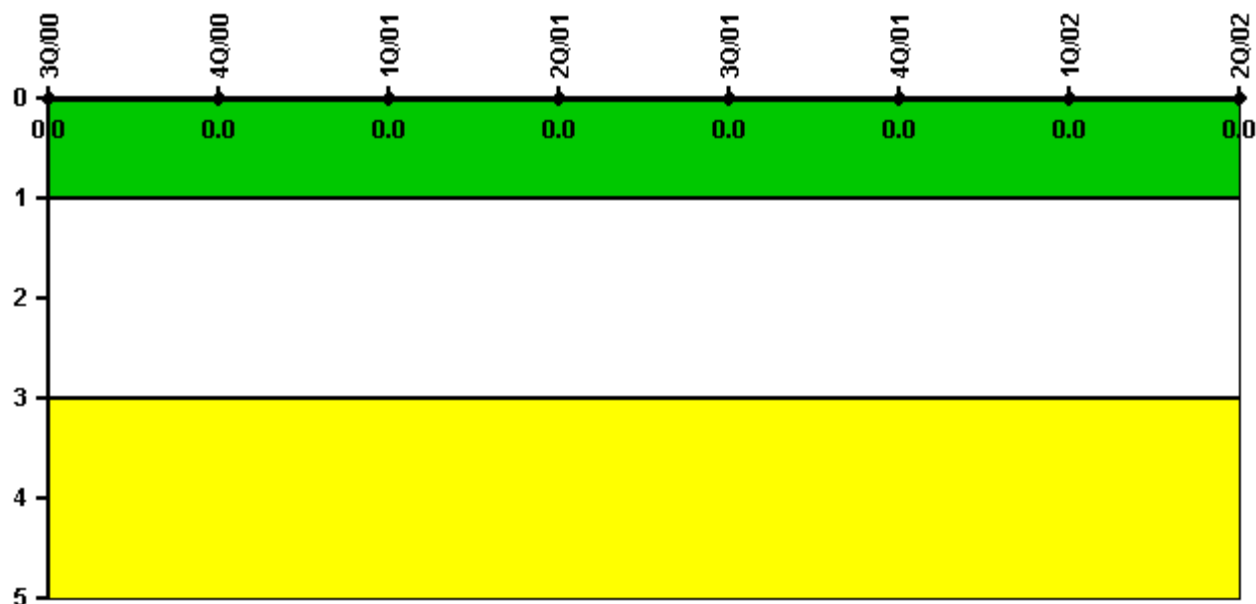
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
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



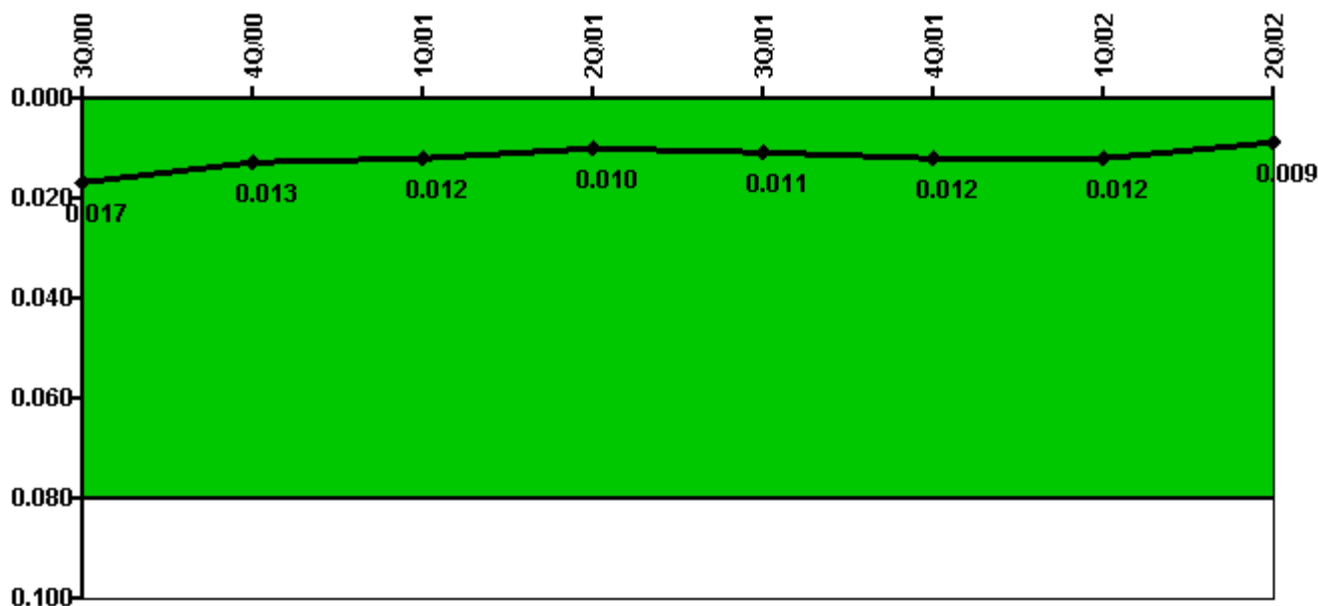
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



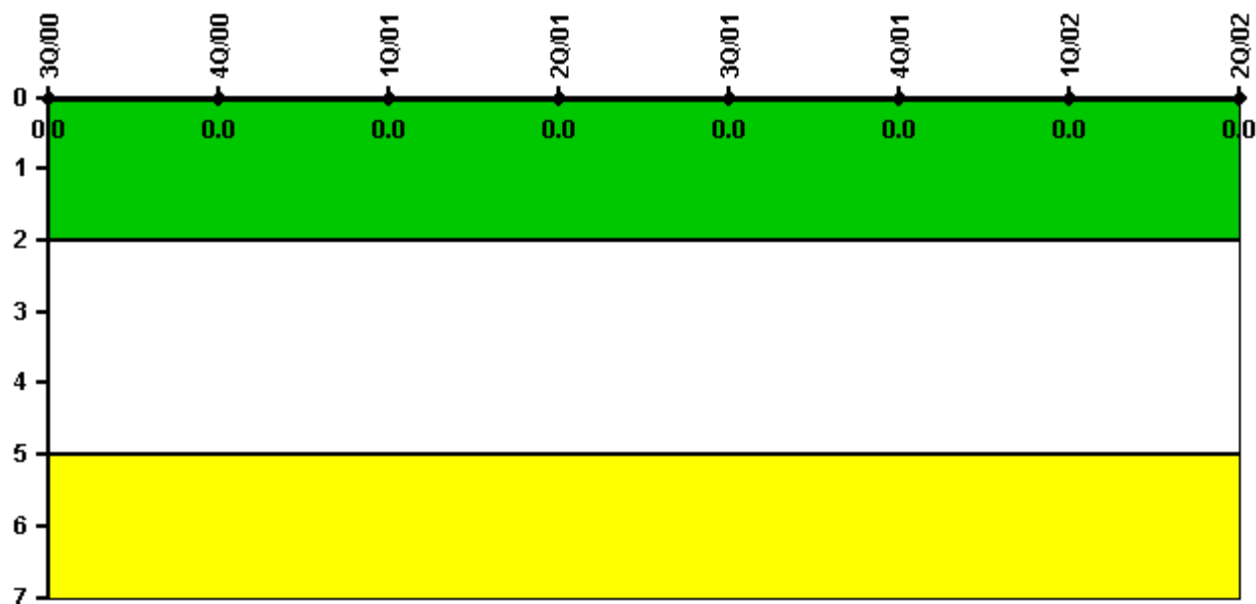
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
IDS compensatory hours	96.90	6.90	50.50	118.50	10.50	22.70	55.20	24.00
CCTV compensatory hours	6.2	1.2	4.7	0	65.2	1.3	0	19.8
IDS normalization factor	1.60	1.60	1.60	1.60	1.50	1.50	1.50	1.50
CCTV normalization factor	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0
<b>Index Value</b>	<b>0.017</b>	<b>0.013</b>	<b>0.012</b>	<b>0.010</b>	<b>0.011</b>	<b>0.012</b>	<b>0.012</b>	<b>0.009</b>

Licensee Comments: none

### Personnel Screening Program



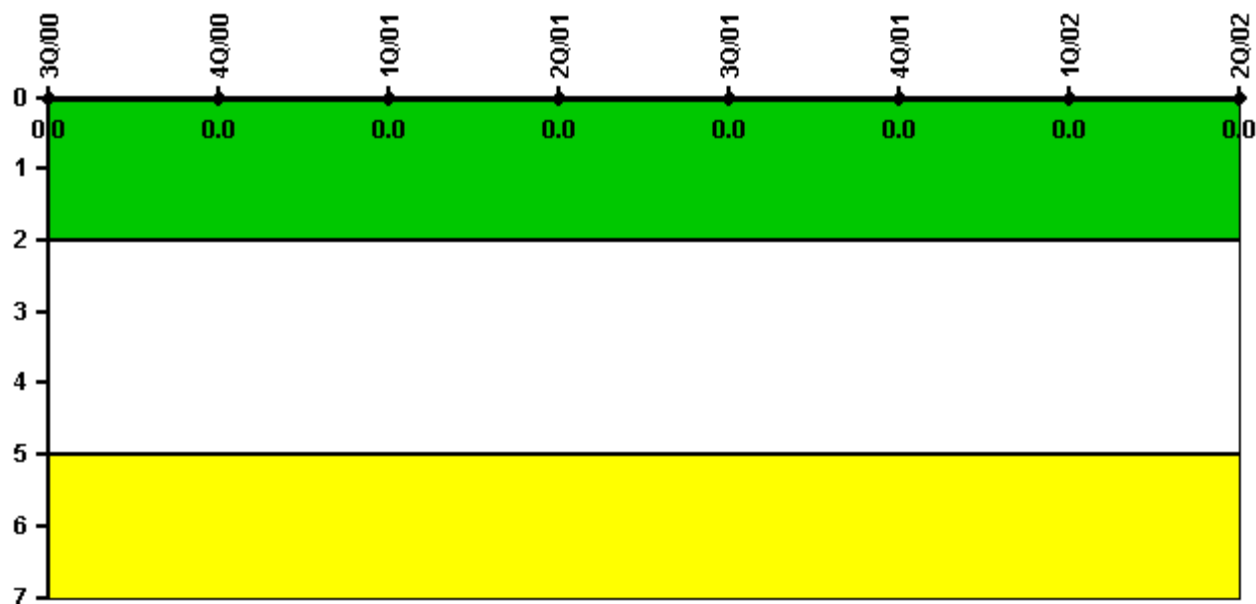
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Program failures	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

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Program Failures	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

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

Last Modified: July 31, 2002

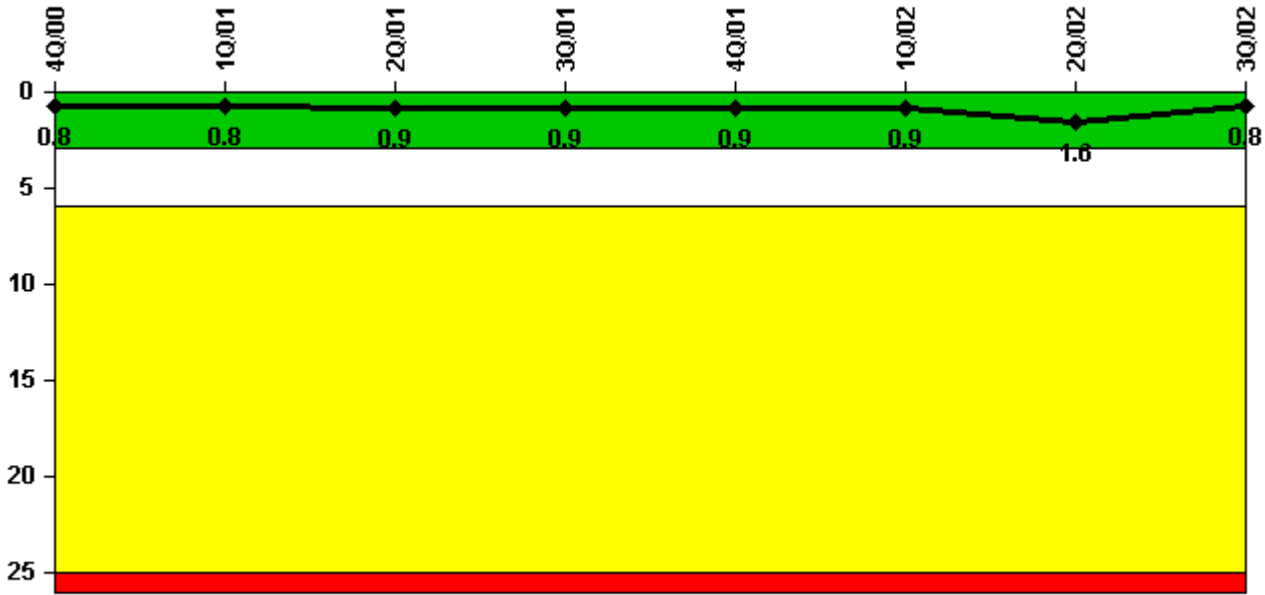


# Grand Gulf 1

## 3Q/2002 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



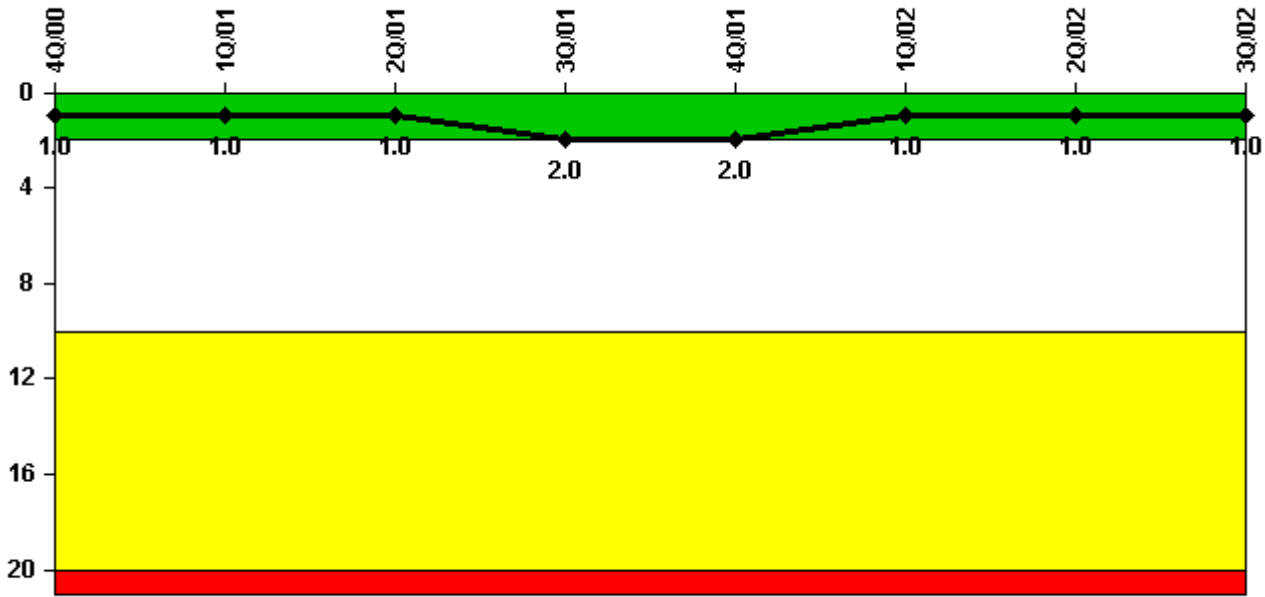
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	0	0	0	1.0	0	0	1.0	0
Critical hours	2209.0	2160.0	1695.3	2083.6	2209.0	2160.0	2132.2	1796.0
Indicator value	0.8	0.8	0.9	0.9	0.9	0.9	1.6	0.8

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



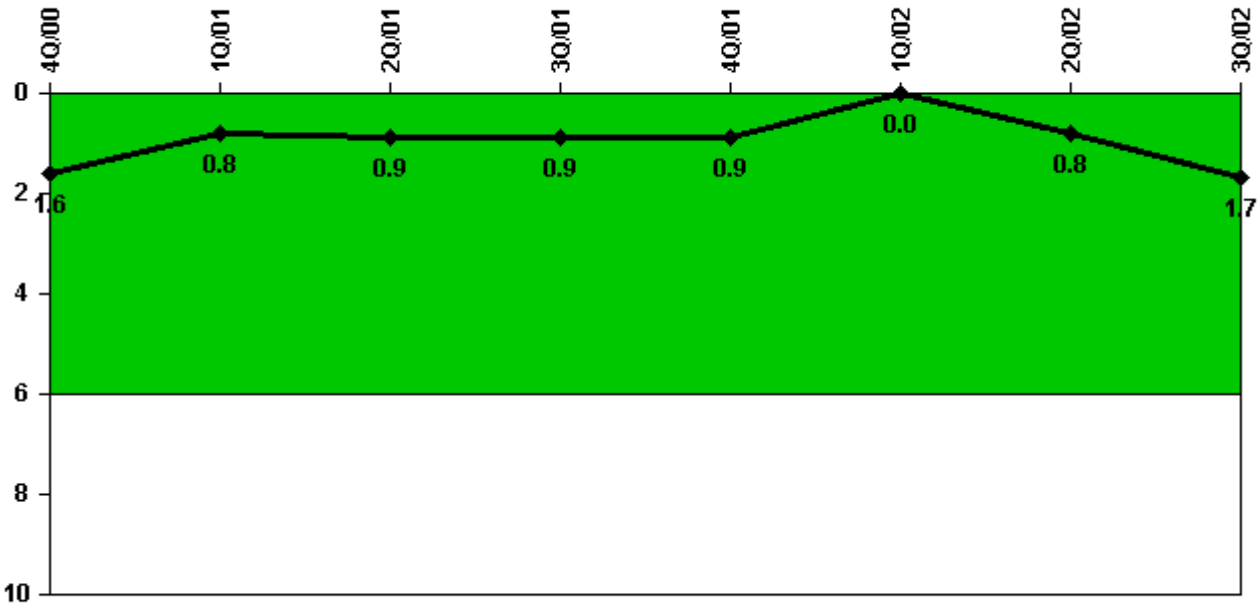
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Scrams	0	0	0	1.0	0	0	0	0
Indicator value	1.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



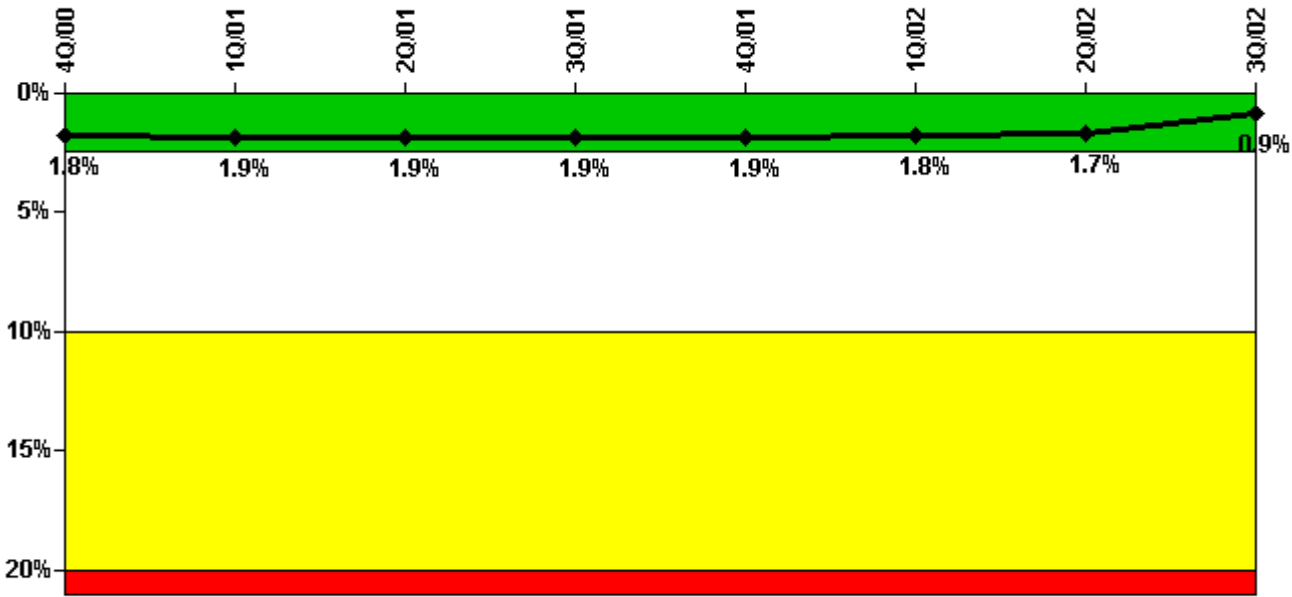
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	1.0	0	0	0	0	1.0	1.0
Critical hours	2209.0	2160.0	1695.3	2083.6	2209.0	2160.0	2132.2	1796.0
<b>Indicator value</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>	<b>0.8</b>	<b>1.7</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



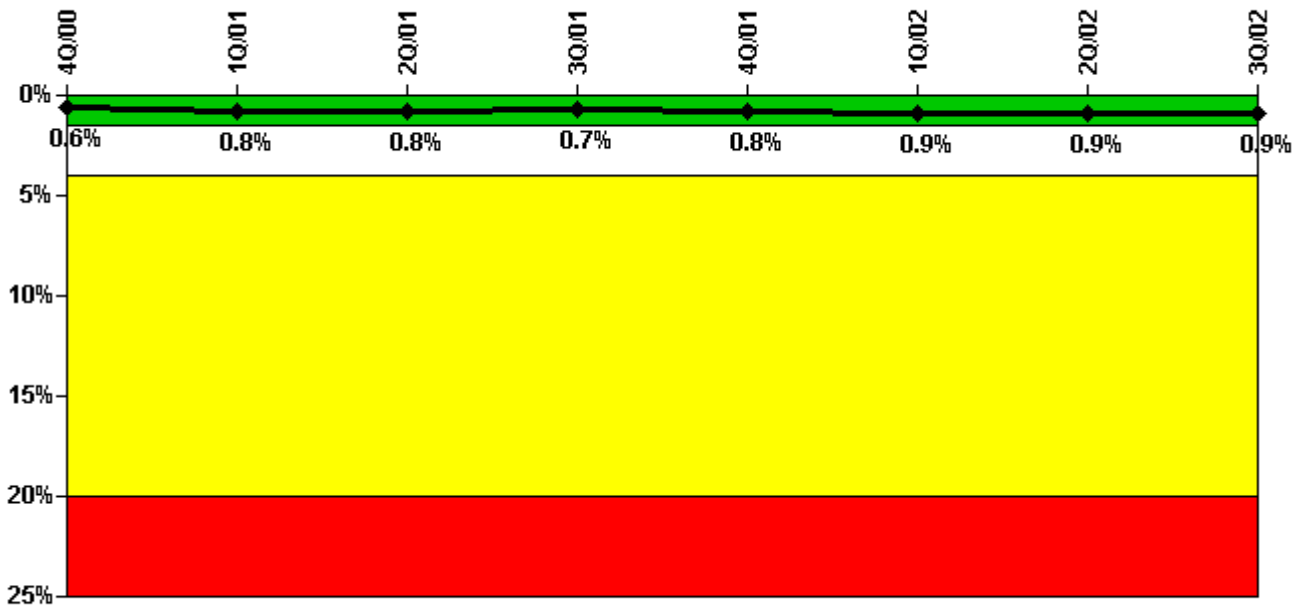
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
<b>Train 1</b>								
Planned unavailable hours	3.22	39.52	4.29	33.44	3.29	4.86	0.95	0.69
Unplanned unavailable hours	0	40.25	0	0	0	0	0	11.45
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	3.91	26.95	1.67	8.28	2.68	79.24	8.16	1.56
Unplanned unavailable hours	0	13.16	4.20	0	1.67	0	1.08	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 3</b>								
Planned unavailable hours	3.92	4.17	2.81	3.23	2.73	23.33	0.85	0.46
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Indicator value</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.8%</b>	<b>1.7%</b>	<b>0.9%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



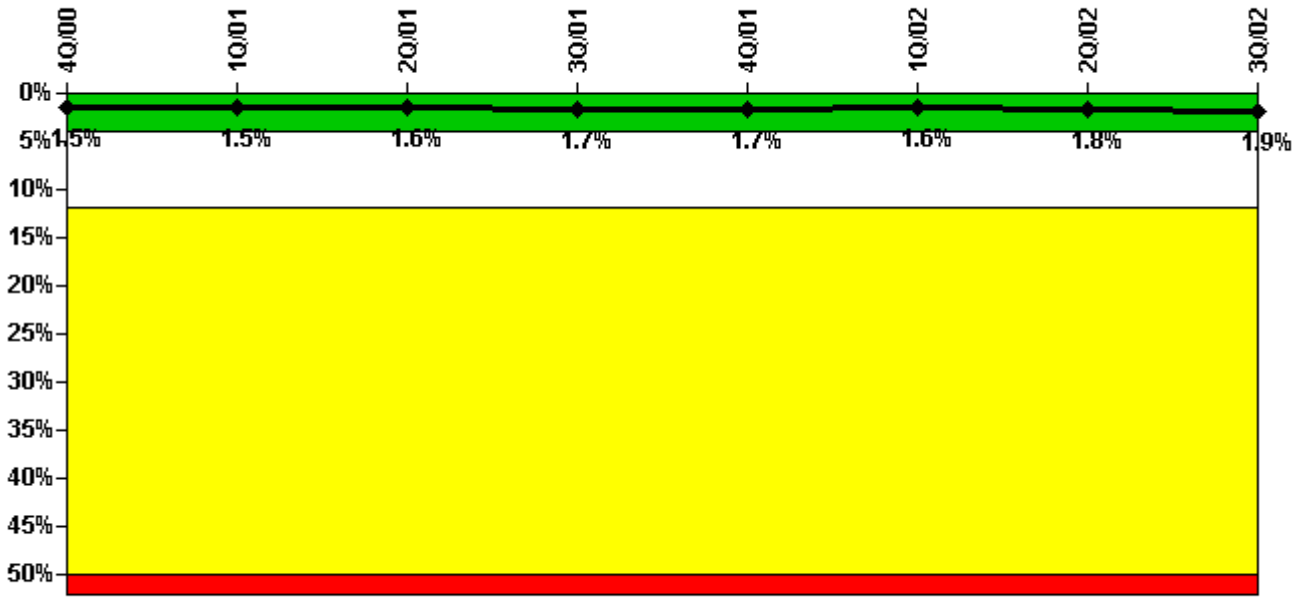
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

**Notes**

Safety System Unavailability, High Pressure Injection System (HPCS)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
<b>Train 1</b>								
Planned unavailable hours	2.91	65.85	2.69	1.86	23.35	32.88	2.05	18.56
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	1695.30	2083.60	2209.00	2160.00	2132.15	1796.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



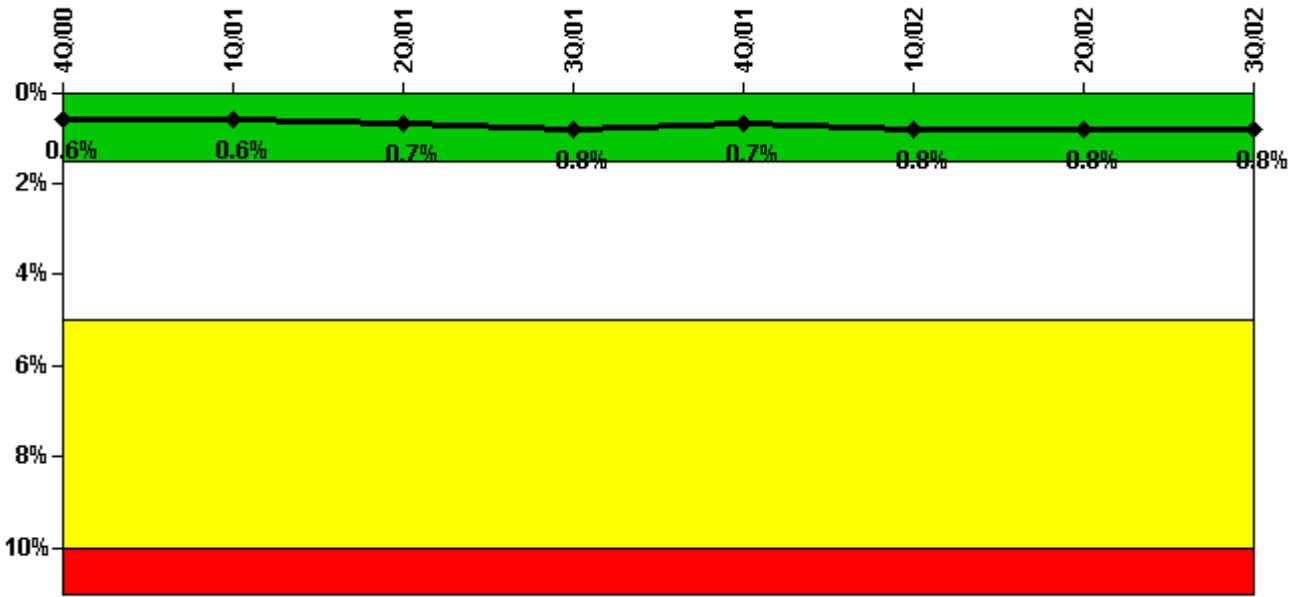
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
<b>Train 1</b>								
Planned unavailable hours	81.77	22.01	30.75	6.59	26.98	2.84	69.56	6.43
Unplanned unavailable hours	0.07	0	5.10	8.00	0	0	11.63	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	1695.30	2083.60	2209.00	2160.00	2132.15	1796.00
<b>Indicator value</b>	<b>1.5%</b>	<b>1.5%</b>	<b>1.6%</b>	<b>1.7%</b>	<b>1.7%</b>	<b>1.6%</b>	<b>1.8%</b>	<b>1.9%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



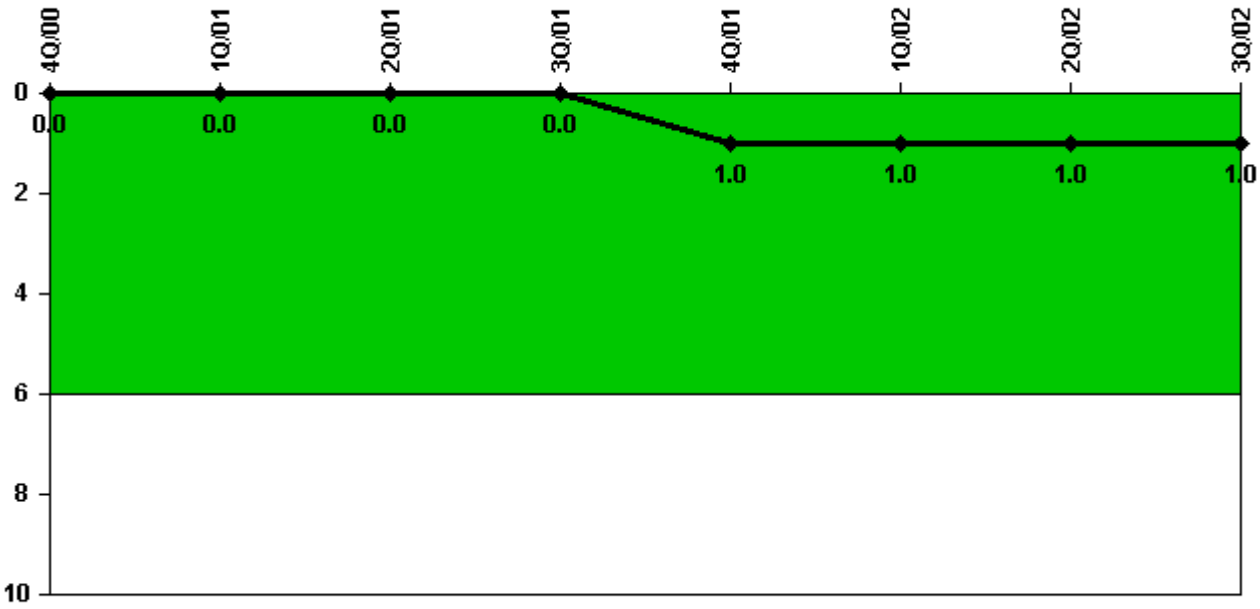
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
<b>Train 1</b>								
Planned unavailable hours	4.40	25.73	3.91	24.55	3.73	19.05	2.40	19.84
Unplanned unavailable hours	0	0	25.86	0	0	0	15.27	3.77
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	13.54	26.62	2.30	26.05	2.43	14.17	22.15	5.02
Unplanned unavailable hours	0	0	0	0	0	0	0	3.32
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

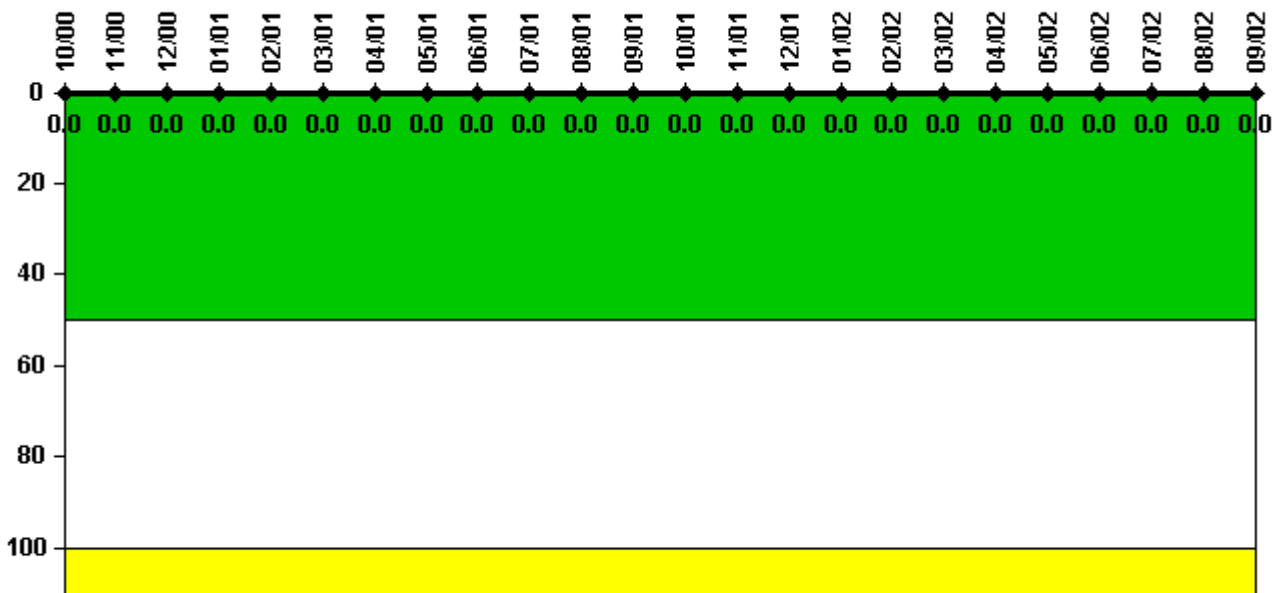
#### Notes

Safety System Functional Failures (BWR)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Safety System Functional Failures	0	0	0	0	1	0	0	0
Indicator value	0	0	0	0	1	1	1	1

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

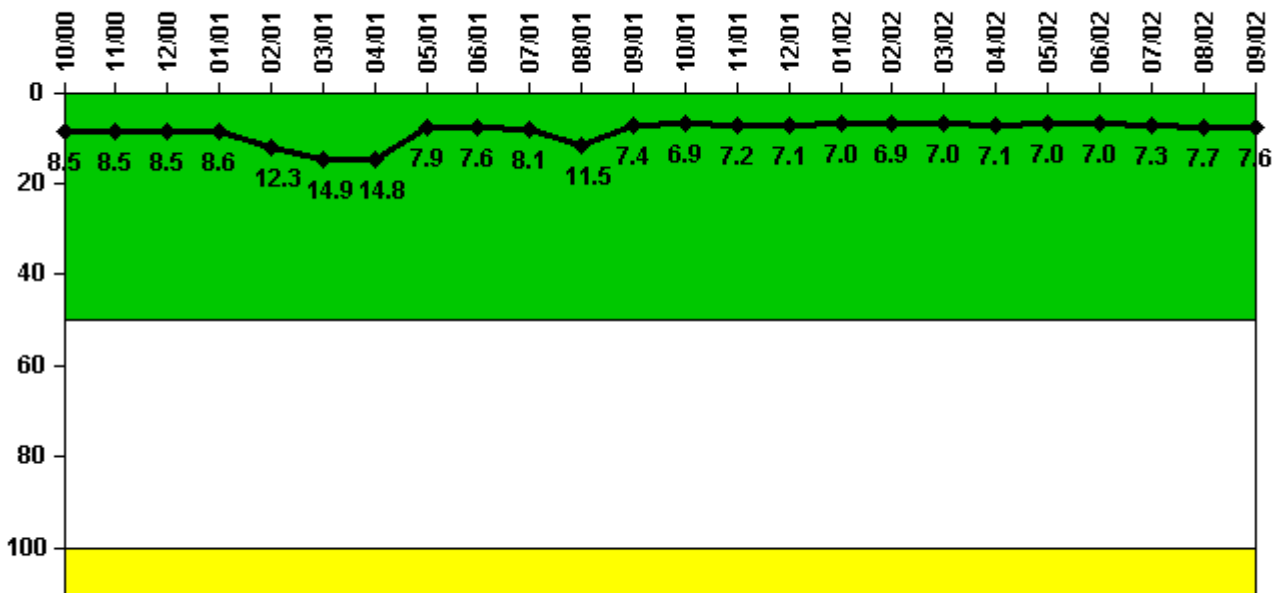
Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.000044	0.000053	0.000042	0.000053	0.000043	0.000042	0.000057	0.000030	0.000036	0.000030	0.000027	0.000033
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.000034	0.000026	0.000030	0.000034	0.000044	0.000030	0.000028	0.000028	0.000030	0.000027	0.000029	0.000025
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**

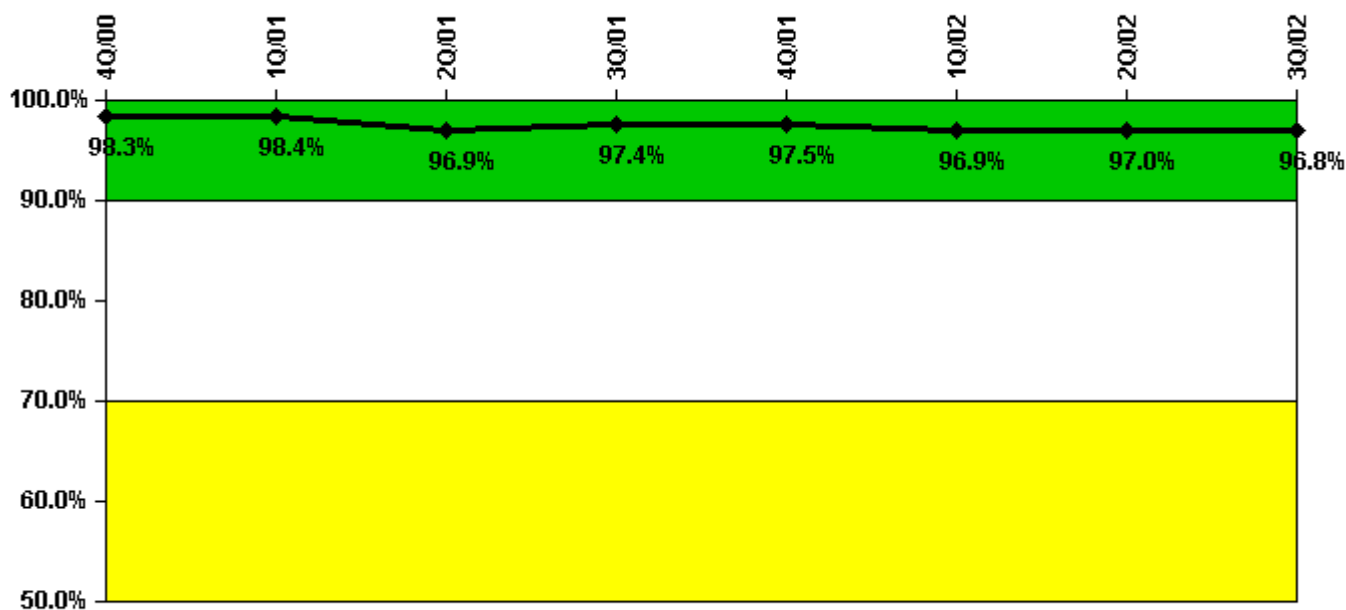
Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	2.560	2.550	2.550	2.570	3.700	4.470	4.430	2.380	2.280	2.440	3.440	2.220
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.5	8.5	8.5	8.6	12.3	14.9	14.8	7.9	7.6	8.1	11.5	7.4

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	2.080	2.150	2.140	2.090	2.080	2.100	2.130	2.090	2.110	2.190	2.310	2.270
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	6.9	7.2	7.1	7.0	6.9	7.0	7.1	7.0	7.0	7.3	7.7	7.6

Licensee Comments: none

### Drill/Exercise Performance



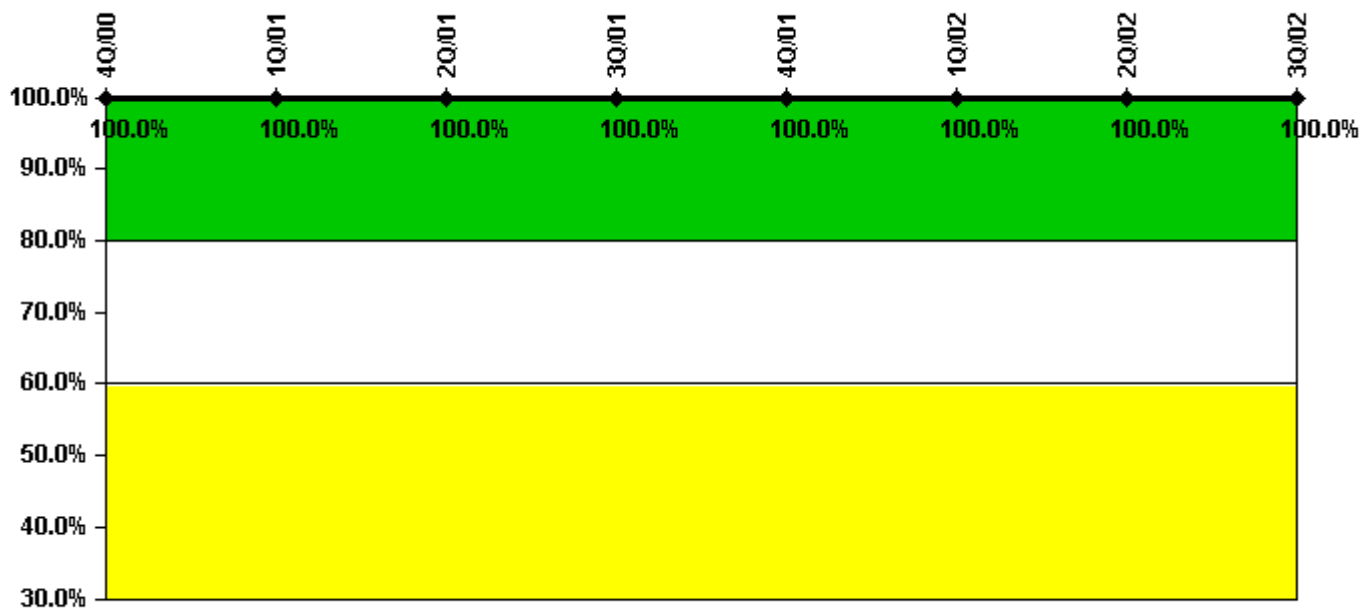
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful opportunities	34.0	30.0	20.0	39.0	28.0	32.0	18.0	10.0
Total opportunities	34.0	30.0	24.0	39.0	28.0	35.0	18.0	10.0
<b>Indicator value</b>	<b>98.3%</b>	<b>98.4%</b>	<b>96.9%</b>	<b>97.4%</b>	<b>97.5%</b>	<b>96.9%</b>	<b>97.0%</b>	<b>96.8%</b>

Licensee Comments: none

### ERO Drill Participation



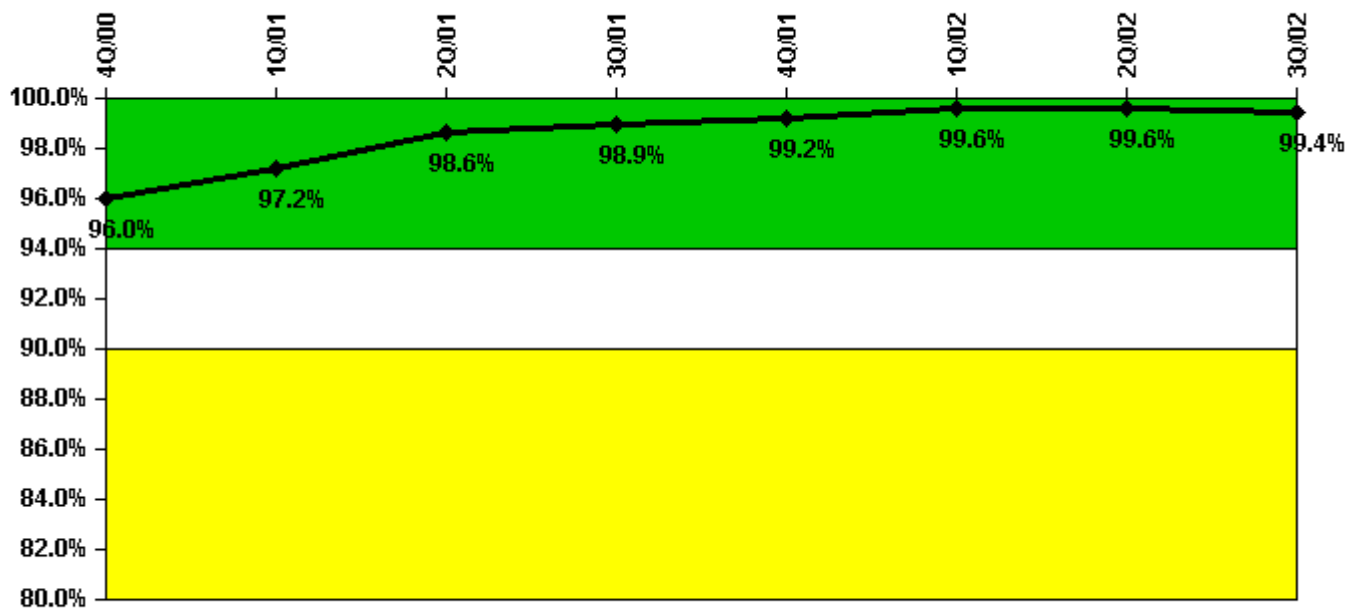
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Participating Key personnel	79.0	83.0	85.0	88.0	92.0	84.0	80.0	77.0
Total Key personnel	79.0	83.0	85.0	88.0	92.0	84.0	80.0	77.0
<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



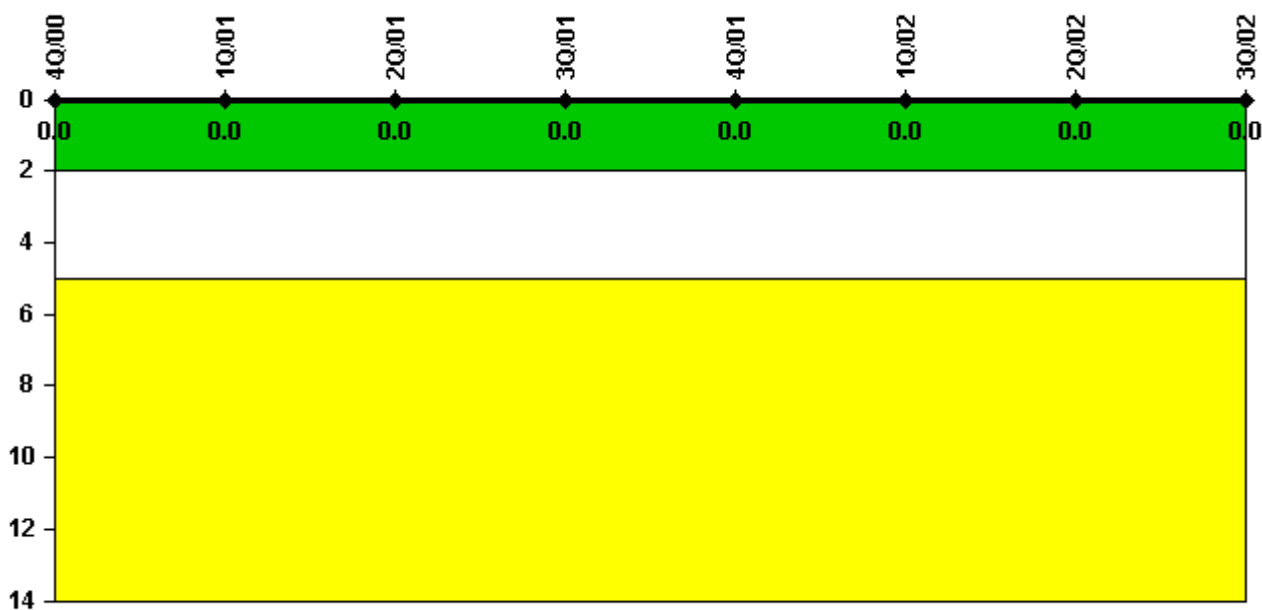
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful siren-tests	212	255	128	128	129	129	127	127
Total sirens-tests	215	258	129	129	129	129	128	129
<b>Indicator value</b>	<b>96.0%</b>	<b>97.2%</b>	<b>98.6%</b>	<b>98.9%</b>	<b>99.2%</b>	<b>99.6%</b>	<b>99.6%</b>	<b>99.4%</b>

Licensee Comments: none

### Occupational Exposure Control Effectiveness



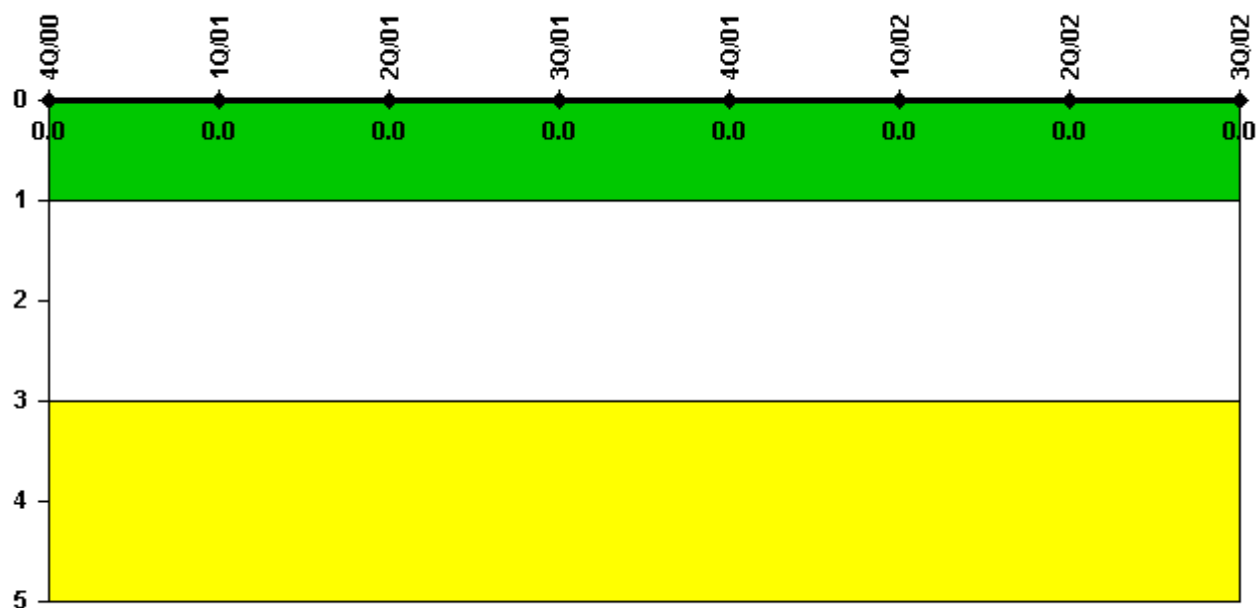
Thresholds: White > 2.0 Yellow > 5.0

**Notes**

Occupational Exposure Control Effectiveness	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
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



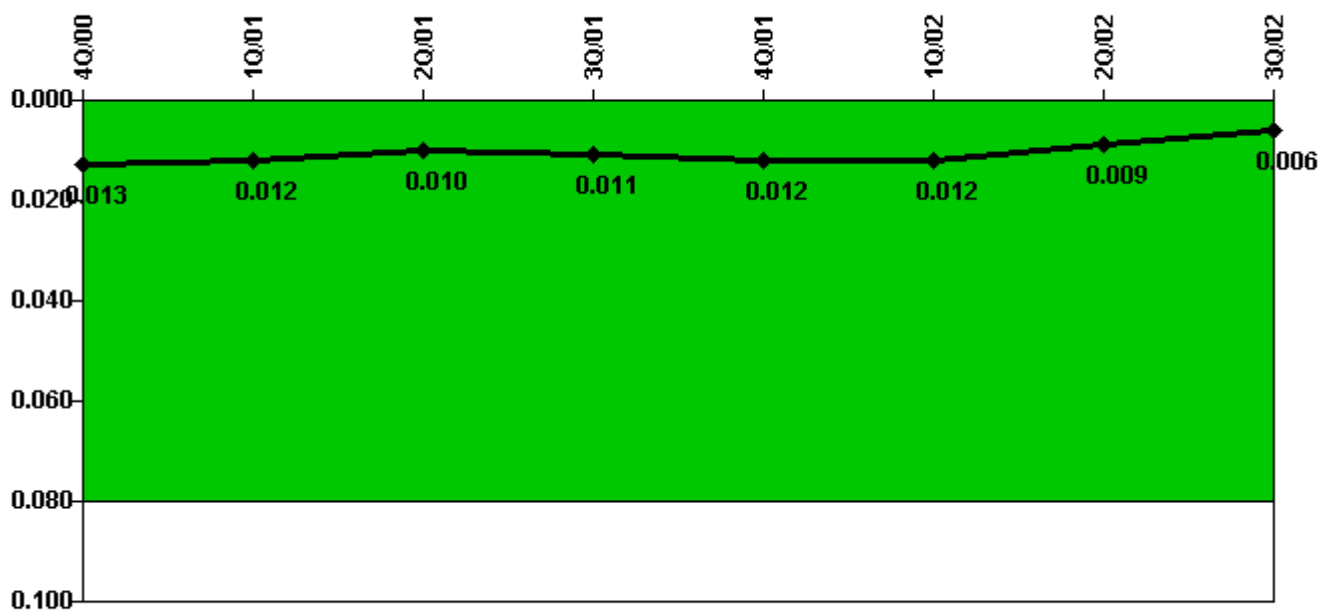
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



Thresholds: White > 0.080

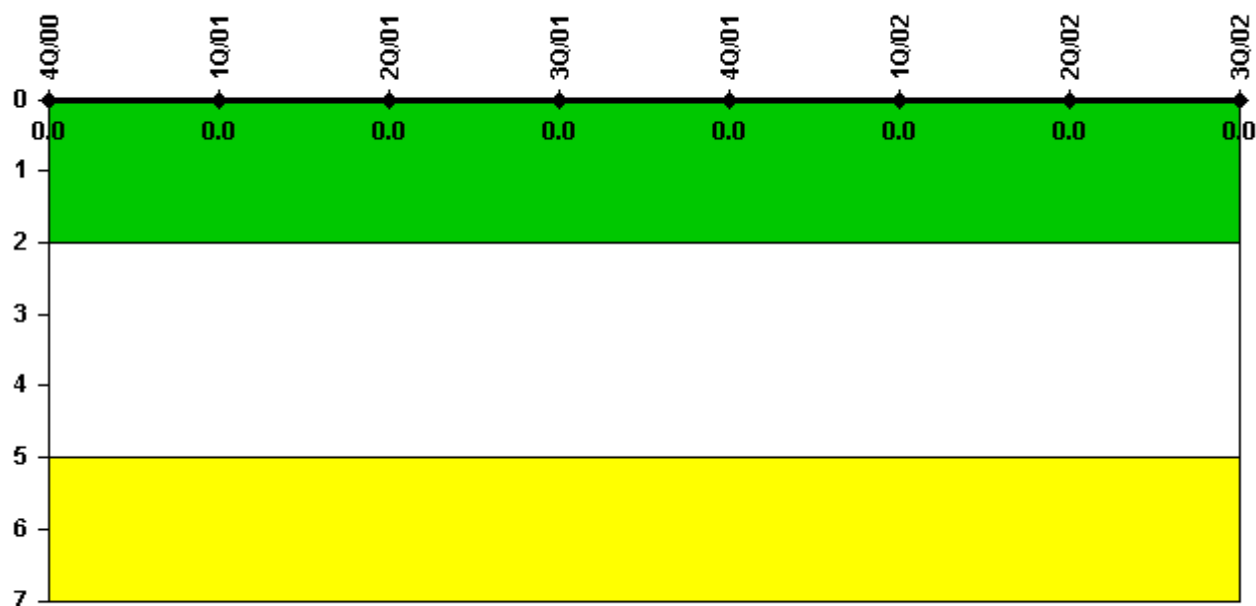
#### Notes

Protected Area Security Performance Index	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
IDS compensatory hours	6.90	50.50	118.50	10.50	22.70	55.20	24.00	16.30
CCTV compensatory hours	1.2	4.7	0	65.2	1.3	0	19.8	8.2
IDS normalization factor	1.60	1.60	1.60	1.50	1.50	1.50	1.50	1.50
CCTV normalization factor	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0
<b>Index Value</b>	<b>0.013</b>	<b>0.012</b>	<b>0.010</b>	<b>0.011</b>	<b>0.012</b>	<b>0.012</b>	<b>0.009</b>	<b>0.006</b>

Licensee Comments: none



### Personnel Screening Program



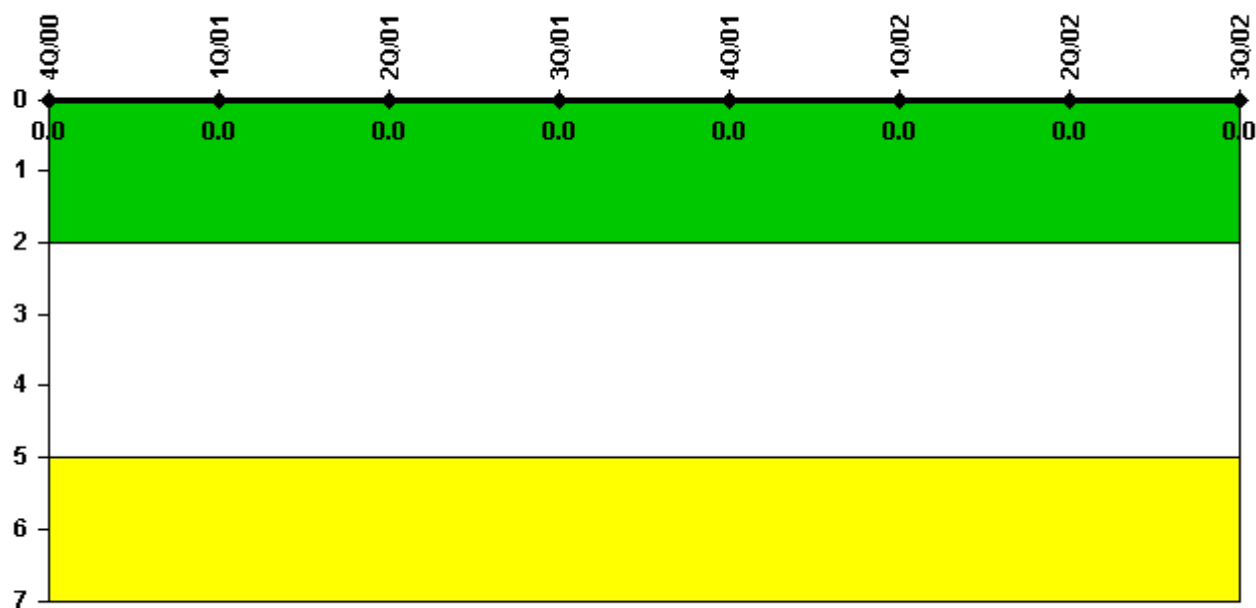
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Program failures	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

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Program Failures	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

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

Last Modified: October 22, 2002

# Grand Gulf 1

## 4Q/2002 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



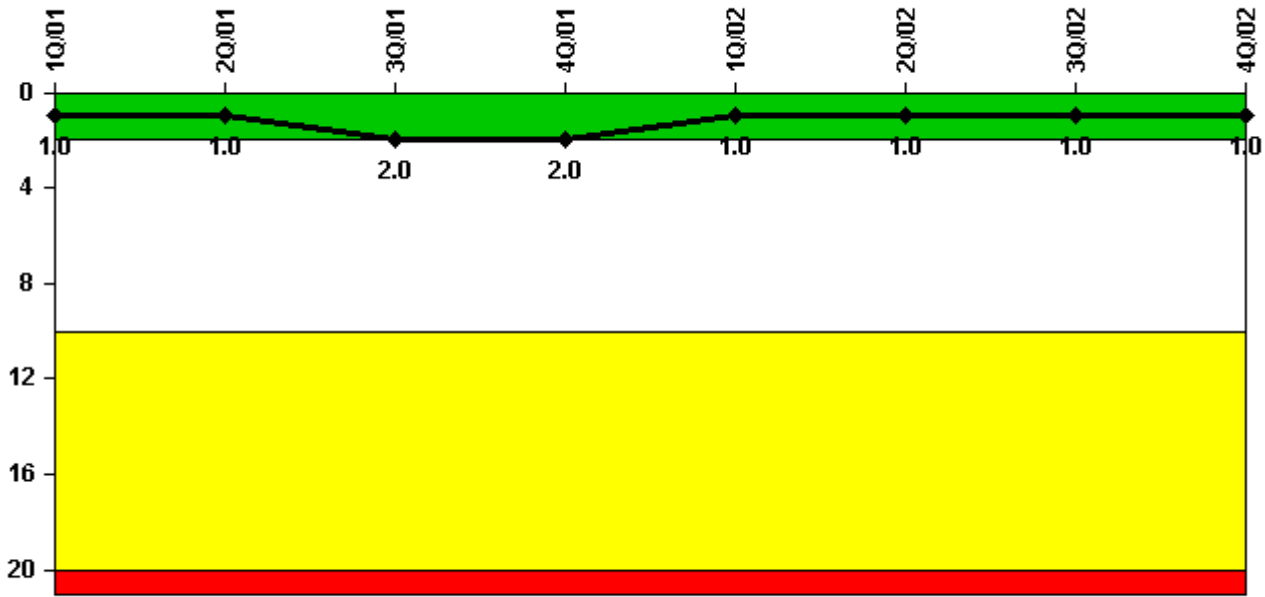
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned scrams	0	0	1.0	0	0	1.0	0	0
Critical hours	2160.0	1695.3	2083.6	2209.0	2160.0	2132.2	1796.0	2109.0
<b>Indicator value</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



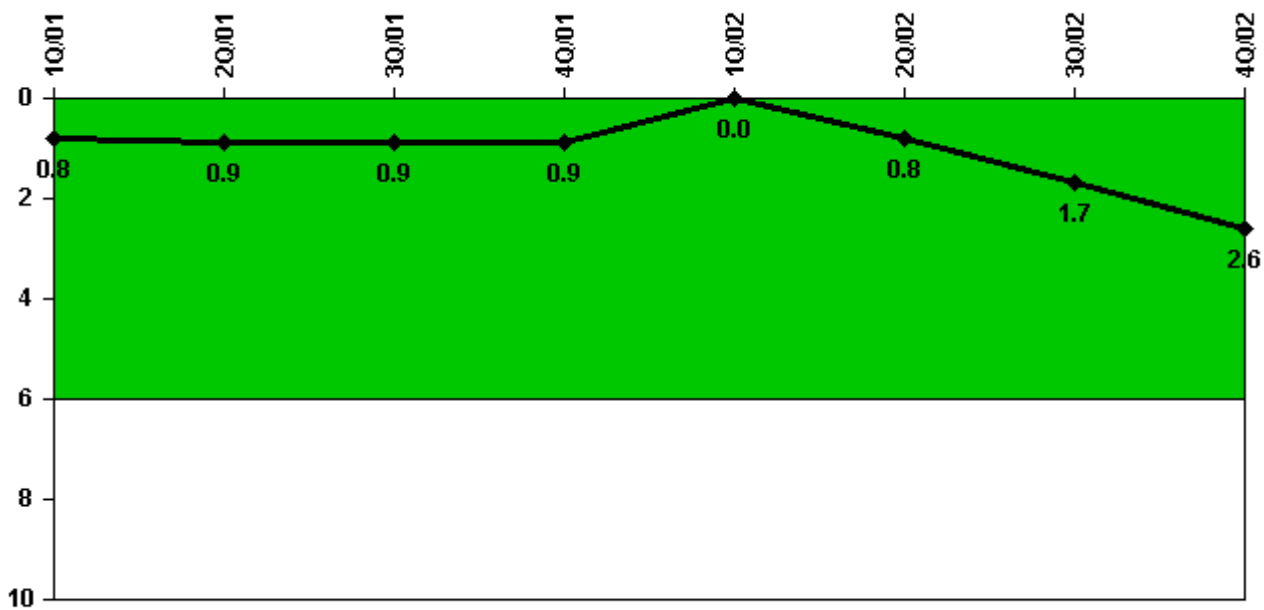
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Scrams	0	0	1.0	0	0	0	0	0
<b>Indicator value</b>	<b>1.0</b>	<b>1.0</b>	<b>2.0</b>	<b>2.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



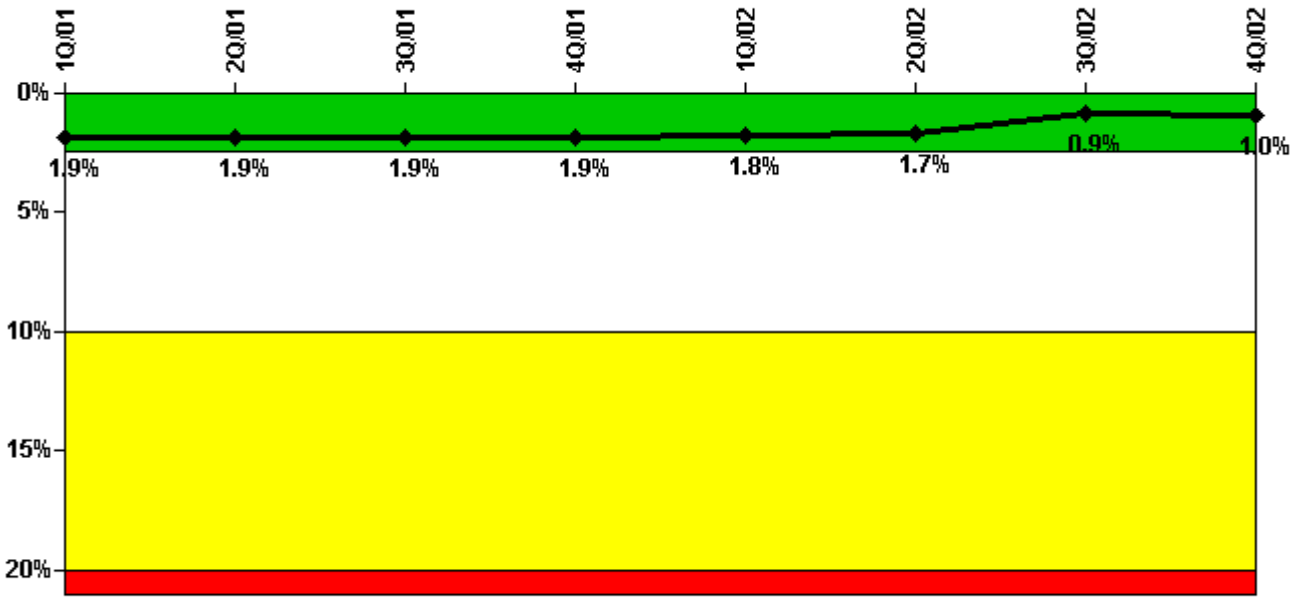
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned power changes	1.0	0	0	0	0	1.0	1.0	1.0
Critical hours	2160.0	1695.3	2083.6	2209.0	2160.0	2132.2	1796.0	2109.0
<b>Indicator value</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>	<b>0.8</b>	<b>1.7</b>	<b>2.6</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
<b>Train 1</b>								
Planned unavailable hours	39.52	4.29	33.44	3.29	4.86	0.95	0.69	7.99
Unplanned unavailable hours	40.25	0	0	0	0	0	11.45	41.38
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	26.95	1.67	8.28	2.68	79.24	8.16	1.56	8.28
Unplanned unavailable hours	13.16	4.20	0	1.67	2.00	1.08	0	8.88
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 3</b>								
Planned unavailable hours	4.17	2.81	3.23	2.73	23.33	0.85	0.46	1.22
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.8%</b>	<b>1.7%</b>	<b>0.9%</b>	<b>1.0%</b>

Licensee Comments:

1Q/02: 1st Qtr 2002 indicator values were changed to include 2 hours of unplanned unavailability in Train 2. The Emergency AC Power System remains within the green performance indicator band.

### Safety System Unavailability, High Pressure Injection System (HPCS)



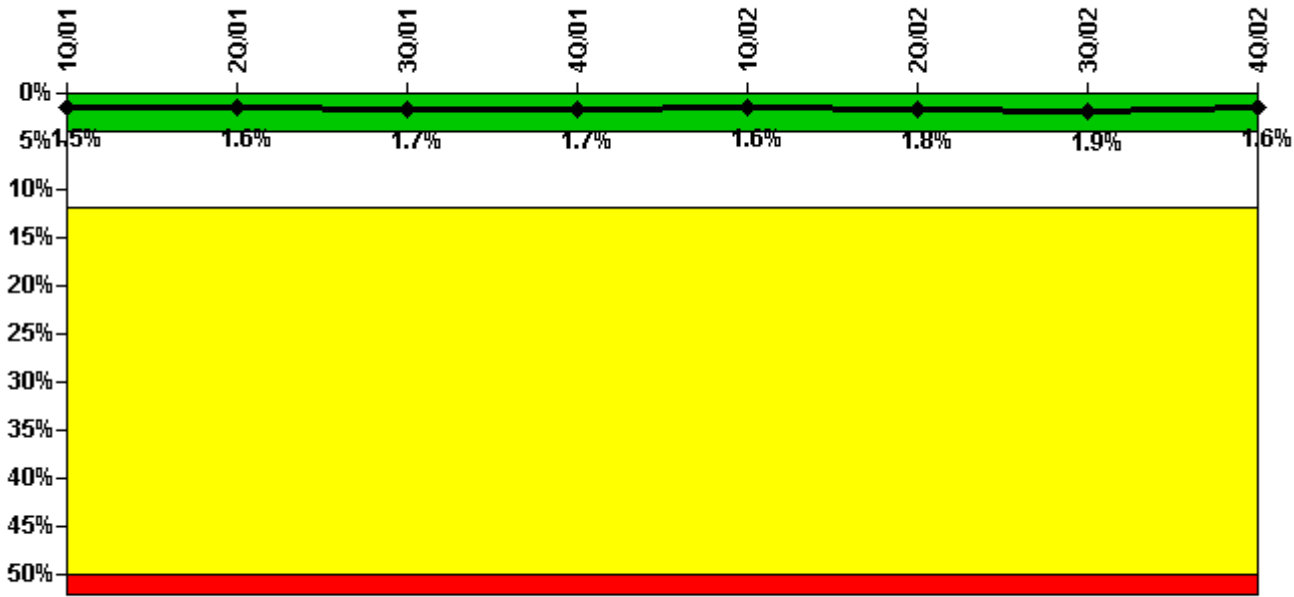
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
<b>Train 1</b>								
Planned unavailable hours	65.85	2.69	1.86	23.35	32.88	2.05	18.56	2.08
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1695.30	2083.60	2209.00	2160.00	2132.15	1796.00	2109.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

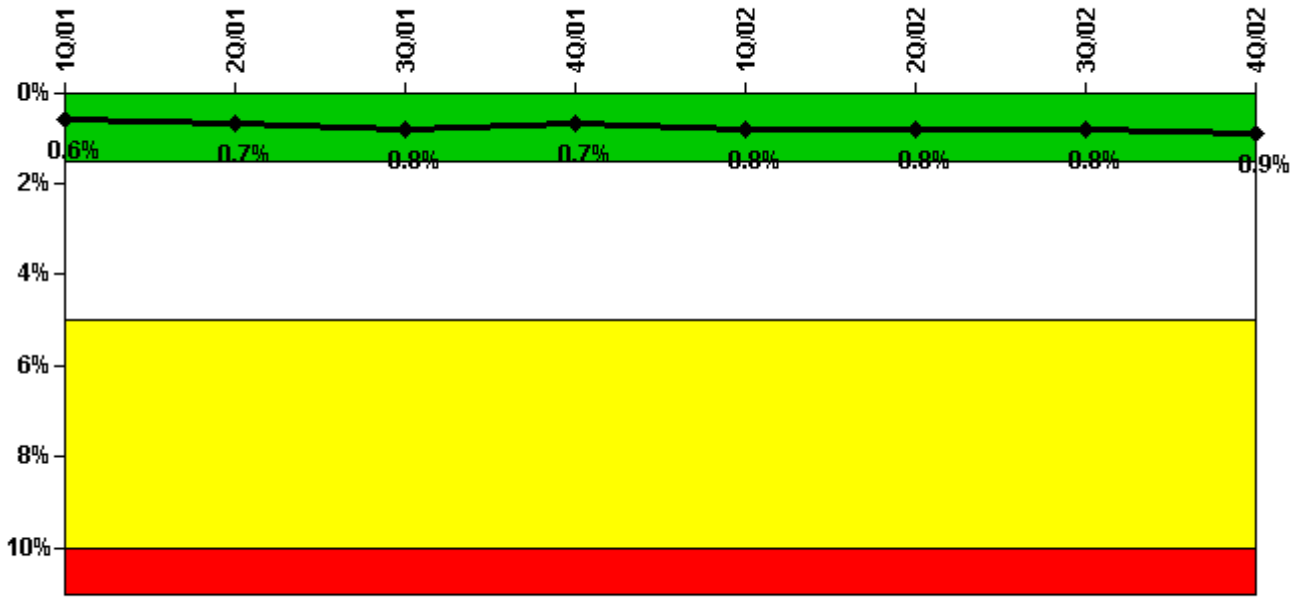
#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
<b>Train 1</b>								
Planned unavailable hours	22.01	30.75	6.59	26.98	2.84	69.56	6.43	20.13
Unplanned unavailable hours	0	5.10	8.00	0	0	11.63	0	3.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1695.30	2083.60	2209.00	2160.00	2132.15	1796.00	2109.00
<b>Indicator value</b>	<b>1.5%</b>	<b>1.6%</b>	<b>1.7%</b>	<b>1.7%</b>	<b>1.6%</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.6%</b>

Licensee Comments: none



### Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

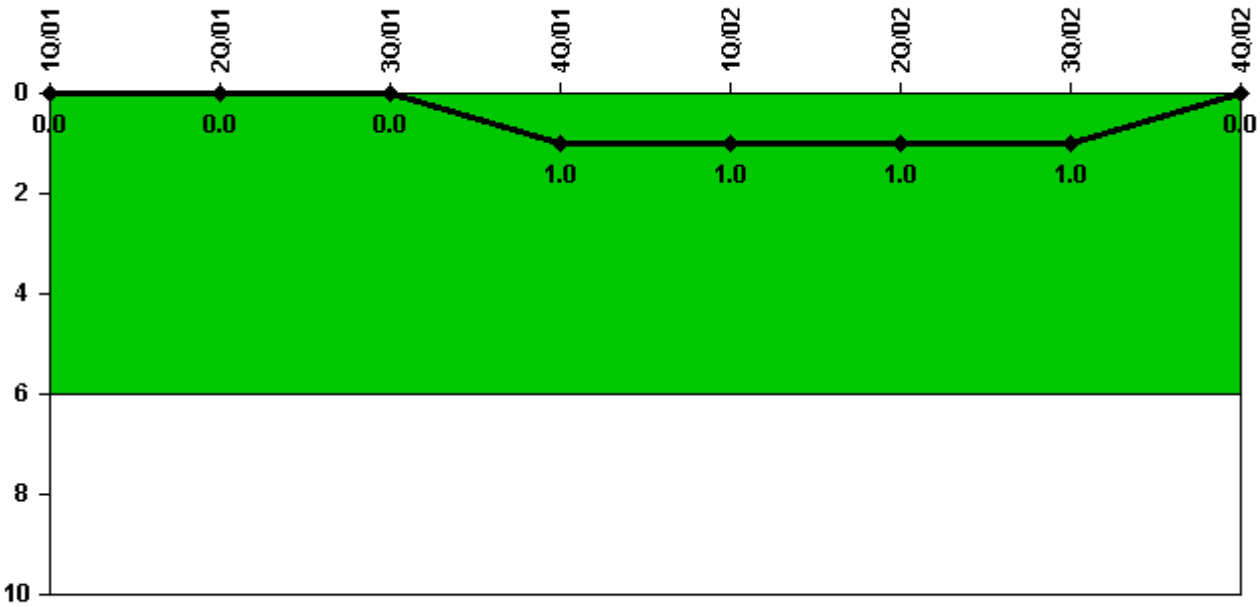
**Notes**

Safety System Unavailability, Residual Heat Removal System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
<b>Train 1</b>								
Planned unavailable hours	25.73	3.91	24.55	3.73	19.05	2.40	19.84	14.33
Unplanned unavailable hours	0	25.86	0	0	0	15.27	3.77	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	26.62	2.30	26.05	2.43	14.17	22.15	5.02	43.58
Unplanned unavailable hours	0	0	0	0	2.00	0	3.32	12.88
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.9%</b>

Licensee Comments:

1Q/02: 1st Qtr 2002 indicator values were changed to include 2 hours of unplanned unavailability in Train 2. The Residual Heat Removal System remains within the green performance indicator band.

### Safety System Functional Failures (BWR)



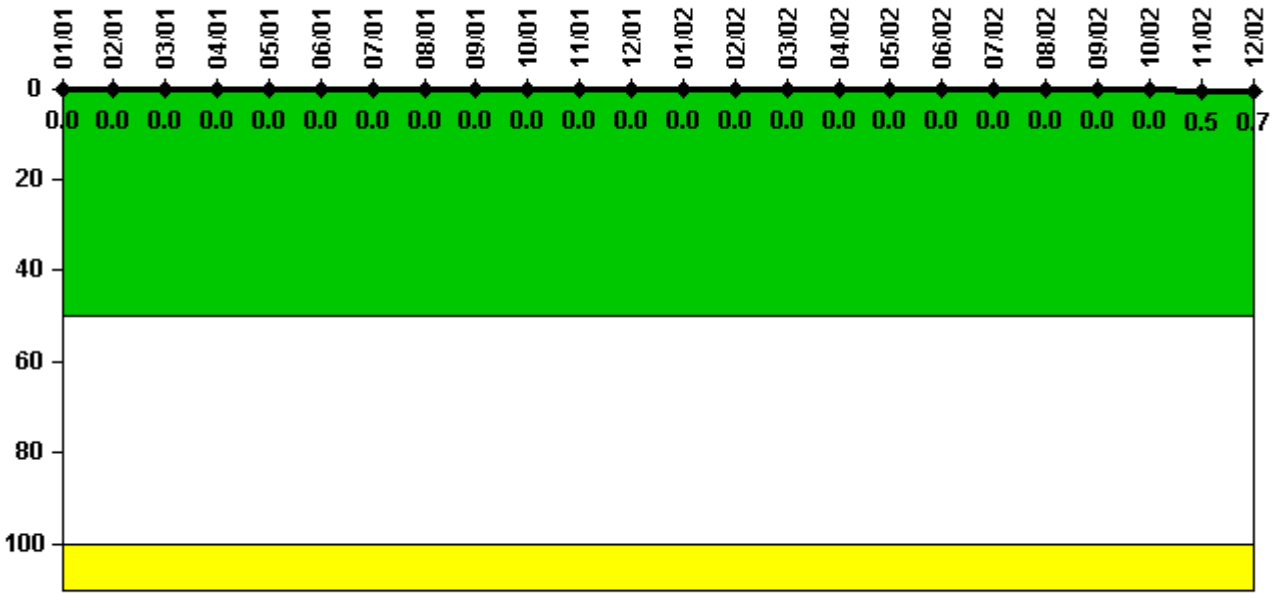
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	0	0	0	1	1	1	1	0

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

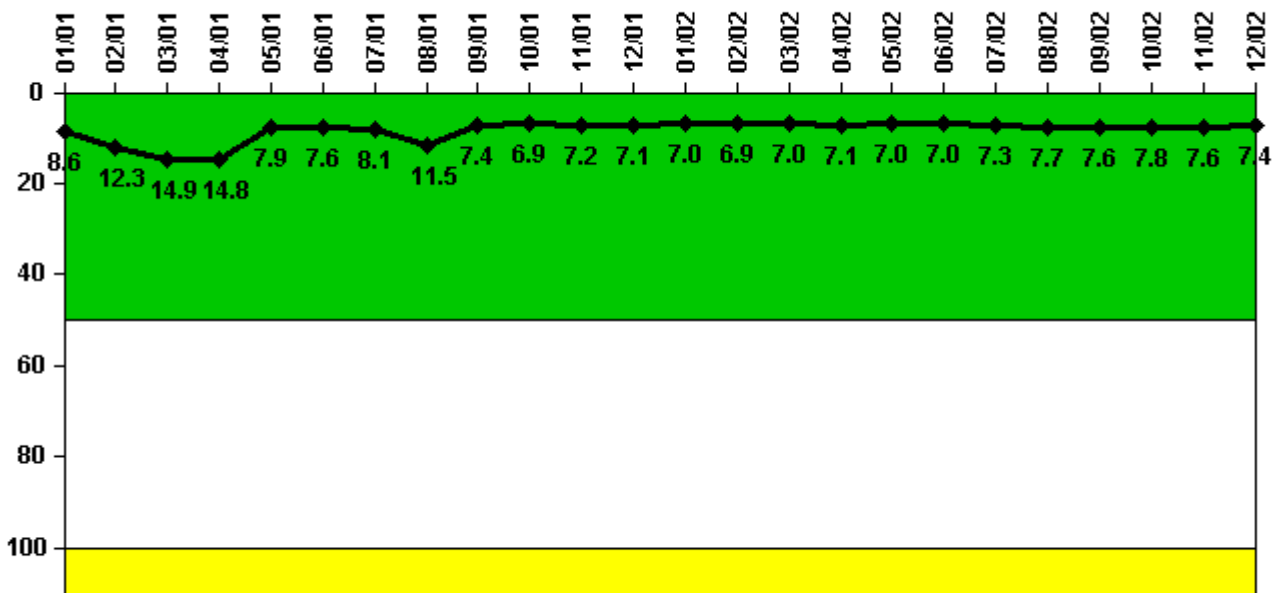
Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000053	0.000043	0.000042	0.000057	0.000030	0.000036	0.000030	0.000027	0.000033	0.000034	0.000026	0.000030
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum activity	0.000034	0.000044	0.000030	0.000028	0.000028	0.000030	0.000027	0.000029	0.000025	0.000015	0.001080	0.001440
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	0.5	0.7

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

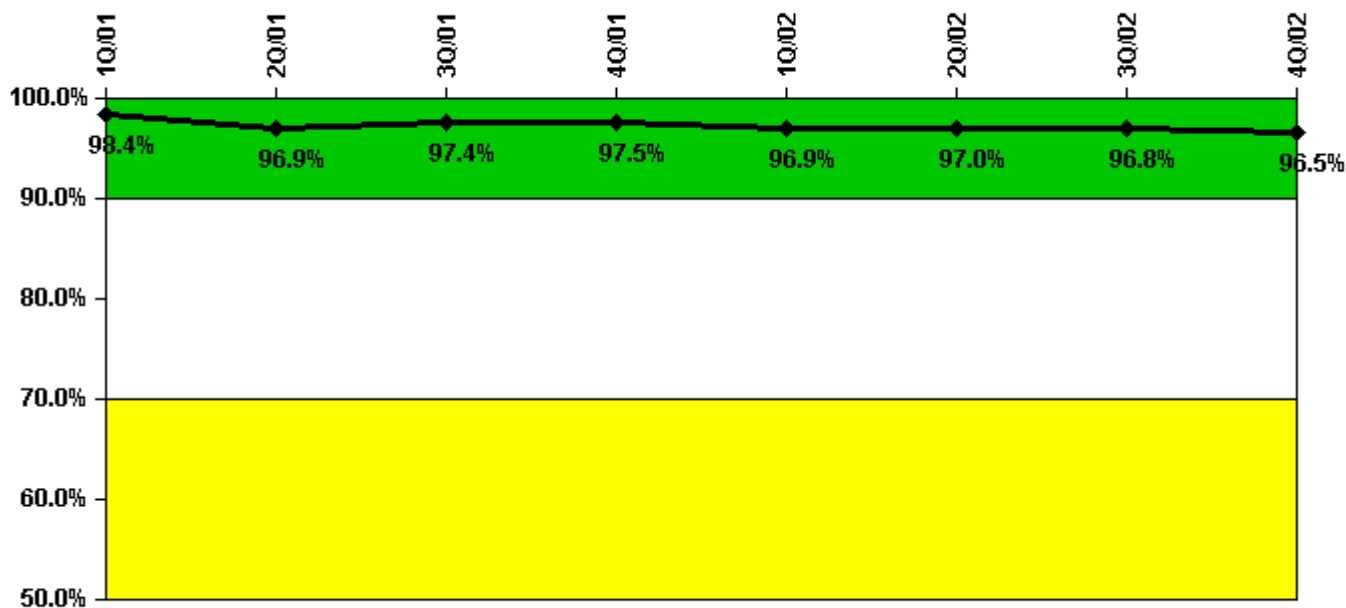
Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	2.570	3.700	4.470	4.430	2.380	2.280	2.440	3.440	2.220	2.080	2.150	2.140
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.6	12.3	14.9	14.8	7.9	7.6	8.1	11.5	7.4	6.9	7.2	7.1

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	2.090	2.080	2.100	2.130	2.090	2.110	2.190	2.310	2.270	2.330	2.290	2.210
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.0	6.9	7.0	7.1	7.0	7.0	7.3	7.7	7.6	7.8	7.6	7.4

Licensee Comments: none

### Drill/Exercise Performance



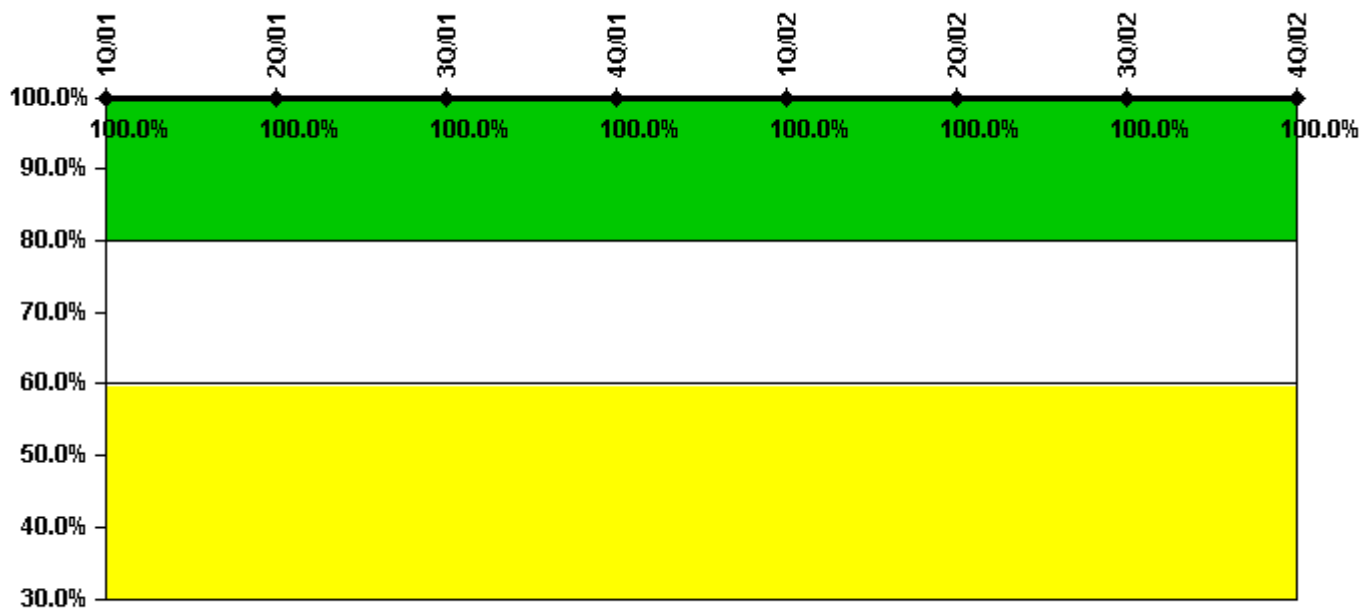
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	30.0	20.0	39.0	28.0	32.0	18.0	10.0	18.0
Total opportunities	30.0	24.0	39.0	28.0	35.0	18.0	10.0	18.0
<b>Indicator value</b>	<b>98.4%</b>	<b>96.9%</b>	<b>97.4%</b>	<b>97.5%</b>	<b>96.9%</b>	<b>97.0%</b>	<b>96.8%</b>	<b>96.5%</b>

Licensee Comments: none

### ERO Drill Participation



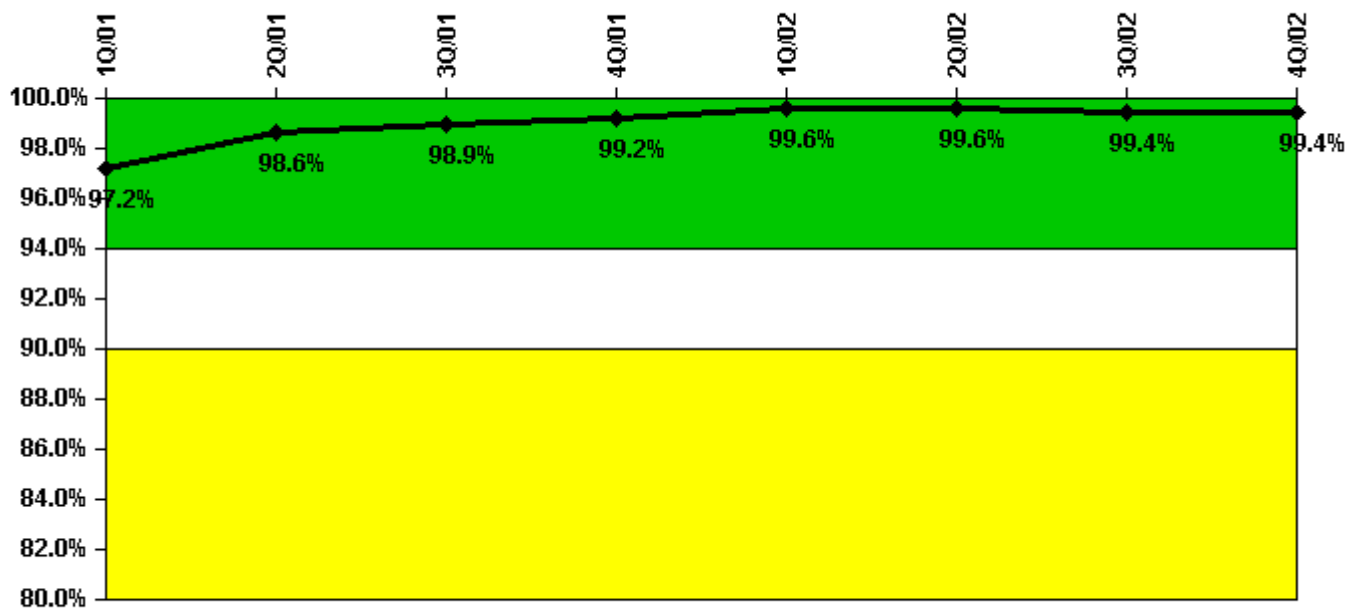
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Participating Key personnel	83.0	85.0	88.0	92.0	84.0	80.0	77.0	81.0
Total Key personnel	83.0	85.0	88.0	92.0	84.0	80.0	77.0	81.0
<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



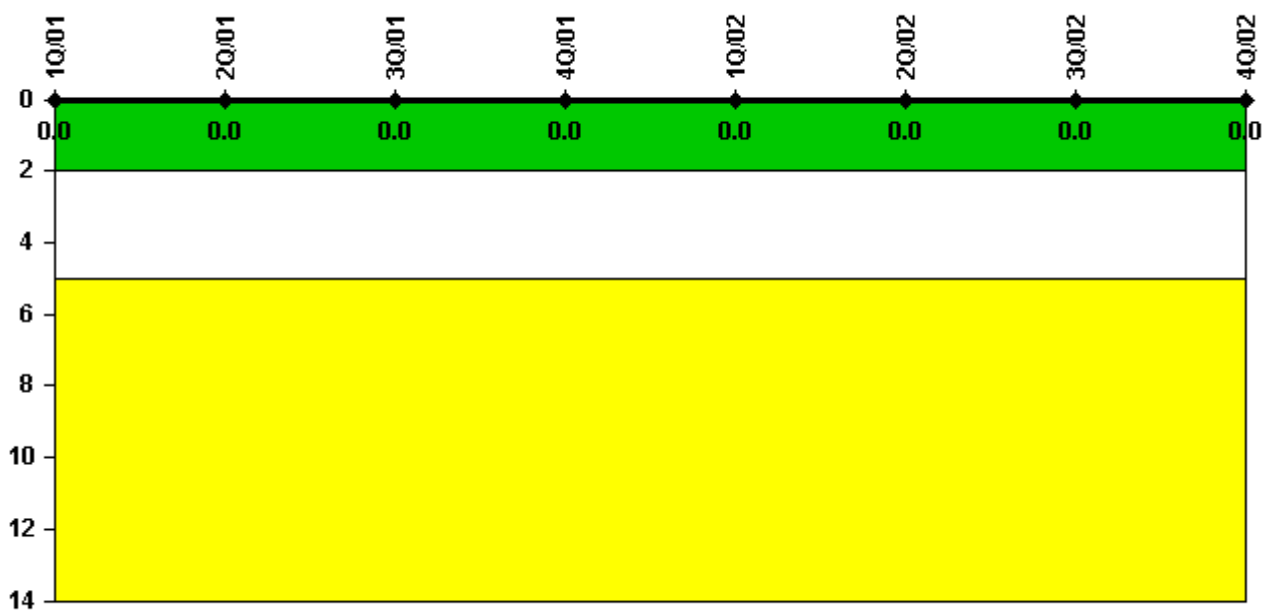
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful siren-tests	255	128	128	129	129	127	127	129
Total sirens-tests	258	129	129	129	129	128	129	129
<b>Indicator value</b>	<b>97.2%</b>	<b>98.6%</b>	<b>98.9%</b>	<b>99.2%</b>	<b>99.6%</b>	<b>99.6%</b>	<b>99.4%</b>	<b>99.4%</b>

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

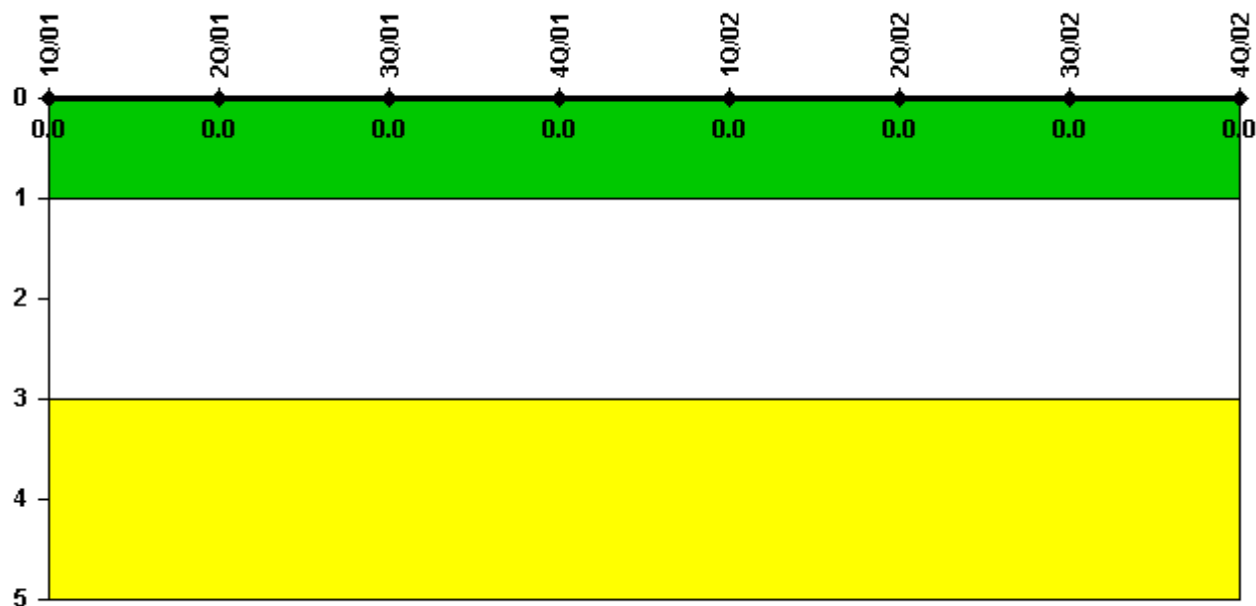
#### Notes

Occupational Exposure Control Effectiveness	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
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



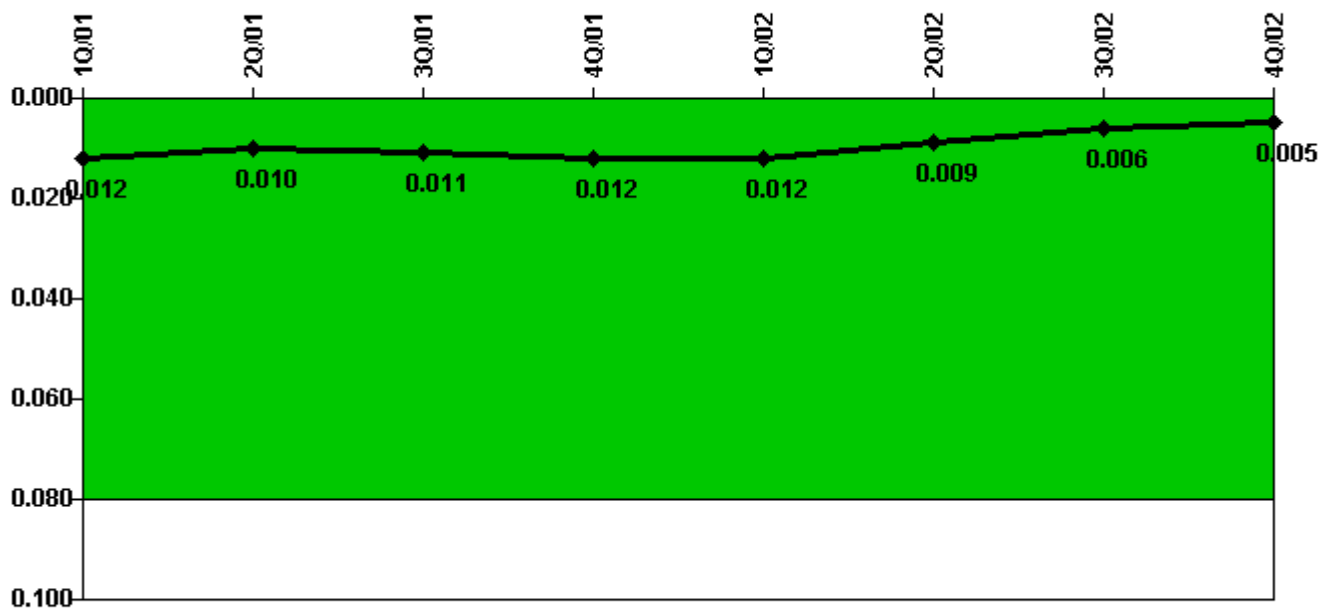
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
RETS/ODCM 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

### Protected Area Security Performance Index



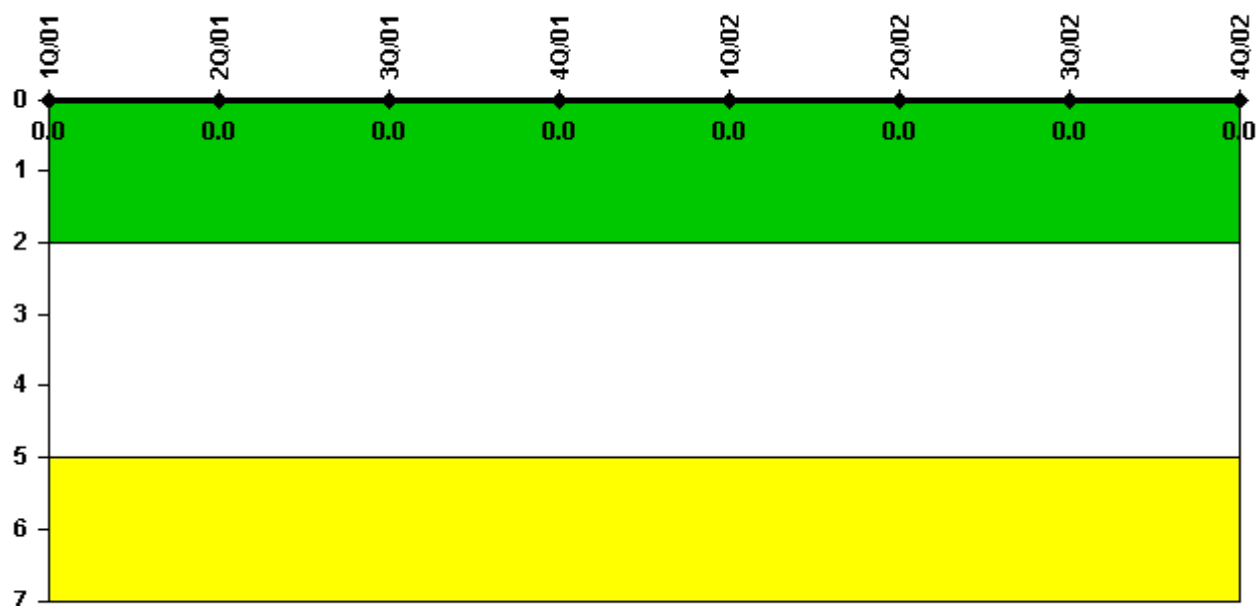
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
IDS compensatory hours	50.50	118.50	10.50	22.70	55.20	24.00	16.30	6.60
CCTV compensatory hours	4.7	0	65.2	1.3	0	19.8	8.2	0
IDS normalization factor	1.60	1.60	1.50	1.50	1.50	1.50	1.50	1.50
CCTV normalization factor	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
<b>Index Value</b>	<b>0.012</b>	<b>0.010</b>	<b>0.011</b>	<b>0.012</b>	<b>0.012</b>	<b>0.009</b>	<b>0.006</b>	<b>0.005</b>

Licensee Comments: none

### Personnel Screening Program



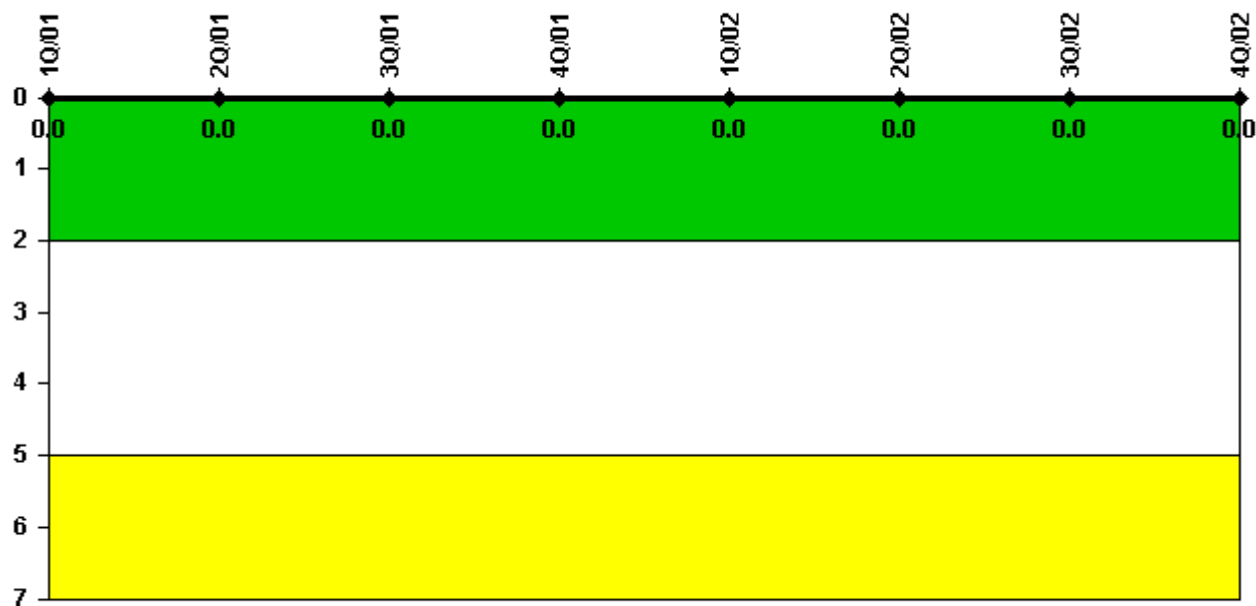
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Program failures	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

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

### Notes

FFD/Personnel Reliability	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Program Failures	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

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

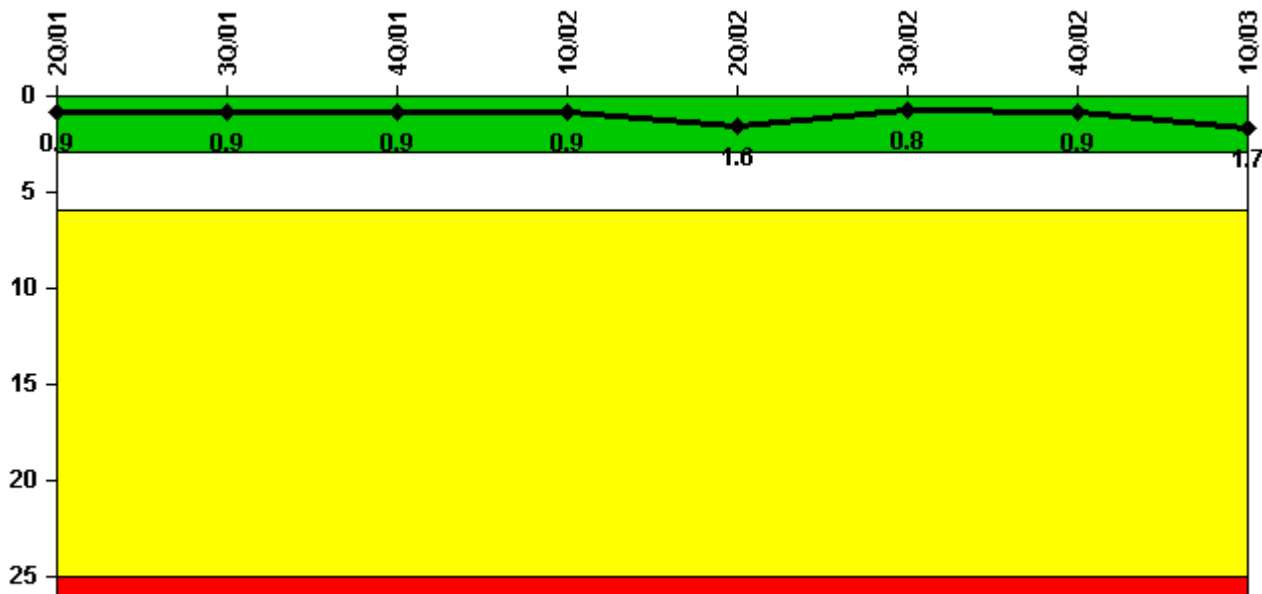
Last Modified: January 30, 2003

# Grand Gulf 1

## 1Q/2003 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



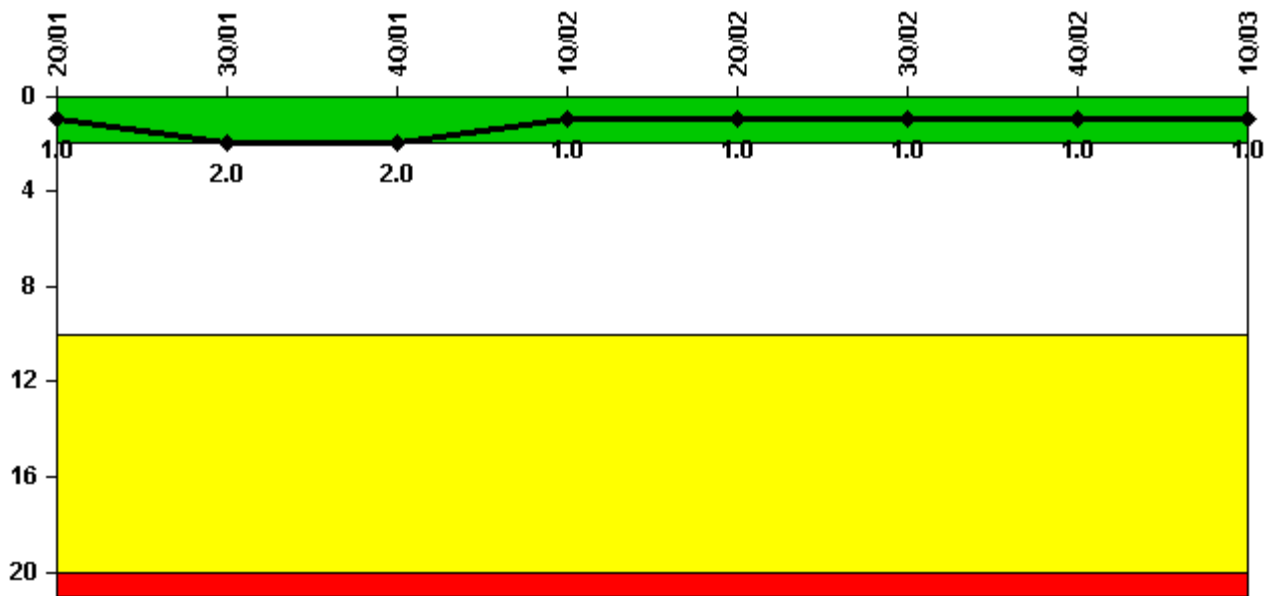
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	1.0	0	0	1.0	0	0	1.0
Critical hours	1695.3	2083.6	2209.0	2160.0	2132.2	1796.0	2109.0	2133.6
<b>Indicator value</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>1.7</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



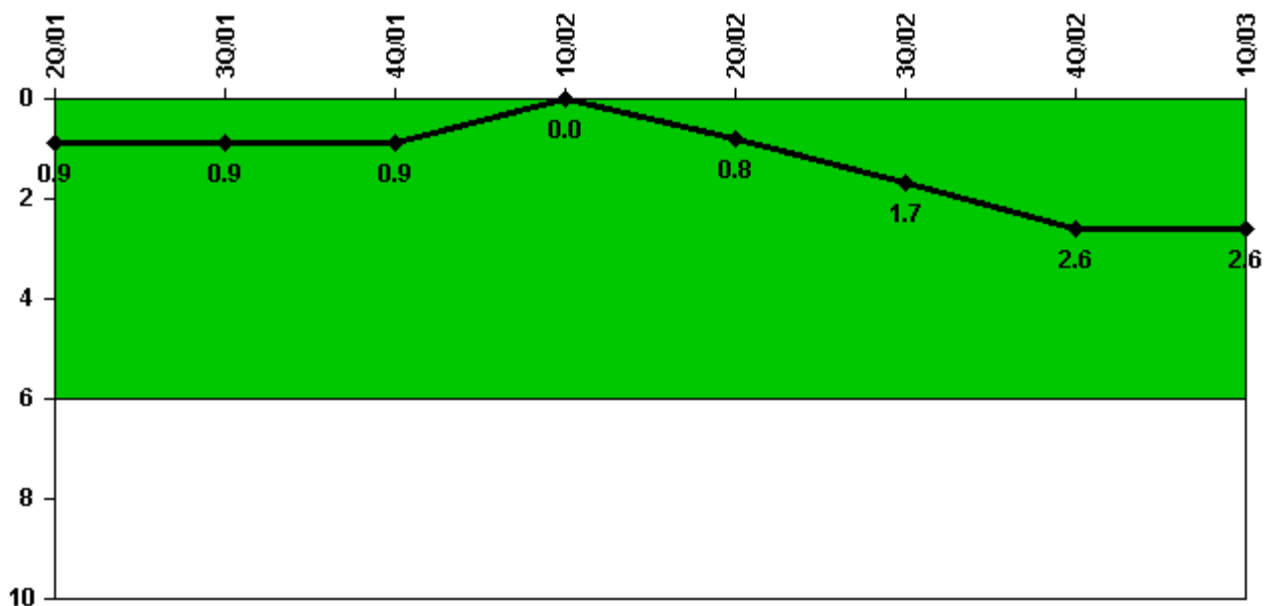
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Scrams	0	1.0	0	0	0	0	0	0
Indicator value	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



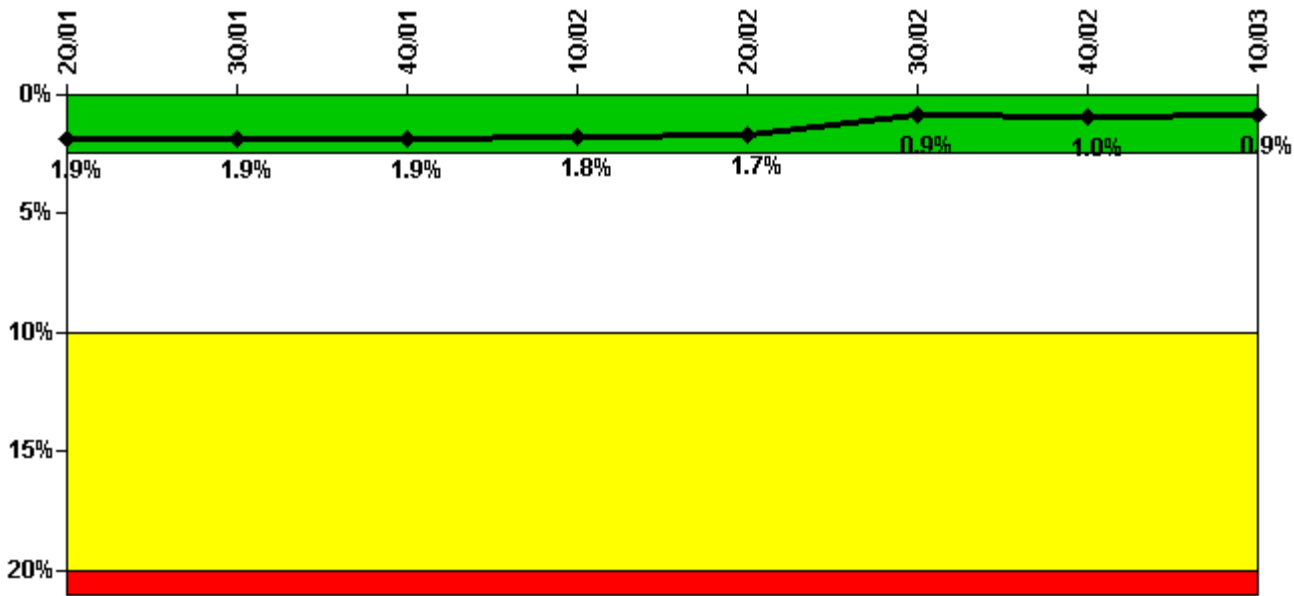
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned power changes	0	0	0	0	1.0	1.0	1.0	0
Critical hours	1695.3	2083.6	2209.0	2160.0	2132.2	1796.0	2109.0	2133.6
<b>Indicator value</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>	<b>0.8</b>	<b>1.7</b>	<b>2.6</b>	<b>2.6</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

**Notes**

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
<b>Train 1</b>								
Planned unavailable hours	4.29	33.44	3.29	4.86	0.95	0.69	7.99	6.58
Unplanned unavailable hours	0	0	0	0	0	11.45	41.38	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	1.67	8.28	2.68	79.24	8.16	1.56	8.28	25.25
Unplanned unavailable hours	4.20	0	1.67	2.00	1.08	0	8.88	1.18
Fault exposure hours	0	0	0	0	0	0	0	52.18
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Train 3</b>								
Planned unavailable hours	2.81	3.23	2.73	23.33	0.85	0.46	1.22	7.86
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.8%</b>	<b>1.7%</b>	<b>0.9%</b>	<b>1.0%</b>	<b>0.9%</b>

Licensee Comments:

1Q/03: SSW support system T/2 fault exposure hours of 52.18 affects EDG train 2.



### Safety System Unavailability, High Pressure Injection System (HPCS)



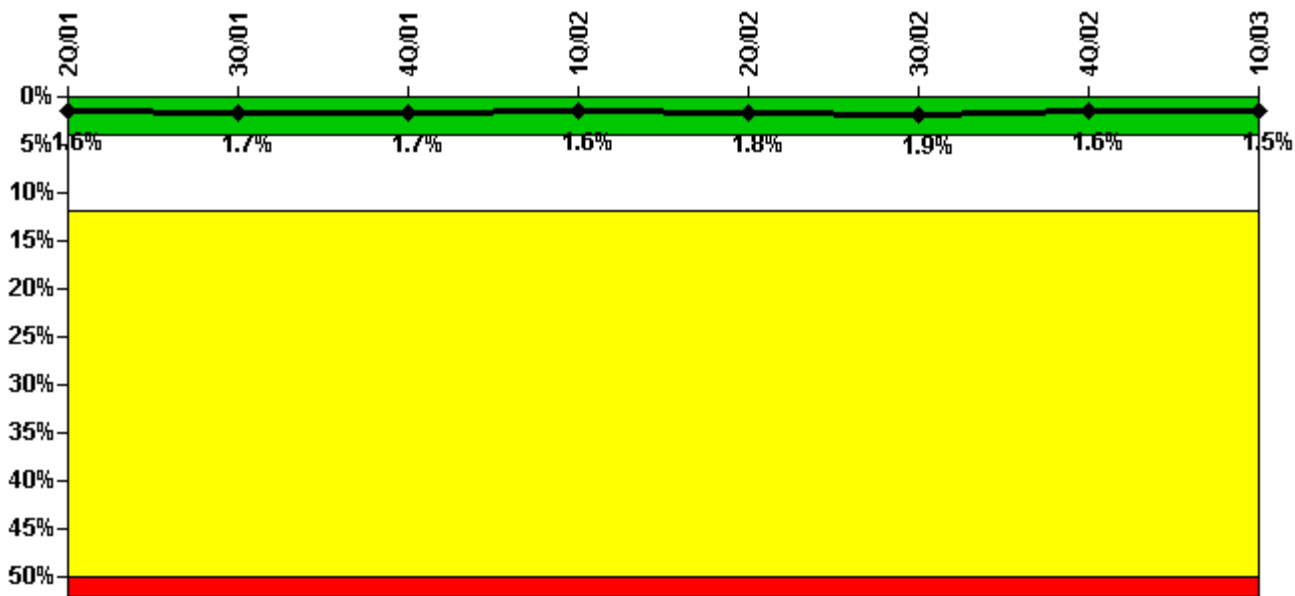
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
<b>Train 1</b>								
Planned unavailable hours	2.69	1.86	23.35	32.88	2.05	18.56	2.08	3.81
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1695.30	2083.60	2209.00	2160.00	2132.15	1796.00	2109.00	2133.60
<b>Indicator value</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



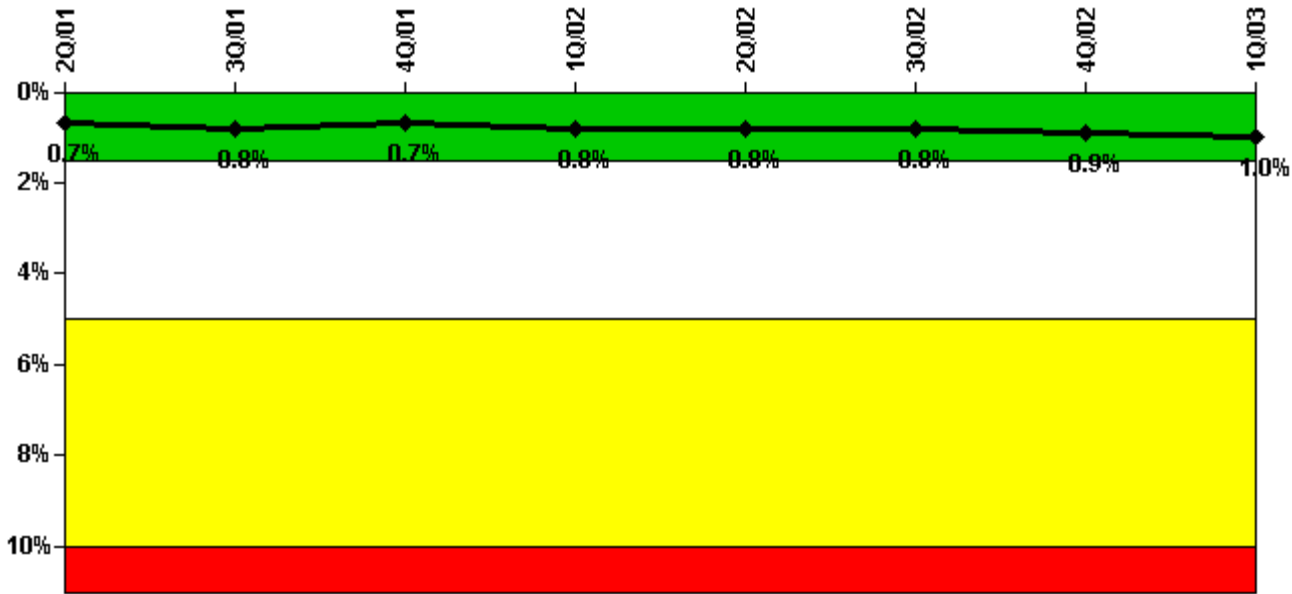
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

**Notes**

Safety System Unavailability, Heat Removal System (RCIC)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
<b>Train 1</b>								
Planned unavailable hours	30.75	6.59	26.98	2.84	69.56	6.43	20.13	5.51
Unplanned unavailable hours	5.10	8.00	0	0	11.63	0	3.42	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1695.30	2083.60	2209.00	2160.00	2132.15	1796.00	2109.00	2133.60
<b>Indicator value</b>	<b>1.6%</b>	<b>1.7%</b>	<b>1.7%</b>	<b>1.6%</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.6%</b>	<b>1.5%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

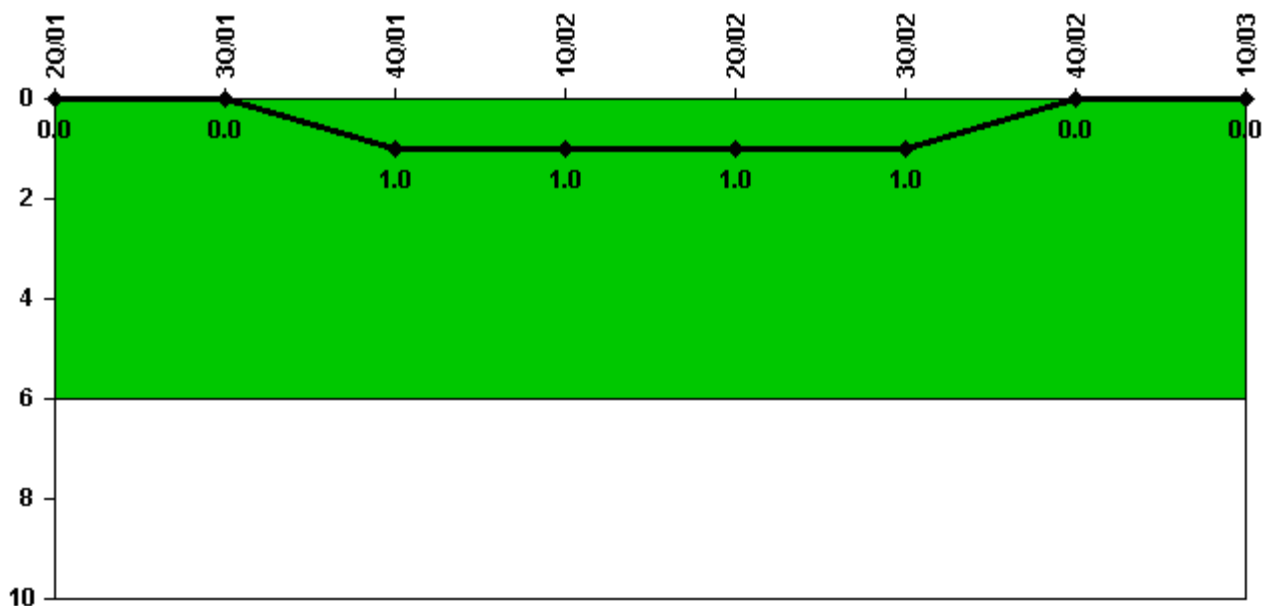
Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
<b>Train 1</b>								
Planned unavailable hours	3.91	24.55	3.73	19.05	2.40	19.84	14.33	12.69
Unplanned unavailable hours	25.86	0	0	0	15.27	3.77	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	2.30	26.05	2.43	14.17	22.15	5.02	43.58	16.88
Unplanned unavailable hours	0	0	0	2.00	0	3.32	12.88	1.12
Fault exposure hours	0	0	0	0	0	0	0	52.18
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>1.0%</b>

Licensee Comments:

1Q/03: SSW support system T/2 fault exposure hours of 52.18 affects RHR train 2.

### Safety System Functional Failures (BWR)



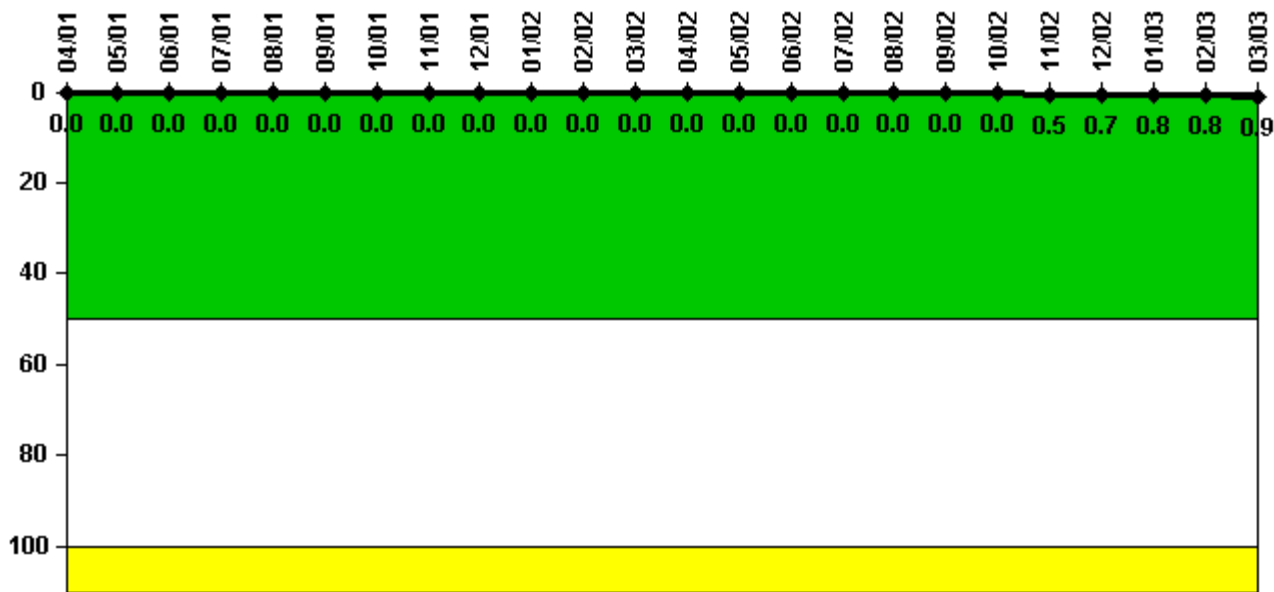
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

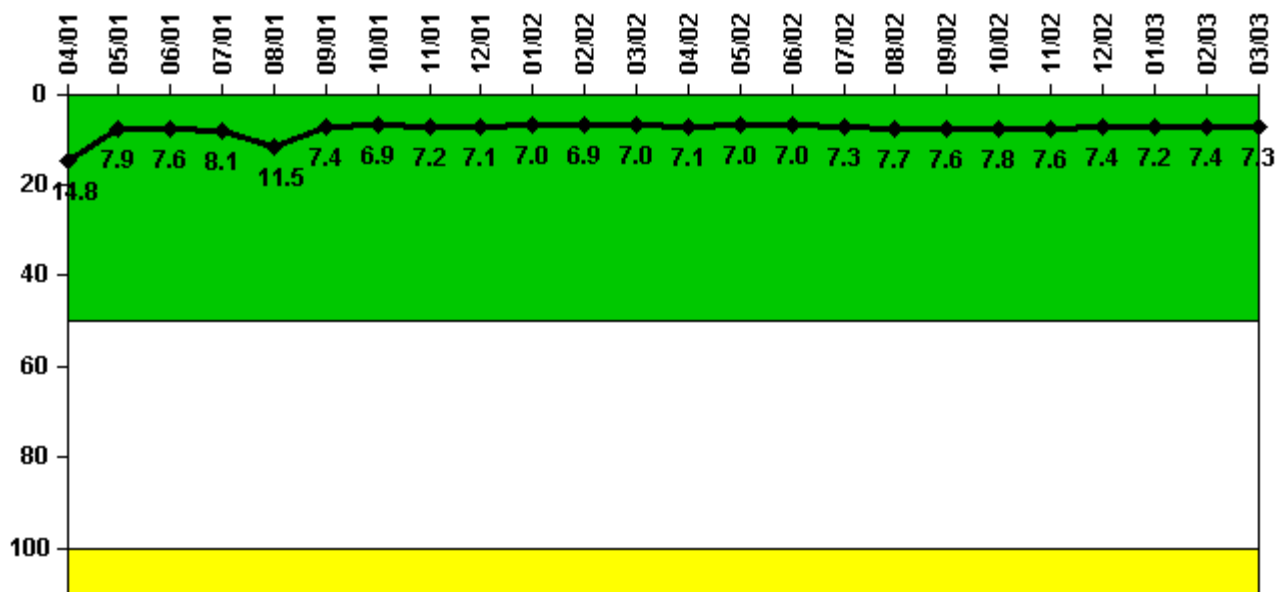
Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.000057	0.000030	0.000036	0.000030	0.000027	0.000033	0.000034	0.000026	0.000030	0.000034	0.000044	0.000030
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.000028	0.000028	0.000030	0.000027	0.000029	0.000025	0.000015	0.001080	0.001440	0.001610	0.001660	0.001810
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	0.5	0.7	0.8	0.8	0.9

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

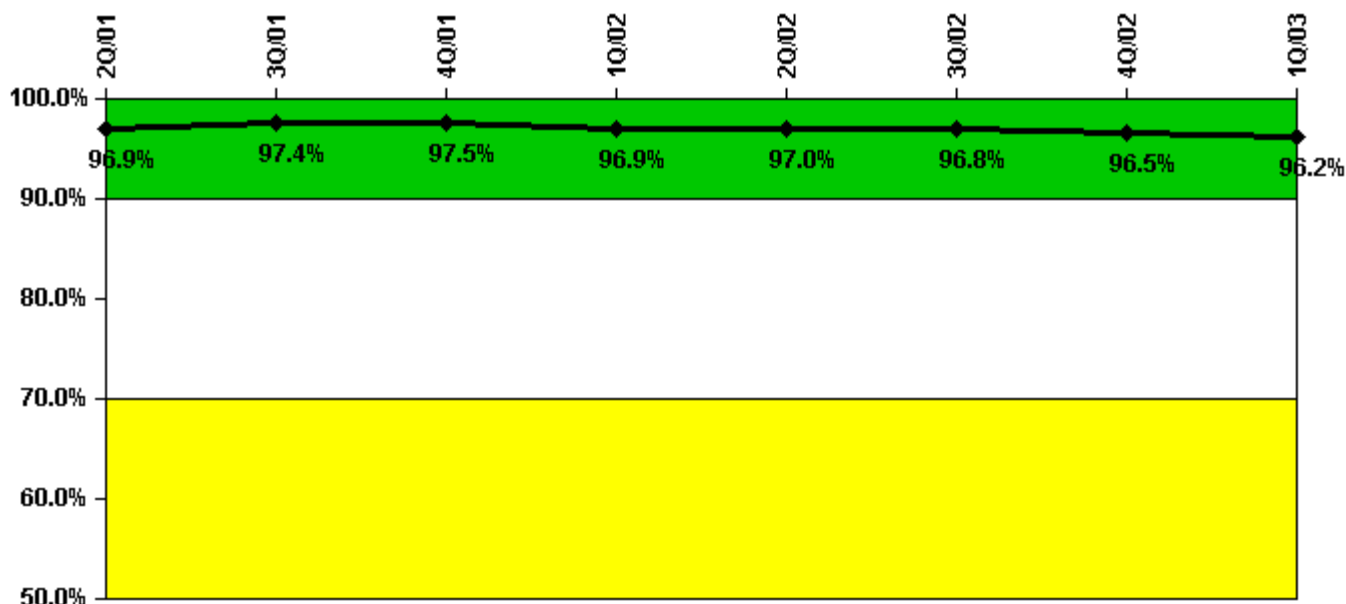
Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	4.430	2.380	2.280	2.440	3.440	2.220	2.080	2.150	2.140	2.090	2.080	2.100
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	14.8	7.9	7.6	8.1	11.5	7.4	6.9	7.2	7.1	7.0	6.9	7.0

Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	2.130	2.090	2.110	2.190	2.310	2.270	2.330	2.290	2.210	2.165	2.205	2.190
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.1	7.0	7.0	7.3	7.7	7.6	7.8	7.6	7.4	7.2	7.4	7.3

Licensee Comments: none

### Drill/Exercise Performance



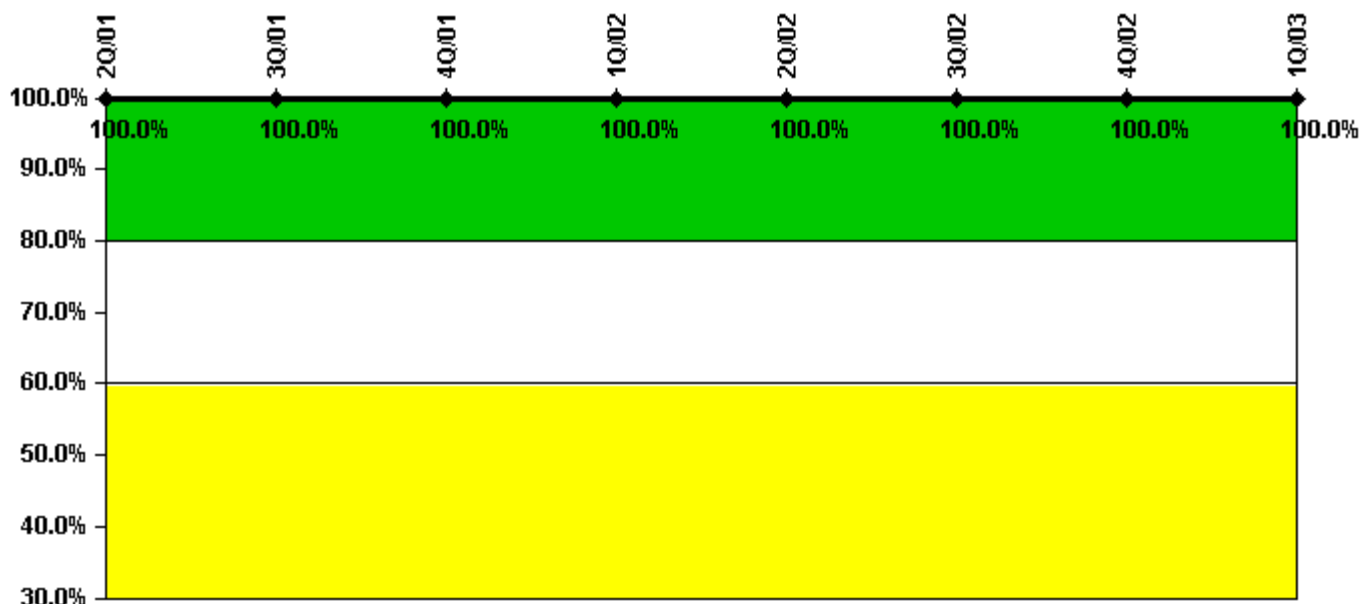
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful opportunities	20.0	39.0	28.0	32.0	18.0	10.0	18.0	10.0
Total opportunities	24.0	39.0	28.0	35.0	18.0	10.0	18.0	10.0
<b>Indicator value</b>	<b>96.9%</b>	<b>97.4%</b>	<b>97.5%</b>	<b>96.9%</b>	<b>97.0%</b>	<b>96.8%</b>	<b>96.5%</b>	<b>96.2%</b>

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

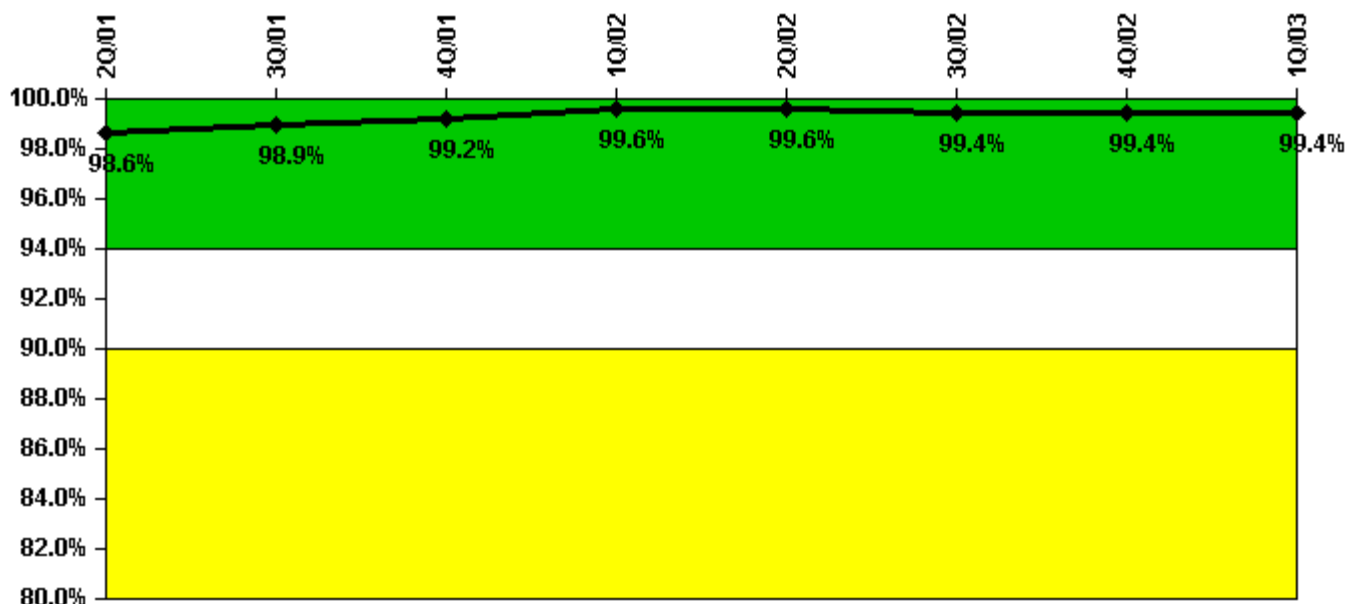
**Notes**

ERO Drill Participation	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Participating Key personnel	85.0	88.0	92.0	84.0	80.0	77.0	81.0	81.0
Total Key personnel	85.0	88.0	92.0	84.0	80.0	77.0	81.0	81.0
<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



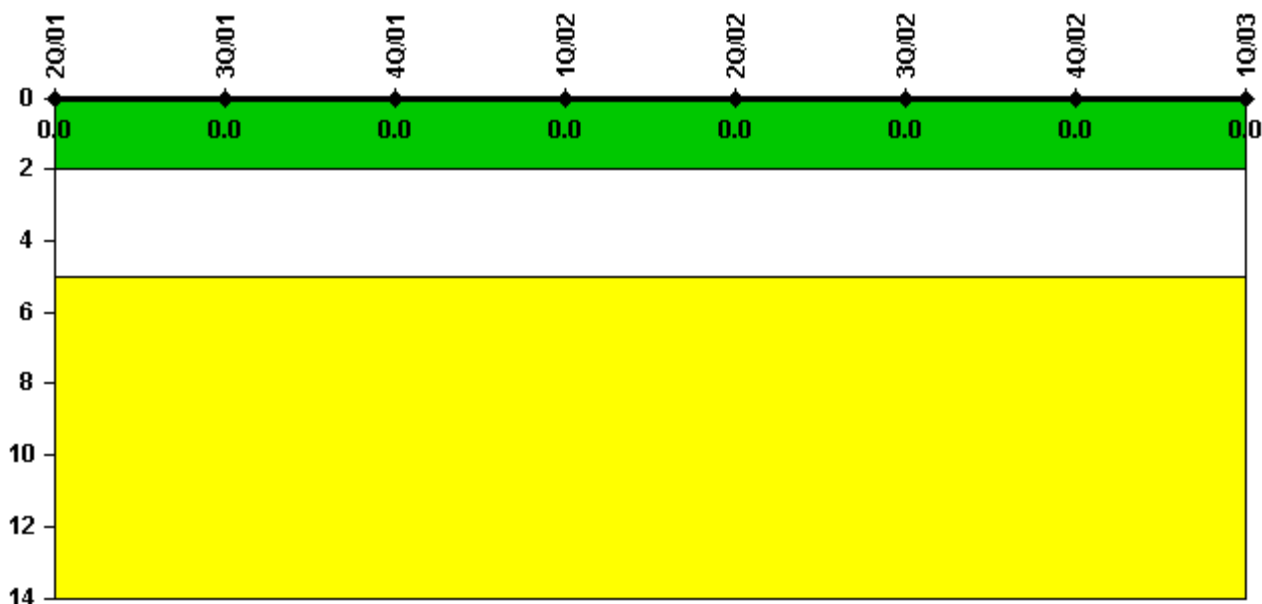
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful siren-tests	128	128	129	129	127	127	129	129
Total sirens-tests	129	129	129	129	128	129	129	129
<b>Indicator value</b>	<b>98.6%</b>	<b>98.9%</b>	<b>99.2%</b>	<b>99.6%</b>	<b>99.6%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.4%</b>

Licensee Comments: none

### Occupational Exposure Control Effectiveness



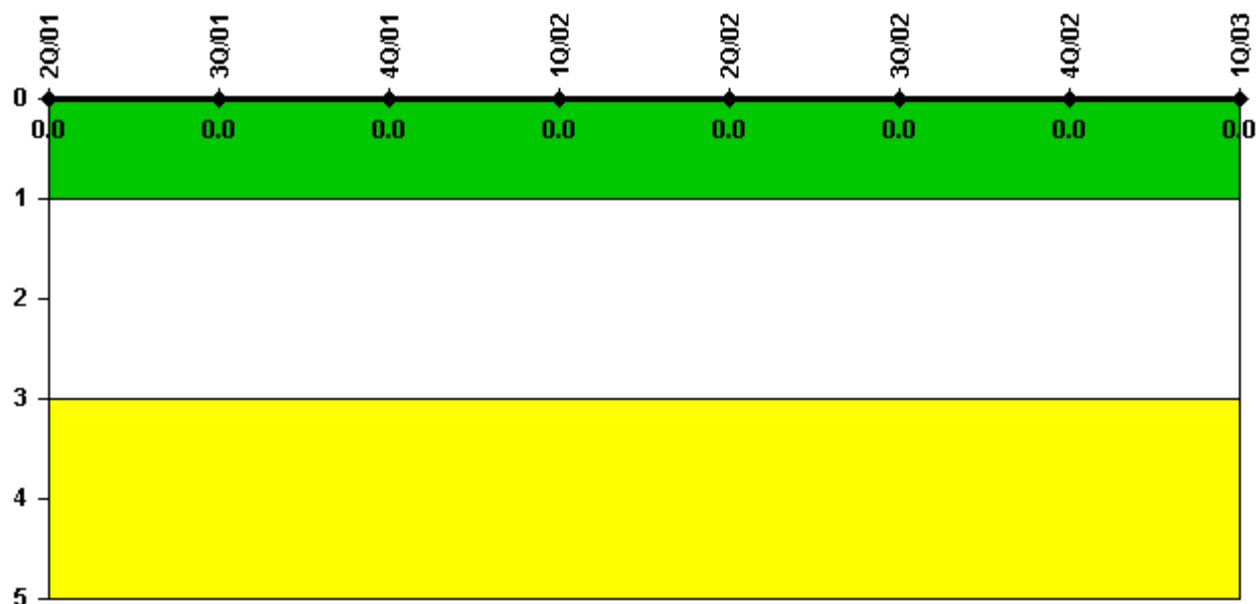
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
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



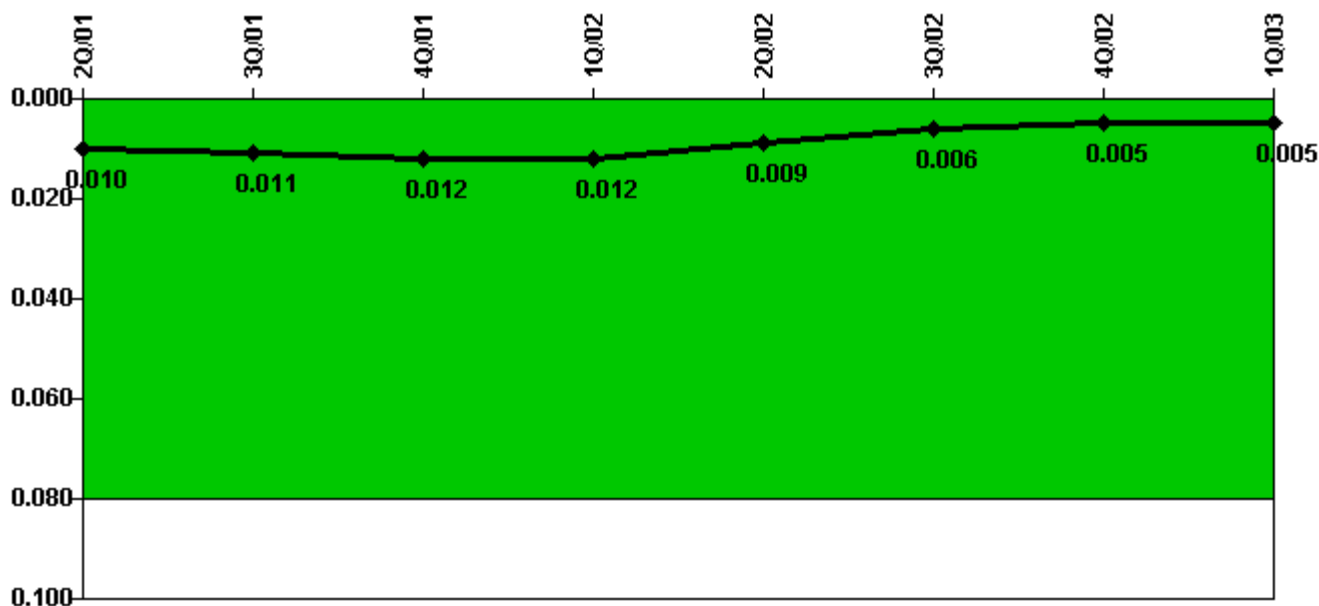
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



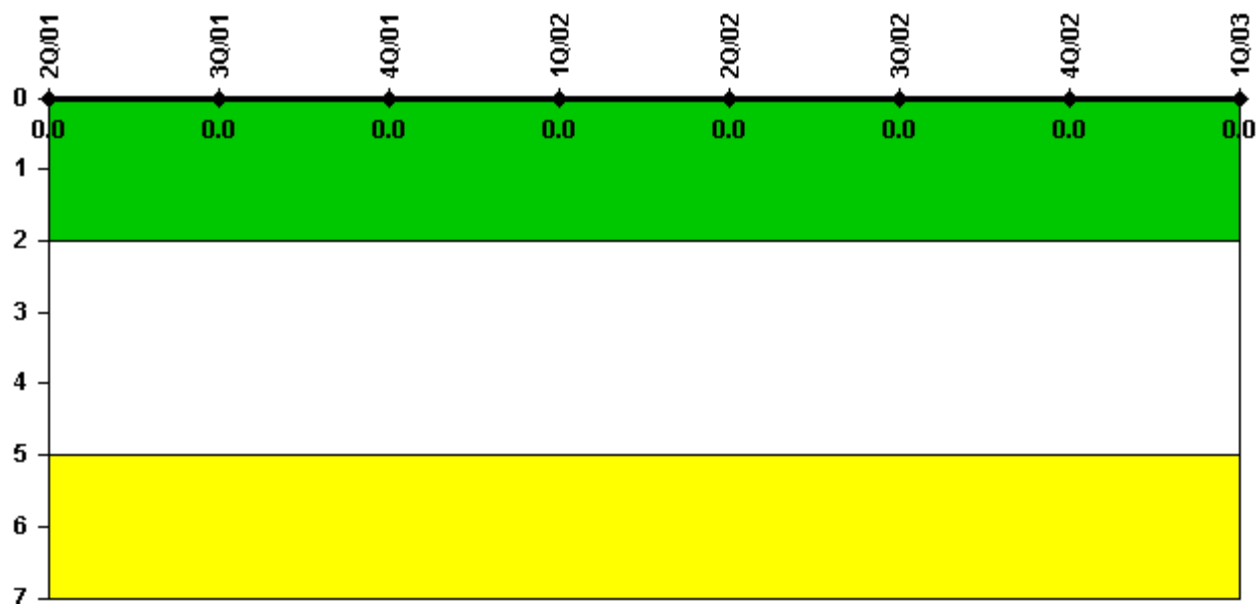
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
IDS compensatory hours	118.50	10.50	22.70	55.20	24.00	16.30	6.60	3.40
CCTV compensatory hours	0	65.2	1.3	0	19.8	8.2	0	32.8
IDS normalization factor	1.60	1.50	1.50	1.50	1.50	1.50	1.50	1.50
CCTV normalization factor	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	<b>0.010</b>	<b>0.011</b>	<b>0.012</b>	<b>0.012</b>	<b>0.009</b>	<b>0.006</b>	<b>0.005</b>	<b>0.005</b>

Licensee Comments: none

### Personnel Screening Program



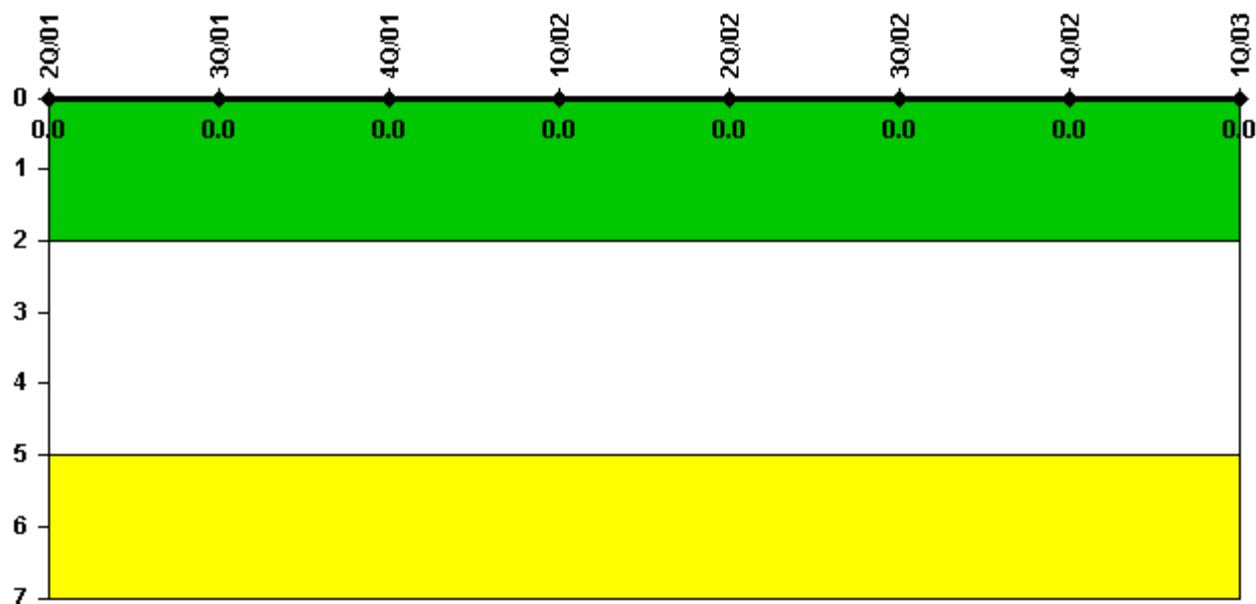
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Program failures	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

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Program Failures	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

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

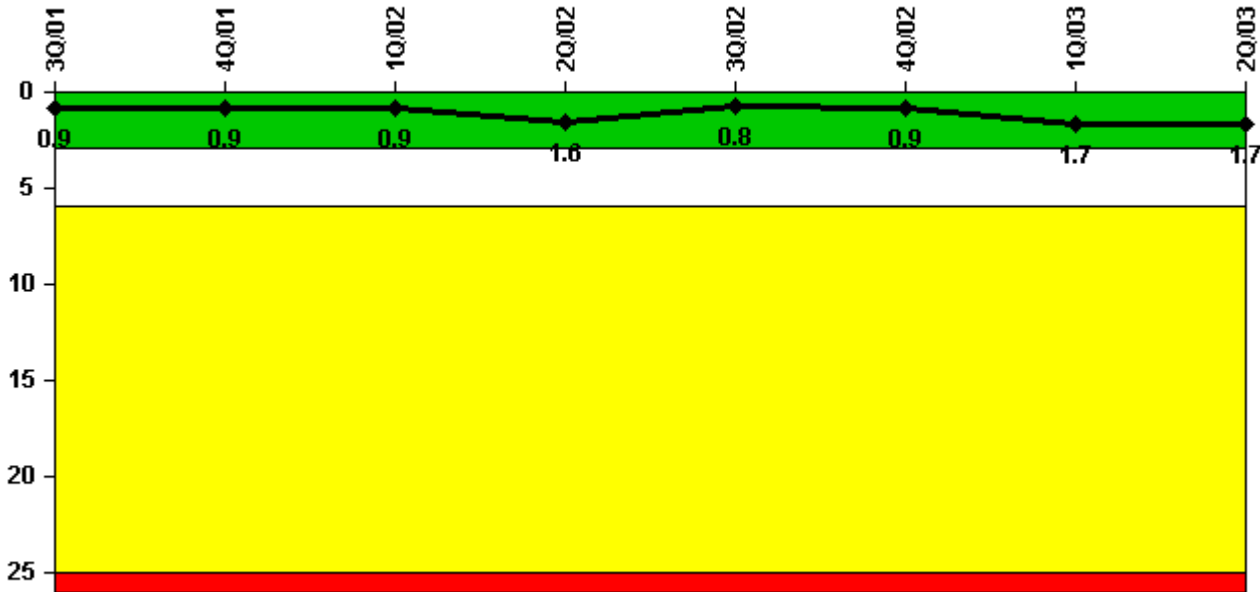
Last Modified: April 22, 2003

# Grand Gulf 1

## 2Q/2003 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



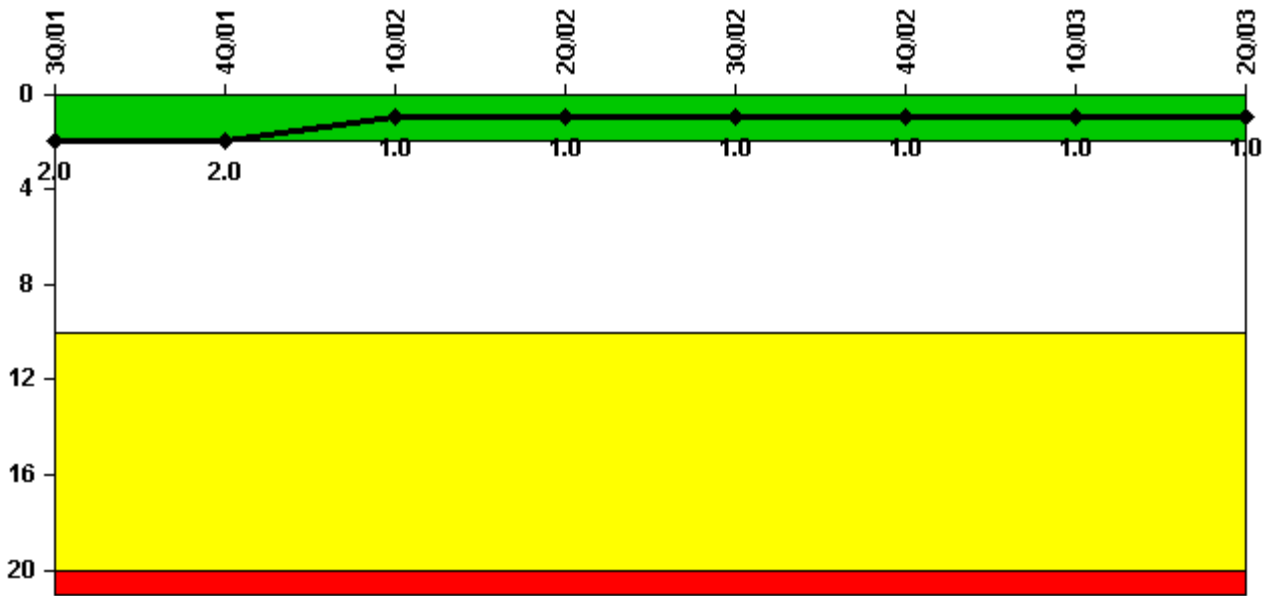
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned scrams	1.0	0	0	1.0	0	0	1.0	1.0
Critical hours	2083.6	2209.0	2160.0	2132.2	1796.0	2109.0	2133.6	2091.1
<b>Indicator value</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>1.7</b>	<b>1.7</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

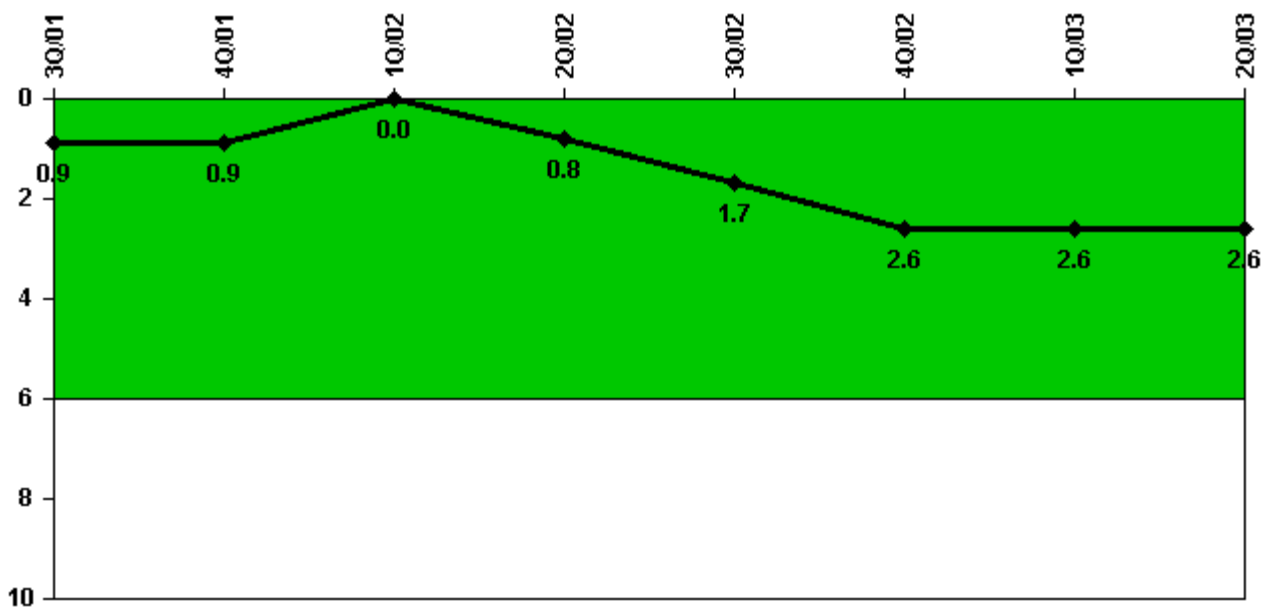
Scrams with Loss of Normal Heat Removal	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Scrams	1.0	0	0	0	0	0	0	0
Indicator value	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0

#### Licensee Comments:

2Q/03: GGNS experienced an automatic scram with a partial loss of off-site power in April, 2003 that meets the exemption guidance of NEI 99-02. An FAQ has been drafted for submittal to NEI. A Change Report will be submitted should FAQ resolution be contrary to station interpretation and understanding.



### Unplanned Power Changes per 7000 Critical Hrs



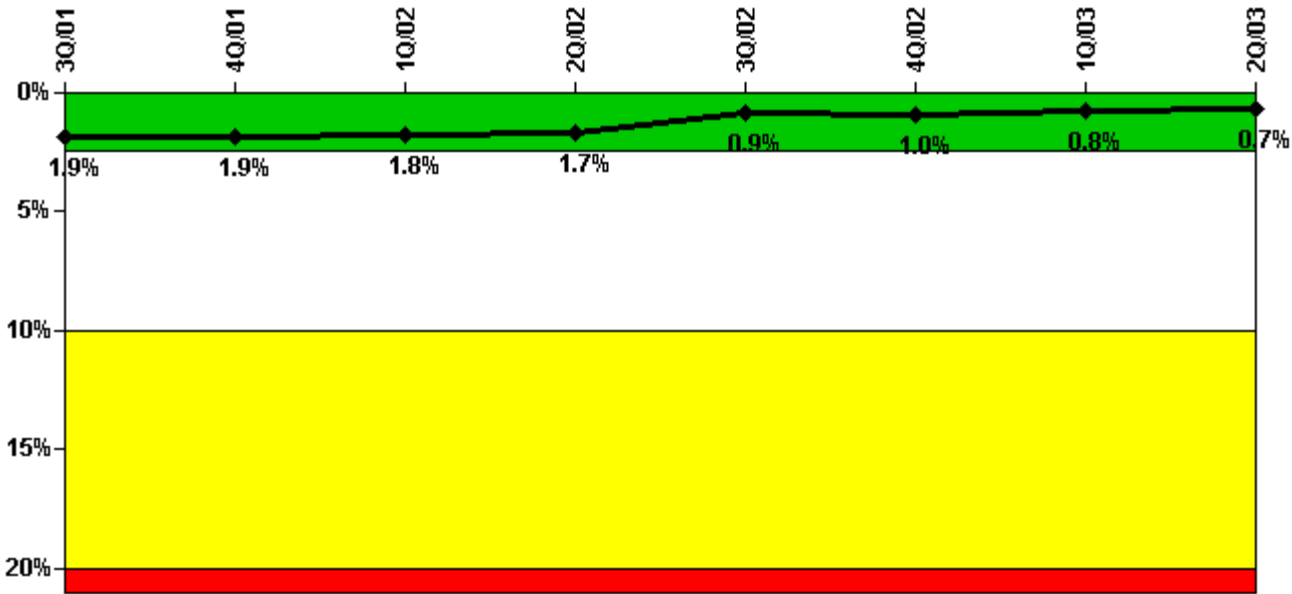
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned power changes	0	0	0	1.0	1.0	1.0	0	1.0
Critical hours	2083.6	2209.0	2160.0	2132.2	1796.0	2109.0	2133.6	2091.1
<b>Indicator value</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>	<b>0.8</b>	<b>1.7</b>	<b>2.6</b>	<b>2.6</b>	<b>2.6</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

**Notes**

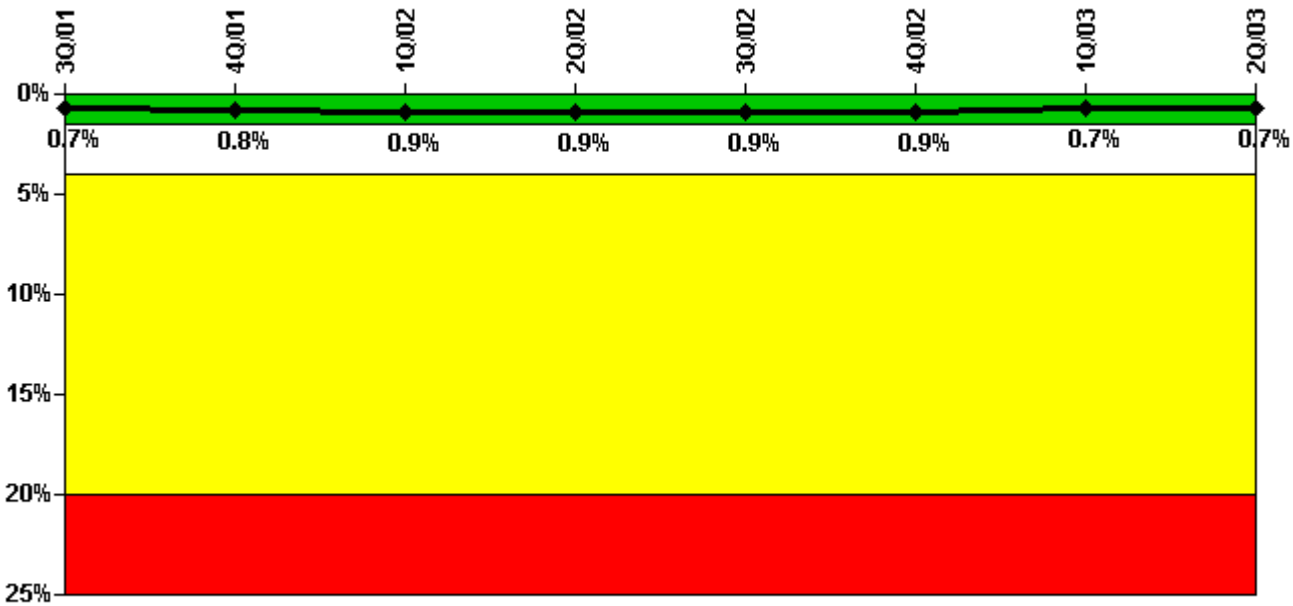
Safety System Unavailability, Emergency AC Power, >2EDG	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
<b>Train 1</b>								
Planned unavailable hours	33.44	3.29	4.86	0.95	0.69	7.99	6.58	11.30
Unplanned unavailable hours	0	0	0	0	11.45	41.38	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	8.28	2.68	79.24	8.16	1.56	8.28	25.25	1.26
Unplanned unavailable hours	0	1.67	2.00	1.08	0	8.88	1.18	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 3</b>								
Planned unavailable hours	3.23	2.73	23.33	0.85	0.46	1.22	7.86	7.17
Unplanned unavailable hours	0	0	0	0	0	0	0	2.10
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Indicator value</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.8%</b>	<b>1.7%</b>	<b>0.9%</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.7%</b>

Licensee Comments:

1Q/03: SSW support system T/2 fault exposure hours of 52.18 affects EDG train 2 in February, 2003. Failure

time is not known and per NEI 99-02 Rev 2, the time should not have been included in the calculation when reported in 1st Quarter 2003. There is no change of color (green).

### Safety System Unavailability, High Pressure Injection System (HPCS)



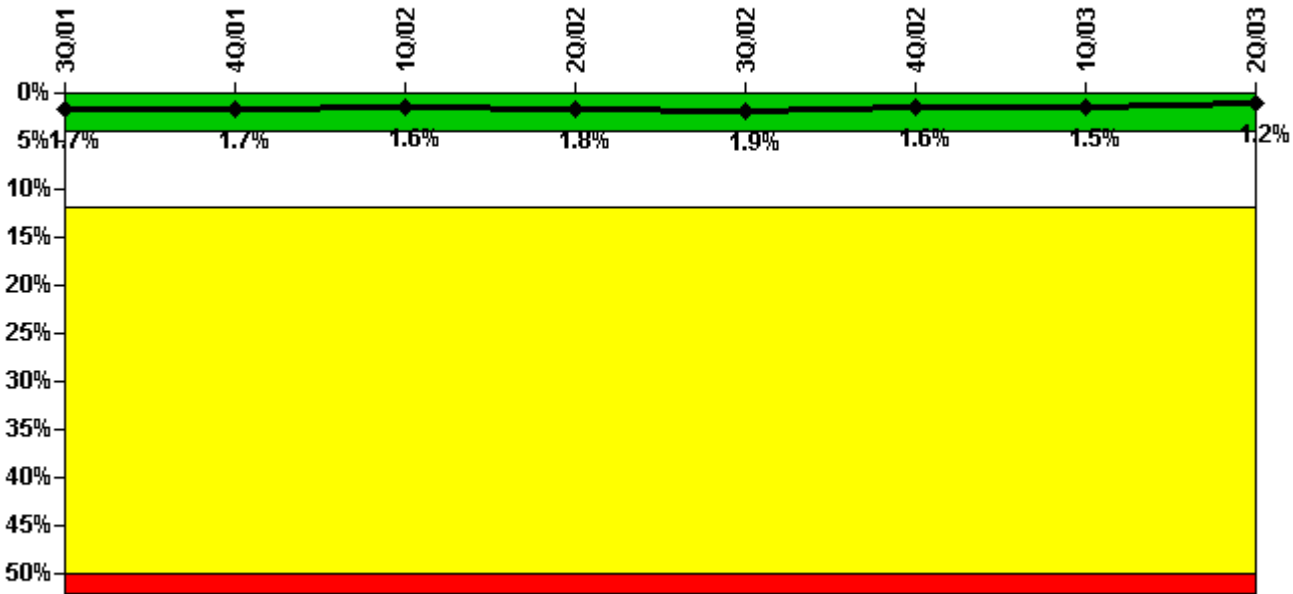
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
<b>Train 1</b>								
Planned unavailable hours	1.86	23.35	32.88	2.05	18.56	2.08	3.81	1.99
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2083.60	2209.00	2160.00	2132.15	1796.00	2109.00	2133.60	2091.10
<b>Indicator value</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.7%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



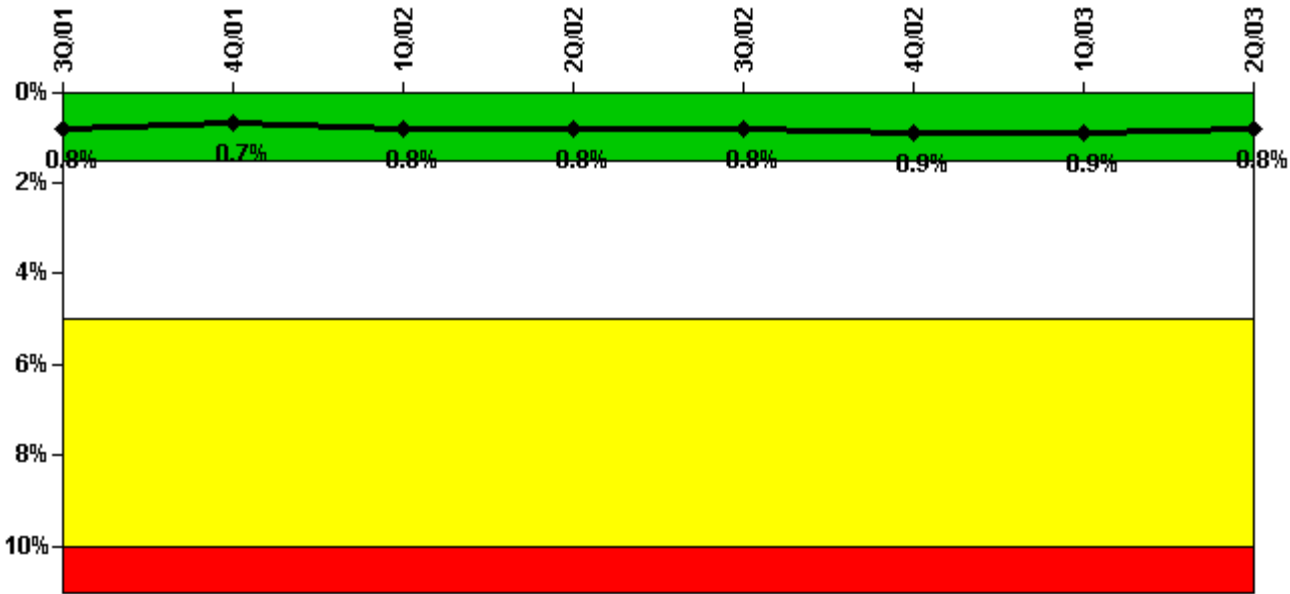
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
<b>Train 1</b>								
Planned unavailable hours	6.59	26.98	2.84	69.56	6.43	20.13	5.51	4.23
Unplanned unavailable hours	8.00	0	0	11.63	0	3.42	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2083.60	2209.00	2160.00	2132.15	1796.00	2109.00	2133.60	2091.10
<b>Indicator value</b>	<b>1.7%</b>	<b>1.7%</b>	<b>1.6%</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.6%</b>	<b>1.5%</b>	<b>1.2%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

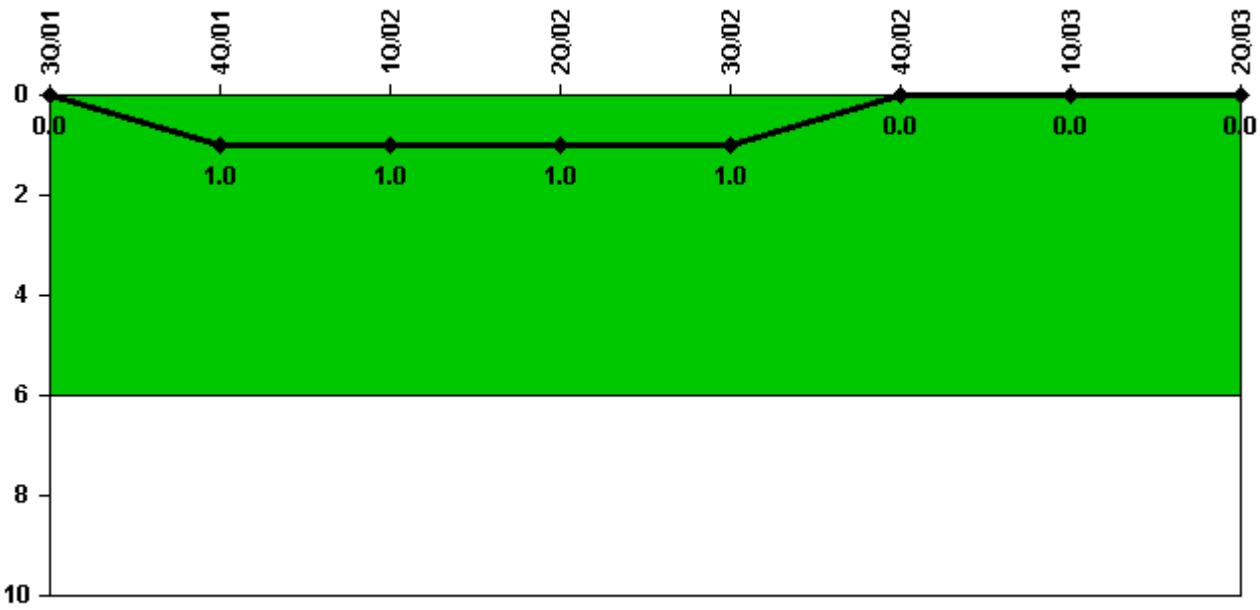
**Notes**

Safety System Unavailability, Residual Heat Removal System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
<b>Train 1</b>								
Planned unavailable hours	24.55	3.73	19.05	2.40	19.84	14.33	12.69	12.42
Unplanned unavailable hours	0	0	0	15.27	3.77	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	26.05	2.43	14.17	22.15	5.02	43.58	16.88	2.83
Unplanned unavailable hours	0	0	2.00	0	3.32	12.88	1.12	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.8%</b>

Licensee Comments:

1Q/03: SSW support system T/2 fault exposure hours of 52.18 affects RHR train 2 in February, 2003. Failure time is not known and per NEI 99-02 Rev 2, the time should not have been included in the calculation when reported in 1st Quarter 2003. There is no change of color (green).

### Safety System Functional Failures (BWR)



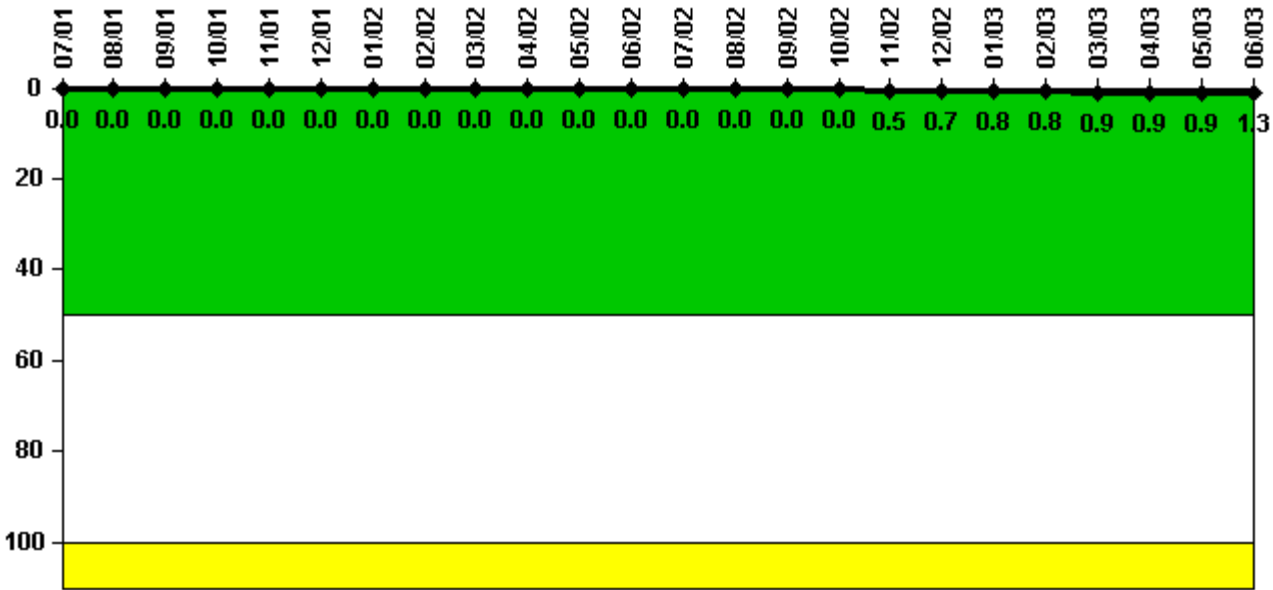
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Safety System Functional Failures	0	1	0	0	0	0	0	0
Indicator value	0	1	1	1	1	0	0	0

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

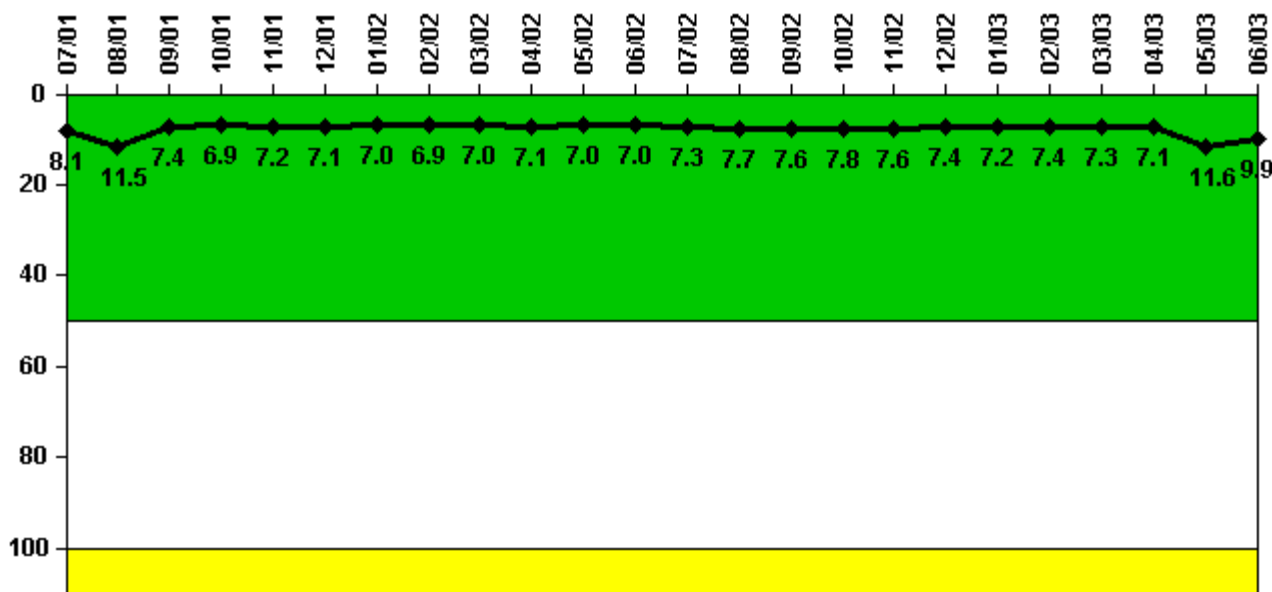
Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.000030	0.000027	0.000033	0.000034	0.000026	0.000030	0.000034	0.000044	0.000030	0.000028	0.000028	0.000030
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.000027	0.000029	0.000025	0.000015	0.001080	0.001440	0.001610	0.001660	0.001810	0.001760	0.001870	0.002510
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	0.5	0.7	0.8	0.8	0.9	0.9	0.9	1.3

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	2.440	3.440	2.220	2.080	2.150	2.140	2.090	2.080	2.100	2.130	2.090	2.110
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.1	11.5	7.4	6.9	7.2	7.1	7.0	6.9	7.0	7.1	7.0	7.0

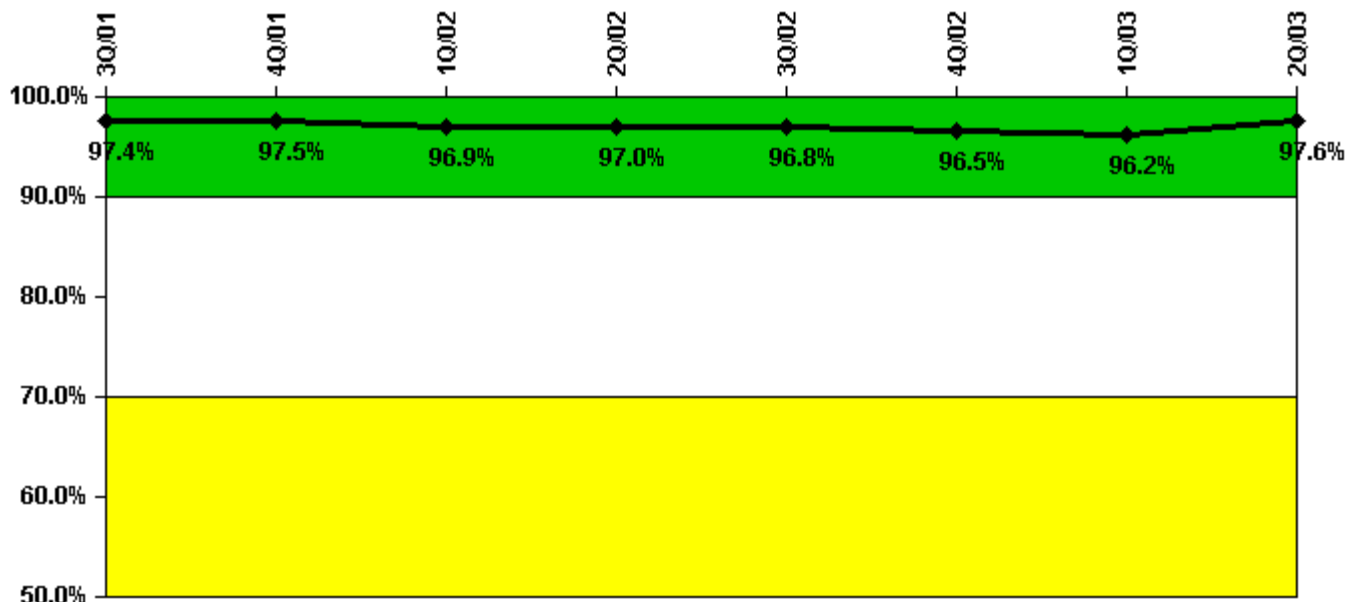
  

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	2.190	2.310	2.270	2.330	2.290	2.210	2.165	2.205	2.190	2.123	3.480	2.980
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.3	7.7	7.6	7.8	7.6	7.4	7.2	7.4	7.3	7.1	11.6	9.9

Licensee Comments: none



### Drill/Exercise Performance



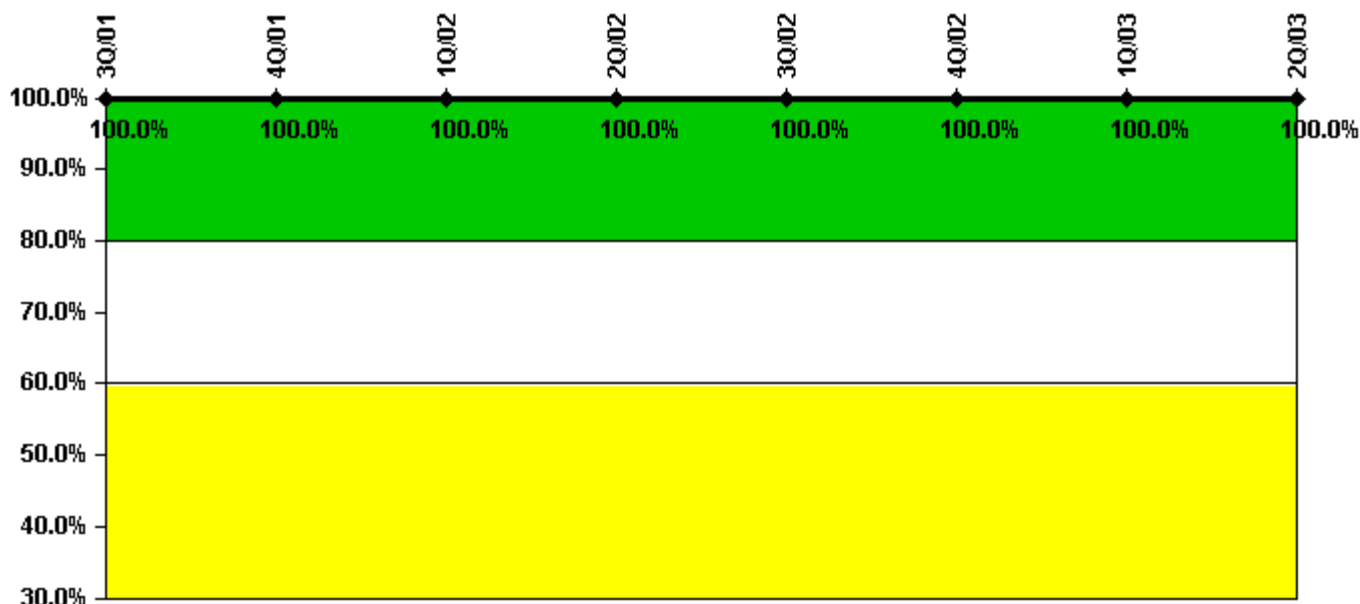
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful opportunities	39.0	28.0	32.0	18.0	10.0	18.0	10.0	7.0
Total opportunities	39.0	28.0	35.0	18.0	10.0	18.0	10.0	8.0
<b>Indicator value</b>	<b>97.4%</b>	<b>97.5%</b>	<b>96.9%</b>	<b>97.0%</b>	<b>96.8%</b>	<b>96.5%</b>	<b>96.2%</b>	<b>97.6%</b>

Licensee Comments: none

### ERO Drill Participation



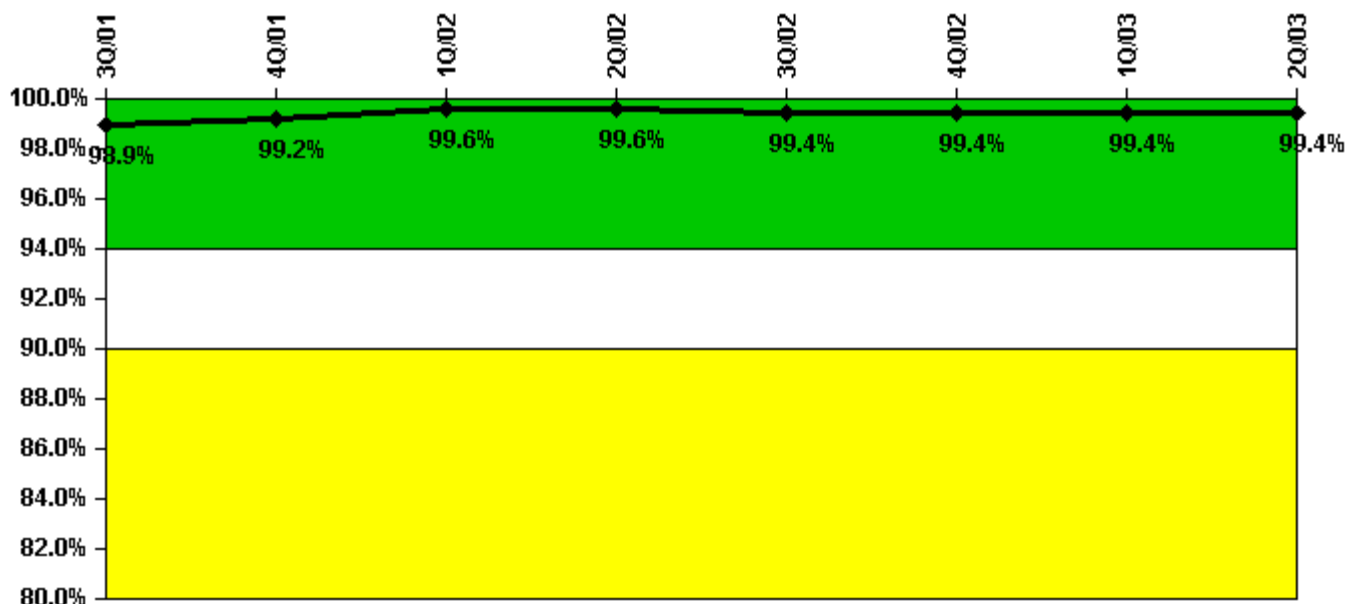
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Participating Key personnel	88.0	92.0	84.0	80.0	77.0	81.0	81.0	80.0
Total Key personnel	88.0	92.0	84.0	80.0	77.0	81.0	81.0	80.0
<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



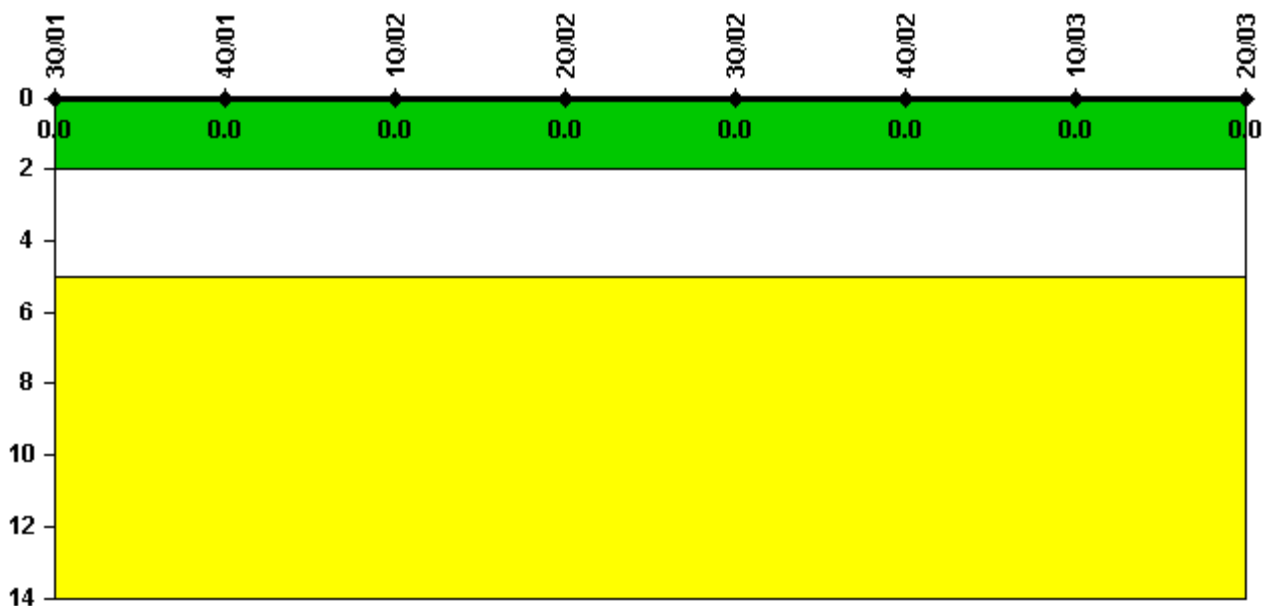
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful siren-tests	128	129	129	127	127	129	129	128
Total sirens-tests	129	129	129	128	129	129	129	129
<b>Indicator value</b>	<b>98.9%</b>	<b>99.2%</b>	<b>99.6%</b>	<b>99.6%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.4%</b>

Licensee Comments: none

### Occupational Exposure Control Effectiveness



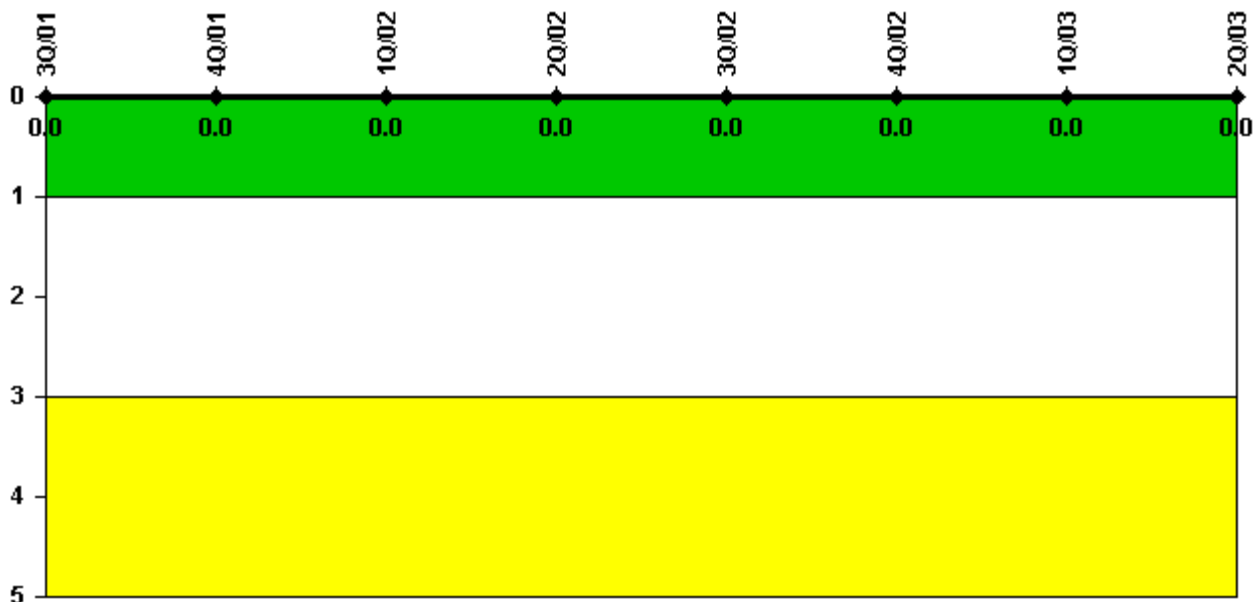
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
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



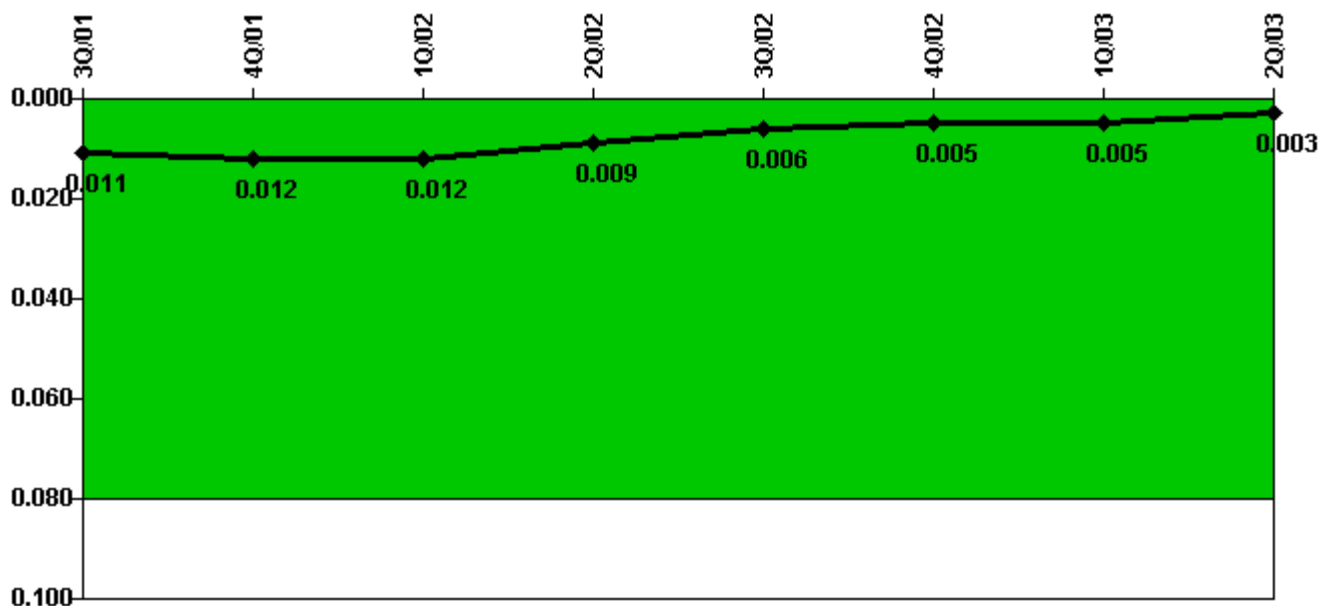
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



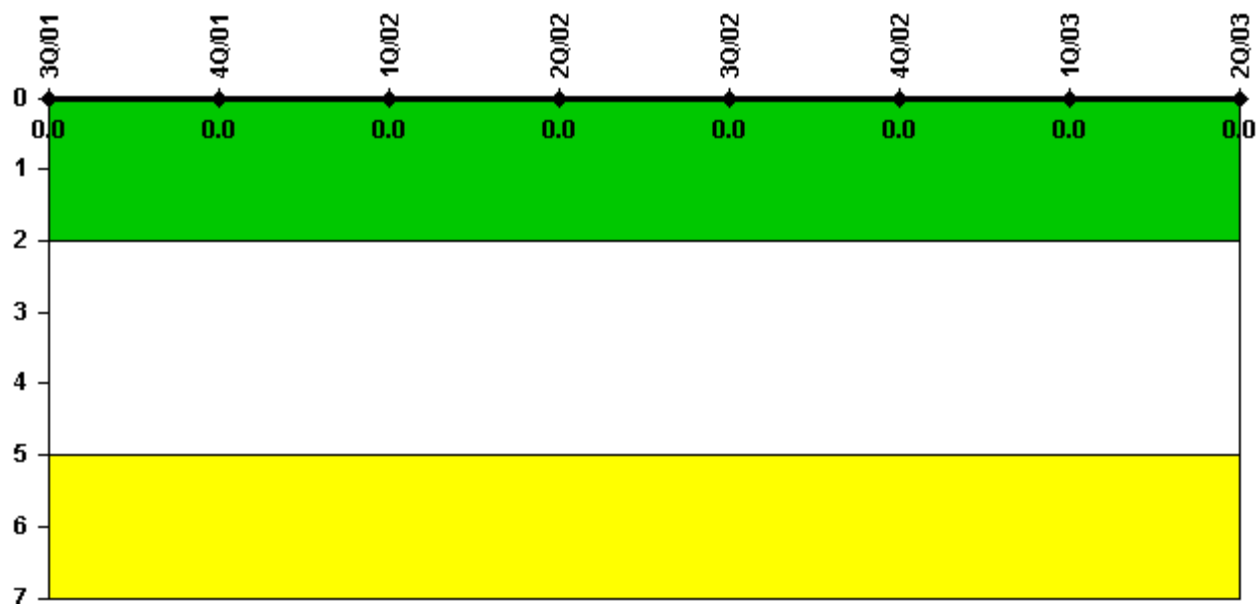
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
IDS compensatory hours	10.50	22.70	55.20	24.00	16.30	6.60	3.40	0
CCTV compensatory hours	65.2	1.3	0	19.8	8.2	0	32.8	0
IDS normalization factor	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>Index Value</b>	<b>0.011</b>	<b>0.012</b>	<b>0.012</b>	<b>0.009</b>	<b>0.006</b>	<b>0.005</b>	<b>0.005</b>	<b>0.003</b>

Licensee Comments: none

### Personnel Screening Program



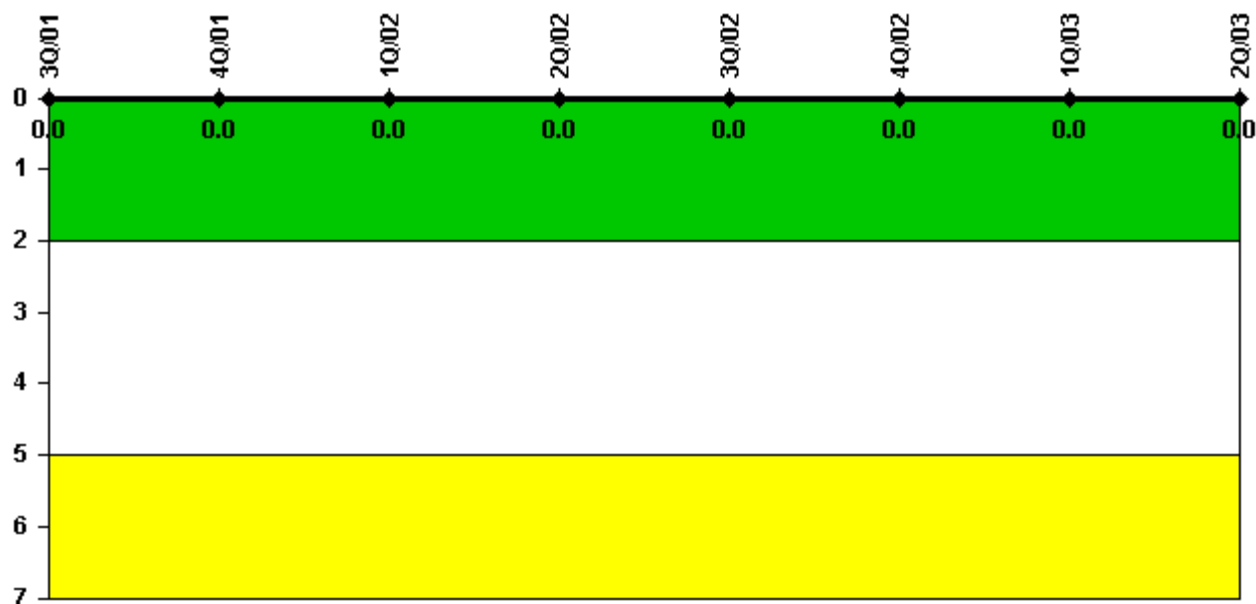
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Program failures	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

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Program Failures	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

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

Last Modified: July 22, 2003

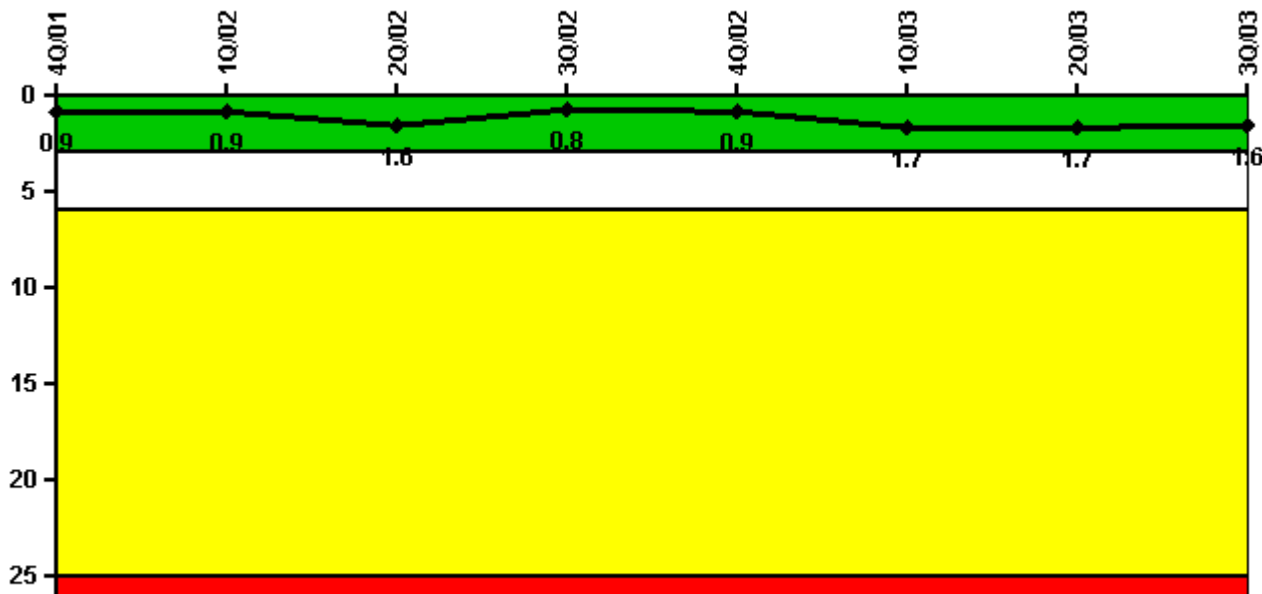


# Grand Gulf 1

## 3Q/2003 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



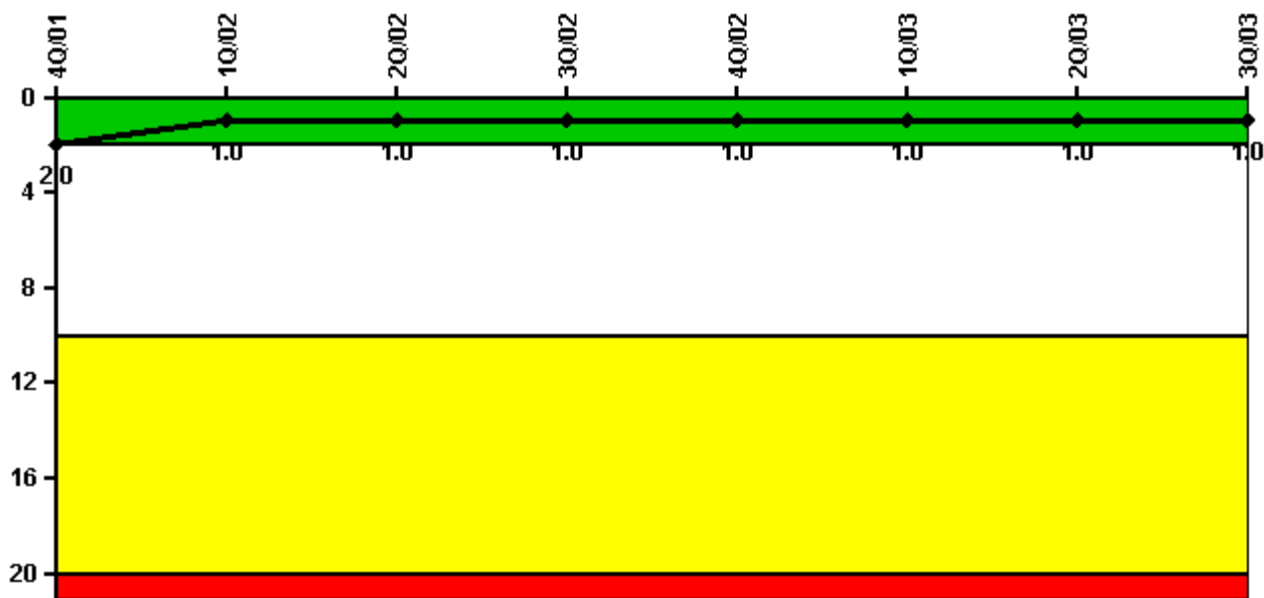
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	0	0	1.0	0	0	1.0	1.0	0
Critical hours	2209.0	2160.0	2132.2	1796.0	2109.0	2133.6	2091.1	2208.0
<b>Indicator value</b>	<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>1.7</b>	<b>1.7</b>	<b>1.6</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



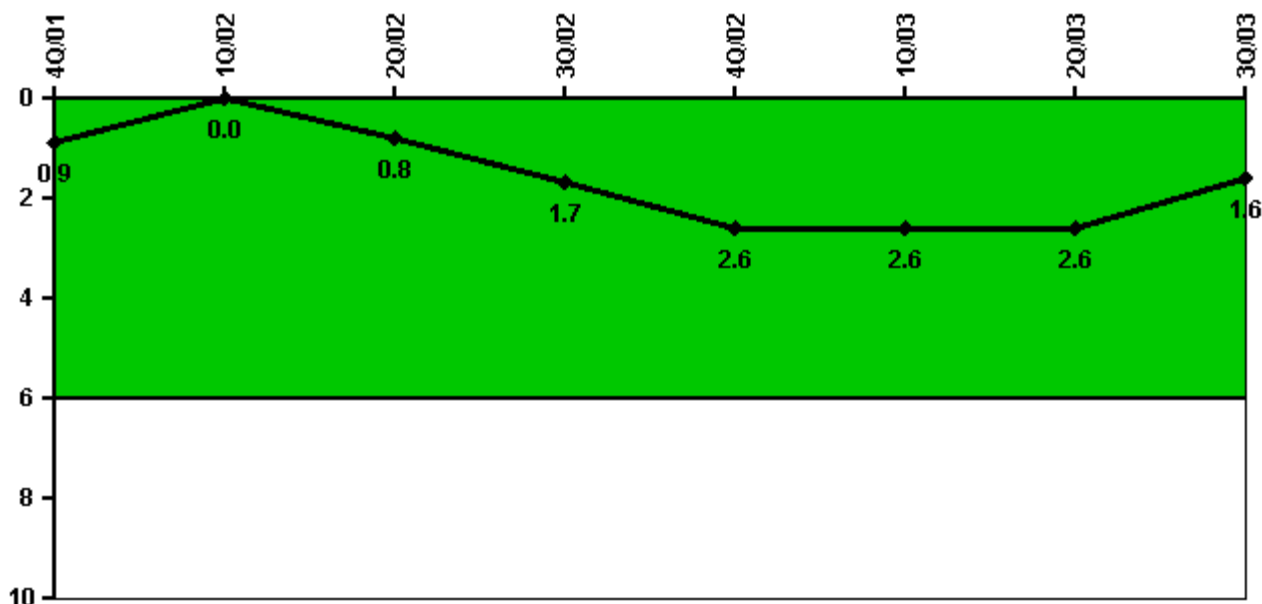
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



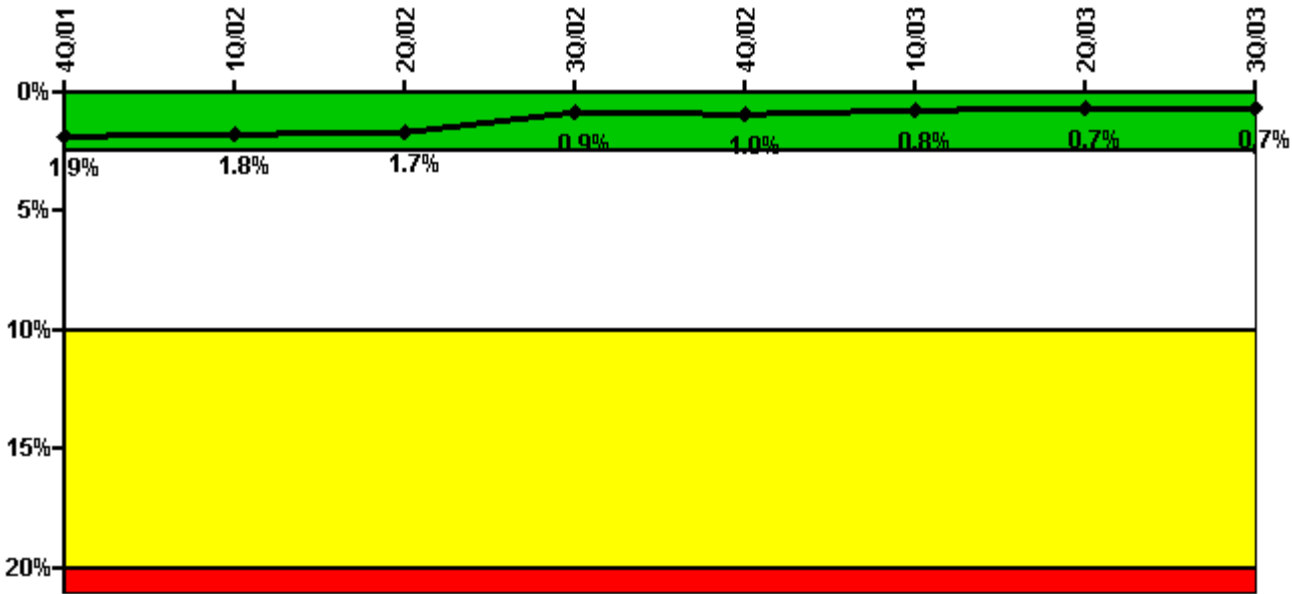
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned power changes	0	0	1.0	1.0	1.0	0	1.0	0
Critical hours	2209.0	2160.0	2132.2	1796.0	2109.0	2133.6	2091.1	2208.0
<b>Indicator value</b>	<b>0.9</b>	<b>0</b>	<b>0.8</b>	<b>1.7</b>	<b>2.6</b>	<b>2.6</b>	<b>2.6</b>	<b>1.6</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



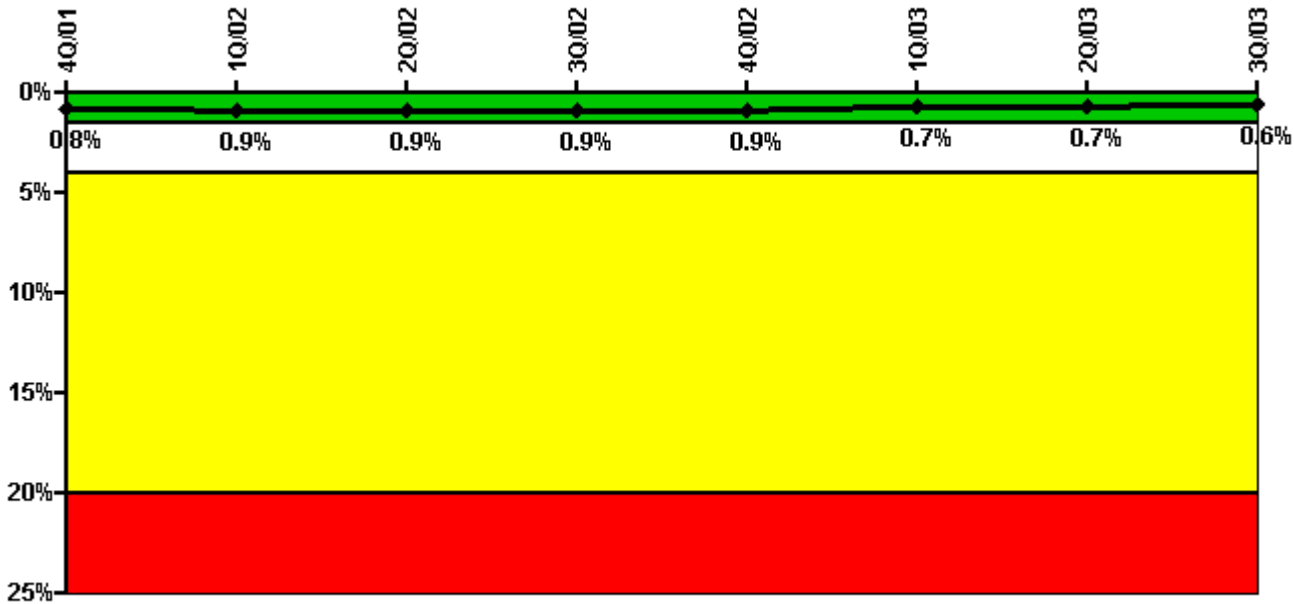
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

**Notes**

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
<b>Train 1</b>								
Planned unavailable hours	3.29	4.86	0.95	0.69	7.99	6.58	11.30	21.27
Unplanned unavailable hours	0	0	0	11.45	41.38	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	2.68	79.24	8.16	1.56	8.28	25.25	1.26	19.55
Unplanned unavailable hours	1.67	2.00	1.08	0	8.88	1.18	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 3</b>								
Planned unavailable hours	2.73	23.33	0.85	0.46	1.22	7.86	7.17	16.13
Unplanned unavailable hours	0	0	0	0	0	0	2.10	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Indicator value</b>	<b>1.9%</b>	<b>1.8%</b>	<b>1.7%</b>	<b>0.9%</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



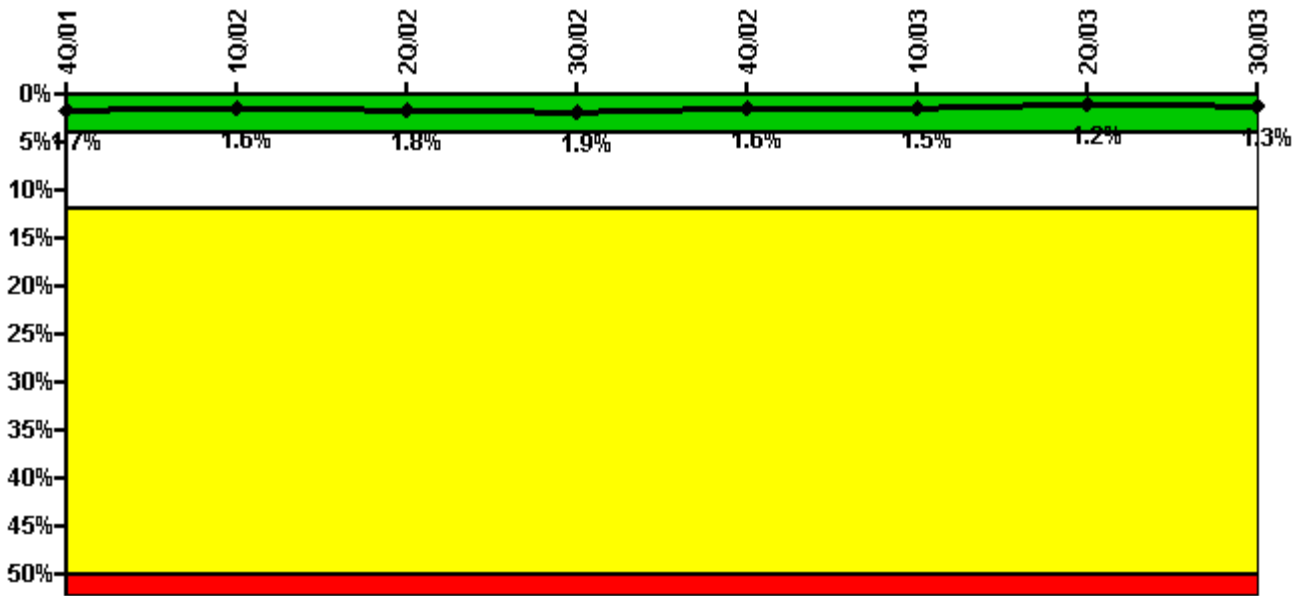
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

**Notes**

Safety System Unavailability, High Pressure Injection System (HPCS)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
<b>Train 1</b>								
Planned unavailable hours	23.35	32.88	2.05	18.56	2.08	3.81	1.99	3.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2132.15	1796.00	2109.00	2133.60	2091.10	2208.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



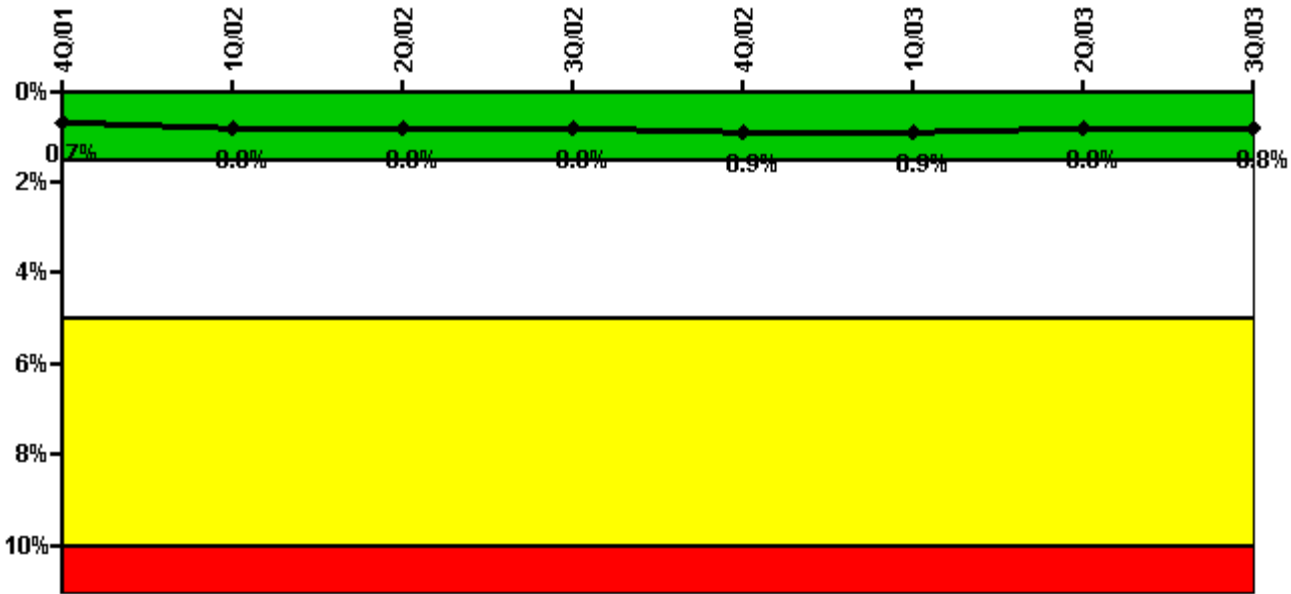
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
<b>Train 1</b>								
Planned unavailable hours	26.98	2.84	69.56	6.43	20.13	5.51	4.23	12.74
Unplanned unavailable hours	0	0	11.63	0	3.42	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2132.15	1796.00	2109.00	2133.60	2091.10	2208.00
<b>Indicator value</b>	<b>1.7%</b>	<b>1.6%</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.6%</b>	<b>1.5%</b>	<b>1.2%</b>	<b>1.3%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



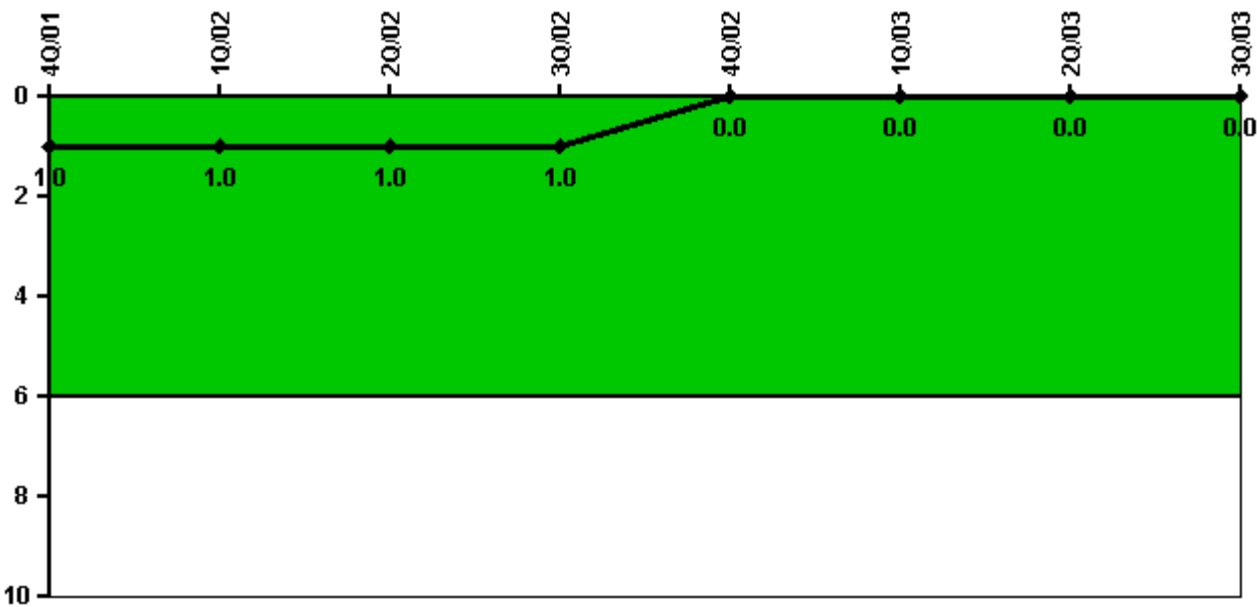
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
<b>Train 1</b>								
Planned unavailable hours	3.73	19.05	2.40	19.84	14.33	12.69	12.42	46.38
Unplanned unavailable hours	0	0	15.27	3.77	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	2.43	14.17	22.15	5.02	43.58	16.88	2.83	16.02
Unplanned unavailable hours	0	2.00	0	3.32	12.88	1.12	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

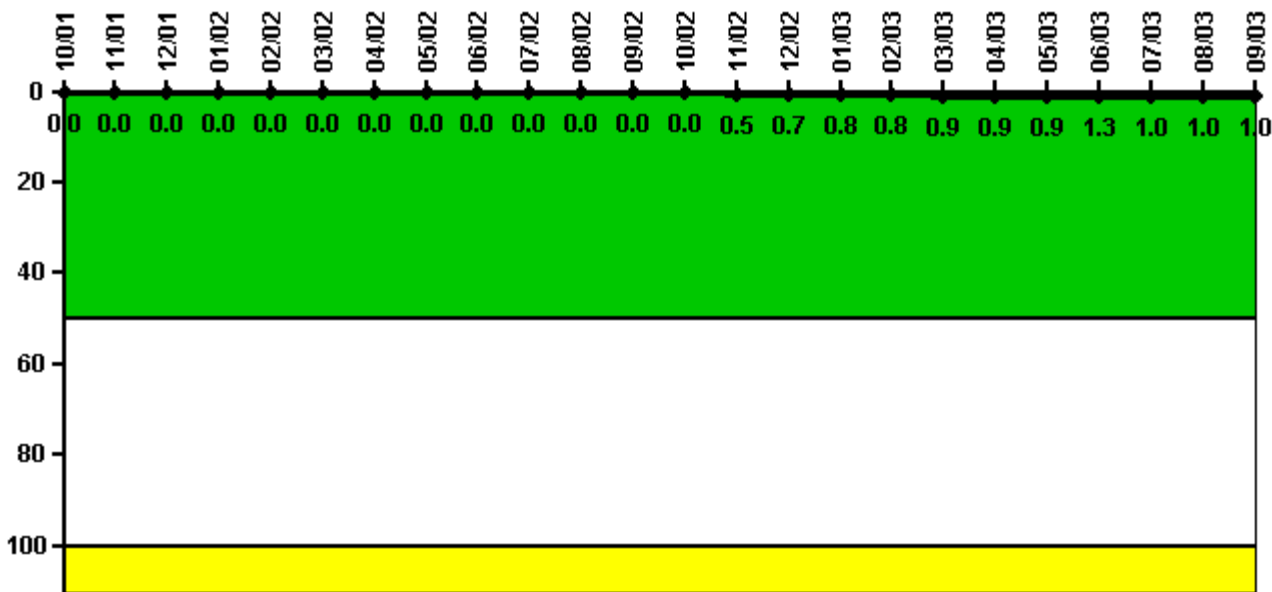
#### Notes

Safety System Functional Failures (BWR)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

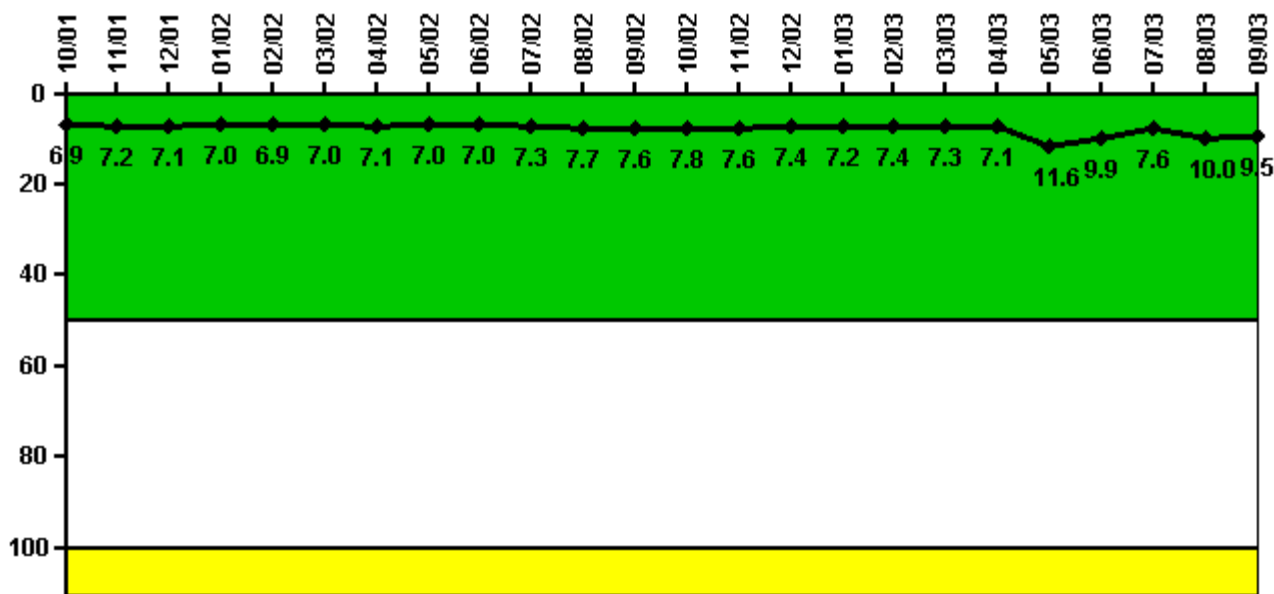
Reactor Coolant System Activity	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.000034	0.000026	0.000030	0.000034	0.000044	0.000030	0.000028	0.000028	0.000030	0.000027	0.000029	0.000025
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum activity	0.000015	0.001080	0.001440	0.001610	0.001660	0.001810	0.001760	0.001870	0.002510	0.002080	0.002060	0.001980
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	0.5	0.7	0.8	0.8	0.9	0.9	0.9	1.3	1.0	1.0	1.0

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

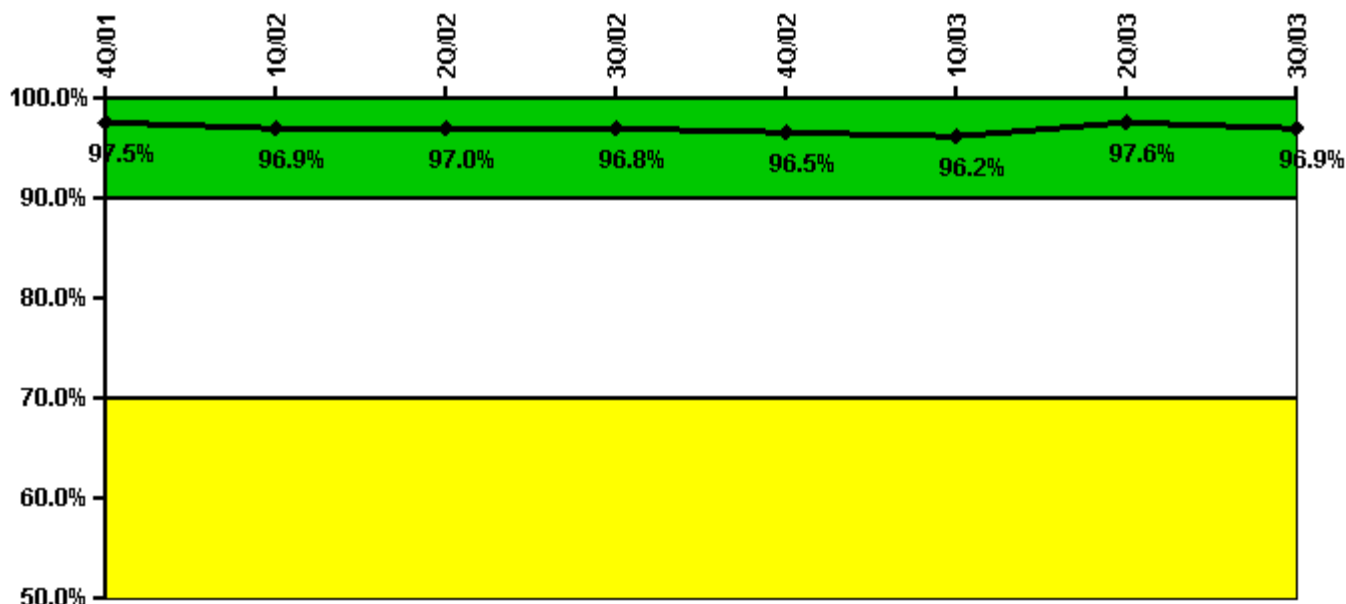
Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	2.080	2.150	2.140	2.090	2.080	2.100	2.130	2.090	2.110	2.190	2.310	2.270
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	6.9	7.2	7.1	7.0	6.9	7.0	7.1	7.0	7.0	7.3	7.7	7.6

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	2.330	2.290	2.210	2.165	2.205	2.190	2.123	3.480	2.980	2.290	3.010	2.840
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.8	7.6	7.4	7.2	7.4	7.3	7.1	11.6	9.9	7.6	10.0	9.5

Licensee Comments: none

### Drill/Exercise Performance



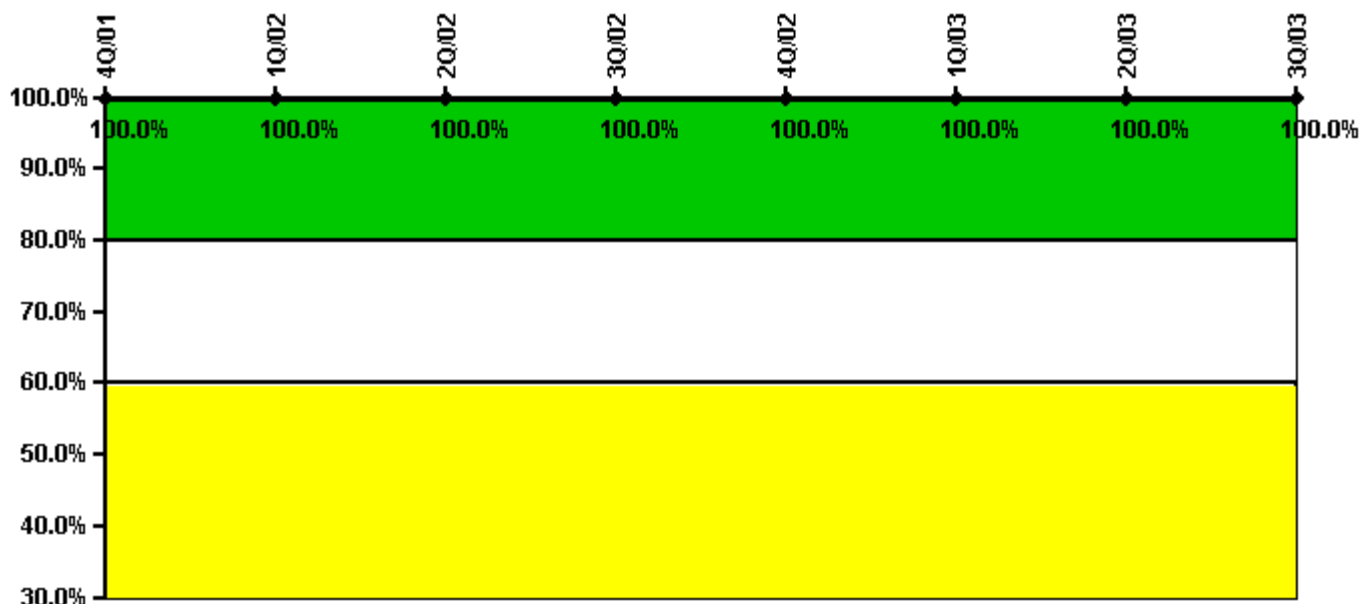
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful opportunities	28.0	32.0	18.0	10.0	18.0	10.0	7.0	31.0
Total opportunities	28.0	35.0	18.0	10.0	18.0	10.0	8.0	32.0
<b>Indicator value</b>	<b>97.5%</b>	<b>96.9%</b>	<b>97.0%</b>	<b>96.8%</b>	<b>96.5%</b>	<b>96.2%</b>	<b>97.6%</b>	<b>96.9%</b>

Licensee Comments: none

### ERO Drill Participation



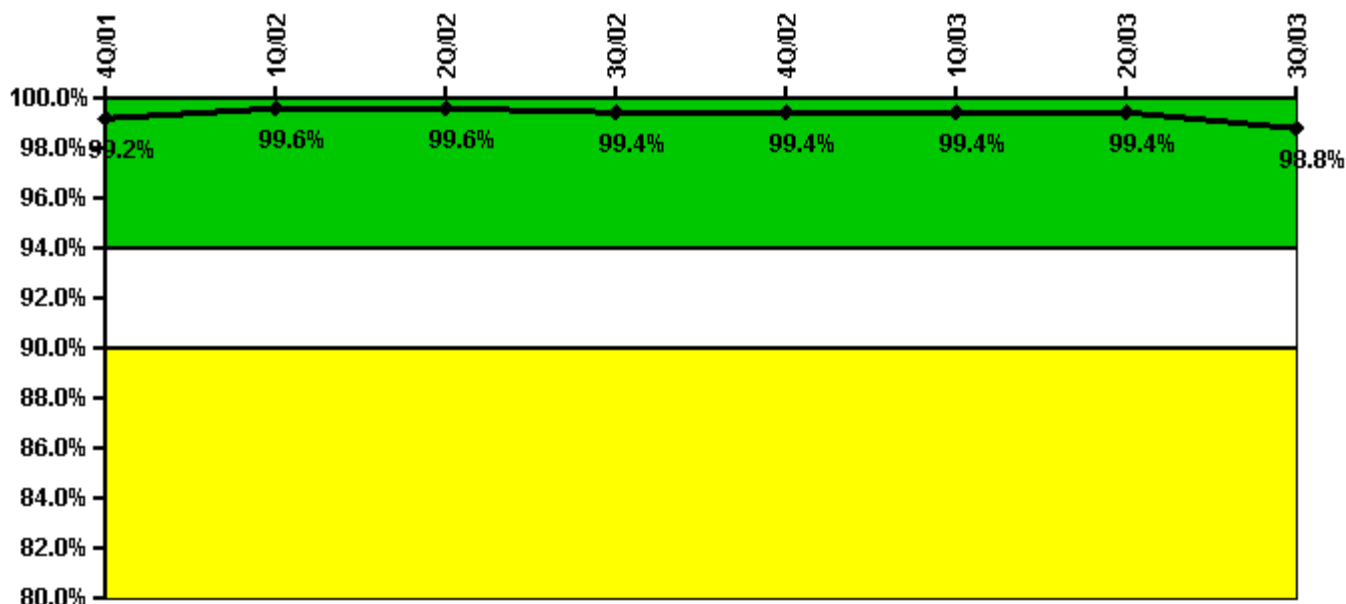
Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Participating Key personnel	92.0	84.0	80.0	77.0	81.0	81.0	80.0	81.0
Total Key personnel	92.0	84.0	80.0	77.0	81.0	81.0	80.0	81.0
<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	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful siren-tests	129	129	127	127	129	129	128	124
Total sirens-tests	129	129	128	129	129	129	129	129
<b>Indicator value</b>	<b>99.2%</b>	<b>99.6%</b>	<b>99.6%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>98.8%</b>

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
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



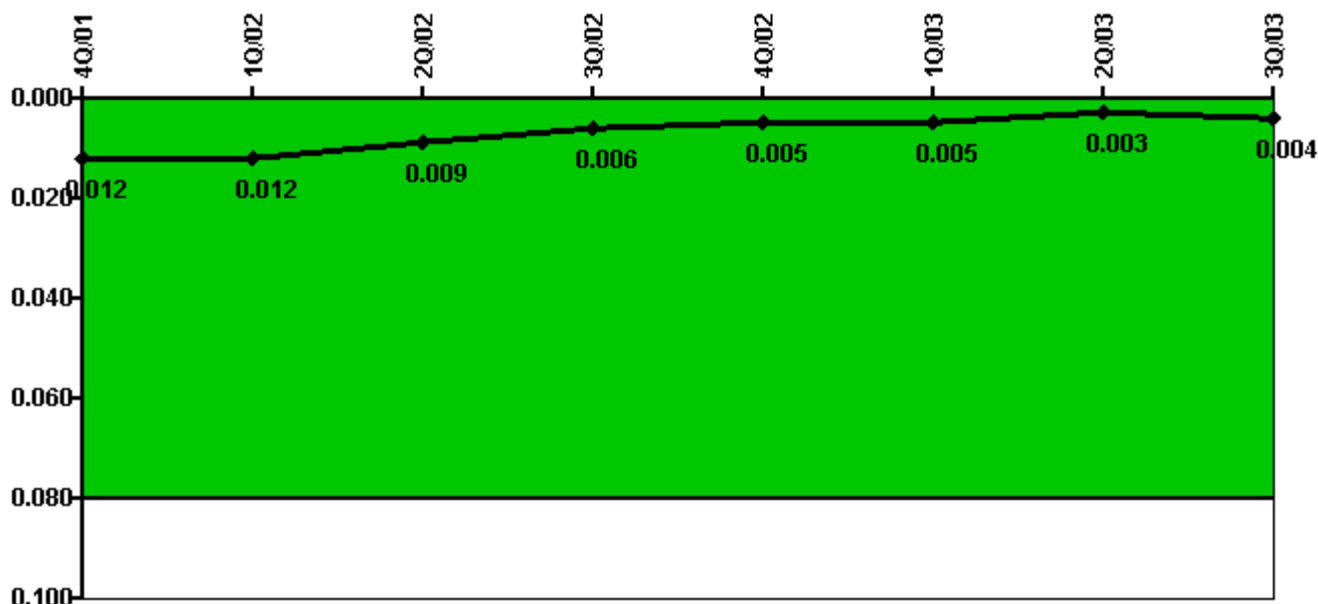
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
RETS/ODCM 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

### Protected Area Security Performance Index



Thresholds: White > 0.080

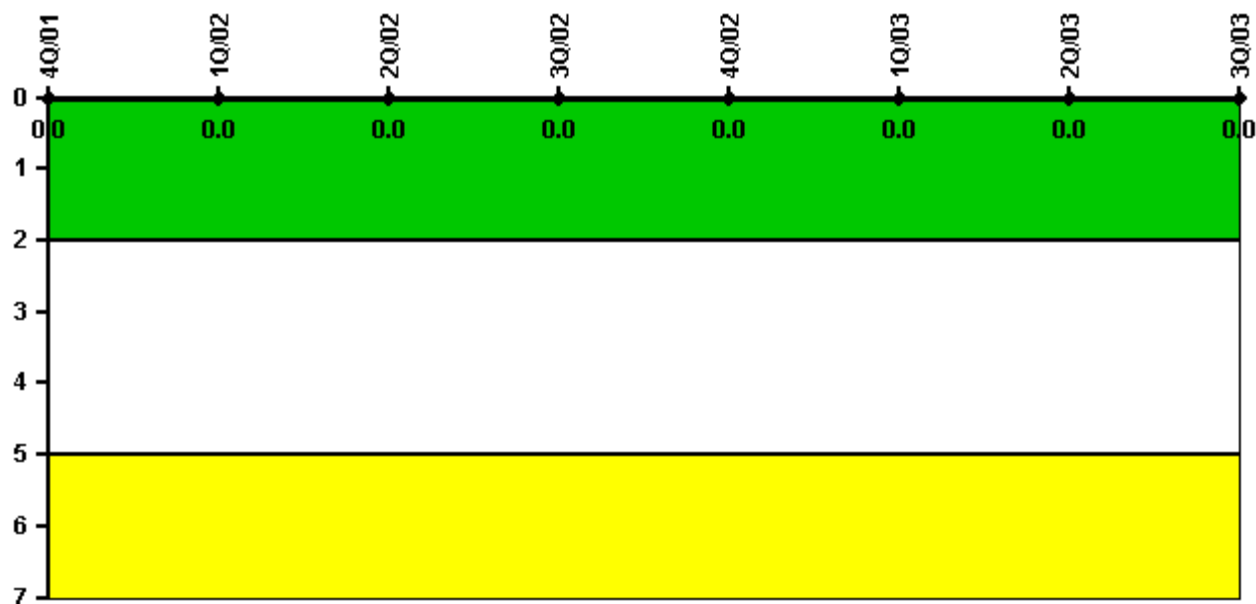
#### Notes

Protected Area Security Performance Index	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
IDS compensatory hours	22.70	55.20	24.00	16.30	6.60	3.40	0	46.00
CCTV compensatory hours	1.3	0	19.8	8.2	0	32.8	0	8.6
IDS normalization factor	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>Index Value</b>	<b>0.012</b>	<b>0.012</b>	<b>0.009</b>	<b>0.006</b>	<b>0.005</b>	<b>0.005</b>	<b>0.003</b>	<b>0.004</b>

Licensee Comments: none



### Personnel Screening Program



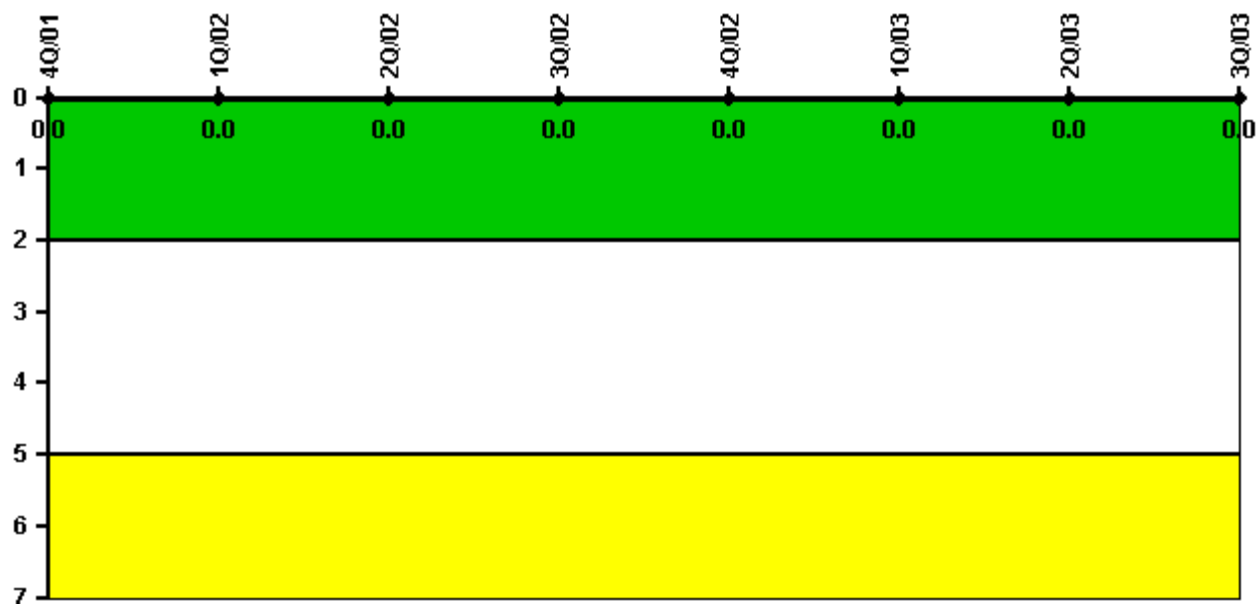
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Program failures	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

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Program Failures	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

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

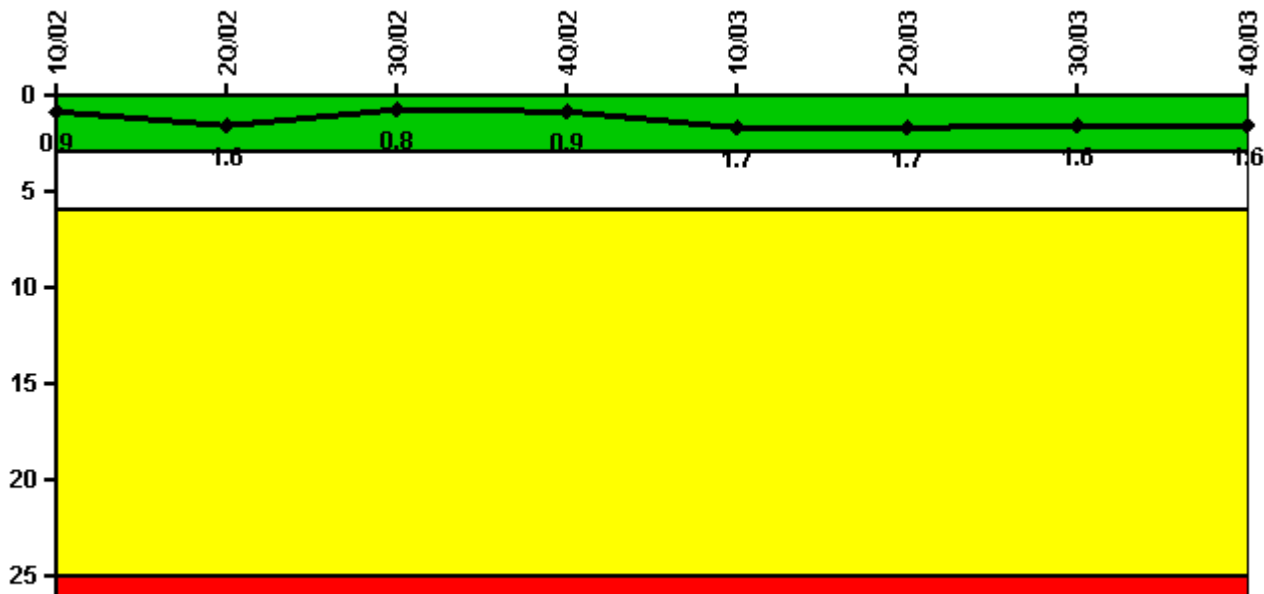
Last Modified: October 22, 2003

# Grand Gulf 1

## 4Q/2003 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



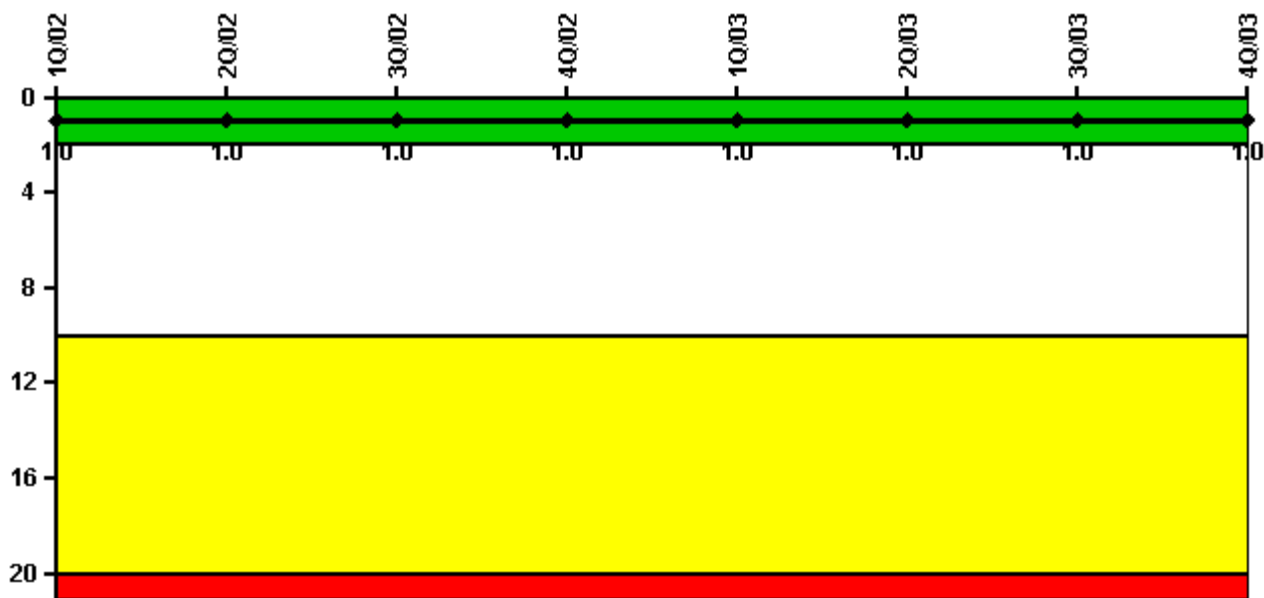
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned scrams	0	1.0	0	0	1.0	1.0	0	0
Critical hours	2160.0	2132.2	1796.0	2109.0	2133.6	2091.1	2208.0	2209.0
<b>Indicator value</b>	<b>0.9</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>1.7</b>	<b>1.7</b>	<b>1.6</b>	<b>1.6</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



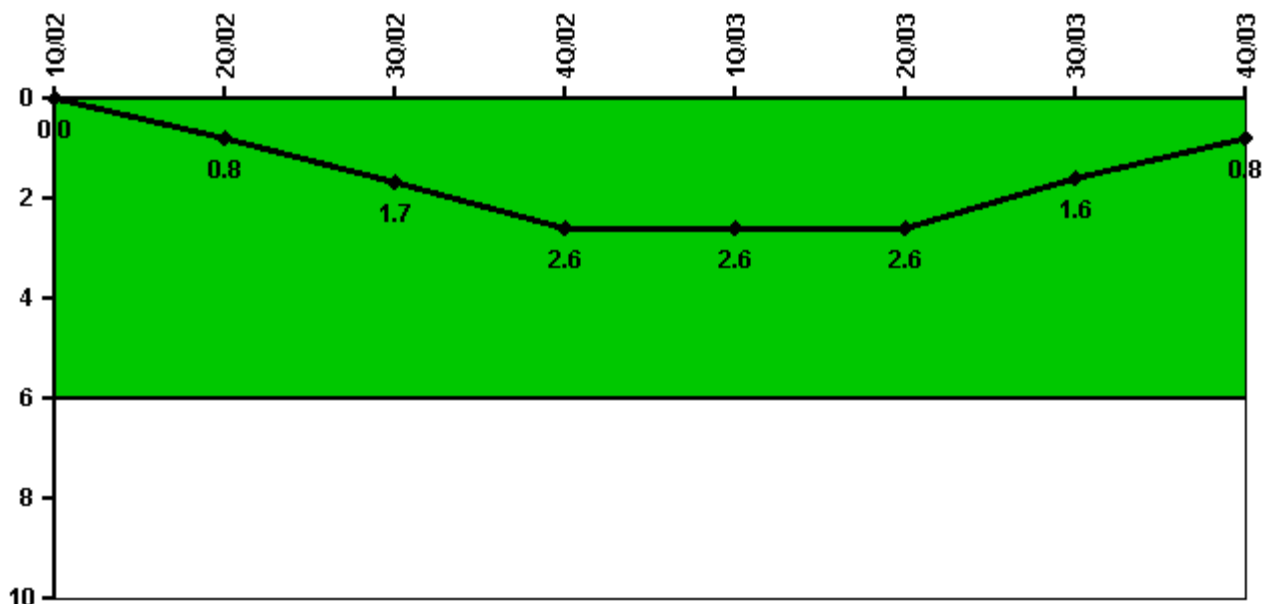
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



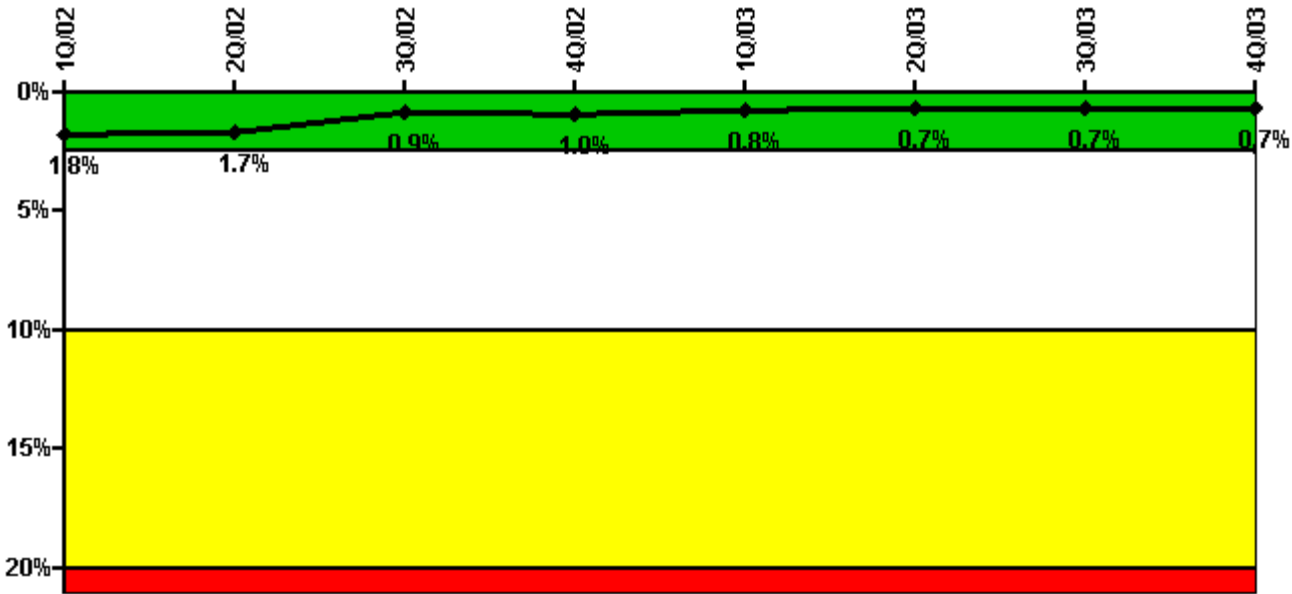
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned power changes	0	1.0	1.0	1.0	0	1.0	0	0
Critical hours	2160.0	2132.2	1796.0	2109.0	2133.6	2091.1	2208.0	2209.0
<b>Indicator value</b>	<b>0</b>	<b>0.8</b>	<b>1.7</b>	<b>2.6</b>	<b>2.6</b>	<b>2.6</b>	<b>1.6</b>	<b>0.8</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



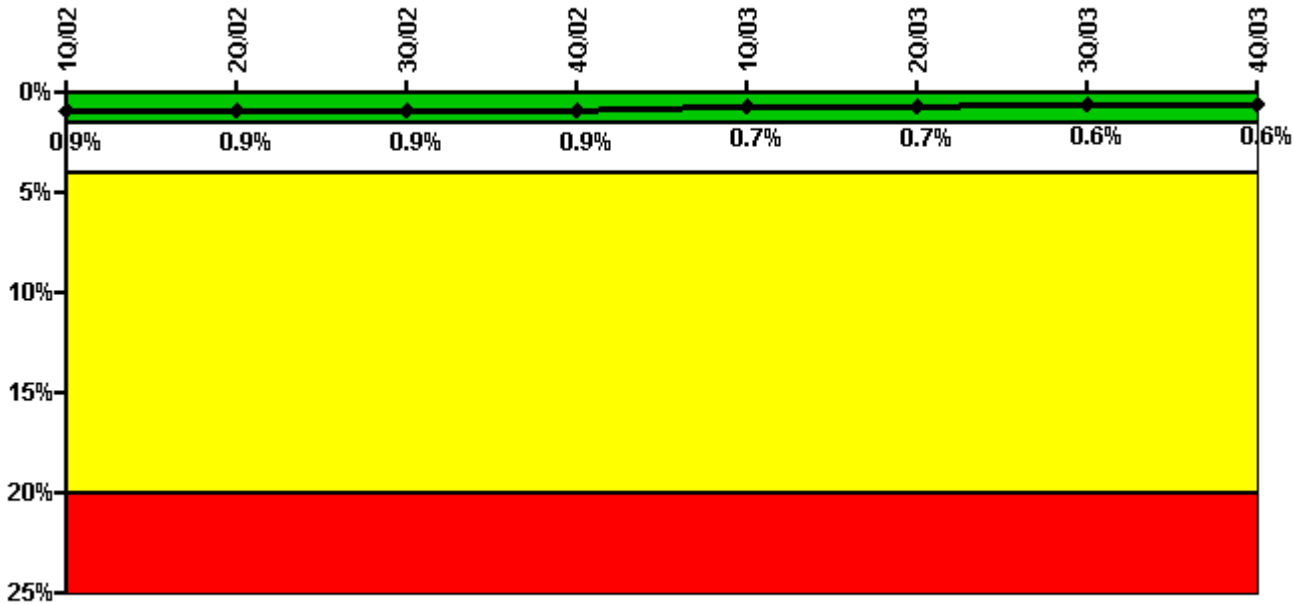
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
<b>Train 1</b>								
Planned unavailable hours	4.86	0.95	0.69	7.99	6.58	11.30	21.27	1.44
Unplanned unavailable hours	0	0	11.45	41.38	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	79.24	8.16	1.56	8.28	25.25	1.26	19.55	19.52
Unplanned unavailable hours	2.00	1.08	0	8.88	1.18	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 3</b>								
Planned unavailable hours	23.33	0.85	0.46	1.22	7.86	7.17	16.13	2.70
Unplanned unavailable hours	0	0	0	0	0	2.10	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>1.8%</b>	<b>1.7%</b>	<b>0.9%</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



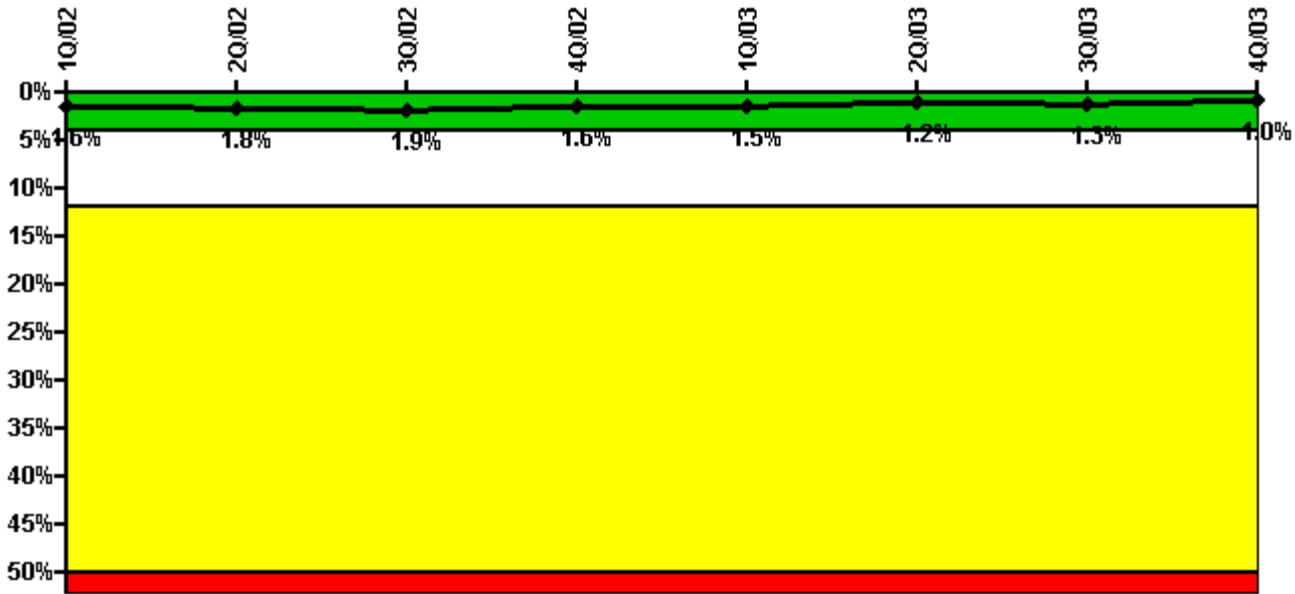
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
<b>Train 1</b>								
Planned unavailable hours	32.88	2.05	18.56	2.08	3.81	1.99	3.30	1.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2132.15	1796.00	2109.00	2133.60	2091.10	2208.00	2209.00
<b>Indicator value</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

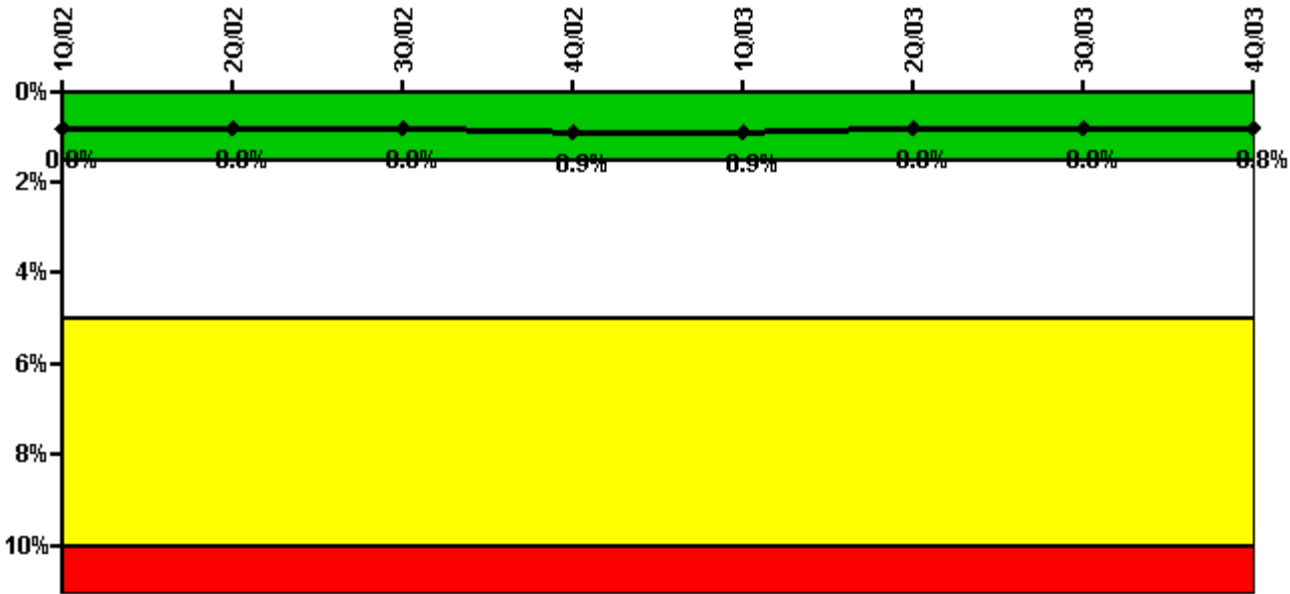
#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
<b>Train 1</b>								
Planned unavailable hours	2.84	69.56	6.43	20.13	5.51	4.23	12.74	11.35
Unplanned unavailable hours	0	11.63	0	3.42	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2132.15	1796.00	2109.00	2133.60	2091.10	2208.00	2209.00
<b>Indicator value</b>	<b>1.6%</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.6%</b>	<b>1.5%</b>	<b>1.2%</b>	<b>1.3%</b>	<b>1.0%</b>

Licensee Comments: none



### Safety System Unavailability, Residual Heat Removal System



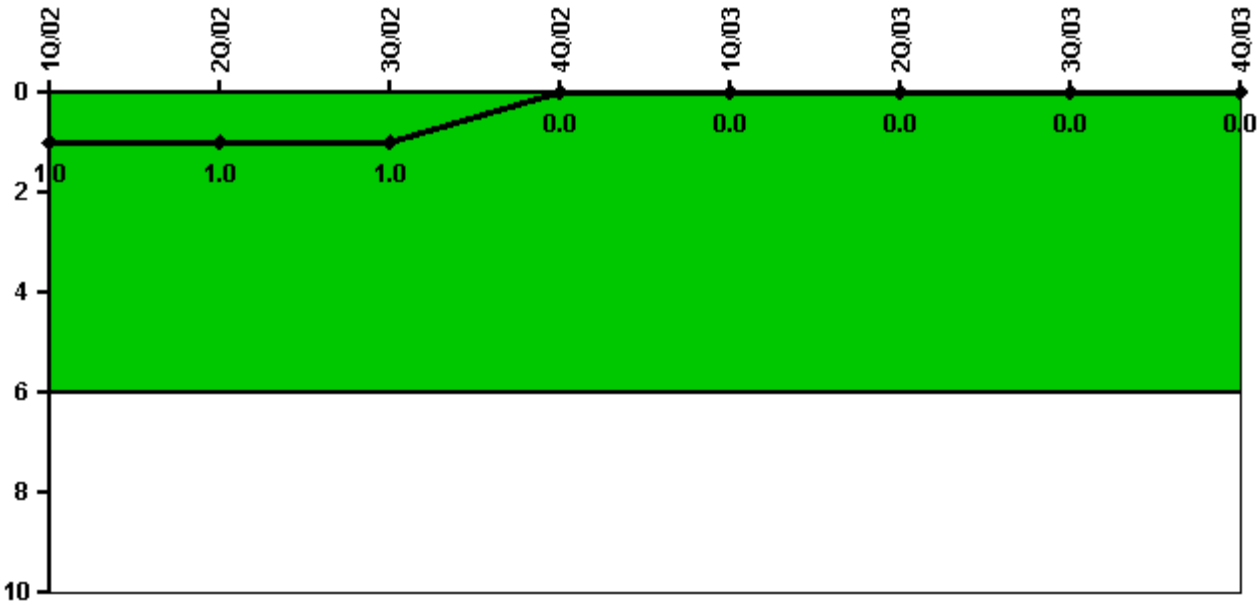
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
<b>Train 1</b>								
Planned unavailable hours	19.05	2.40	19.84	14.33	12.69	12.42	46.38	3.68
Unplanned unavailable hours	0	15.27	3.77	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	14.17	22.15	5.02	43.58	16.88	2.83	16.02	3.85
Unplanned unavailable hours	2.00	0	3.32	12.88	1.12	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



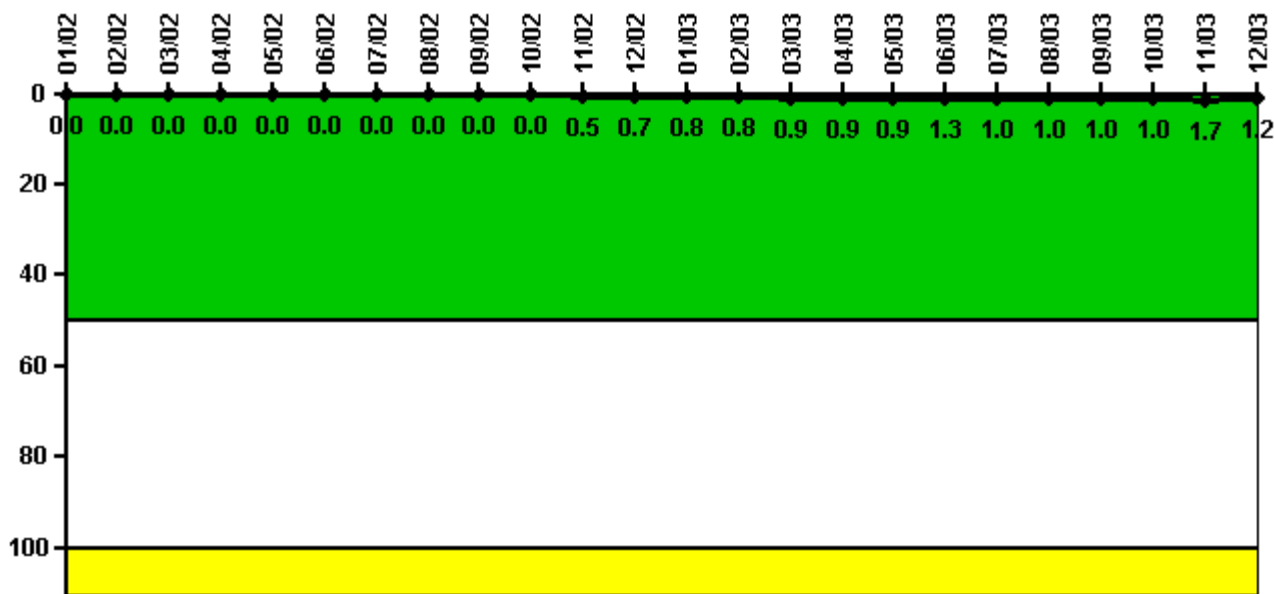
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

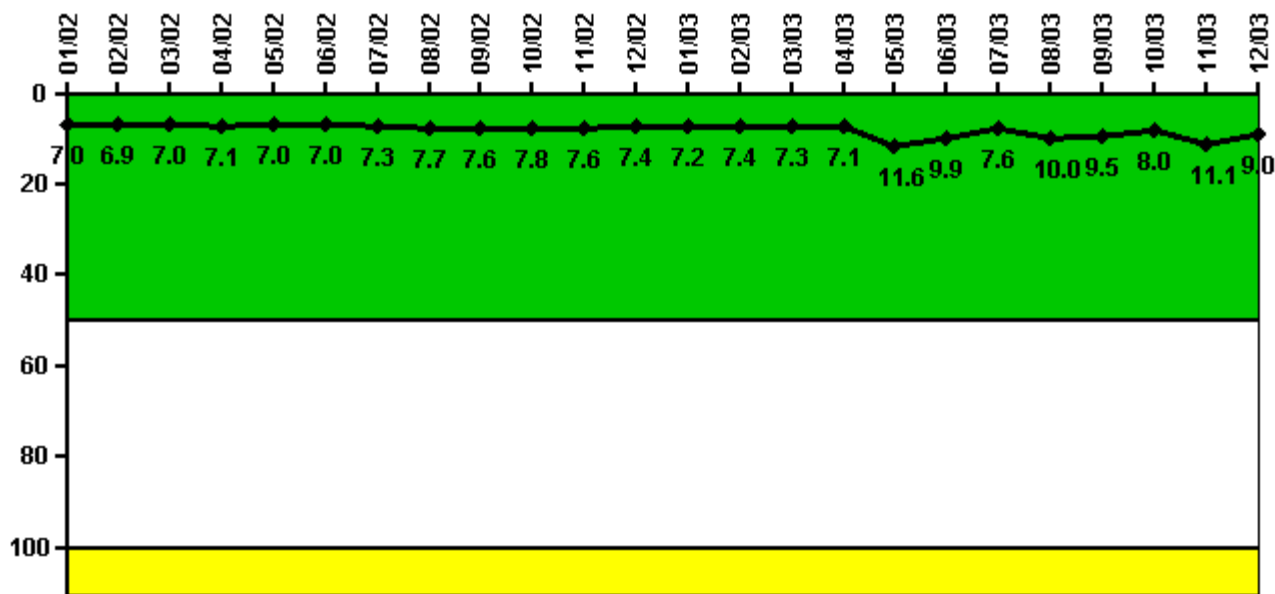
Reactor Coolant System Activity	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum activity	0.000034	0.000044	0.000030	0.000028	0.000028	0.000030	0.000027	0.000029	0.000025	0.000015	0.001080	0.001440
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0.5	0.7

Reactor Coolant System Activity	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity	0.001610	0.001660	0.001810	0.001760	0.001870	0.002510	0.002080	0.002060	0.001980	0.002020	0.003440	0.002350
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	0.8	0.8	0.9	0.9	0.9	1.3	1.0	1.0	1.0	1.0	1.7	1.2

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

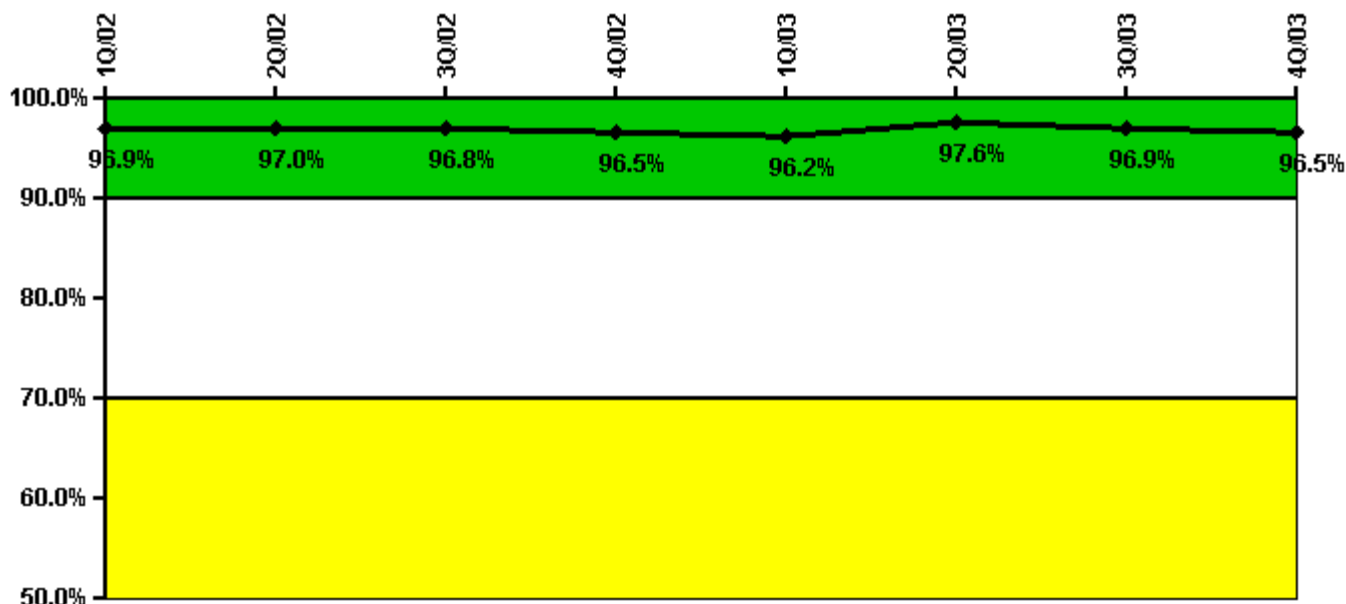
Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	2.090	2.080	2.100	2.130	2.090	2.110	2.190	2.310	2.270	2.330	2.290	2.210
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.0	6.9	7.0	7.1	7.0	7.0	7.3	7.7	7.6	7.8	7.6	7.4

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	2.165	2.205	2.190	2.123	3.480	2.980	2.290	3.010	2.840	2.410	3.320	2.700
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.2	7.4	7.3	7.1	11.6	9.9	7.6	10.0	9.5	8.0	11.1	9.0

Licensee Comments: none

### Drill/Exercise Performance



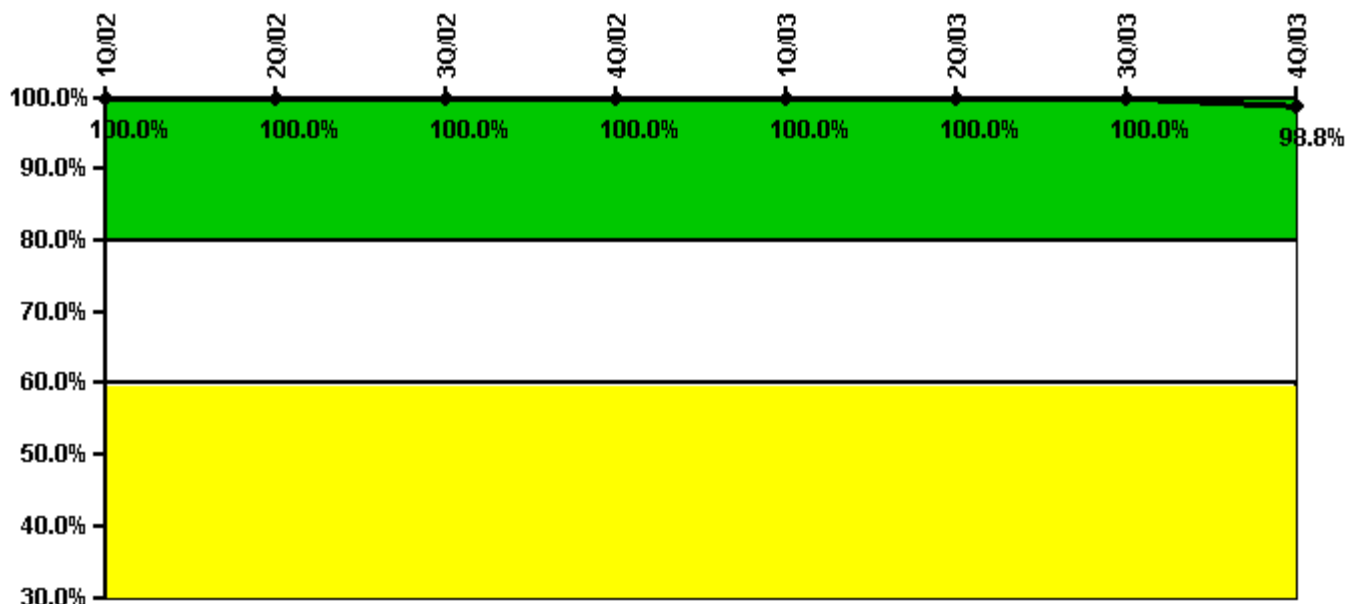
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful opportunities	32.0	18.0	10.0	18.0	10.0	7.0	31.0	12.0
Total opportunities	35.0	18.0	10.0	18.0	10.0	8.0	32.0	12.0
<b>Indicator value</b>	<b>96.9%</b>	<b>97.0%</b>	<b>96.8%</b>	<b>96.5%</b>	<b>96.2%</b>	<b>97.6%</b>	<b>96.9%</b>	<b>96.5%</b>

Licensee Comments: none

### ERO Drill Participation



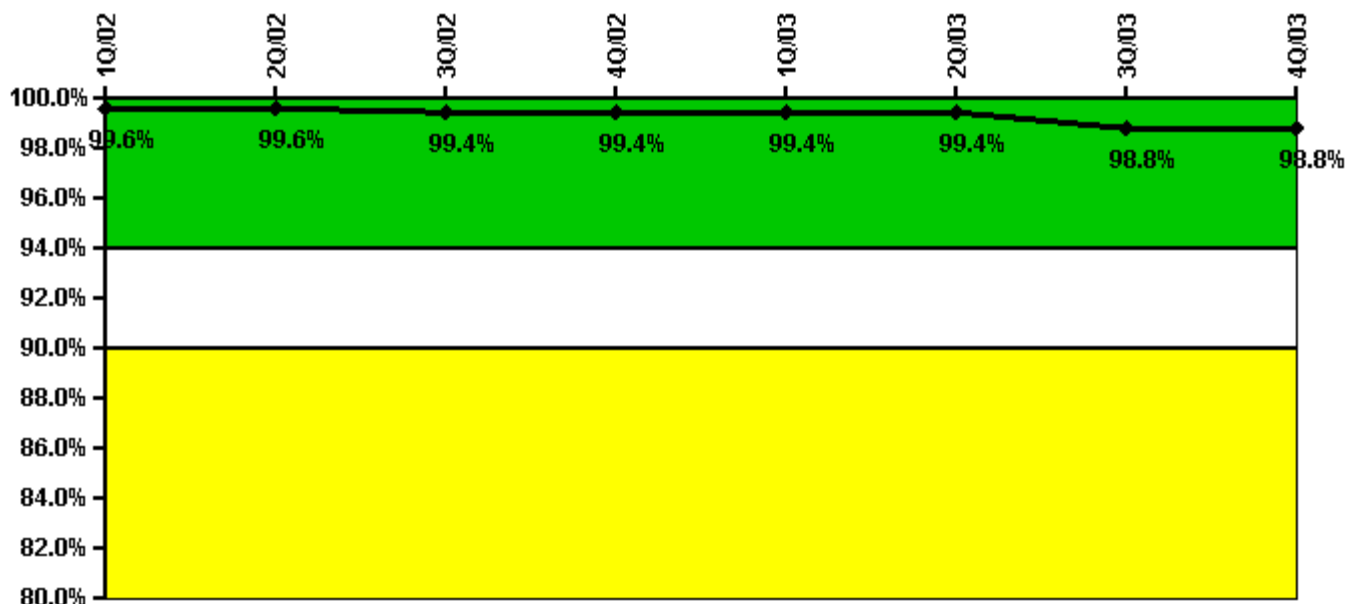
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Participating Key personnel	84.0	80.0	77.0	81.0	81.0	80.0	81.0	82.0
Total Key personnel	84.0	80.0	77.0	81.0	81.0	80.0	81.0	83.0
<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>98.8%</b>

Licensee Comments: none

### Alert & Notification System



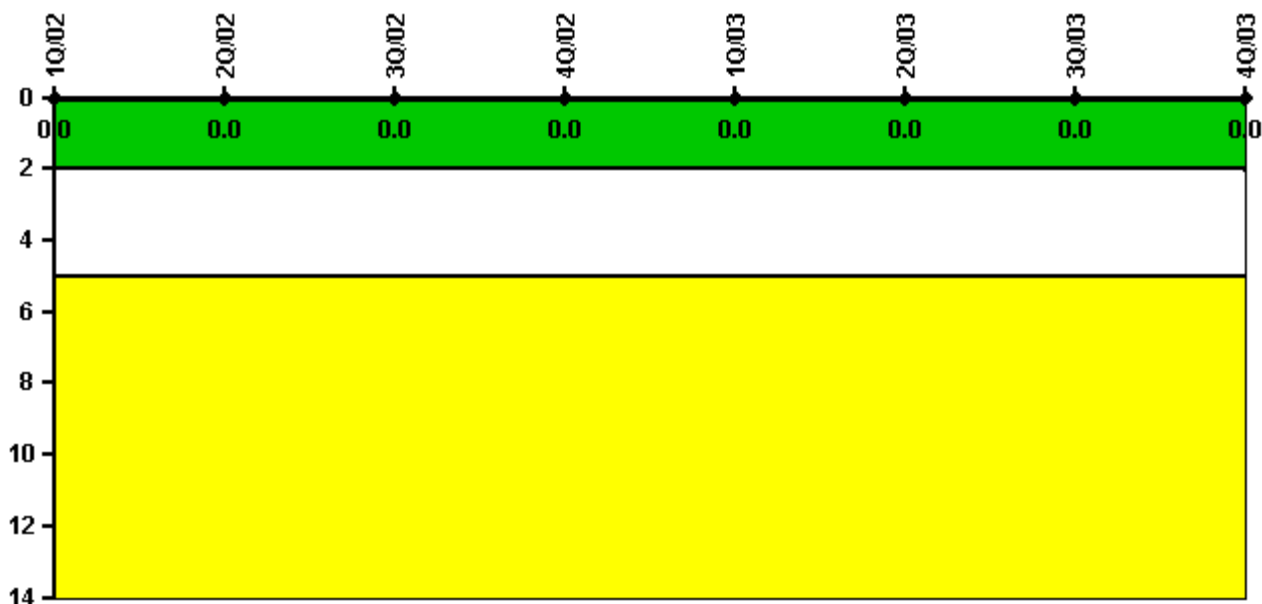
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful siren-tests	129	127	127	129	129	128	124	129
Total sirens-tests	129	128	129	129	129	129	129	129
<b>Indicator value</b>	<b>99.6%</b>	<b>99.6%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>98.8%</b>	<b>98.8%</b>

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
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



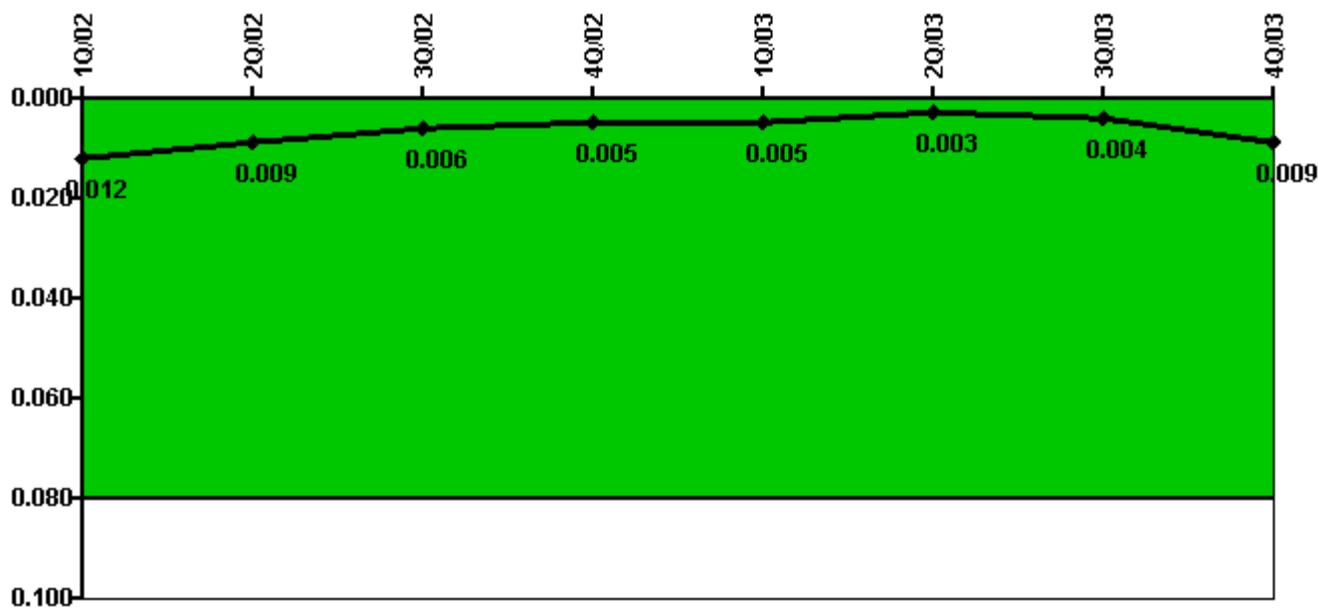
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



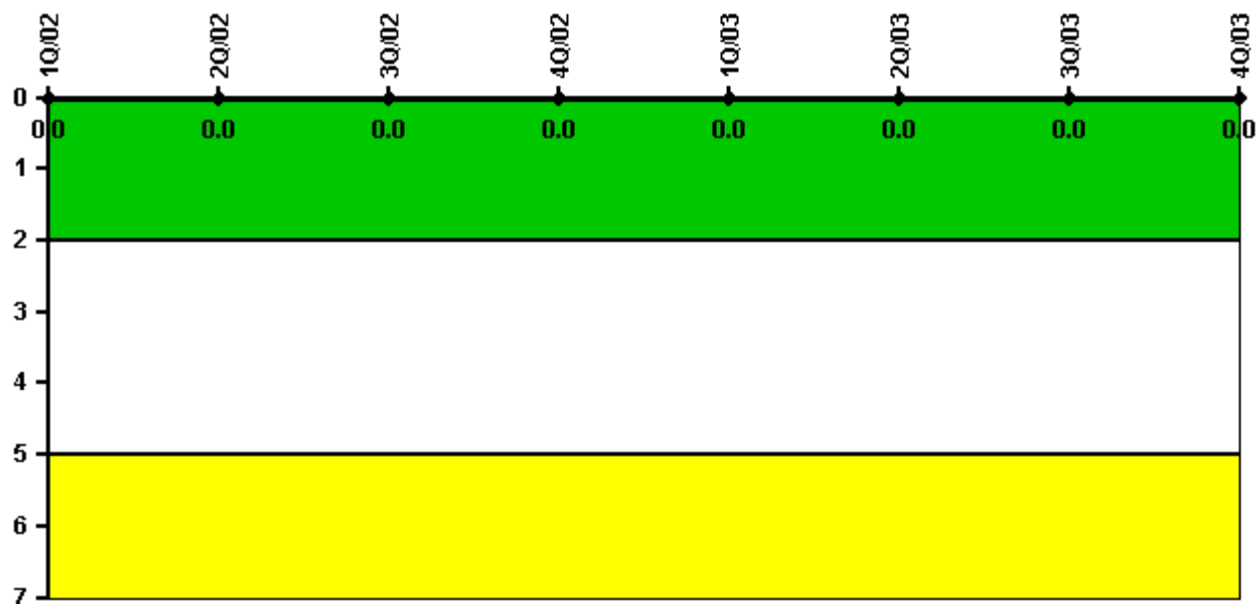
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
IDS compensatory hours	55.20	24.00	16.30	6.60	3.40	0	46.00	8.30
CCTV compensatory hours	0	19.8	8.2	0	32.8	0	8.6	77.3
IDS normalization factor	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>Index Value</b>	<b>0.012</b>	<b>0.009</b>	<b>0.006</b>	<b>0.005</b>	<b>0.005</b>	<b>0.003</b>	<b>0.004</b>	<b>0.009</b>

Licensee Comments: none

### Personnel Screening Program



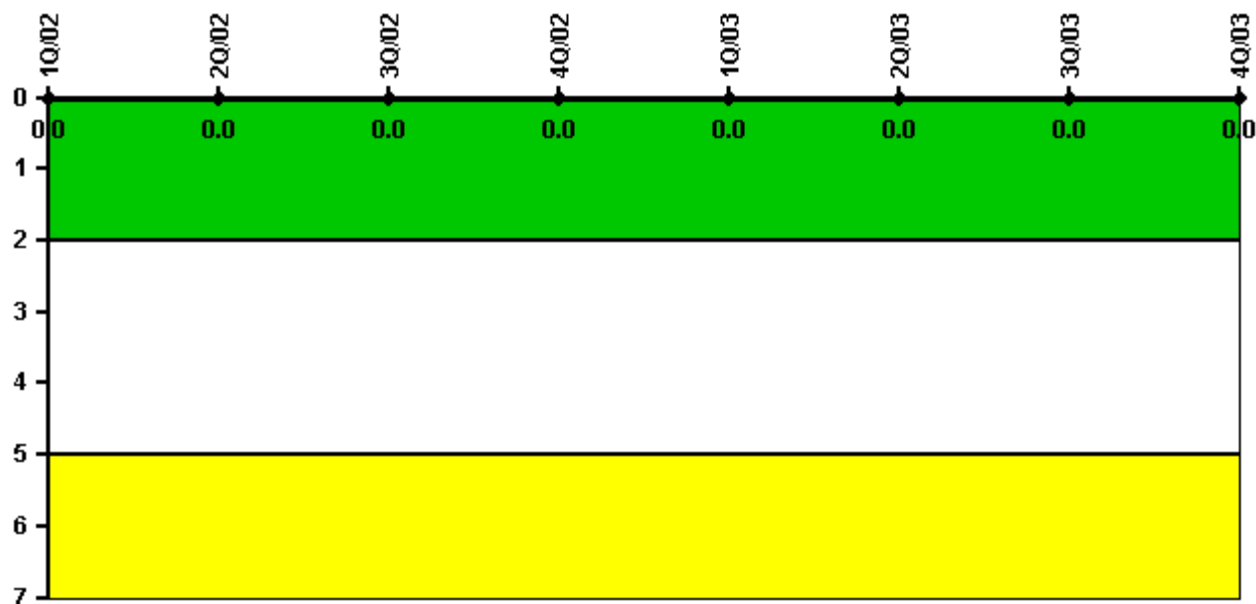
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Program failures	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

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

FFD/Personnel Reliability	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Program Failures	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

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

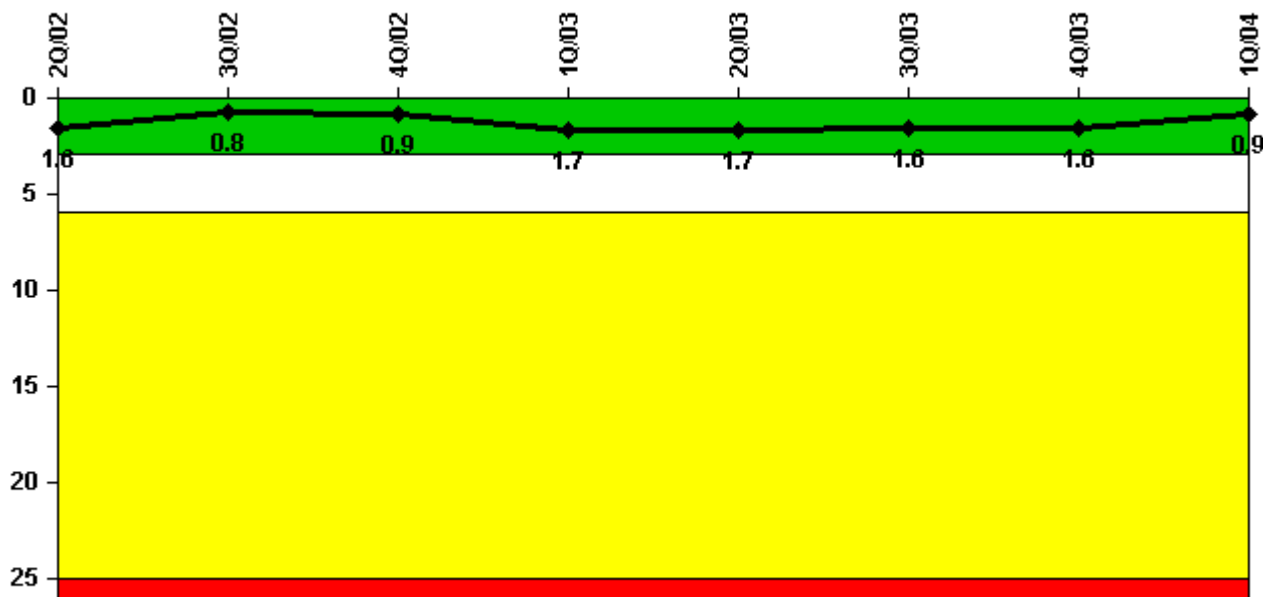
Last Modified: January 23, 2004

# Grand Gulf 1

## 1Q/2004 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/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned scrams	1.0	0	0	1.0	1.0	0	0	0
Critical hours	2132.2	1796.0	2109.0	2133.6	2091.1	2208.0	2209.0	1500.5
<b>Indicator value</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>1.7</b>	<b>1.7</b>	<b>1.6</b>	<b>1.6</b>	<b>0.9</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



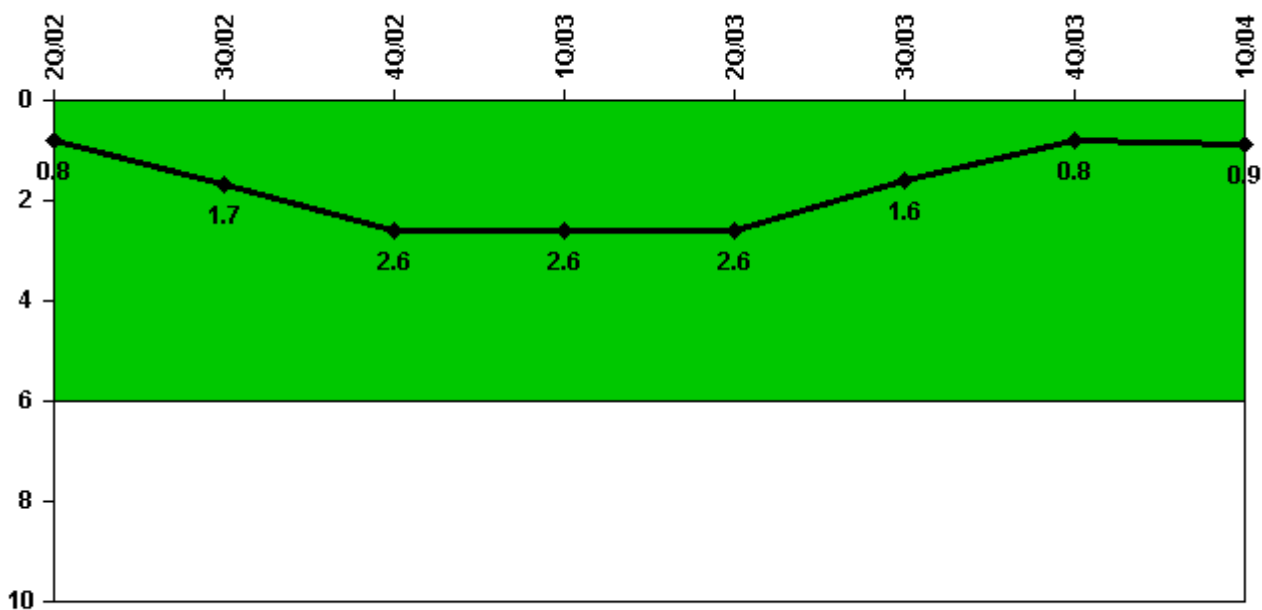
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



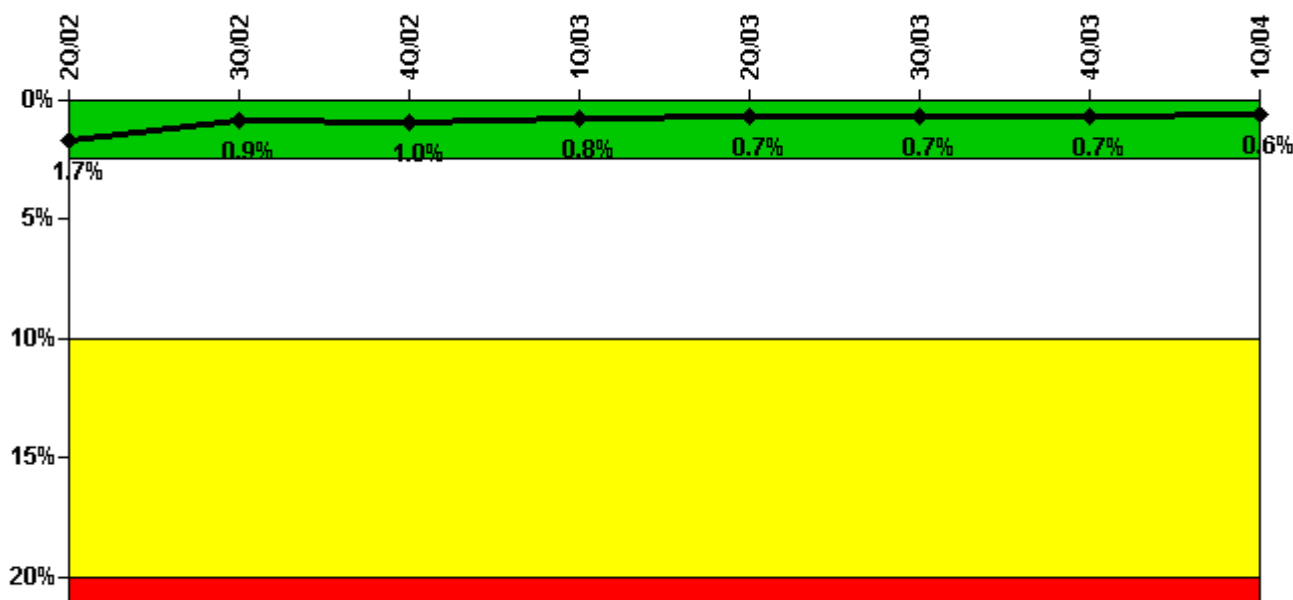
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned power changes	1.0	1.0	1.0	0	1.0	0	0	0
Critical hours	2132.2	1796.0	2109.0	2133.6	2091.1	2208.0	2209.0	1500.5
Indicator value	<b>0.8</b>	<b>1.7</b>	<b>2.6</b>	<b>2.6</b>	<b>2.6</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

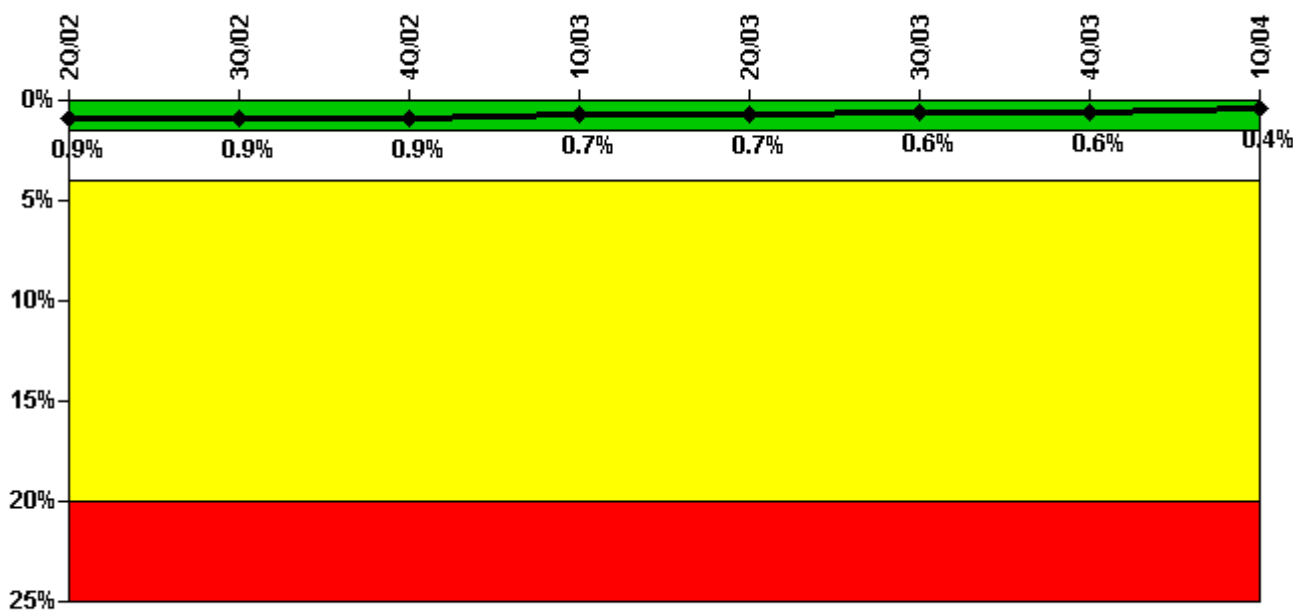
#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
<b>Train 1</b>								
Planned unavailable hours	0.95	0.69	7.99	6.58	11.30	21.27	1.44	13.77
Unplanned unavailable hours	0	11.45	41.38	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Train 2</b>								
Planned unavailable hours	8.16	1.56	8.28	25.25	1.26	19.55	19.52	1.06
Unplanned unavailable hours	1.08	0	8.88	1.18	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Train 3</b>								
Planned unavailable hours	0.85	0.46	1.22	7.86	7.17	16.13	2.70	8.57
Unplanned unavailable hours	0	0	0	0	2.10	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Indicator value</b>	<b>1.7%</b>	<b>0.9%</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>

Licensee Comments: none



### Safety System Unavailability, High Pressure Injection System (HPCS)



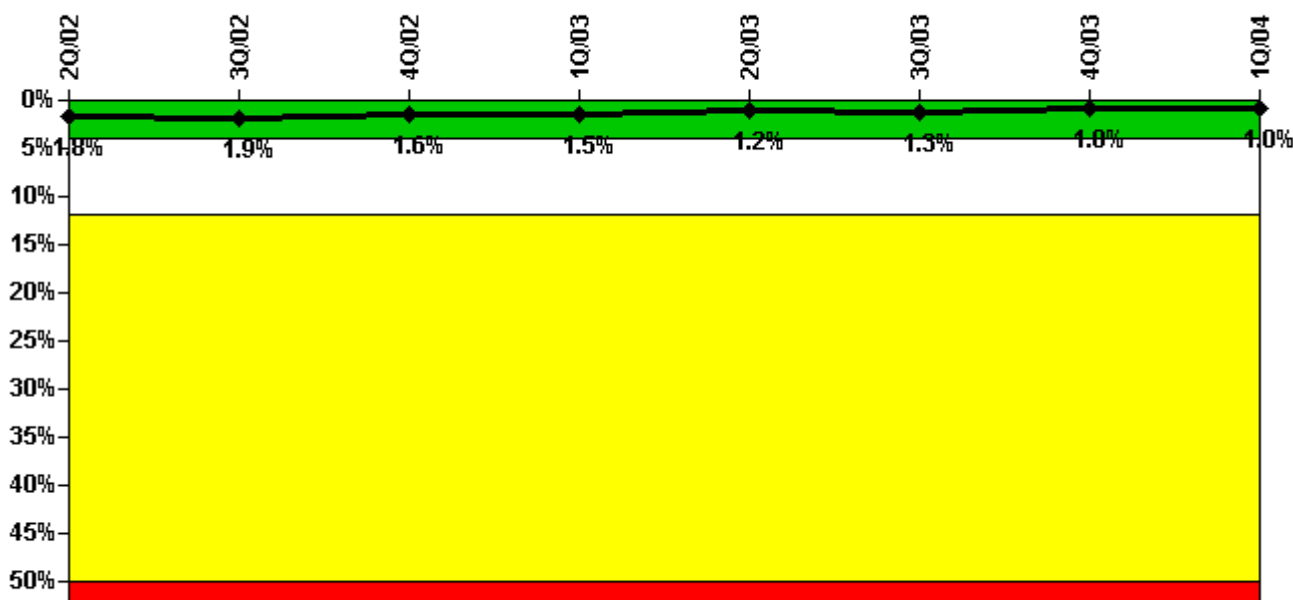
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
<b>Train 1</b>								
Planned unavailable hours	2.05	18.56	2.08	3.81	1.99	3.30	1.40	0.65
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2132.15	1796.00	2109.00	2133.60	2091.10	2208.00	2209.00	1500.48
<b>Indicator value</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.4%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



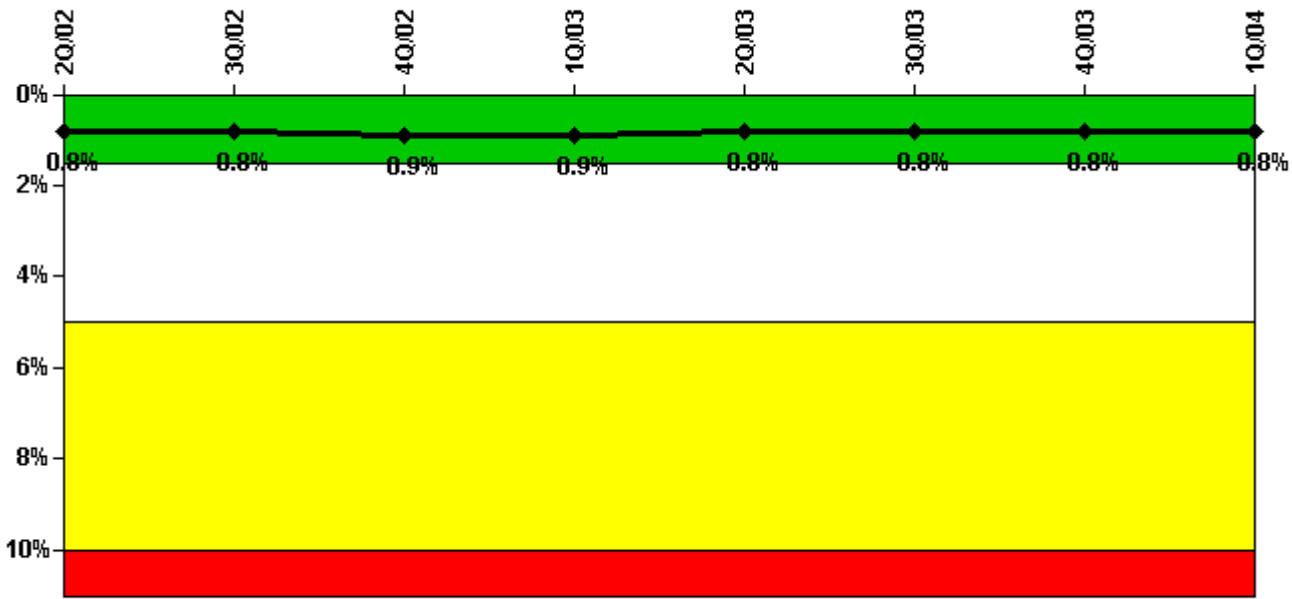
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
<b>Train 1</b>								
Planned unavailable hours	69.56	6.43	20.13	5.51	4.23	12.74	11.35	12.12
Unplanned unavailable hours	11.63	0	3.42	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2132.15	1796.00	2109.00	2133.60	2091.10	2208.00	2209.00	1500.48
<b>Indicator value</b>	<b>1.8%</b>	<b>1.9%</b>	<b>1.6%</b>	<b>1.5%</b>	<b>1.2%</b>	<b>1.3%</b>	<b>1.0%</b>	<b>1.0%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



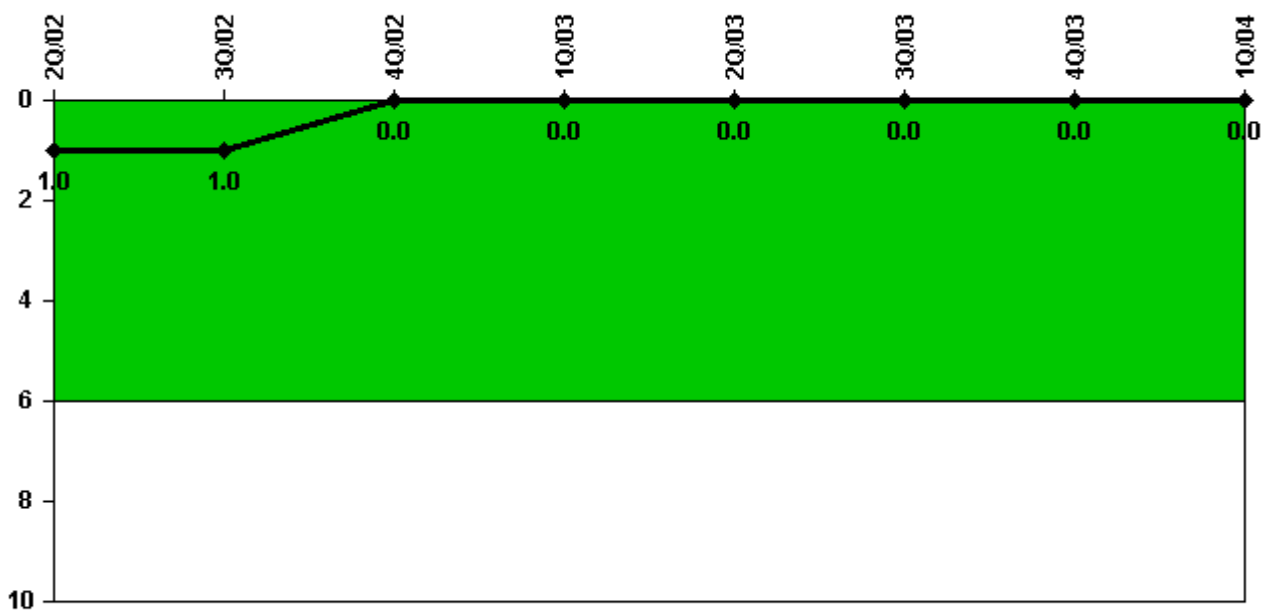
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
<b>Train 1</b>								
Planned unavailable hours	2.40	19.84	14.33	12.69	12.42	46.38	3.68	13.02
Unplanned unavailable hours	15.27	3.77	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Train 2</b>								
Planned unavailable hours	22.15	5.02	43.58	16.88	2.83	16.02	3.85	3.52
Unplanned unavailable hours	0	3.32	12.88	1.12	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



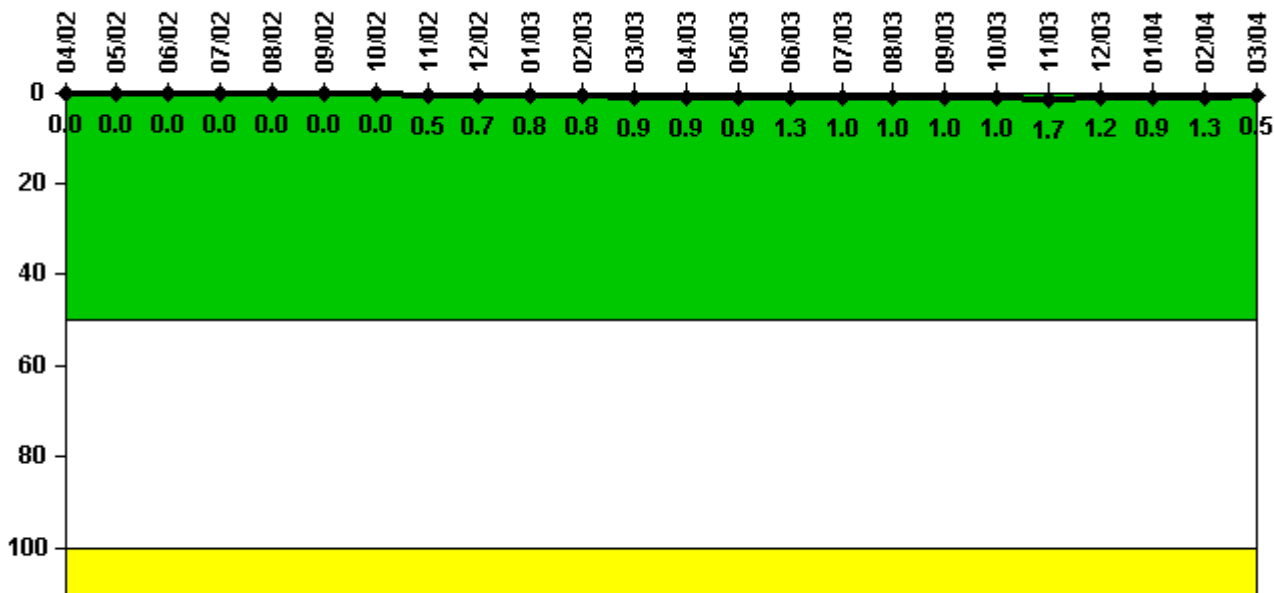
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	1	0	0	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

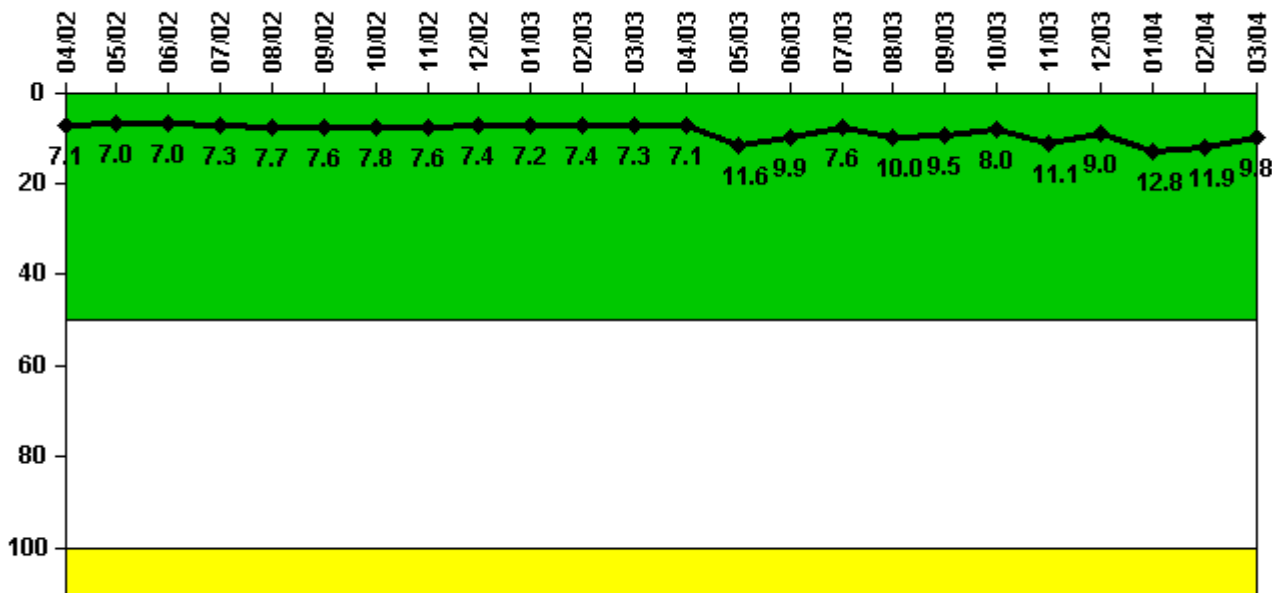
Reactor Coolant System Activity	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.000028	0.000028	0.000030	0.000027	0.000029	0.000025	0.000015	0.001080	0.001440	0.001610	0.001660	0.001810
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0.5	0.7	0.8	0.8	0.9

Reactor Coolant System Activity	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum activity	0.001760	0.001870	0.002510	0.002080	0.002060	0.001980	0.002020	0.003440	0.002350	0.001800	0.002590	0.000905
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	0.9	0.9	1.3	1.0	1.0	1.0	1.0	1.7	1.2	0.9	1.3	0.5

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

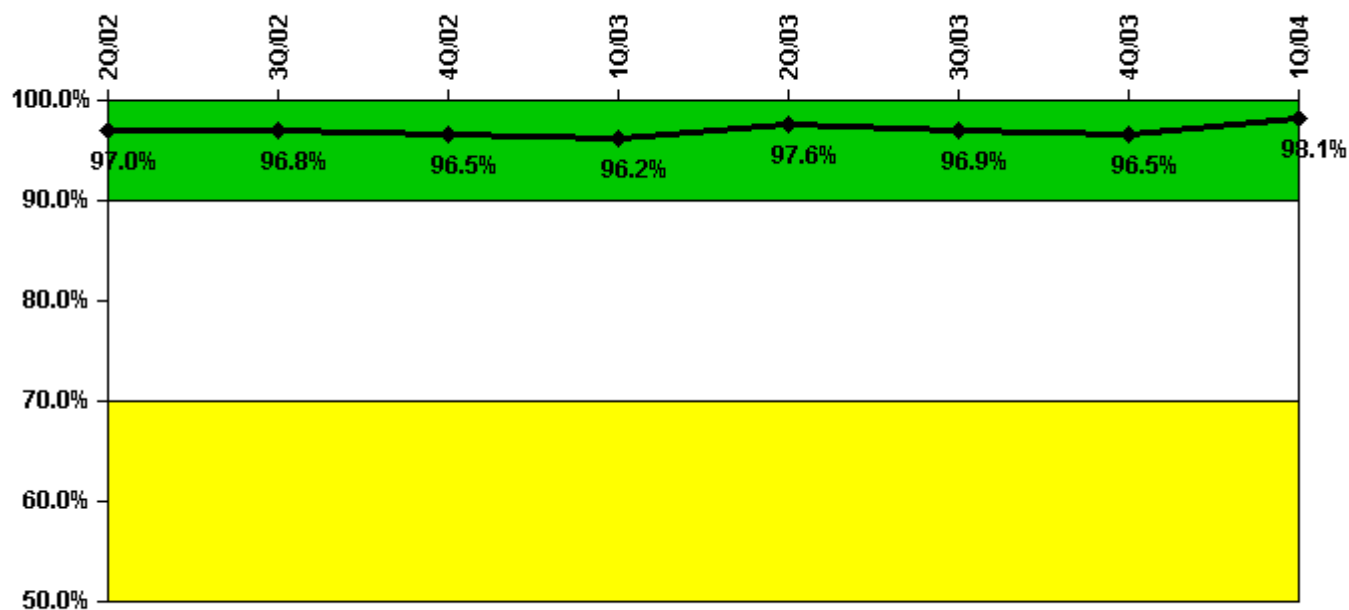
Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	2.130	2.090	2.110	2.190	2.310	2.270	2.330	2.290	2.210	2.165	2.205	2.190
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.1	7.0	7.0	7.3	7.7	7.6	7.8	7.6	7.4	7.2	7.4	7.3

Reactor Coolant System Leakage	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum leakage	2.123	3.480	2.980	2.290	3.010	2.840	2.410	3.320	2.700	3.850	3.580	2.950
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.1	11.6	9.9	7.6	10.0	9.5	8.0	11.1	9.0	12.8	11.9	9.8

Licensee Comments: none

### Drill/Exercise Performance



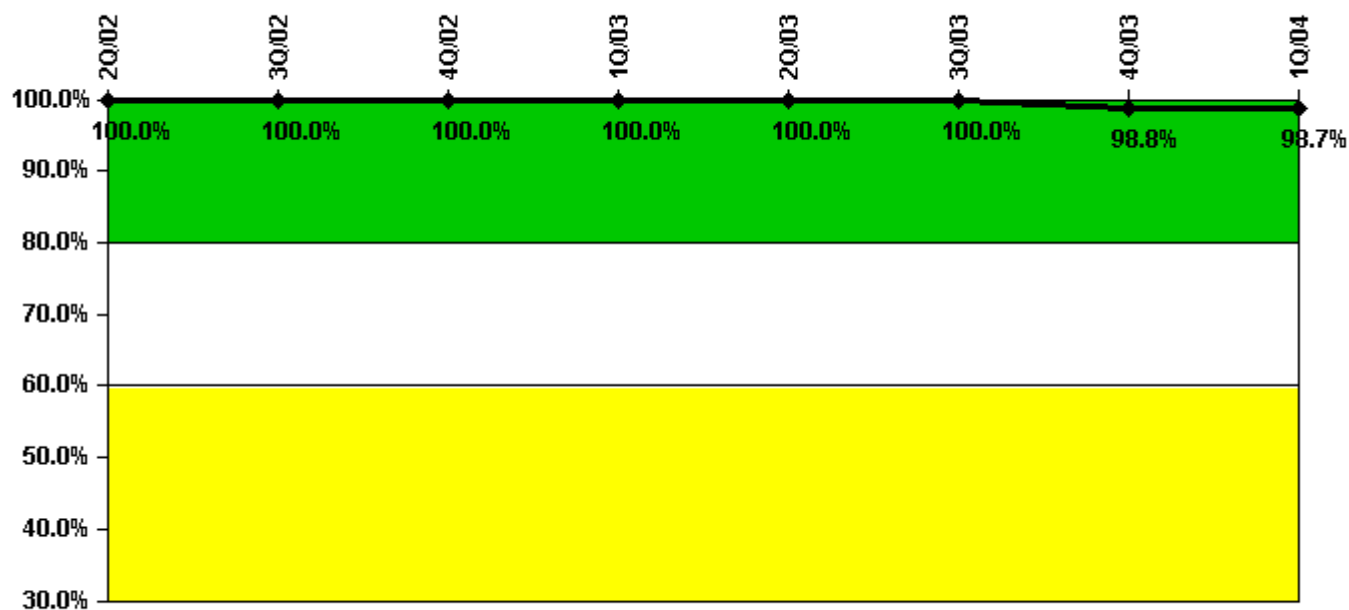
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful opportunities	18.0	10.0	18.0	10.0	7.0	31.0	12.0	0
Total opportunities	18.0	10.0	18.0	10.0	8.0	32.0	12.0	0
<b>Indicator value</b>	<b>97.0%</b>	<b>96.8%</b>	<b>96.5%</b>	<b>96.2%</b>	<b>97.6%</b>	<b>96.9%</b>	<b>96.5%</b>	<b>98.1%</b>

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

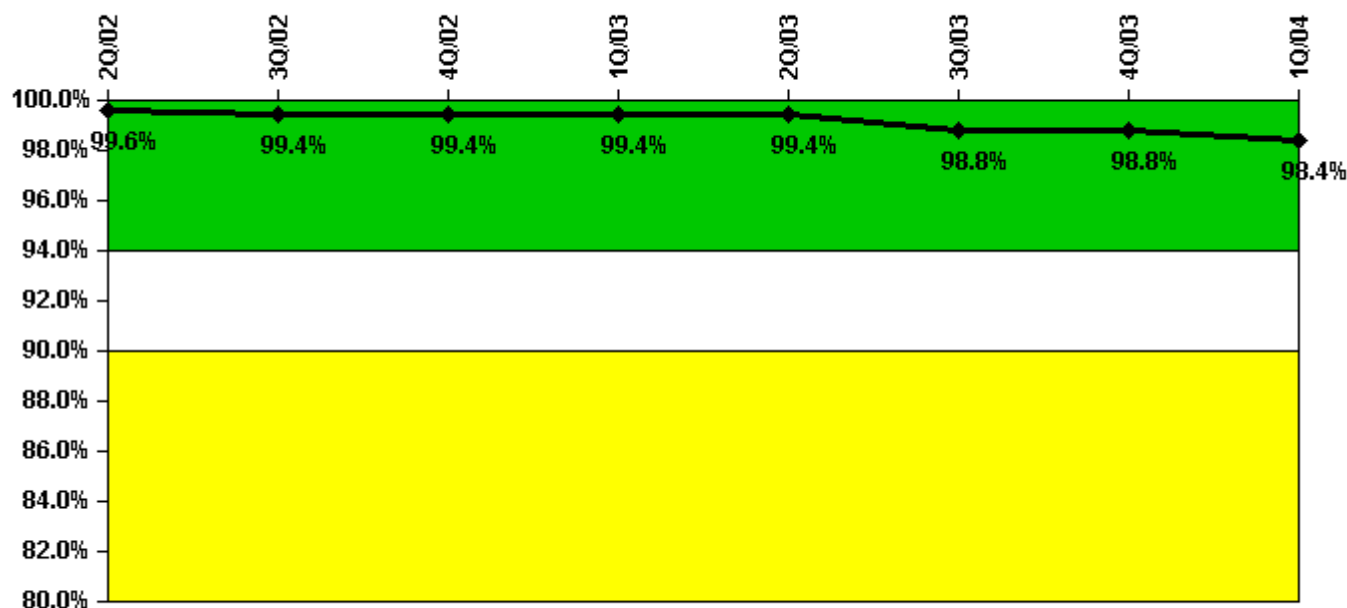
#### Notes

ERO Drill Participation	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Participating Key personnel	80.0	77.0	81.0	81.0	80.0	81.0	82.0	76.0
Total Key personnel	80.0	77.0	81.0	81.0	80.0	81.0	83.0	77.0
<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>98.8%</b>	<b>98.7%</b>

Licensee Comments: none



### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

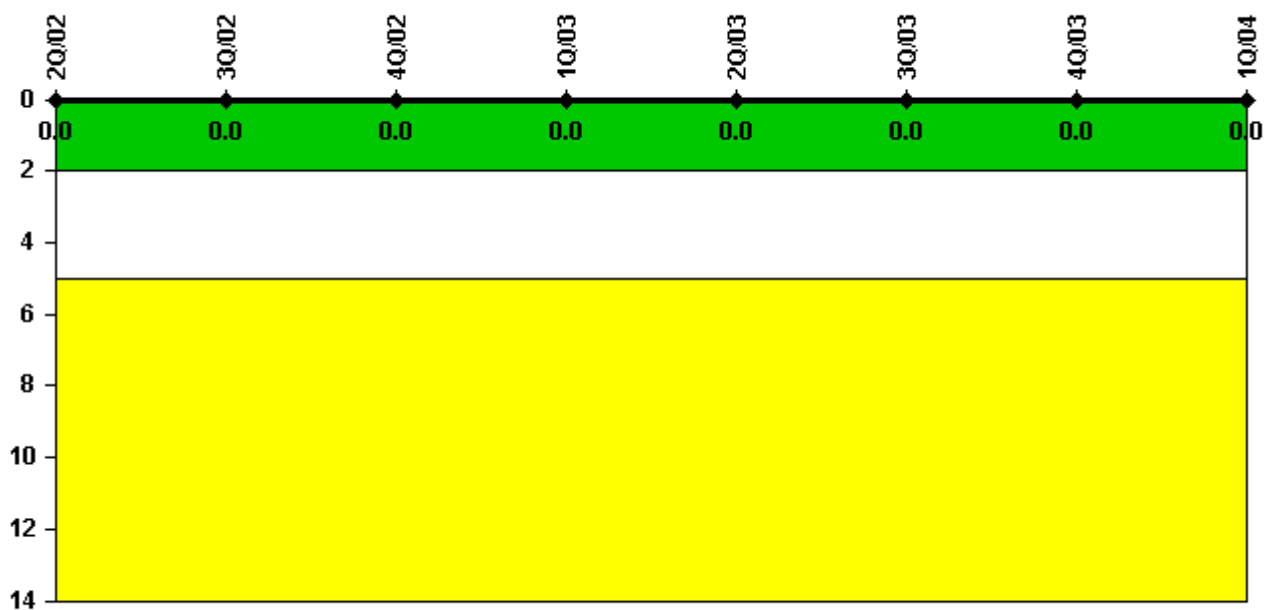
#### Notes

Alert & Notification System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful siren-tests	127	127	129	129	128	124	129	127
Total sirens-tests	128	129	129	129	129	129	129	129
<b>Indicator value</b>	<b>99.6%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>98.8%</b>	<b>98.8%</b>	<b>98.4%</b>

#### Licensee Comments:

1Q/04: The siren control and feedback system has been upgraded and has no affect on the testing calculation. Upon activation of the new system, automatic signals are sent to the sirens. Previous system utilized manual signal initiation. (Ref: FAQ 358)

### Occupational Exposure Control Effectiveness



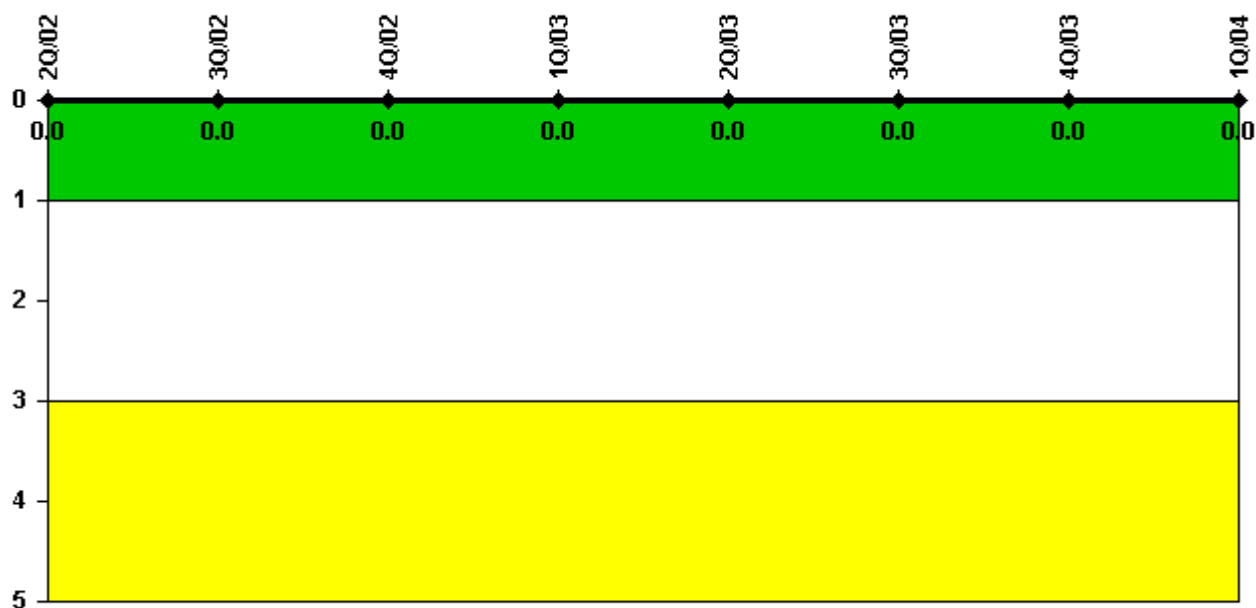
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
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



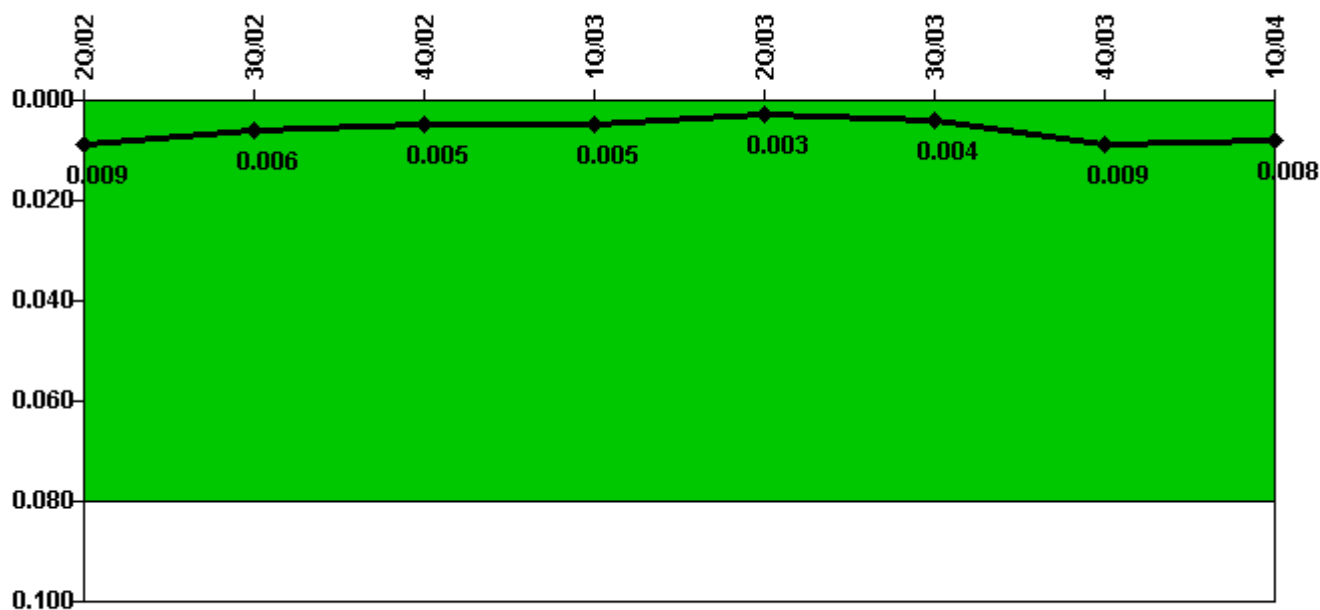
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
RETS/ODCM 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

### Protected Area Security Performance Index



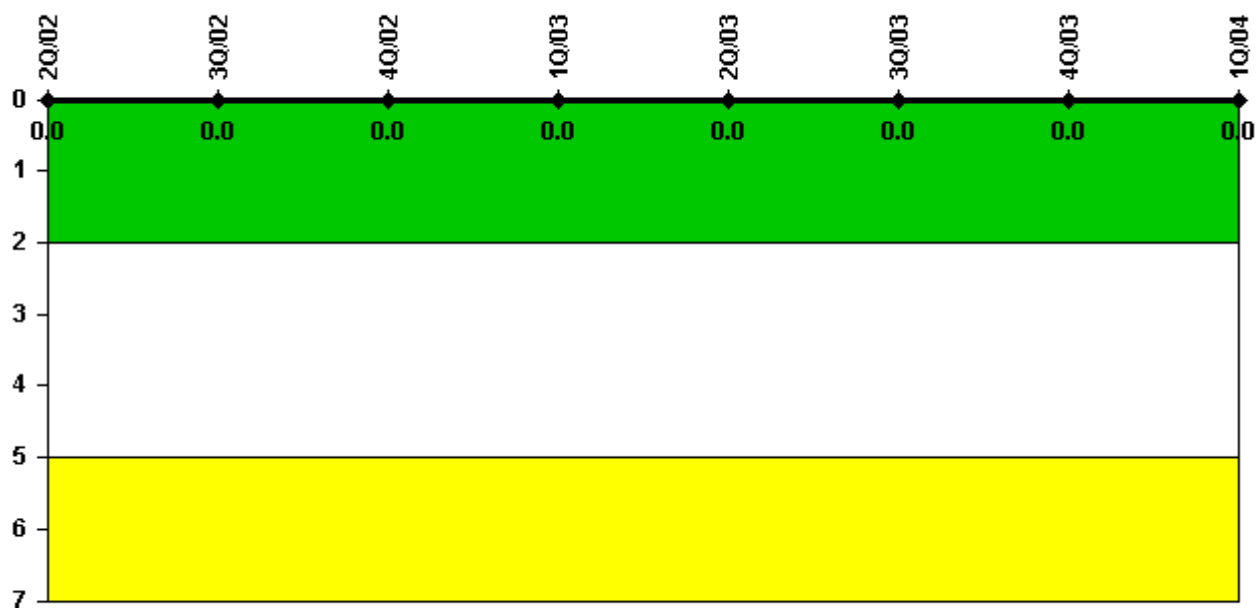
Thresholds: White > 0.080

#### Notes

Protected Area Security Performance Index	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
IDS compensatory hours	24.00	16.30	6.60	3.40	0	46.00	8.30	35.40
CCTV compensatory hours	19.8	8.2	0	32.8	0	8.6	77.3	0
IDS normalization factor	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>Index Value</b>	<b>0.009</b>	<b>0.006</b>	<b>0.005</b>	<b>0.005</b>	<b>0.003</b>	<b>0.004</b>	<b>0.009</b>	<b>0.008</b>

Licensee Comments: none

### Personnel Screening Program



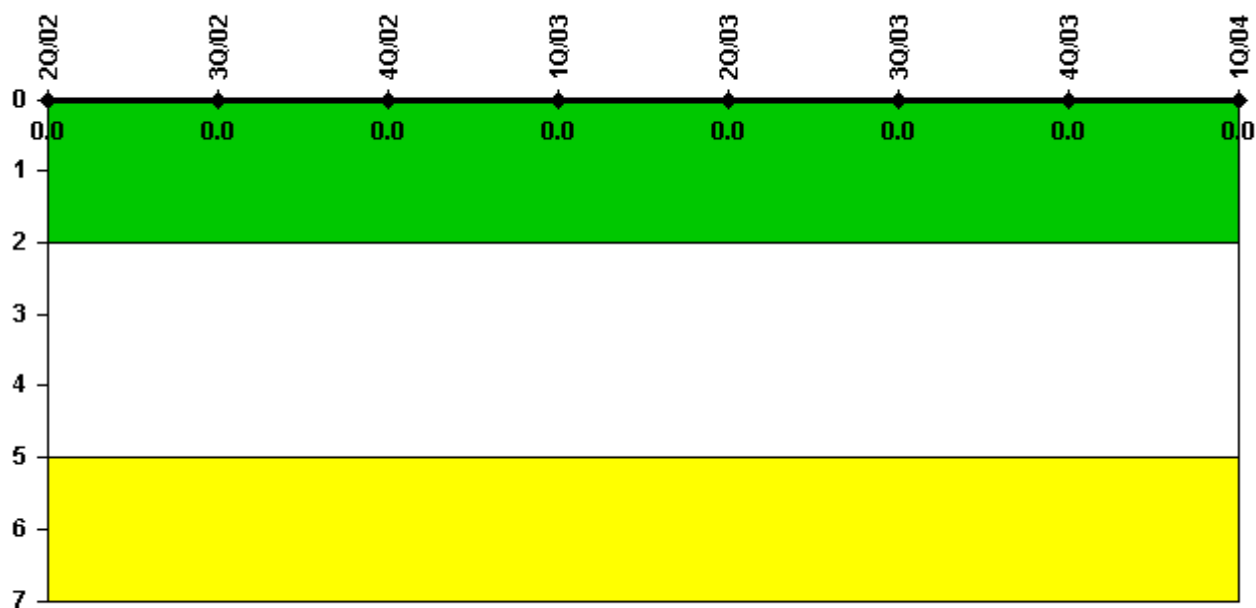
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Program failures	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

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

### Notes

FFD/Personnel Reliability	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Program Failures	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

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

Last Modified: April 22, 2004

# Grand Gulf 1

## 2Q/2004 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



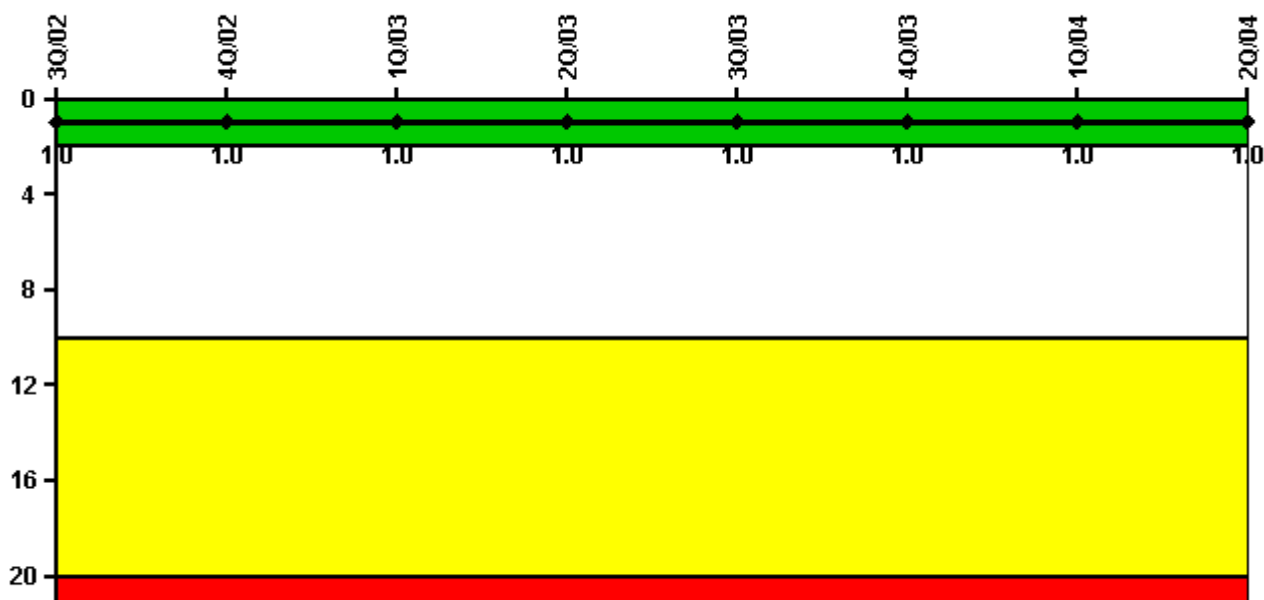
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	0	0	1.0	1.0	0	0	0	0
Critical hours	1796.0	2109.0	2133.6	2091.1	2208.0	2209.0	1500.5	2183.0
<b>Indicator value</b>	<b>0.8</b>	<b>0.9</b>	<b>1.7</b>	<b>1.7</b>	<b>1.6</b>	<b>1.6</b>	<b>0.9</b>	<b>0</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

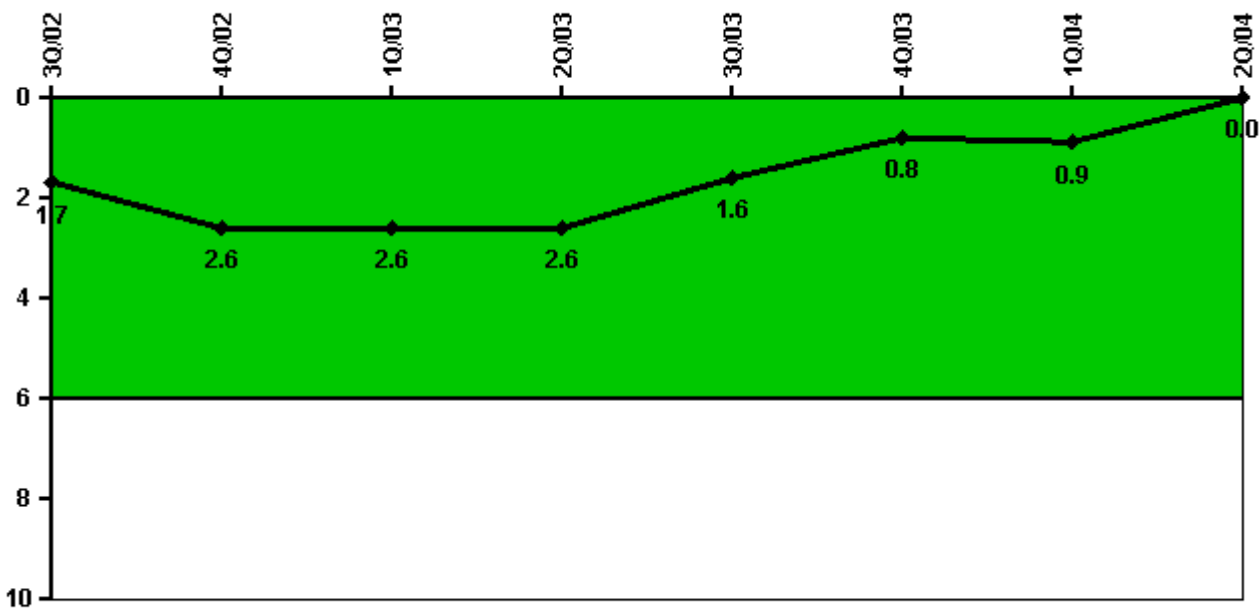
#### Notes

Scrams with Loss of Normal Heat Removal	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none



### Unplanned Power Changes per 7000 Critical Hrs



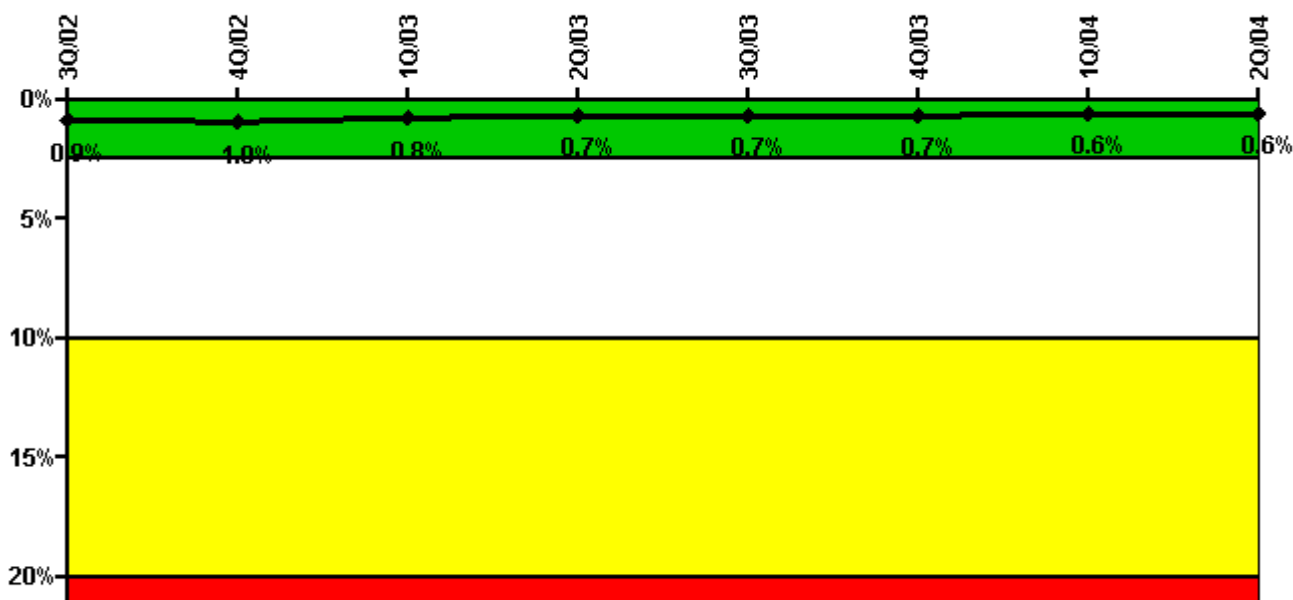
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	1.0	1.0	0	1.0	0	0	0	0
Critical hours	1796.0	2109.0	2133.6	2091.1	2208.0	2209.0	1500.5	2183.0
<b>Indicator value</b>	<b>1.7</b>	<b>2.6</b>	<b>2.6</b>	<b>2.6</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



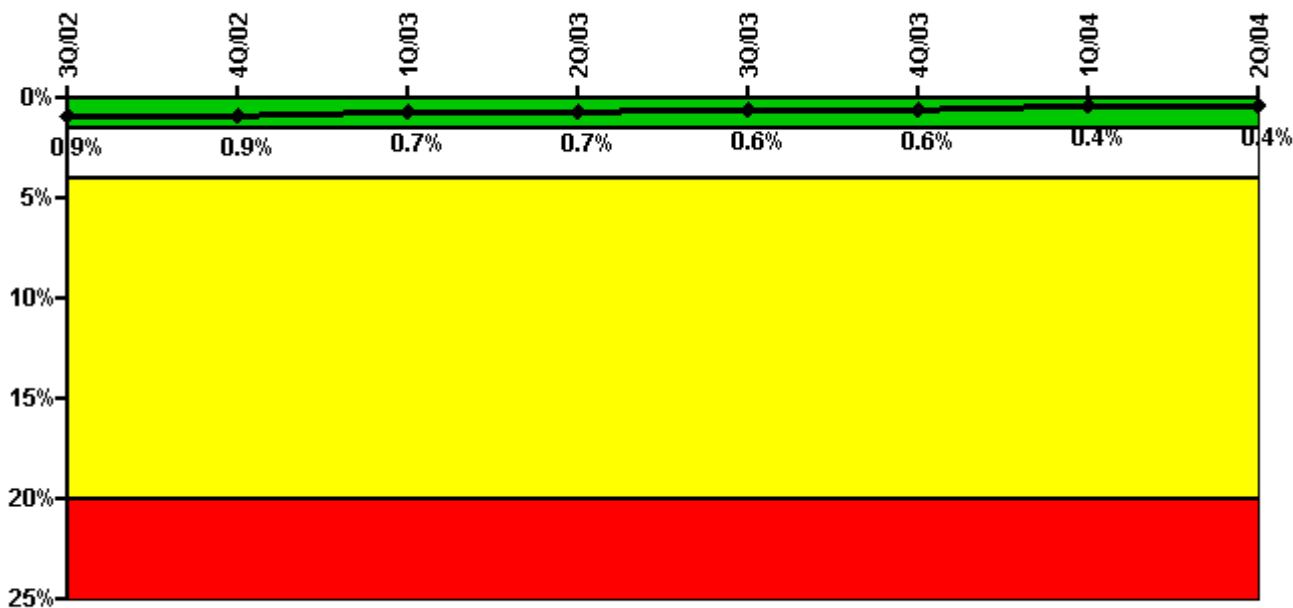
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
<b>Train 1</b>								
Planned unavailable hours	0.69	7.99	6.58	11.30	21.27	1.44	13.77	0.82
Unplanned unavailable hours	11.45	41.38	0	0	0	0	0	35.57
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	1.56	8.28	25.25	1.26	19.55	19.52	1.06	0.70
Unplanned unavailable hours	0	8.88	1.18	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Train 3</b>								
Planned unavailable hours	0.46	1.22	7.86	7.17	16.13	2.70	8.57	1.43
Unplanned unavailable hours	0	0	0	2.10	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Indicator value</b>	<b>0.9%</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



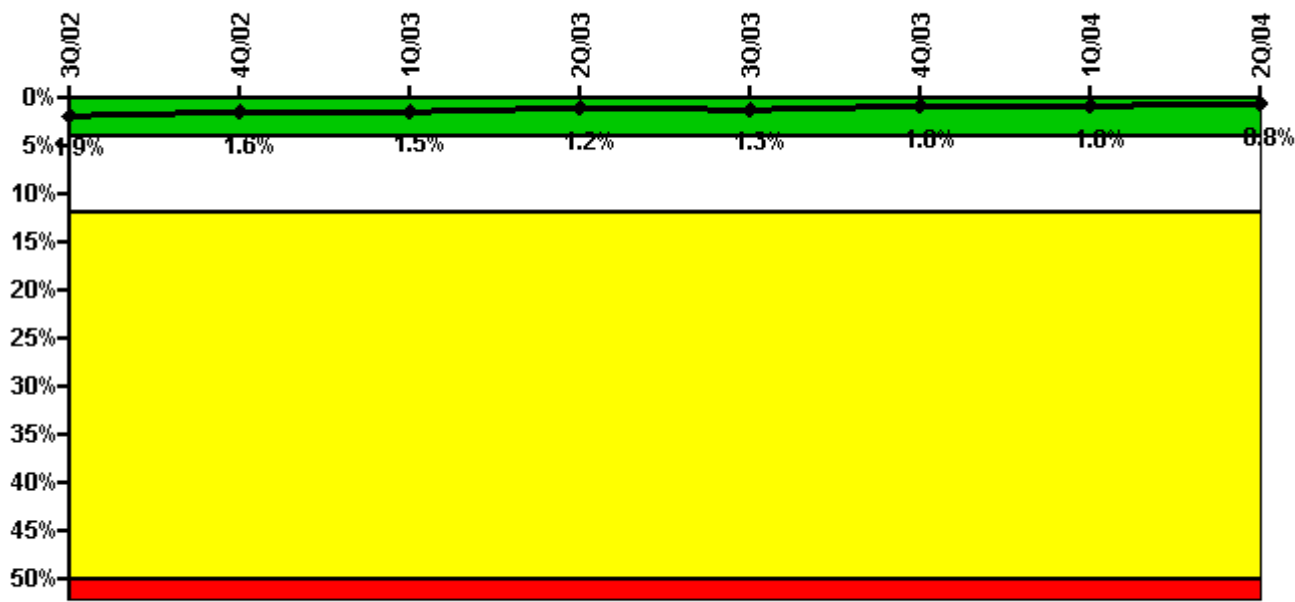
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
<b>Train 1</b>								
Planned unavailable hours	18.56	2.08	3.81	1.99	3.30	1.40	0.65	5.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1796.00	2109.00	2133.60	2091.10	2208.00	2209.00	1500.48	2183.00
<b>Indicator value</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>0.4%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
<b>Train 1</b>								
Planned unavailable hours	6.43	20.13	5.51	4.23	12.74	11.35	12.12	4.09
Unplanned unavailable hours	0	3.42	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1796.00	2109.00	2133.60	2091.10	2208.00	2209.00	1500.48	2183.00
<b>Indicator value</b>	<b>1.9%</b>	<b>1.6%</b>	<b>1.5%</b>	<b>1.2%</b>	<b>1.3%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



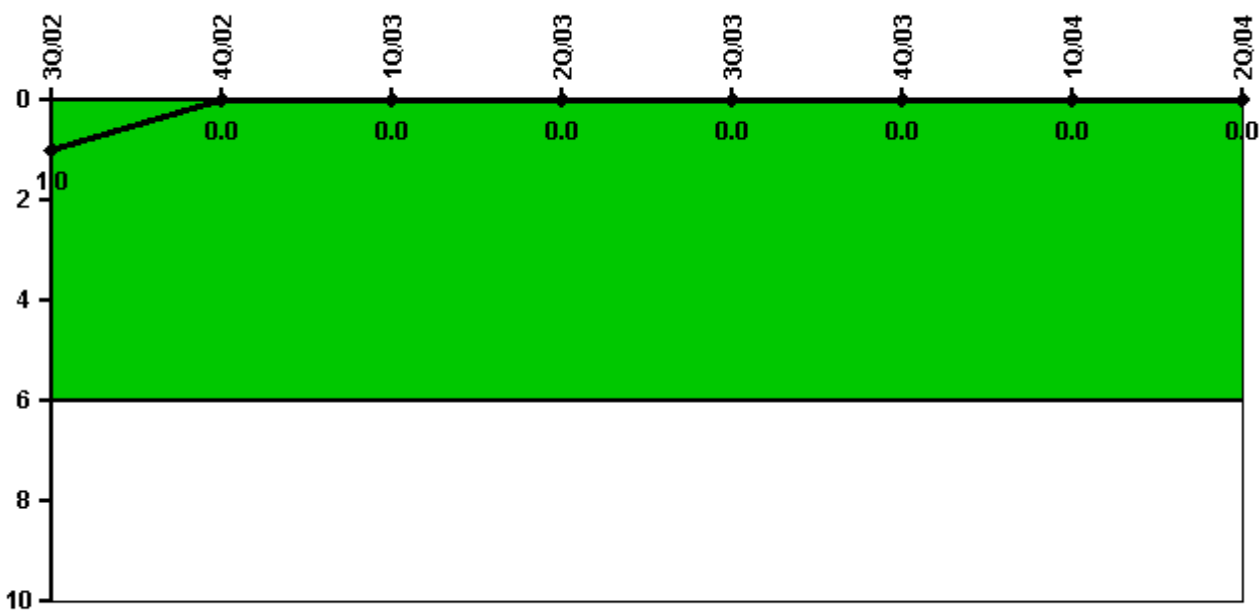
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
<b>Train 1</b>								
Planned unavailable hours	19.84	14.33	12.69	12.42	46.38	3.68	13.02	6.80
Unplanned unavailable hours	3.77	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	5.02	43.58	16.88	2.83	16.02	3.85	3.52	60.00
Unplanned unavailable hours	3.32	12.88	1.12	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



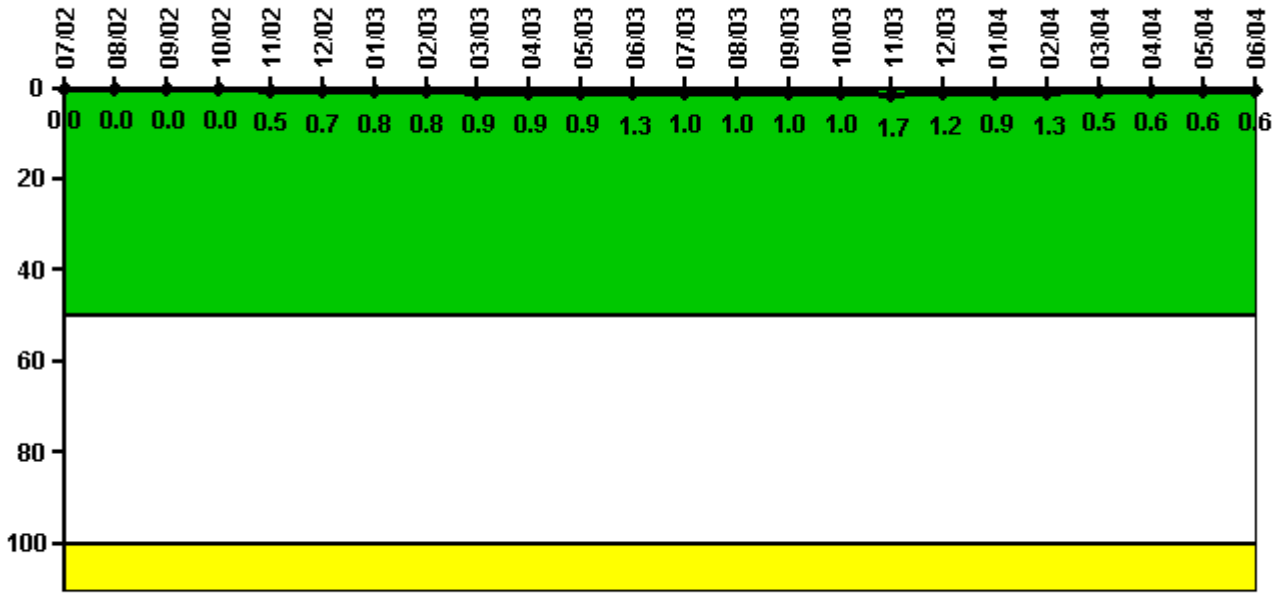
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	0	0	0	0	0	0	0

Licensee Comments: none

## Reactor Coolant System Activity



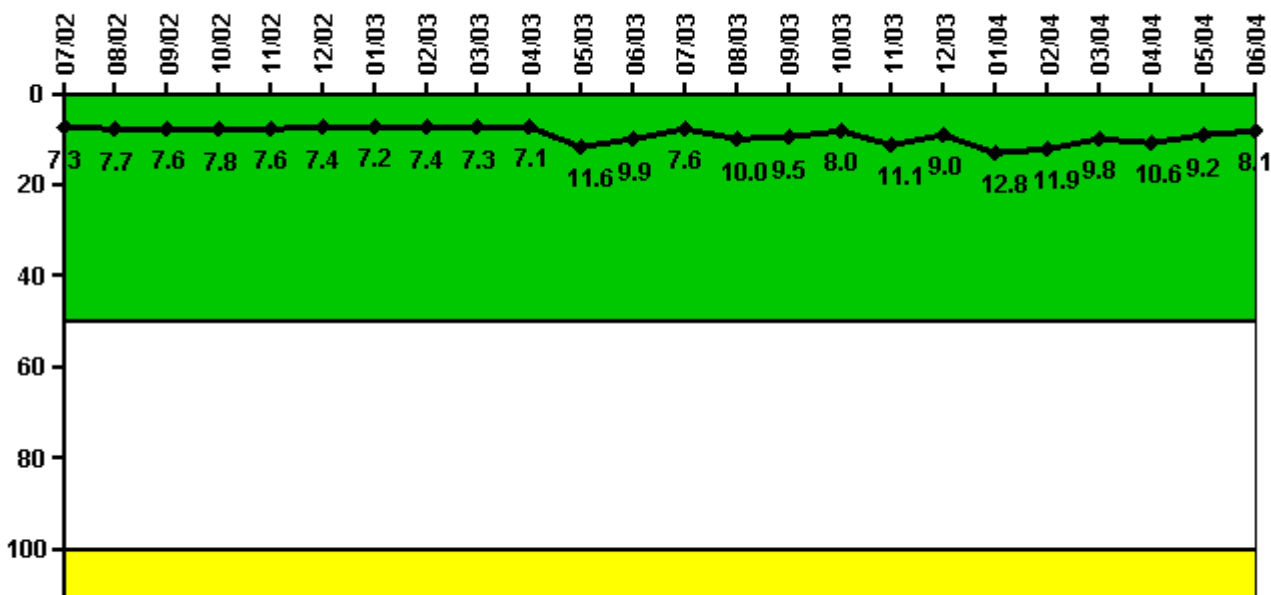
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.000027	0.000029	0.000025	0.000015	0.001080	0.001440	0.001610	0.001660	0.001810	0.001760	0.001870	0.002510
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
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>0.7</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.3</b>
Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.002080	0.002060	0.001980	0.002020	0.003440	0.002350	0.001800	0.002590	0.000905	0.001140	0.001230	0.001280
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
<b>Indicator value</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.7</b>	<b>1.2</b>	<b>0.9</b>	<b>1.3</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	2.190	2.310	2.270	2.330	2.290	2.210	2.165	2.205	2.190	2.123	3.480	2.980
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.3	7.7	7.6	7.8	7.6	7.4	7.2	7.4	7.3	7.1	11.6	9.9

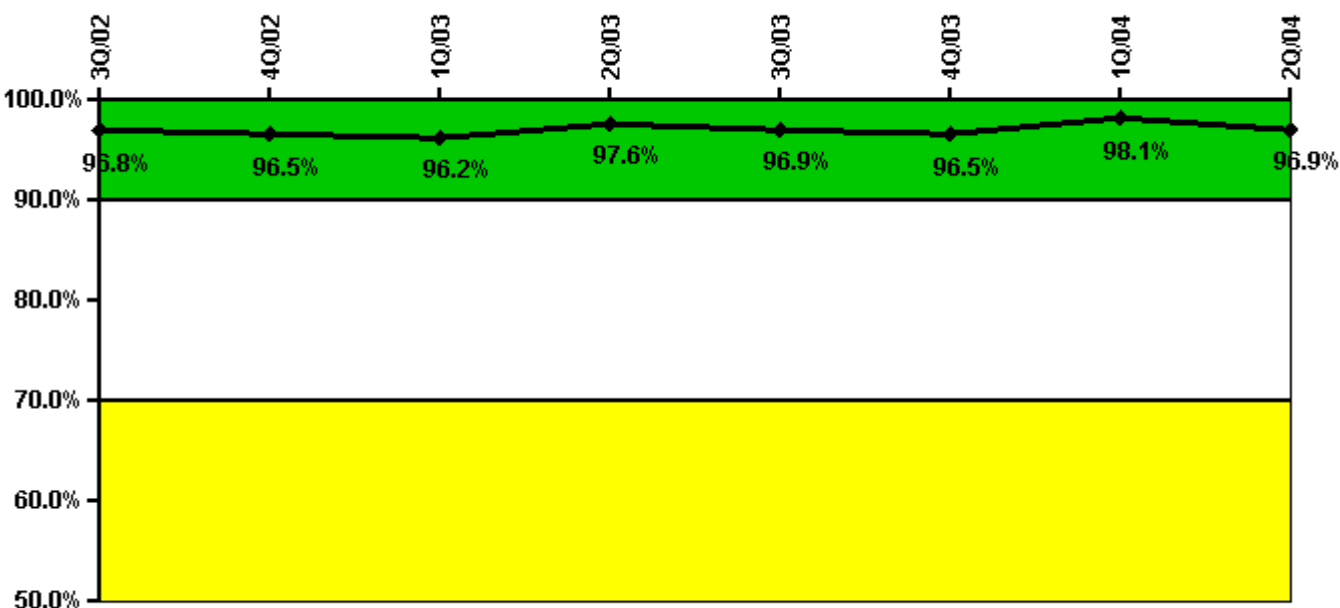
  

Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	2.290	3.010	2.840	2.410	3.320	2.700	3.850	3.580	2.950	3.170	2.760	2.440
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.6	10.0	9.5	8.0	11.1	9.0	12.8	11.9	9.8	10.6	9.2	8.1

Licensee Comments: none



### Drill/Exercise Performance



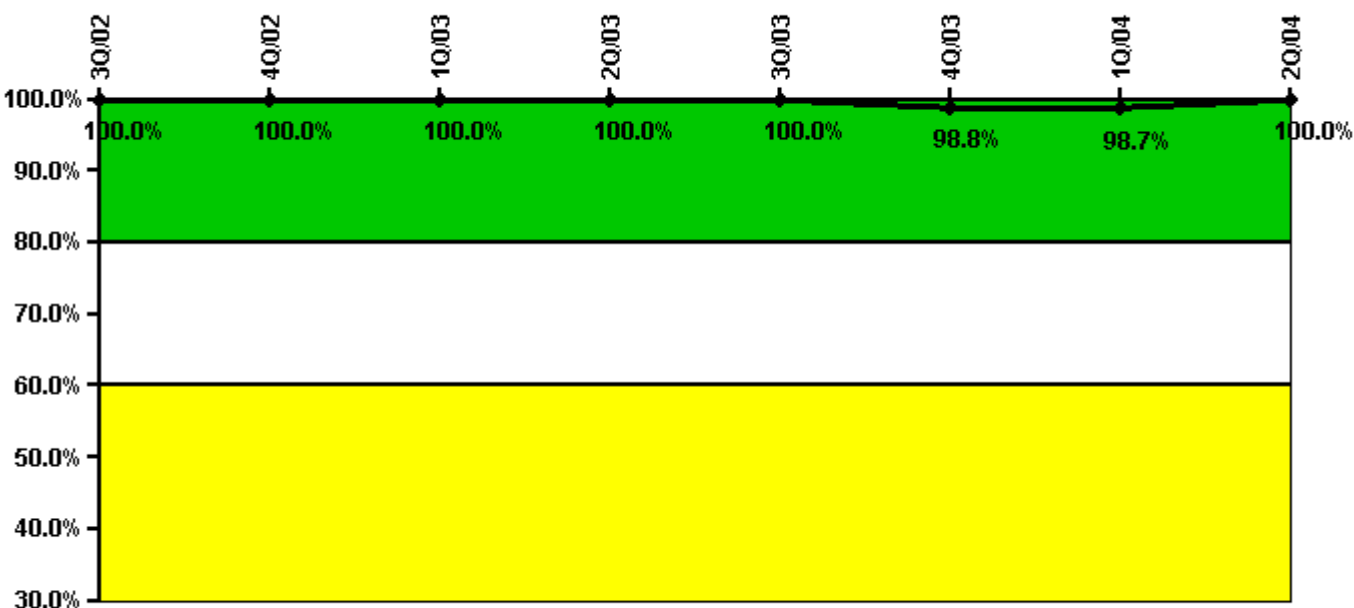
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful opportunities	10.0	18.0	10.0	7.0	31.0	12.0	0	38.0
Total opportunities	10.0	18.0	10.0	8.0	32.0	12.0	0	40.0
Indicator value	96.8%	96.5%	96.2%	97.6%	96.9%	96.5%	98.1%	96.9%

Licensee Comments: none

### ERO Drill Participation



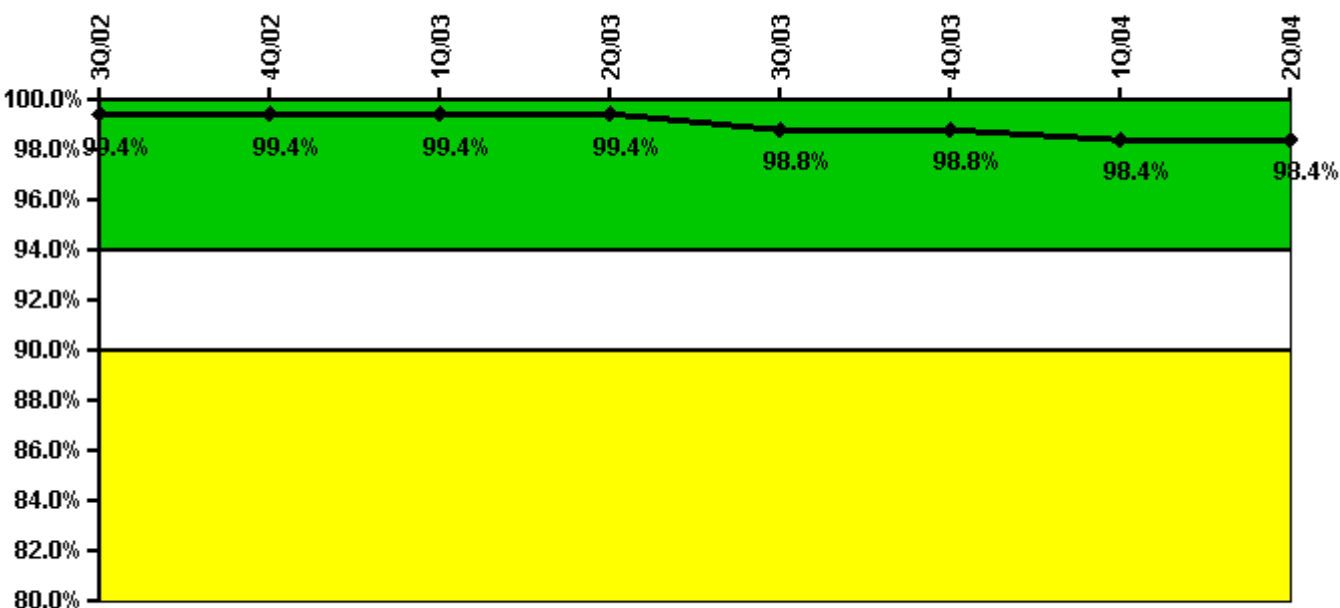
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Participating Key personnel	77.0	81.0	81.0	80.0	81.0	82.0	76.0	77.0
Total Key personnel	77.0	81.0	81.0	80.0	81.0	83.0	77.0	77.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	98.8%	98.7%	100.0%

Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful siren-tests	127	129	129	128	124	129	127	128
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	99.4%	99.4%	99.4%	99.4%	98.8%	98.8%	98.4%	98.4%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



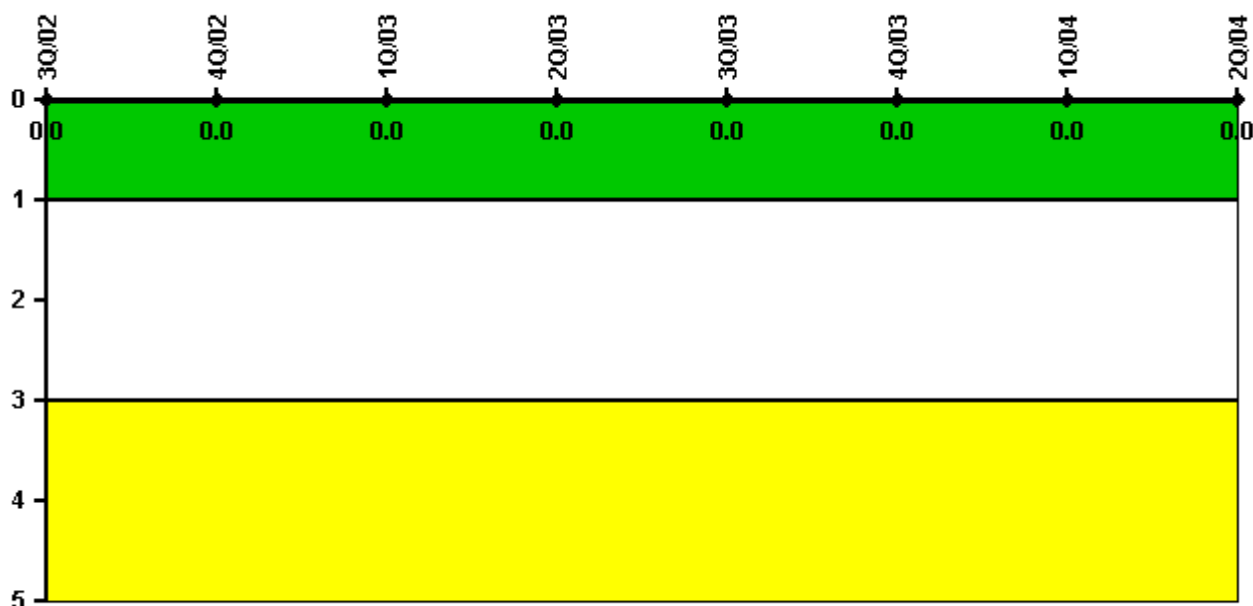
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
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/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
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](#)

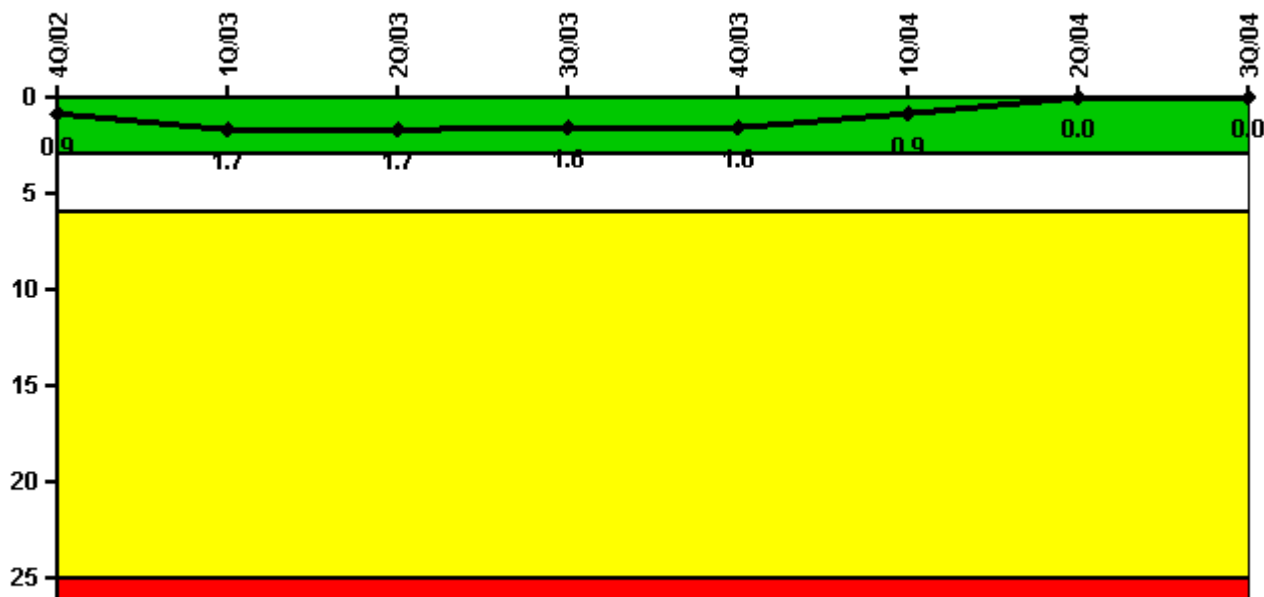
Last Modified: September 8, 2004

# Grand Gulf 1

## 3Q/2004 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



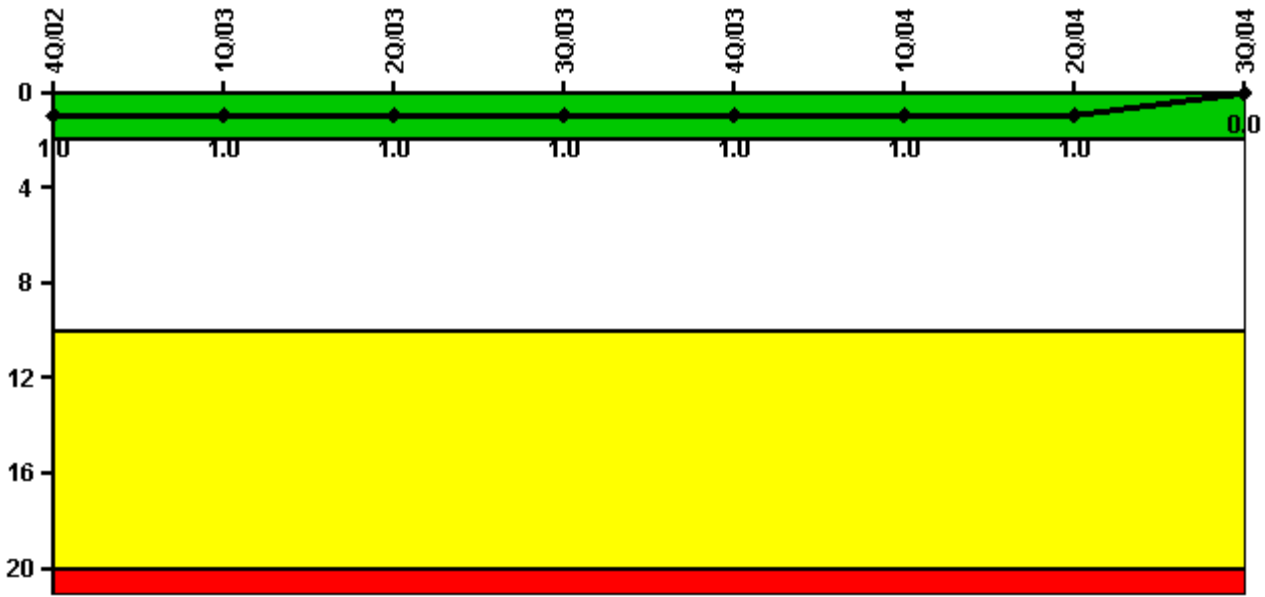
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	0	1.0	1.0	0	0	0	0	0
Critical hours	2109.0	2133.6	2091.1	2208.0	2209.0	1500.5	2183.0	2208.0
Indicator value	<b>0.9</b>	<b>1.7</b>	<b>1.7</b>	<b>1.6</b>	<b>1.6</b>	<b>0.9</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



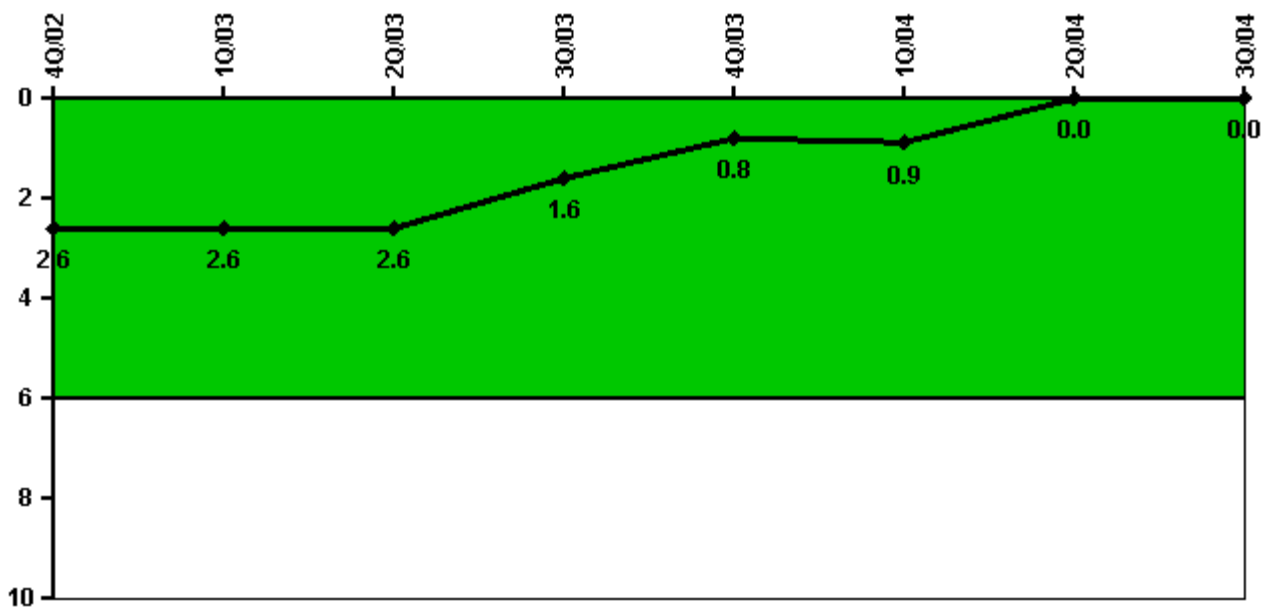
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

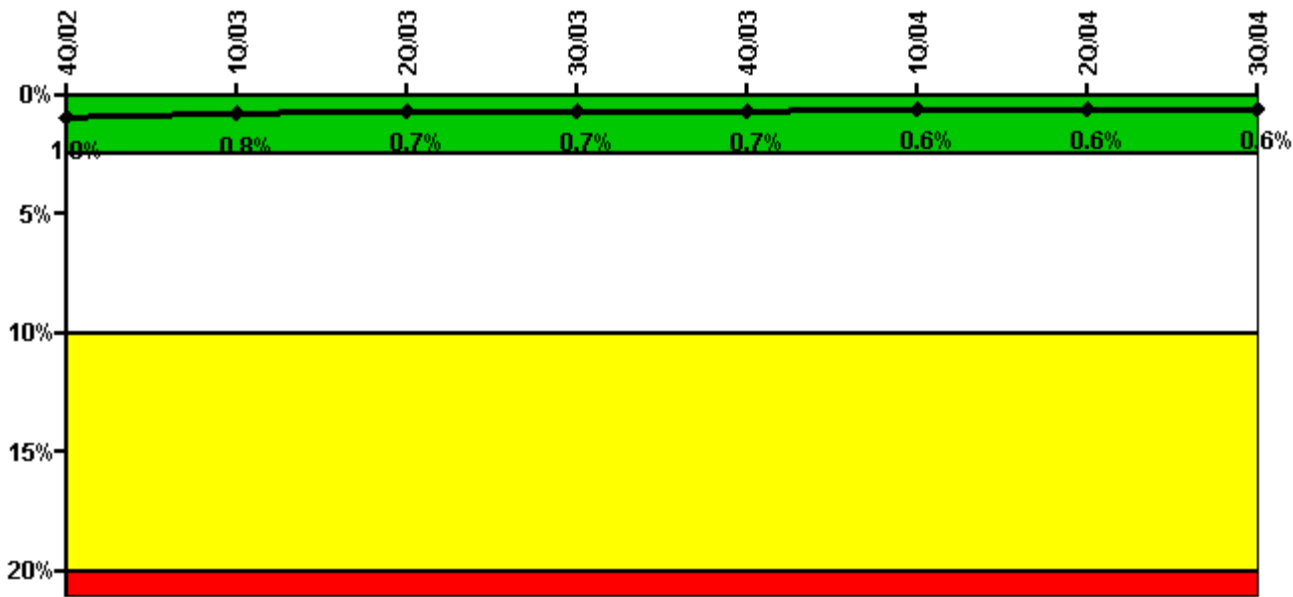
#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned power changes	1.0	0	1.0	0	0	0	0	0
Critical hours	2109.0	2133.6	2091.1	2208.0	2209.0	1500.5	2183.0	2208.0
<b>Indicator value</b>	<b>2.6</b>	<b>2.6</b>	<b>2.6</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>

Licensee Comments: none



## Safety System Unavailability, Emergency AC Power, >2EDG



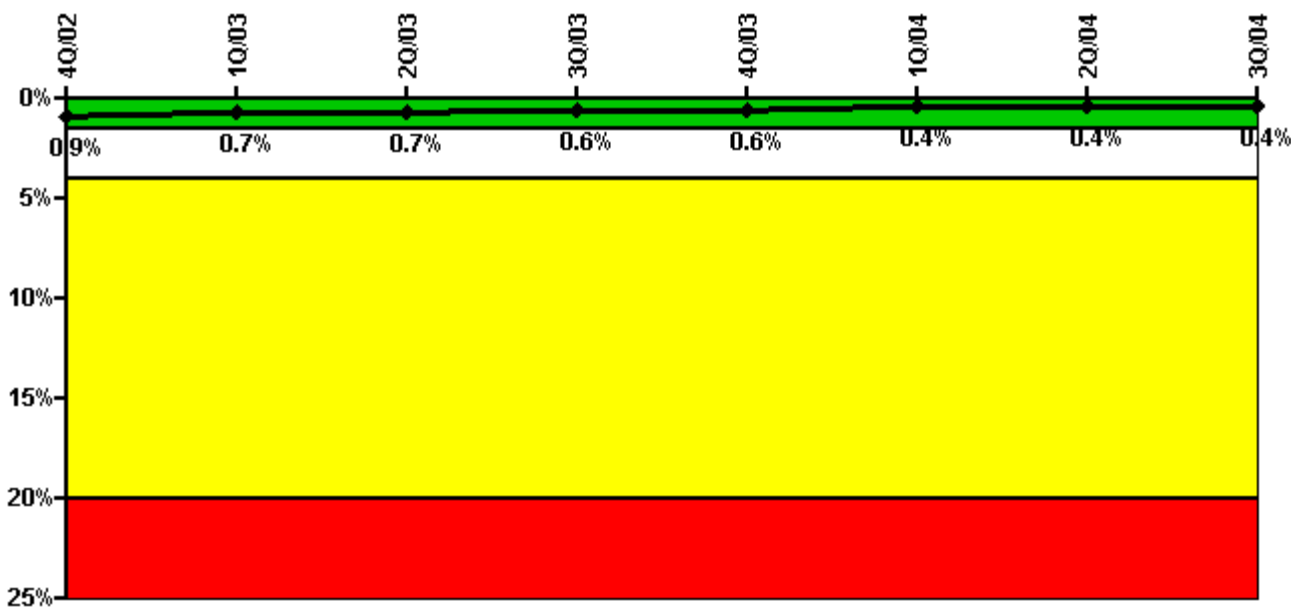
**Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%**

### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
<b>Train 1</b>								
Planned unavailable hours	7.99	6.58	11.30	21.27	1.44	13.77	0.82	1.23
Unplanned unavailable hours	41.38	0	0	0	0	0	35.57	0.67
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	8.28	25.25	1.26	19.55	19.52	1.06	0.70	0.70
Unplanned unavailable hours	8.88	1.18	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
<b>Train 3</b>								
Planned unavailable hours	1.22	7.86	7.17	16.13	2.70	8.57	1.43	29.12
Unplanned unavailable hours	0	0	2.10	0	0	0	0	2.60
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
<b>Indicator value</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



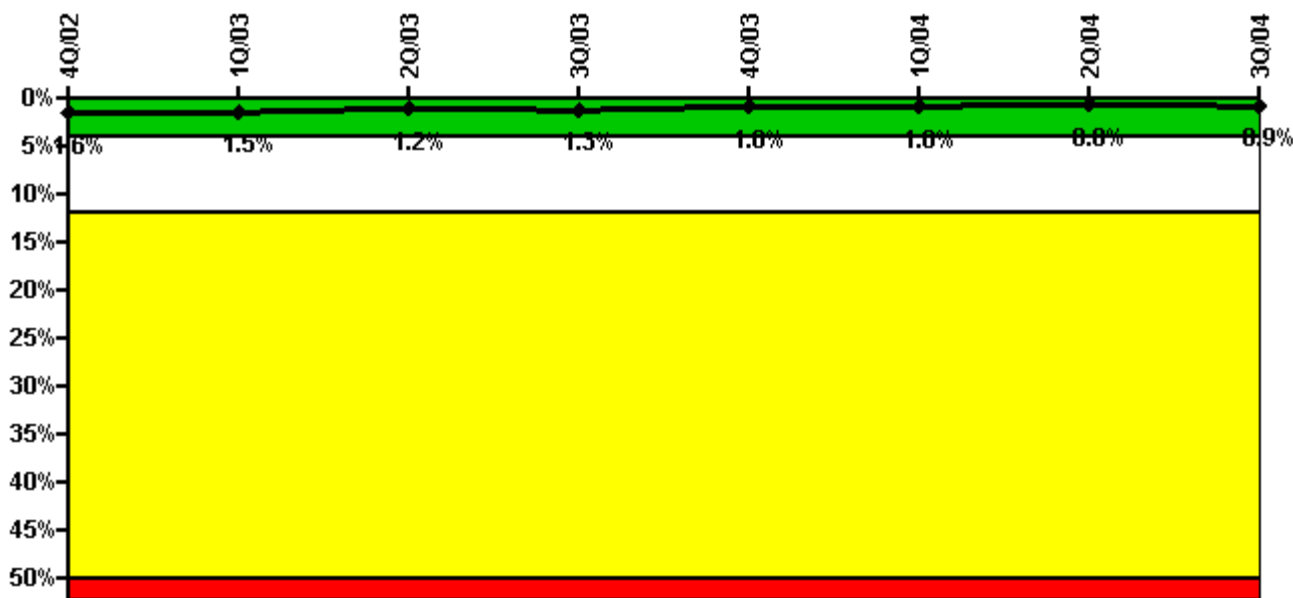
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

**Notes**

Safety System Unavailability, High Pressure Injection System (HPCS)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
<b>Train 1</b>								
Planned unavailable hours	2.08	3.81	1.99	3.30	1.40	0.65	5.30	14.11
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2109.00	2133.60	2091.10	2208.00	2209.00	1500.48	2183.00	2208.00
<b>Indicator value</b>	<b>0.9%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



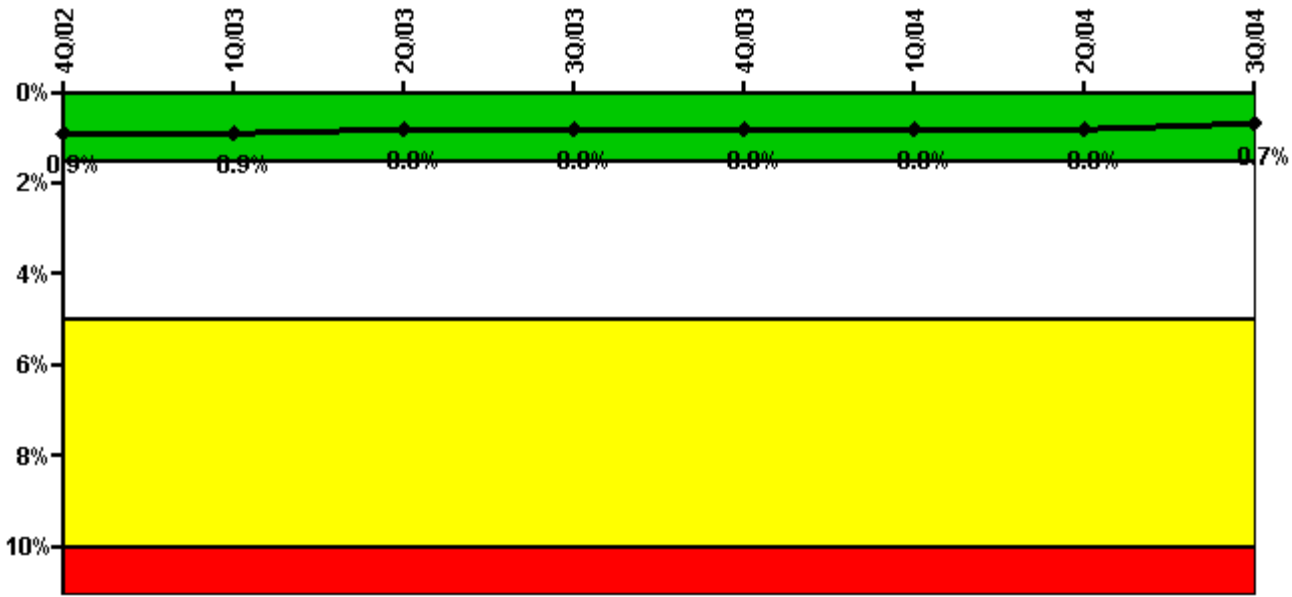
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
<b>Train 1</b>								
Planned unavailable hours	20.13	5.51	4.23	12.74	11.35	12.12	4.09	6.04
Unplanned unavailable hours	3.42	0	0	0	0	0	0	20.57
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2109.00	2133.60	2091.10	2208.00	2209.00	1500.48	2183.00	2208.00
<b>Indicator value</b>	<b>1.6%</b>	<b>1.5%</b>	<b>1.2%</b>	<b>1.3%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.9%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



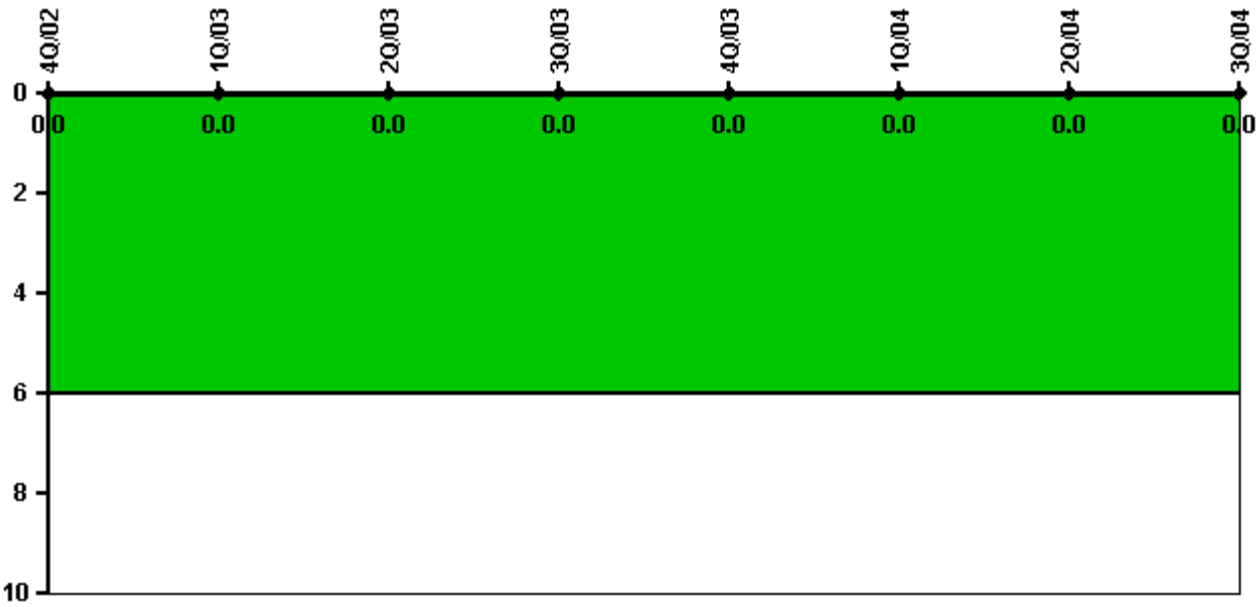
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
<b>Train 1</b>								
Planned unavailable hours	14.33	12.69	12.42	46.38	3.68	13.02	6.80	2.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	43.58	16.88	2.83	16.02	3.85	3.52	60.00	2.07
Unplanned unavailable hours	12.88	1.12	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
<b>Indicator value</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



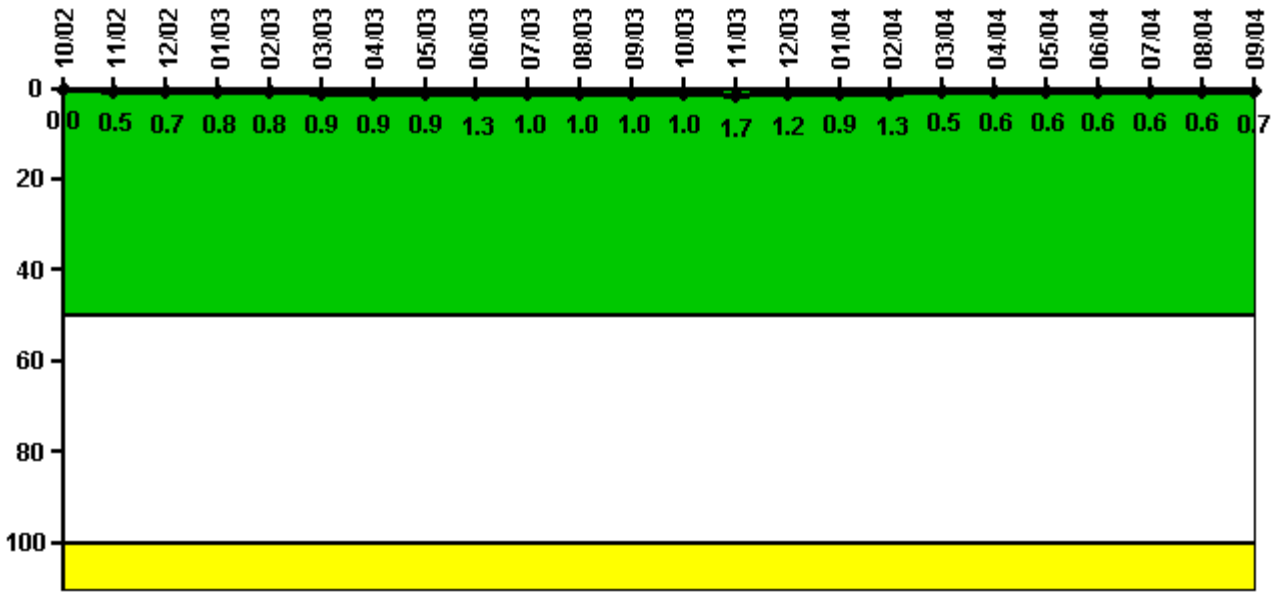
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Safety System Functional Failures	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

### Reactor Coolant System Activity



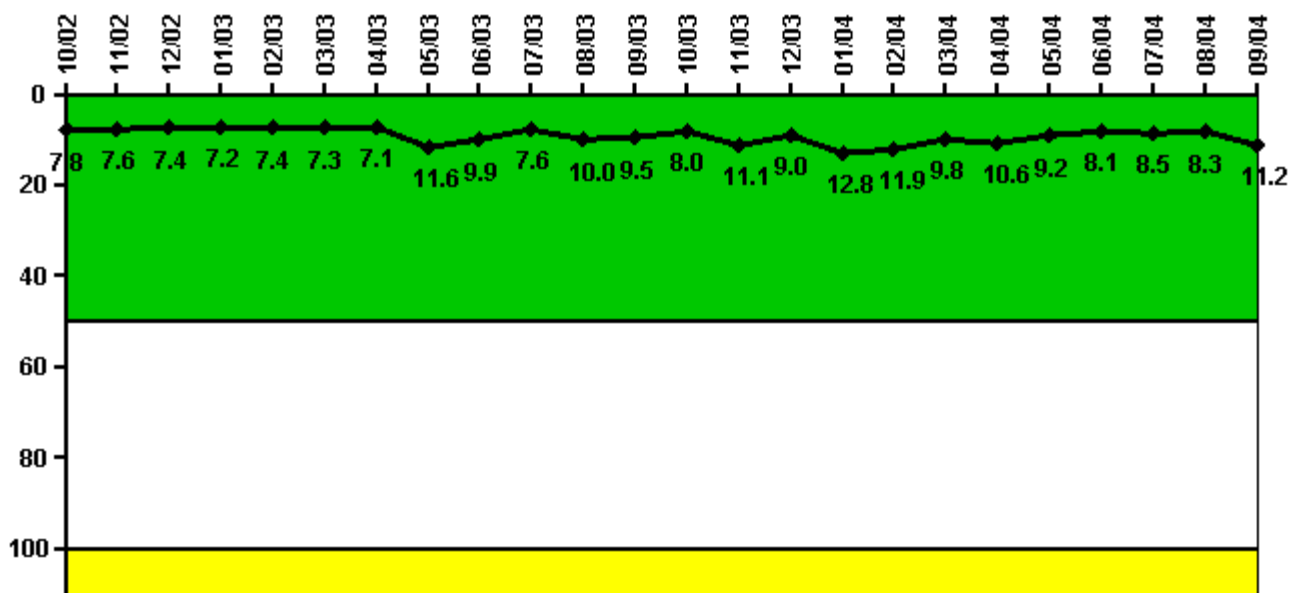
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum activity	0.000015	0.001080	0.001440	0.001610	0.001660	0.001810	0.001760	0.001870	0.002510	0.002080	0.002060	0.001980
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
<b>Indicator value</b>	<b>0</b>	<b>0.5</b>	<b>0.7</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.3</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>
Reactor Coolant System Activity	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity	0.002020	0.003440	0.002350	0.001800	0.002590	0.000905	0.001140	0.001230	0.001280	0.001250	0.001290	0.001380
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
<b>Indicator value</b>	<b>1.0</b>	<b>1.7</b>	<b>1.2</b>	<b>0.9</b>	<b>1.3</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>

Licensee Comments: none

### Reactor Coolant System Leakage



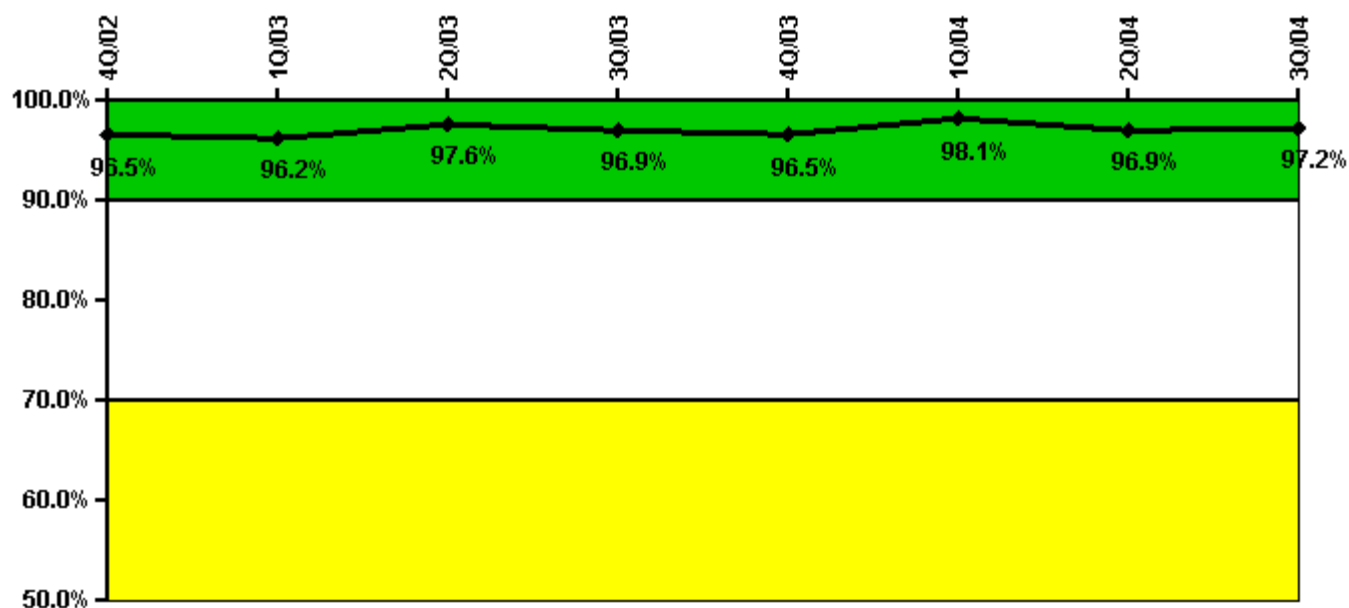
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	2.330	2.290	2.210	2.165	2.205	2.190	2.123	3.480	2.980	2.290	3.010	2.840
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.8	7.6	7.4	7.2	7.4	7.3	7.1	11.6	9.9	7.6	10.0	9.5
Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	2.410	3.320	2.700	3.850	3.580	2.950	3.170	2.760	2.440	2.560	2.500	3.370
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.0	11.1	9.0	12.8	11.9	9.8	10.6	9.2	8.1	8.5	8.3	11.2

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

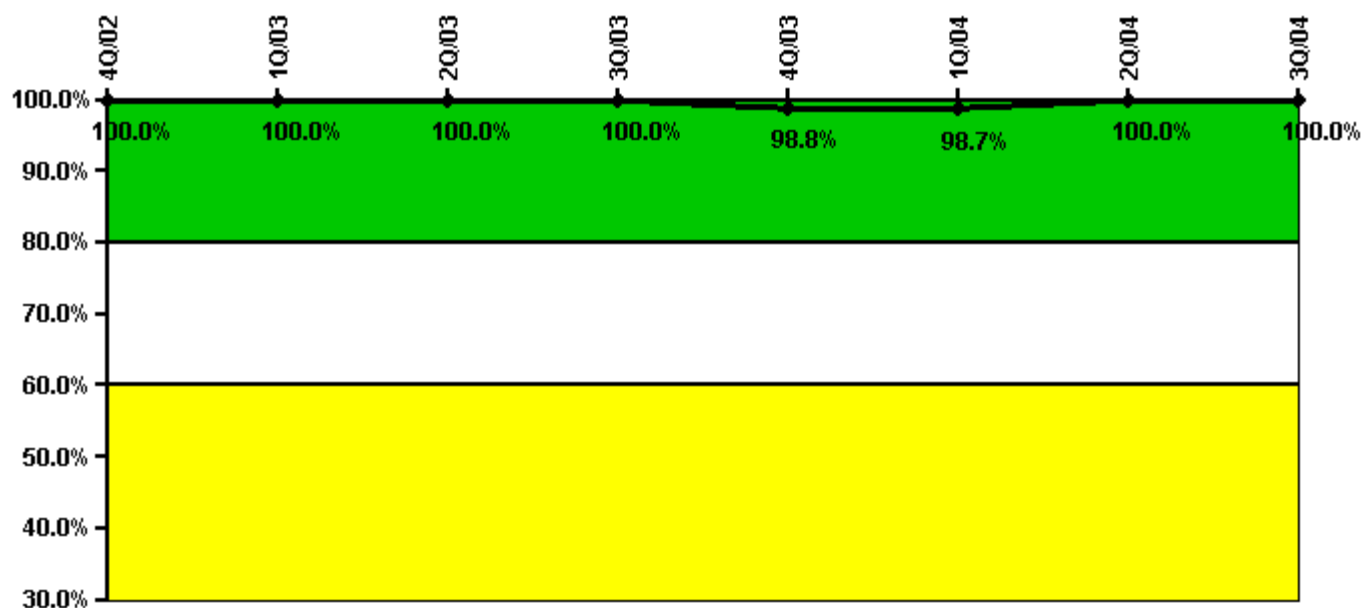
#### Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	18.0	10.0	7.0	31.0	12.0	0	38.0	24.0
Total opportunities	18.0	10.0	8.0	32.0	12.0	0	40.0	24.0
Indicator value	96.5%	96.2%	97.6%	96.9%	96.5%	98.1%	96.9%	97.2%

Licensee Comments: none



### ERO Drill Participation



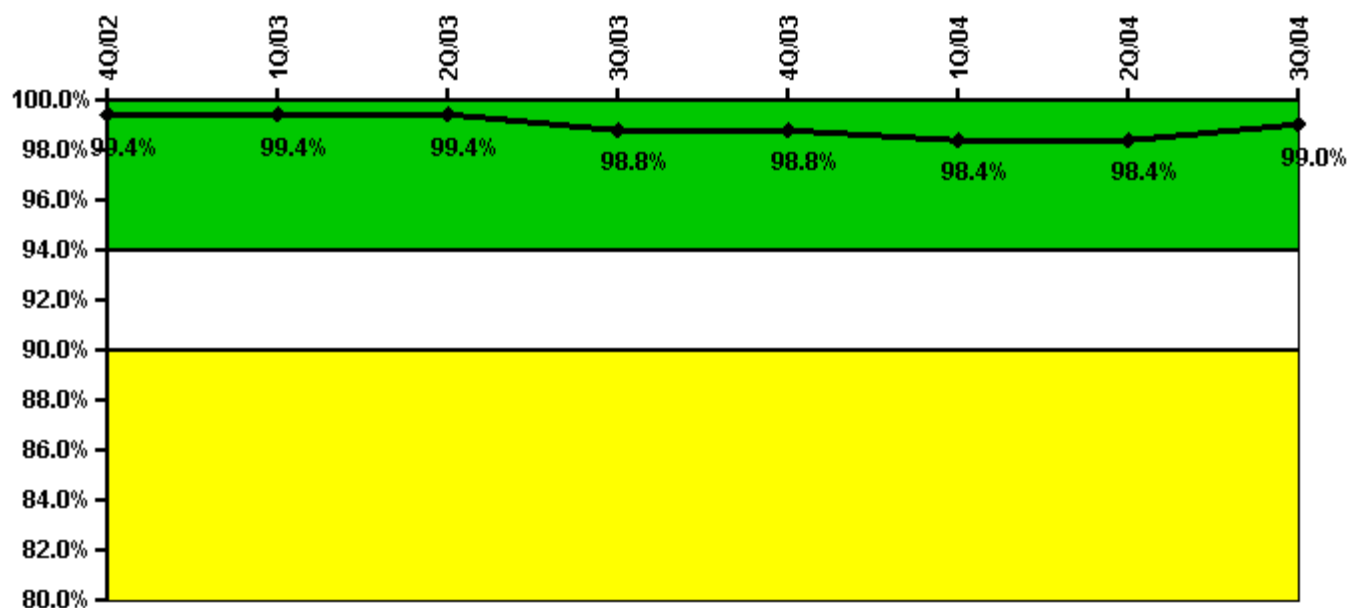
Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	81.0	81.0	80.0	81.0	82.0	76.0	77.0	75.0
Total Key personnel	81.0	81.0	80.0	81.0	83.0	77.0	77.0	75.0
Indicator value	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>98.8%</b>	<b>98.7%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments: none

### Alert & Notification System



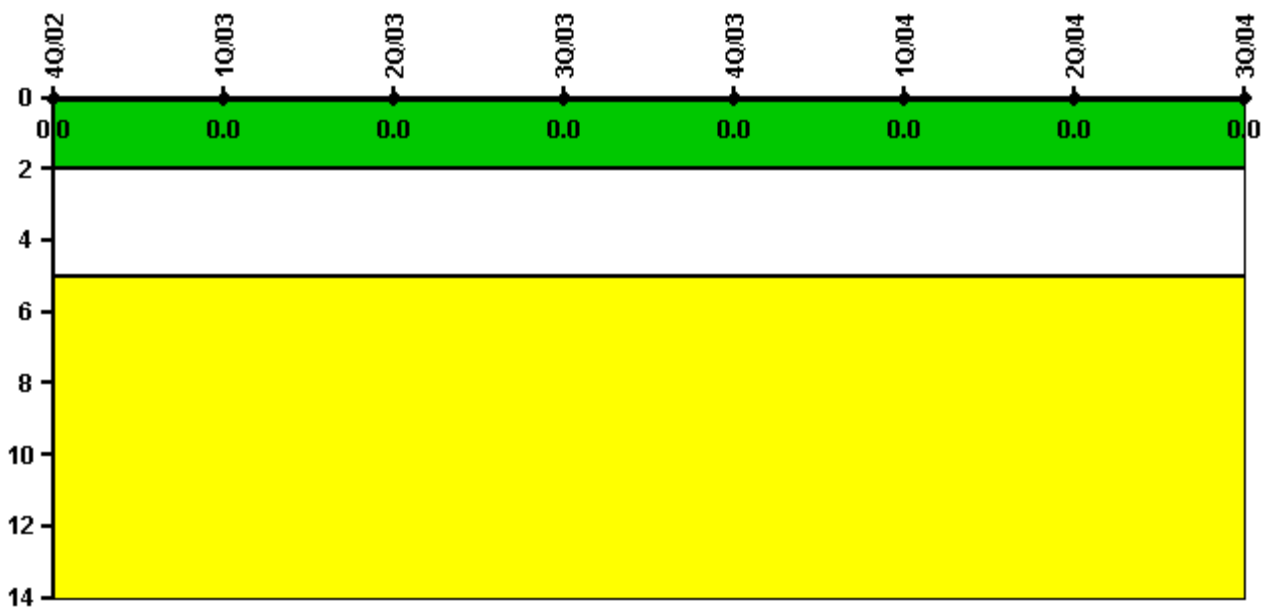
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	129	129	128	124	129	127	128	127
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	99.4%	99.4%	99.4%	98.8%	98.8%	98.4%	98.4%	99.0%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



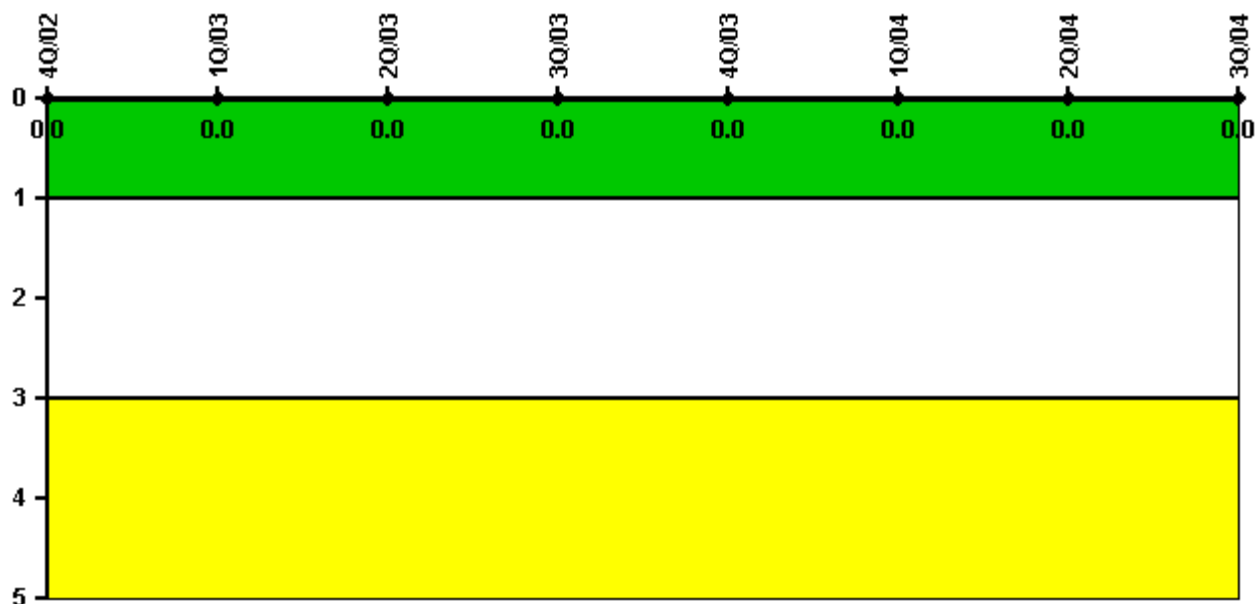
Thresholds: White > 2.0 Yellow > 5.0

**Notes**

Occupational Exposure Control Effectiveness	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
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	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
RETS/ODCM 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

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

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

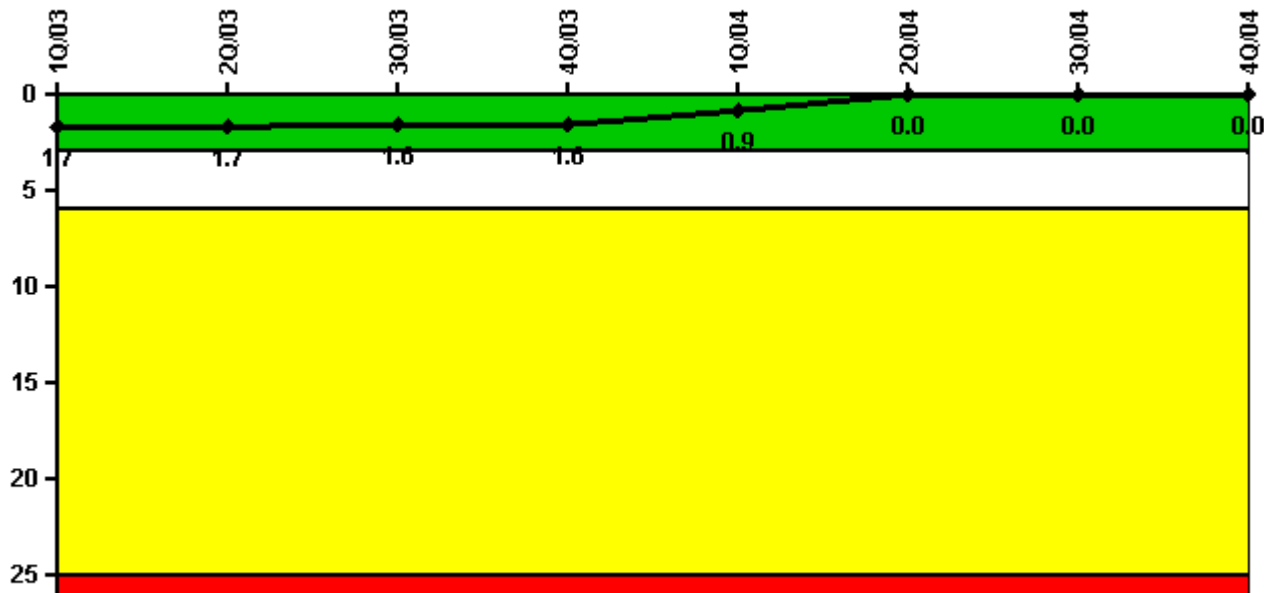
Last Modified: October 25, 2004

# Grand Gulf 1

## 4Q/2004 Performance Indicators

Licensee's General Comments: Data corrections for 2nd and 3rd quarter ERO Drill Participation (EP02). No change to indicator color (green).

### Unplanned Scrams per 7000 Critical Hrs



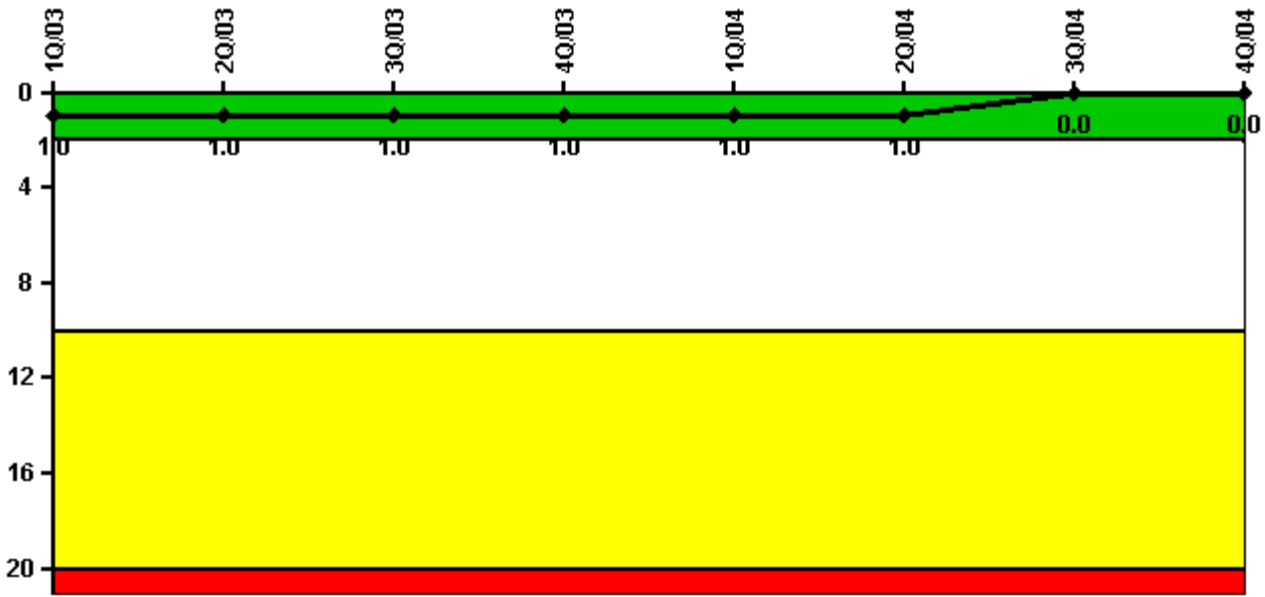
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	1.0	1.0	0	0	0	0	0	0
Critical hours	2133.6	2091.1	2208.0	2209.0	1500.5	2183.0	2208.0	2209.0
<b>Indicator value</b>	<b>1.7</b>	<b>1.7</b>	<b>1.6</b>	<b>1.6</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



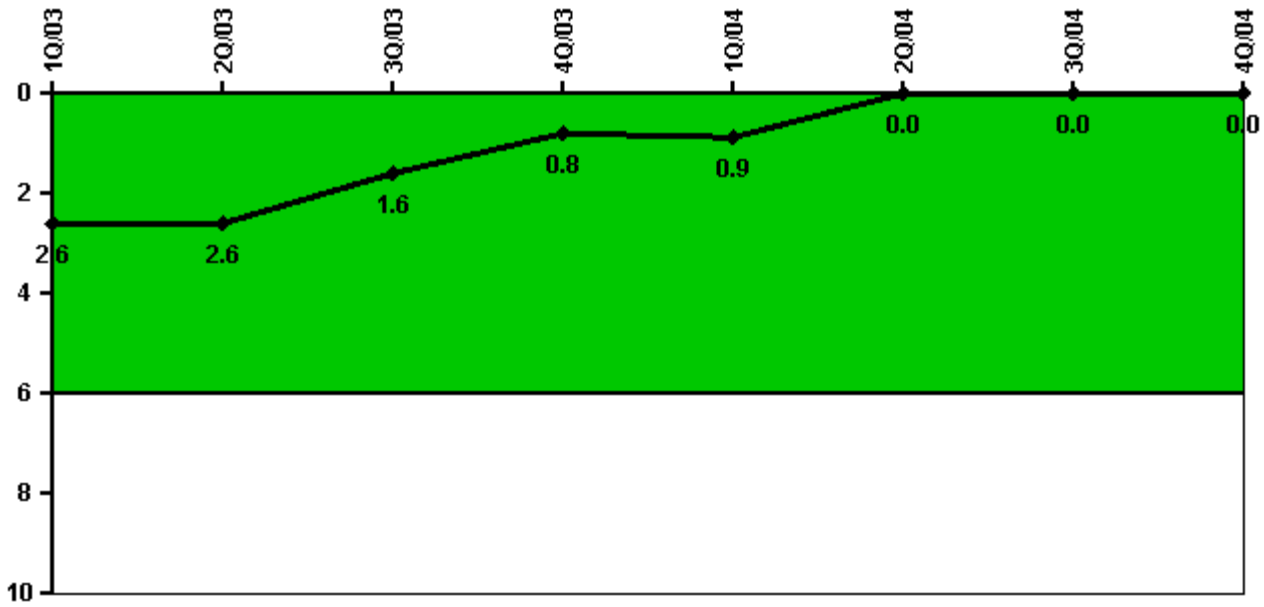
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



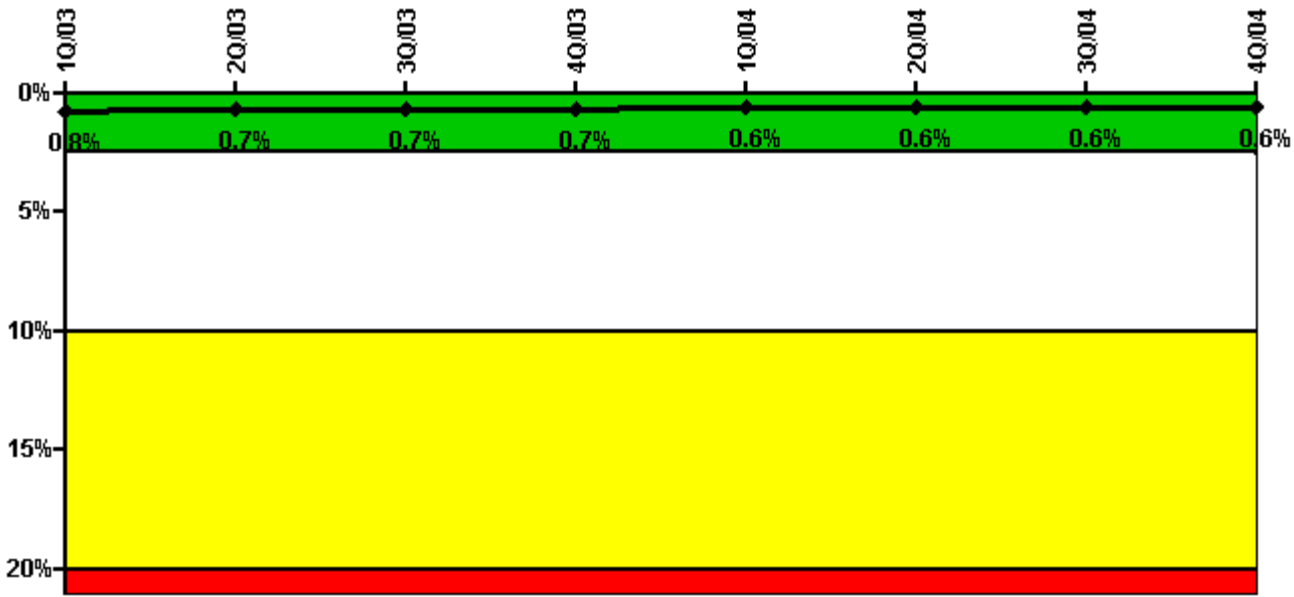
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2133.6	2091.1	2208.0	2209.0	1500.5	2183.0	2208.0	2209.0
<b>Indicator value</b>	<b>2.6</b>	<b>2.6</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

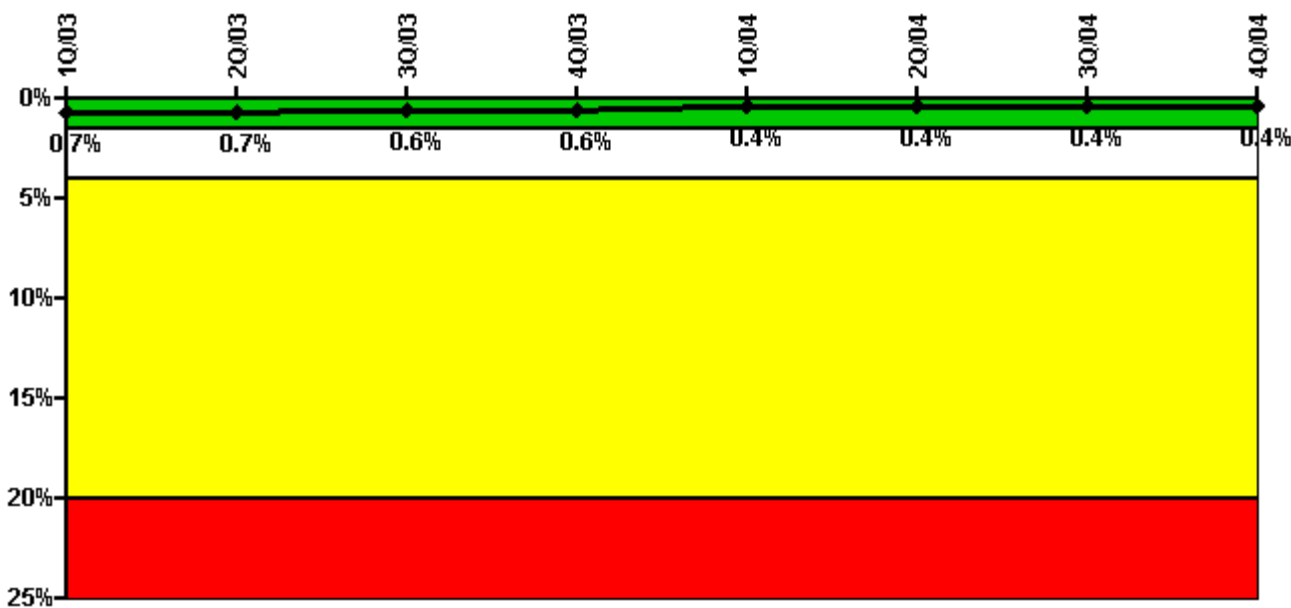
#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	6.58	11.30	21.27	1.44	13.77	0.82	1.23	10.19
Unplanned unavailable hours	0	0	0	0	0	35.57	0.67	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	25.25	1.26	19.55	19.52	1.06	0.70	0.70	9.40
Unplanned unavailable hours	1.18	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
<b>Train 3</b>								
Planned unavailable hours	7.86	7.17	16.13	2.70	8.57	1.43	29.12	16.82
Unplanned unavailable hours	0	2.10	0	0	0	0	2.60	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>

Licensee Comments: none



### Safety System Unavailability, High Pressure Injection System (HPCS)



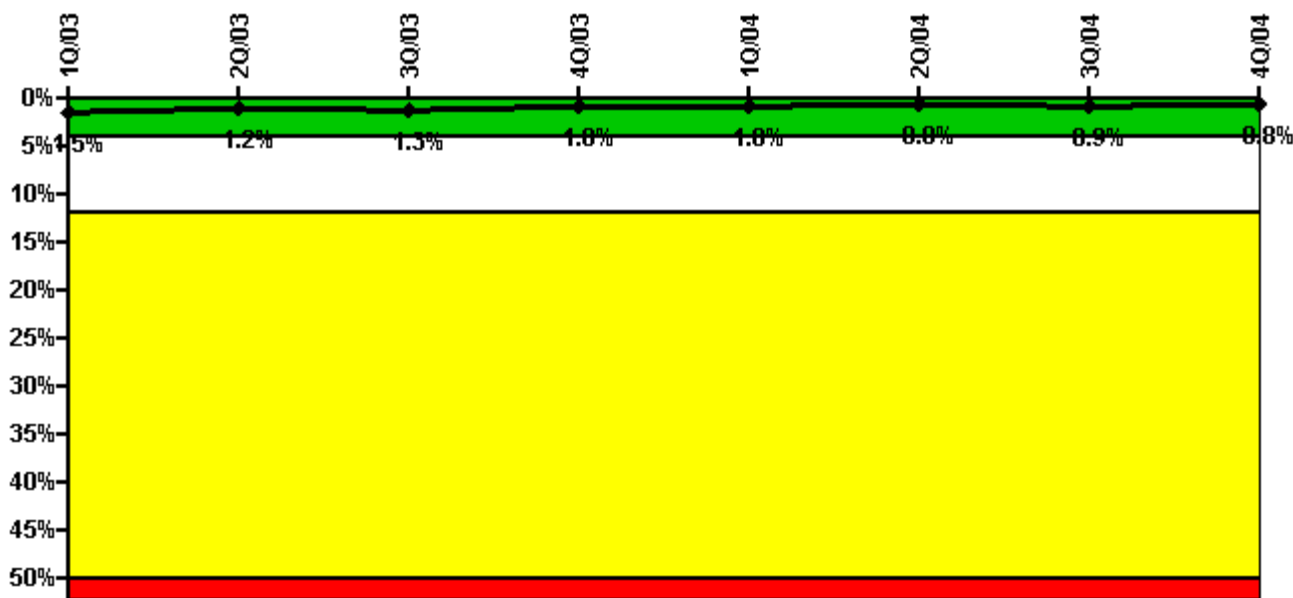
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

**Notes**

Safety System Unavailability, High Pressure Injection System (HPCS)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	3.81	1.99	3.30	1.40	0.65	5.30	14.11	17.16
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2133.60	2091.10	2208.00	2209.00	1500.48	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



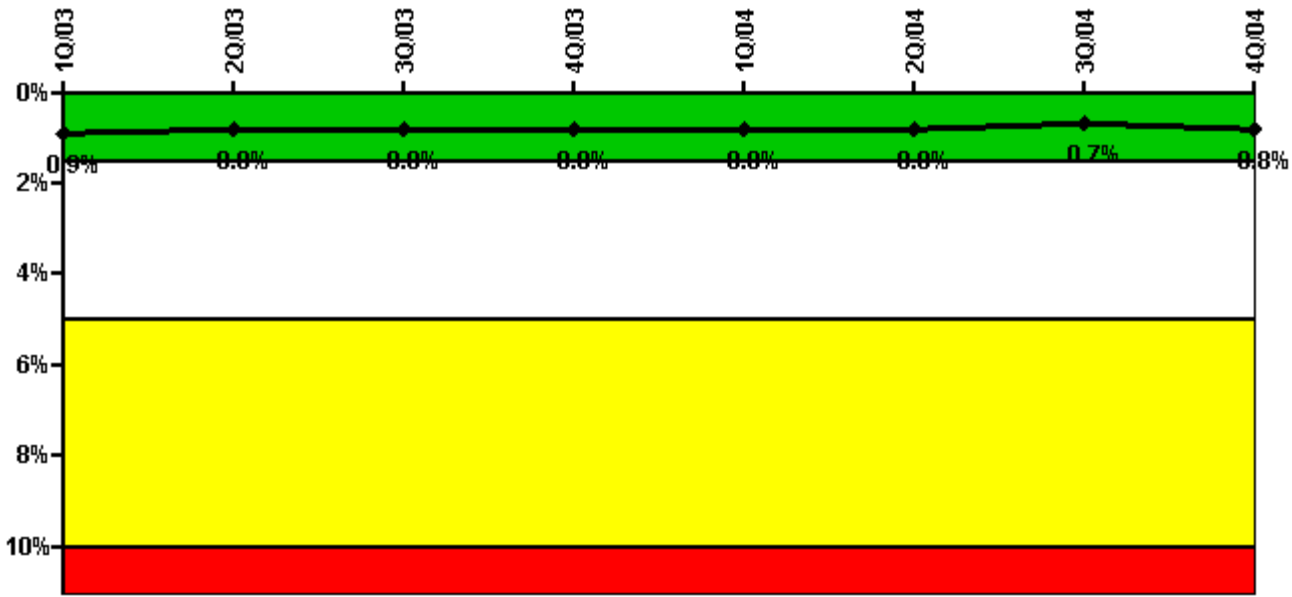
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	5.51	4.23	12.74	11.35	12.12	4.09	6.04	4.35
Unplanned unavailable hours	0	0	0	0	0	0	20.57	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2133.60	2091.10	2208.00	2209.00	1500.48	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>1.5%</b>	<b>1.2%</b>	<b>1.3%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



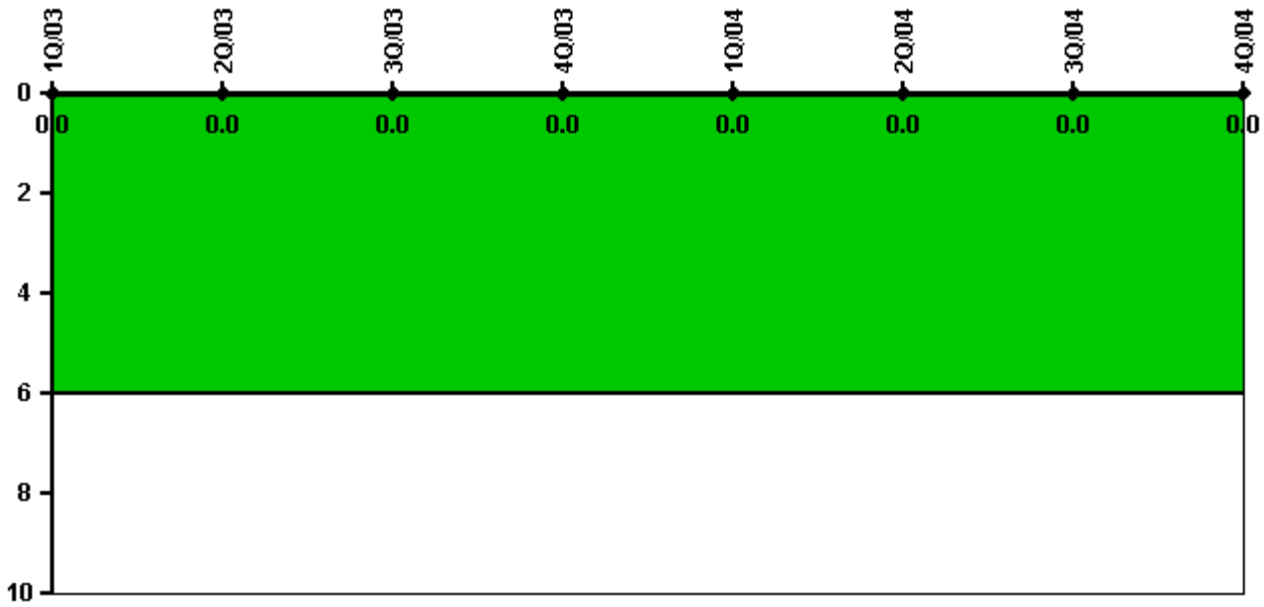
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	12.69	12.42	46.38	3.68	13.02	6.80	2.60	49.85
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	16.88	2.83	16.02	3.85	3.52	60.00	2.07	4.22
Unplanned unavailable hours	1.12	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.9%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



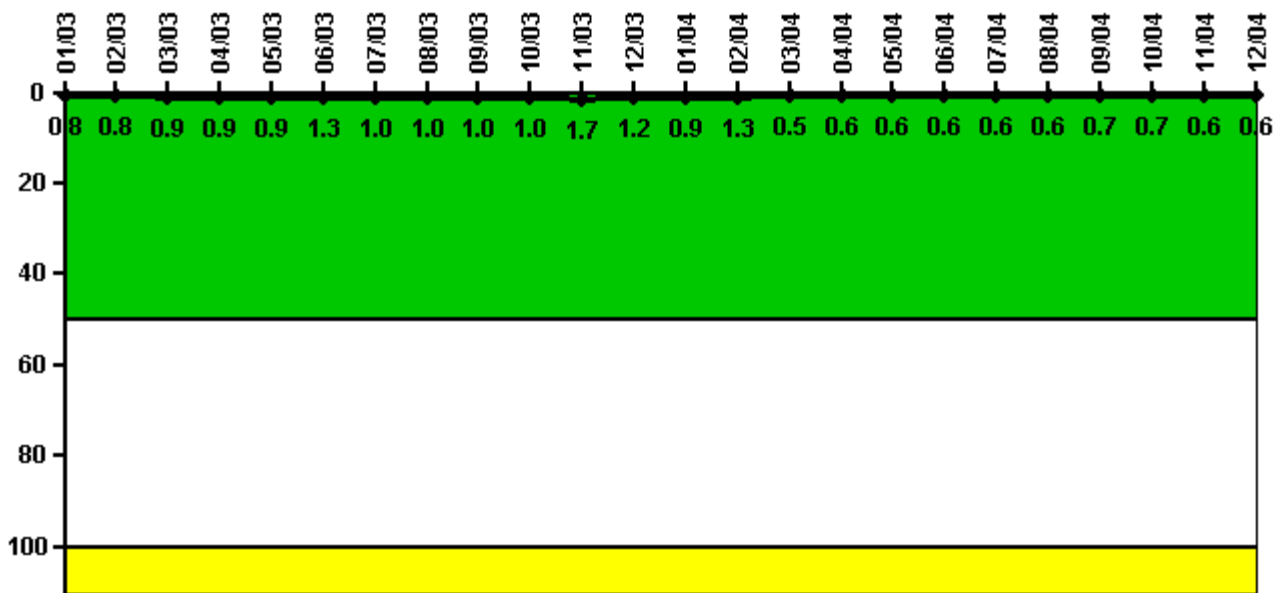
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
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

### Reactor Coolant System Activity



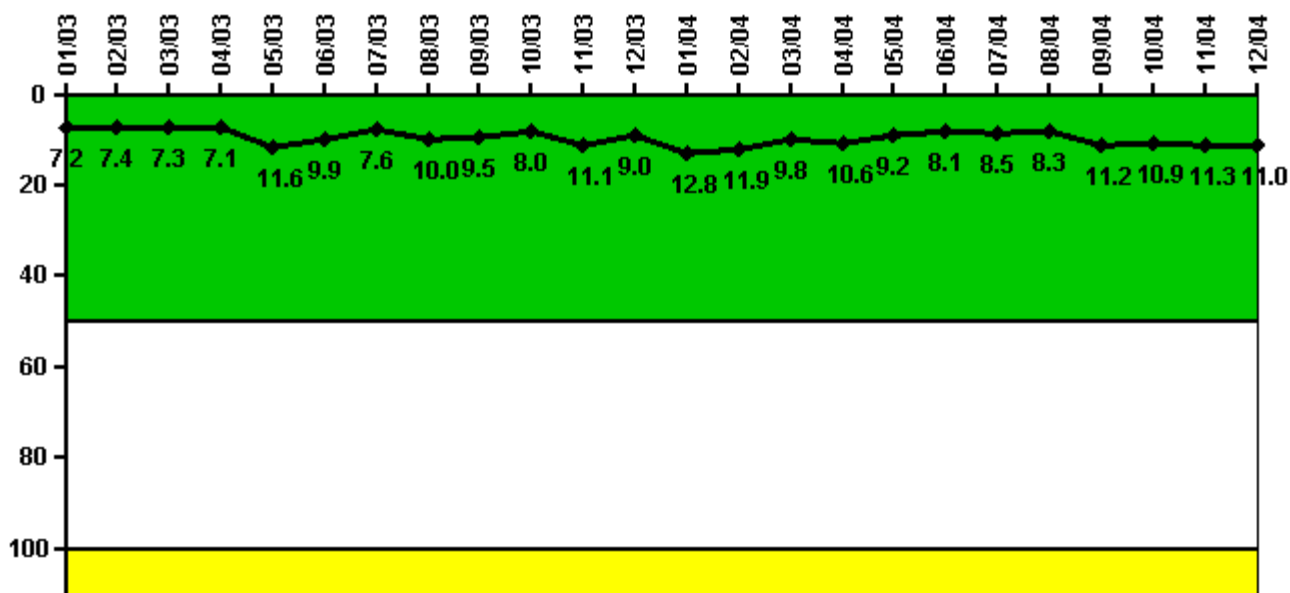
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity	0.001610	0.001660	0.001810	0.001760	0.001870	0.002510	0.002080	0.002060	0.001980	0.002020	0.003440	0.002350
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
<b>Indicator value</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.3</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.7</b>	<b>1.2</b>
Reactor Coolant System Activity	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum activity	0.001800	0.002590	0.000905	0.001140	0.001230	0.001280	0.001250	0.001290	0.001380	0.001340	0.001250	0.001130
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
<b>Indicator value</b>	<b>0.9</b>	<b>1.3</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>

Licensee Comments: none

### Reactor Coolant System Leakage



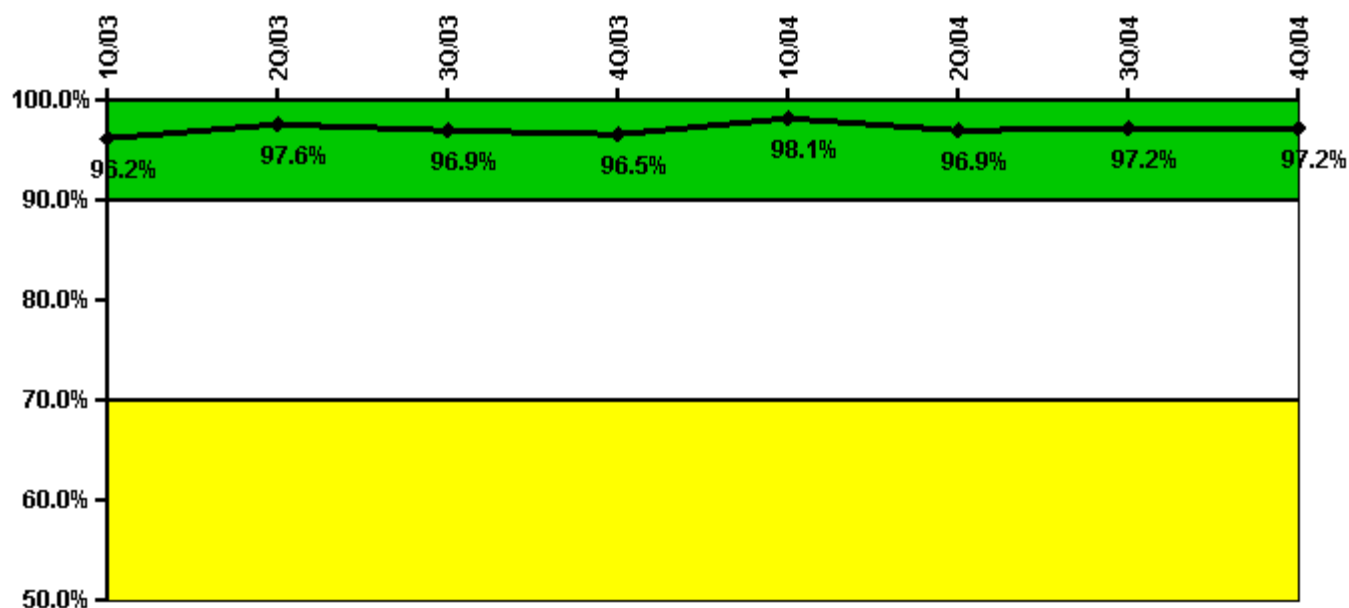
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	2.165	2.205	2.190	2.123	3.480	2.980	2.290	3.010	2.840	2.410	3.320	2.700
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.2	7.4	7.3	7.1	11.6	9.9	7.6	10.0	9.5	8.0	11.1	9.0
Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	3.850	3.580	2.950	3.170	2.760	2.440	2.560	2.500	3.370	3.270	3.400	3.310
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	12.8	11.9	9.8	10.6	9.2	8.1	8.5	8.3	11.2	10.9	11.3	11.0

Licensee Comments: none

### Drill/Exercise Performance



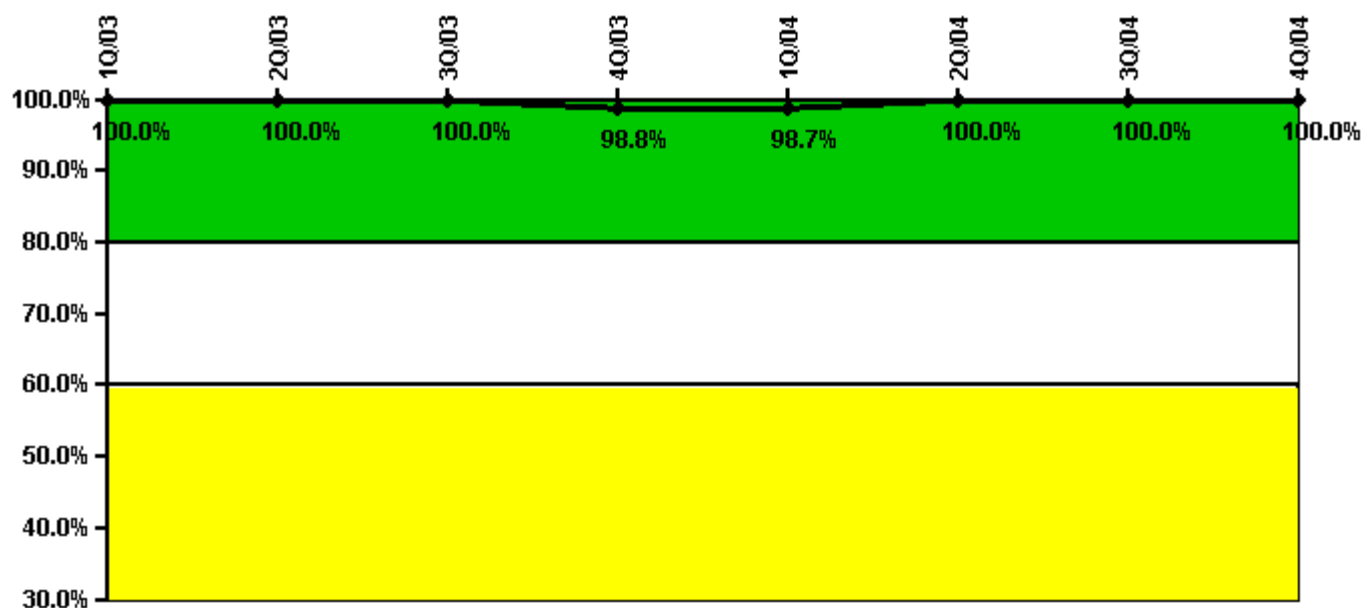
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	10.0	7.0	31.0	12.0	0	38.0	24.0	18.0
Total opportunities	10.0	8.0	32.0	12.0	0	40.0	24.0	18.0
Indicator value	96.2%	97.6%	96.9%	96.5%	98.1%	96.9%	97.2%	97.2%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	81.0	80.0	81.0	82.0	76.0	79.0	82.0	83.0
Total Key personnel	81.0	80.0	81.0	83.0	77.0	79.0	82.0	83.0
Indicator value	100.0%	100.0%	100.0%	98.8%	98.7%	100.0%	100.0%	100.0%

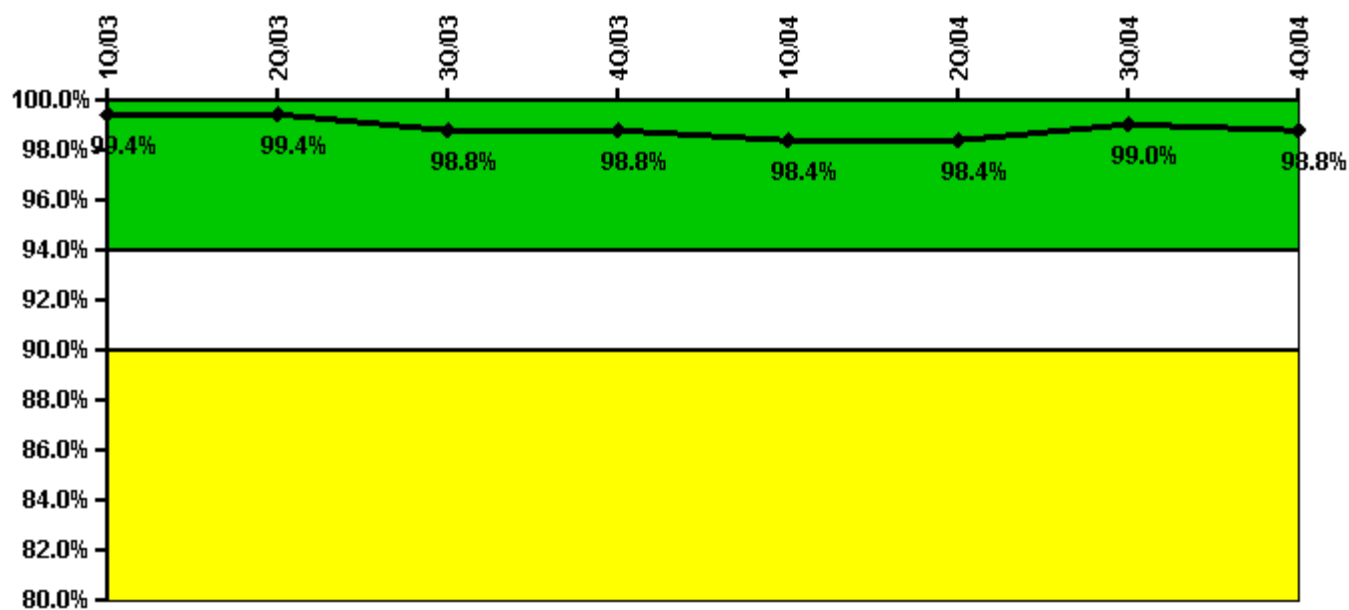
Licensee Comments:

3Q/04: Data correction to reflect 82 of 82. No change to indicator color (green).

2Q/04: Data correction to reflect 79 of 79. No change to indicator color (green).



### Alert & Notification System



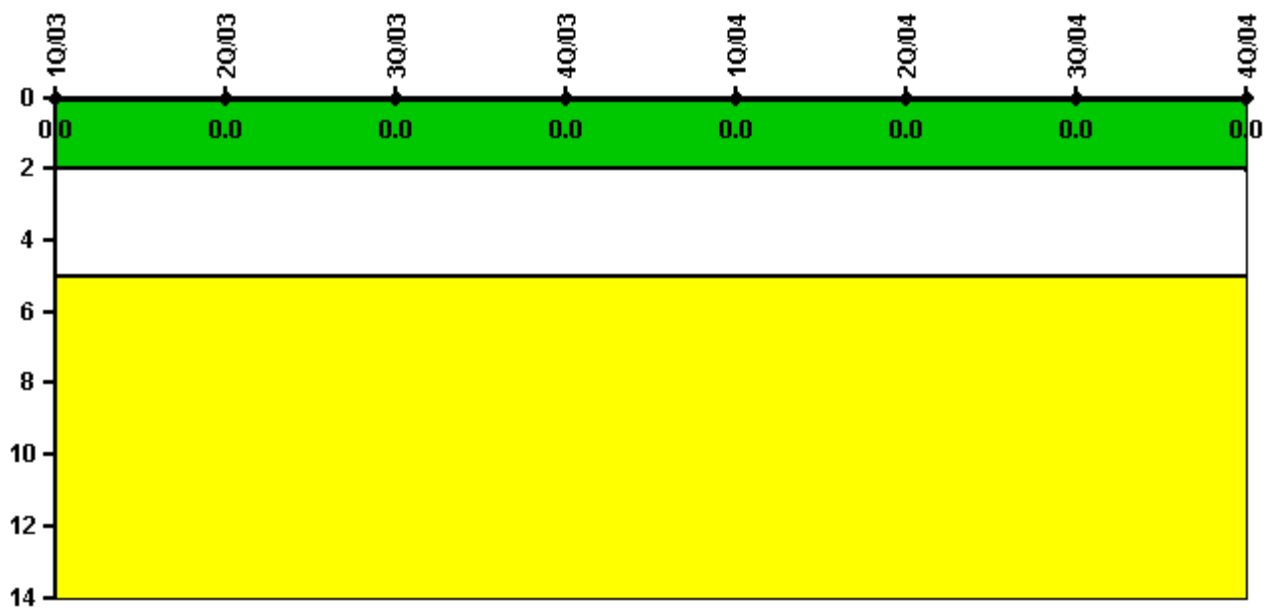
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	129	128	124	129	127	128	127	128
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	99.4%	99.4%	98.8%	98.8%	98.4%	98.4%	99.0%	98.8%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



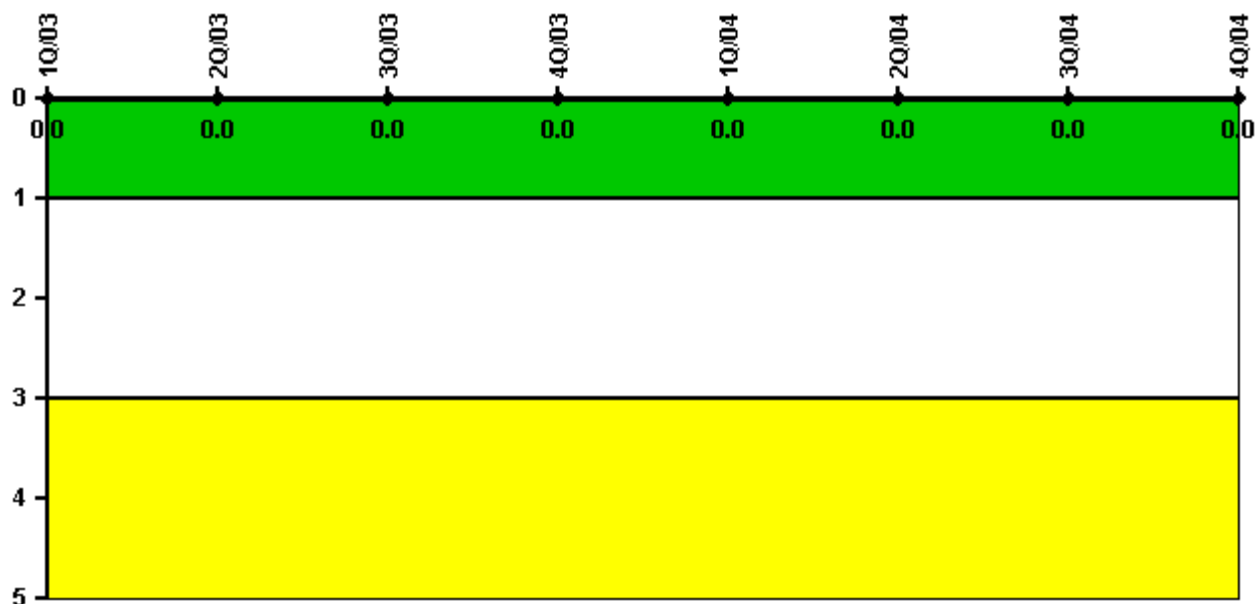
Thresholds: White > 2.0 Yellow > 5.0

**Notes**

Occupational Exposure Control Effectiveness	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
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	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
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](#)

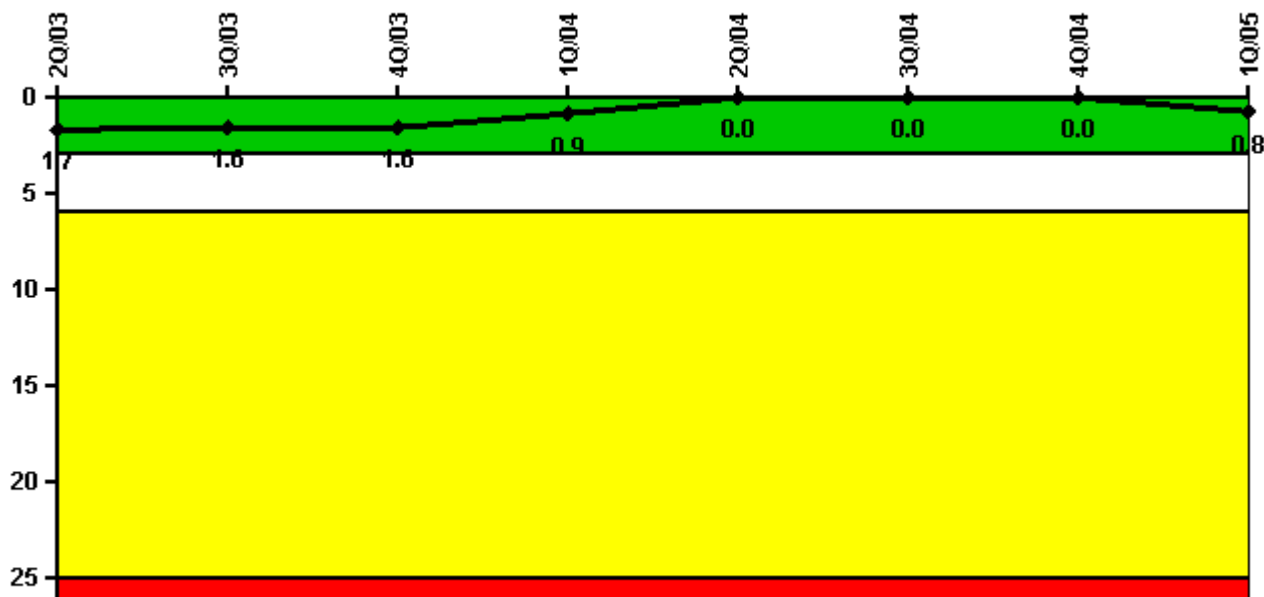
Last Modified: March 9, 2005

# Grand Gulf 1

## 1Q/2005 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



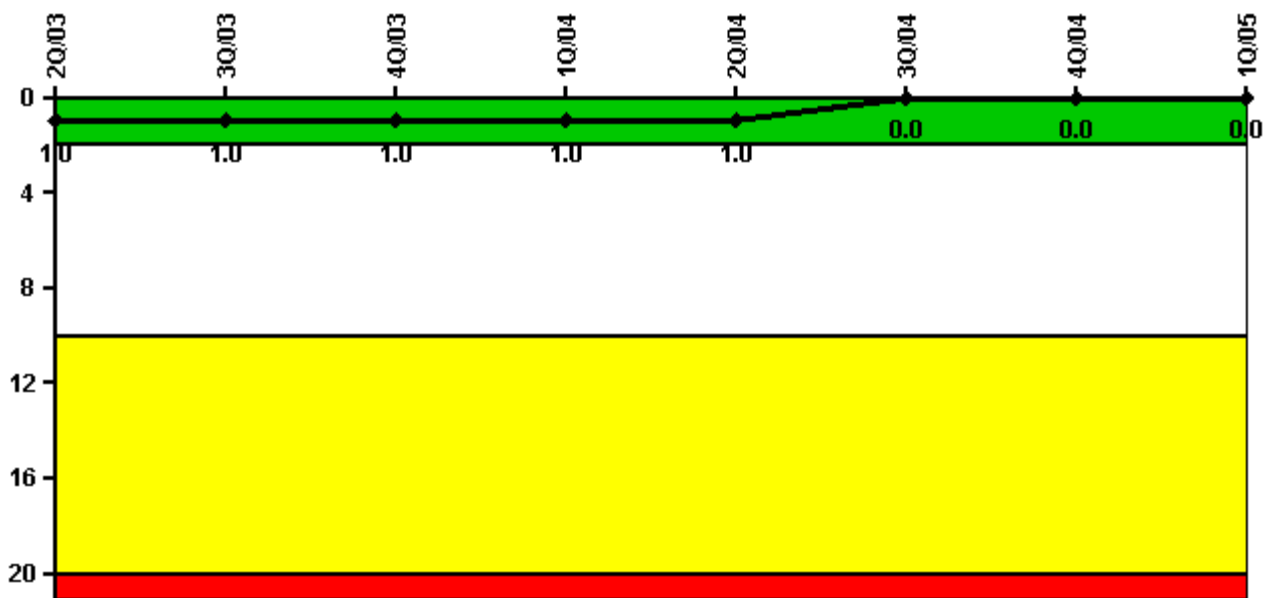
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned scrams	1.0	0	0	0	0	0	0	1.0
Critical hours	2091.1	2208.0	2209.0	1500.5	2183.0	2208.0	2209.0	2121.9
<b>Indicator value</b>	<b>1.7</b>	<b>1.6</b>	<b>1.6</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.8</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



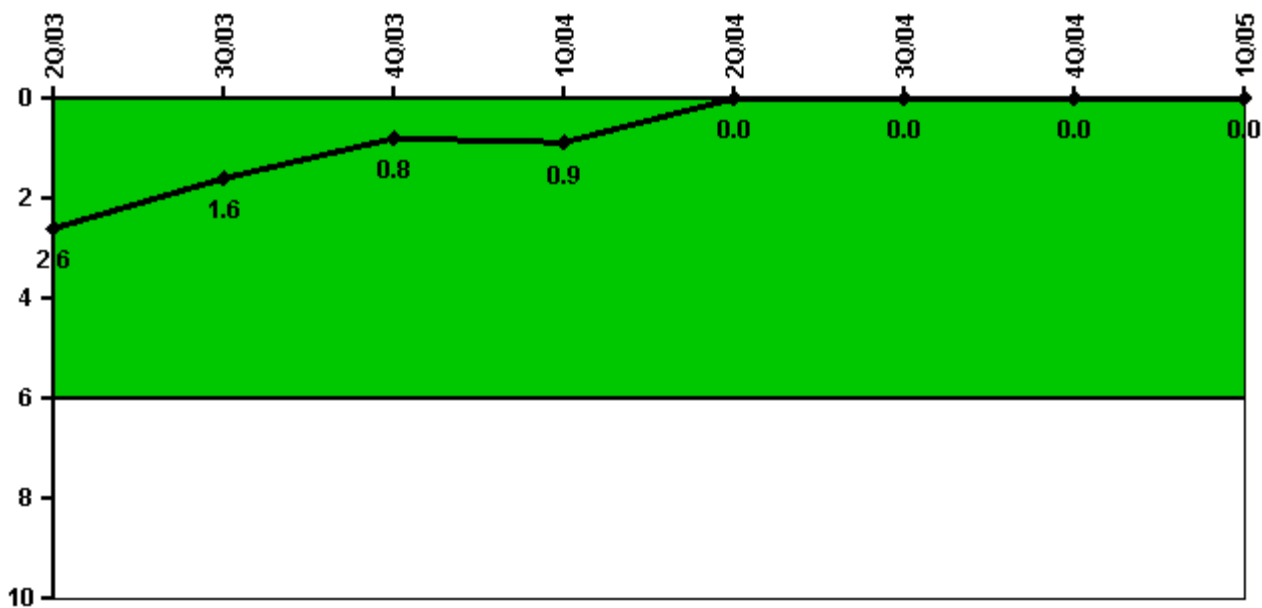
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



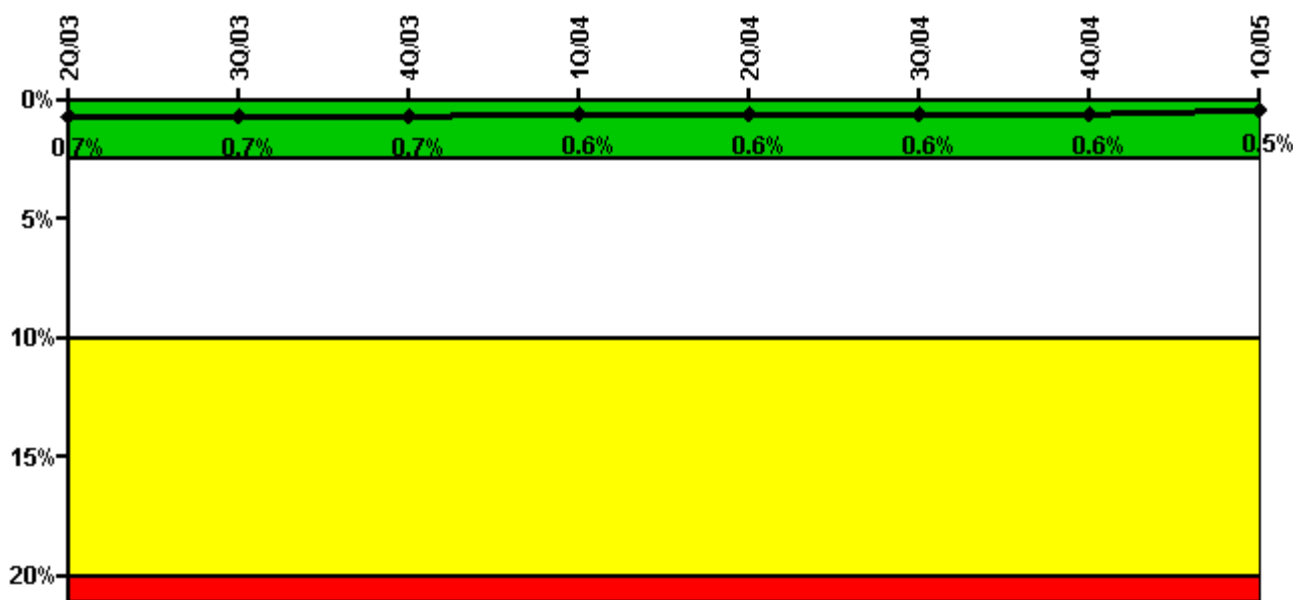
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2091.1	2208.0	2209.0	1500.5	2183.0	2208.0	2209.0	2121.9
<b>Indicator value</b>	<b>2.6</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



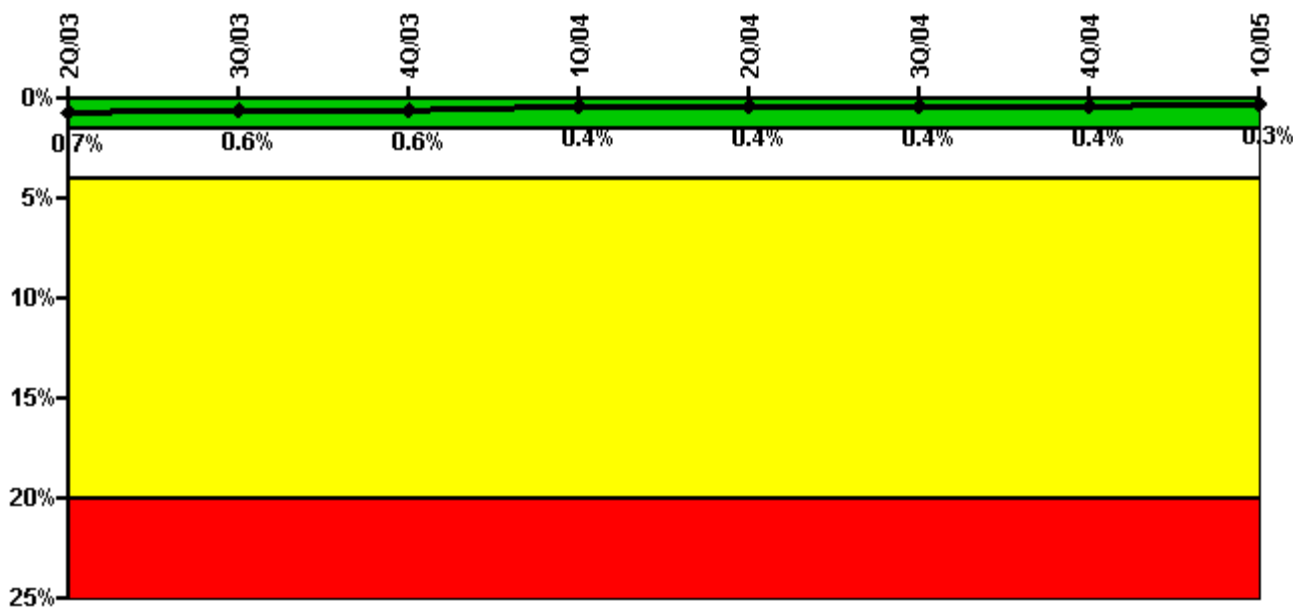
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
<b>Train 1</b>								
Planned unavailable hours	11.30	21.27	1.44	13.77	0.82	1.23	10.19	32.06
Unplanned unavailable hours	0	0	0	0	35.57	0.67	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	1.26	19.55	19.52	1.06	0.70	0.70	9.40	1.37
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Train 3</b>								
Planned unavailable hours	7.17	16.13	2.70	8.57	1.43	29.12	16.82	0.68
Unplanned unavailable hours	2.10	0	0	0	0	2.60	0	10.59
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.5%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

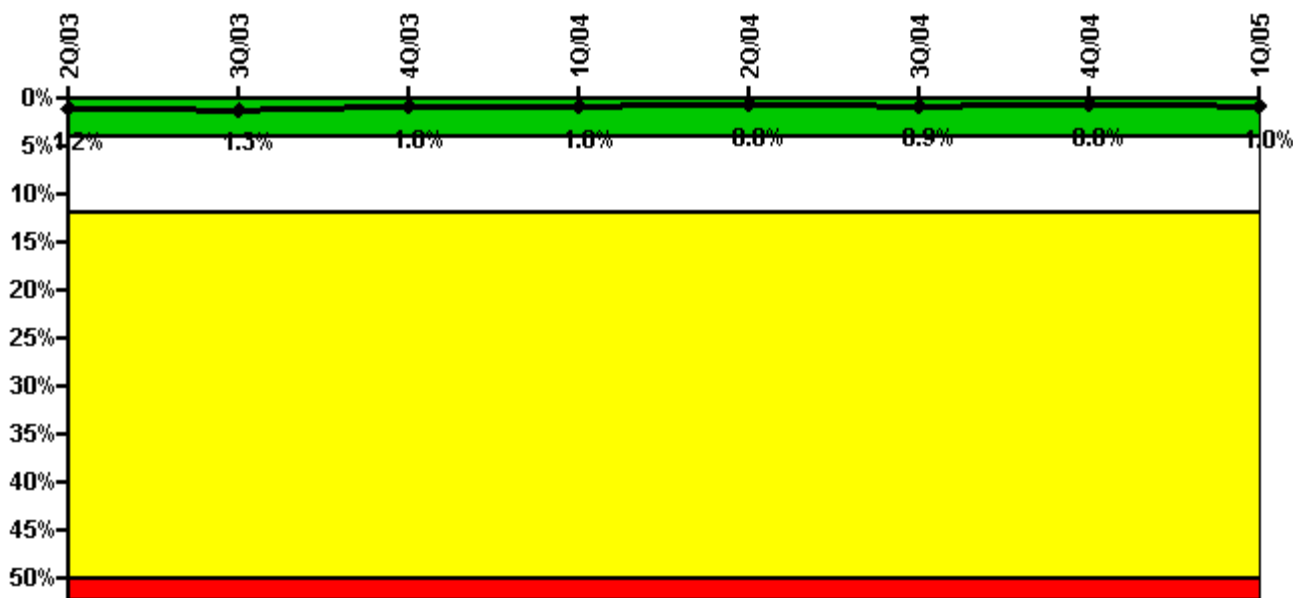
#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
<b>Train 1</b>								
Planned unavailable hours	1.99	3.30	1.40	0.65	5.30	14.11	17.16	5.05
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2091.10	2208.00	2209.00	1500.48	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.3%</b>

Licensee Comments: none



### Safety System Unavailability, Heat Removal System (RCIC)



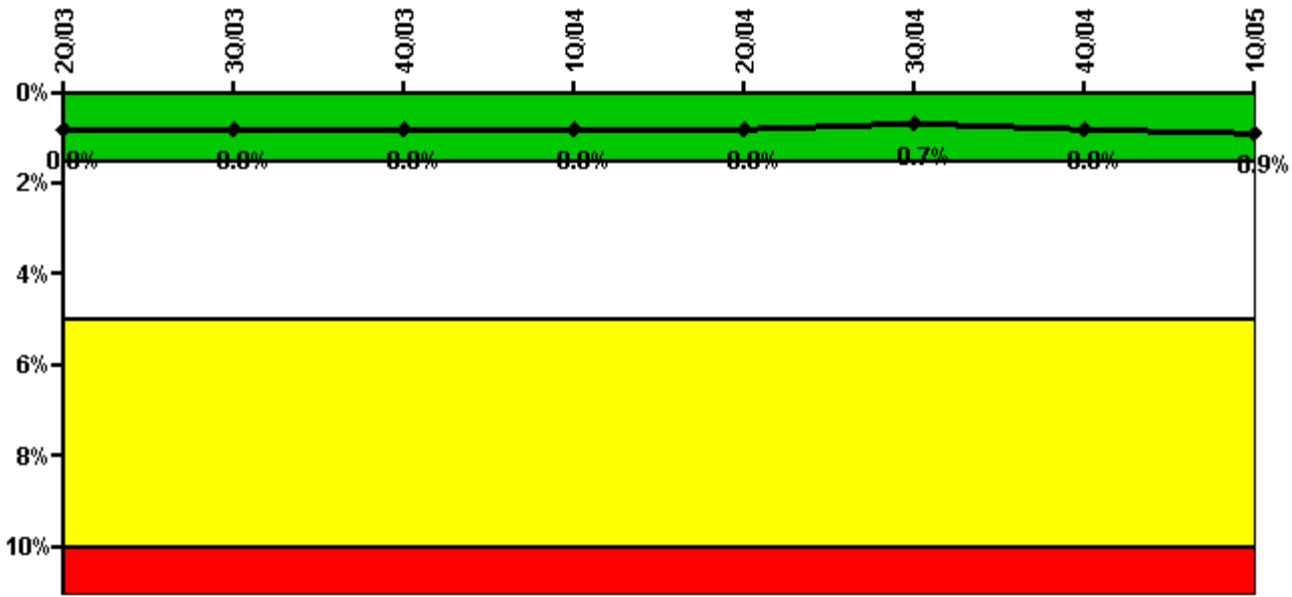
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
<b>Train 1</b>								
Planned unavailable hours	4.23	12.74	11.35	12.12	4.09	6.04	4.35	42.49
Unplanned unavailable hours	0	0	0	0	0	20.57	0	5.29
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2091.10	2208.00	2209.00	1500.48	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>1.2%</b>	<b>1.3%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>1.0%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



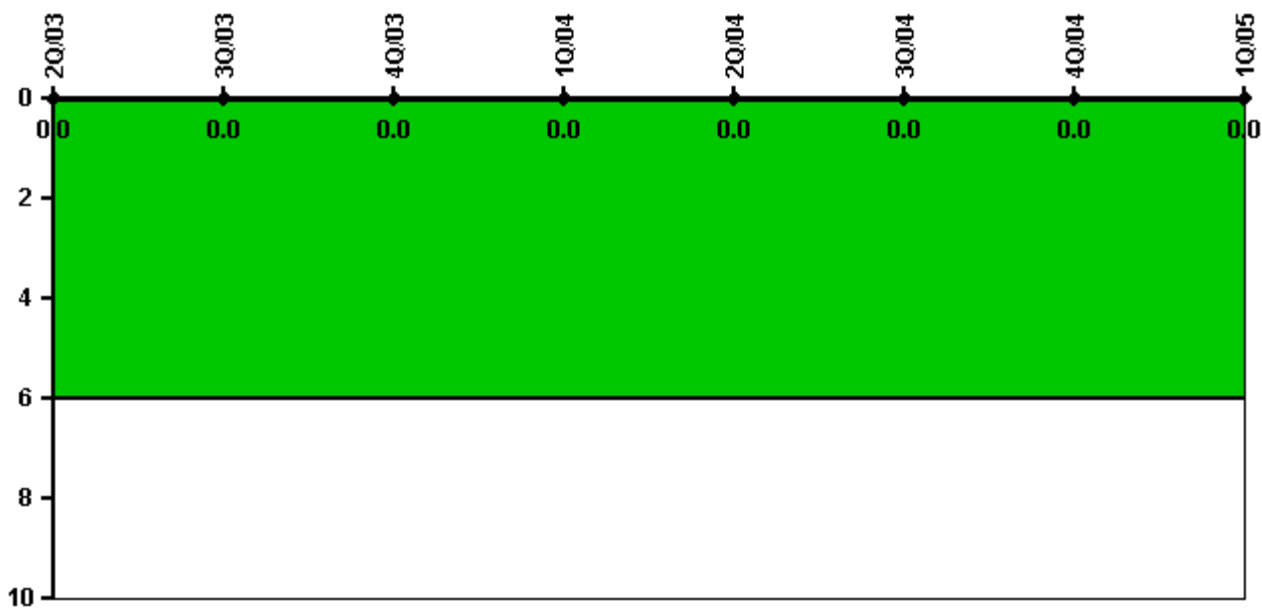
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
<b>Train 1</b>								
Planned unavailable hours	12.42	46.38	3.68	13.02	6.80	2.60	49.85	56.44
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	2.83	16.02	3.85	3.52	60.00	2.07	4.22	2.78
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



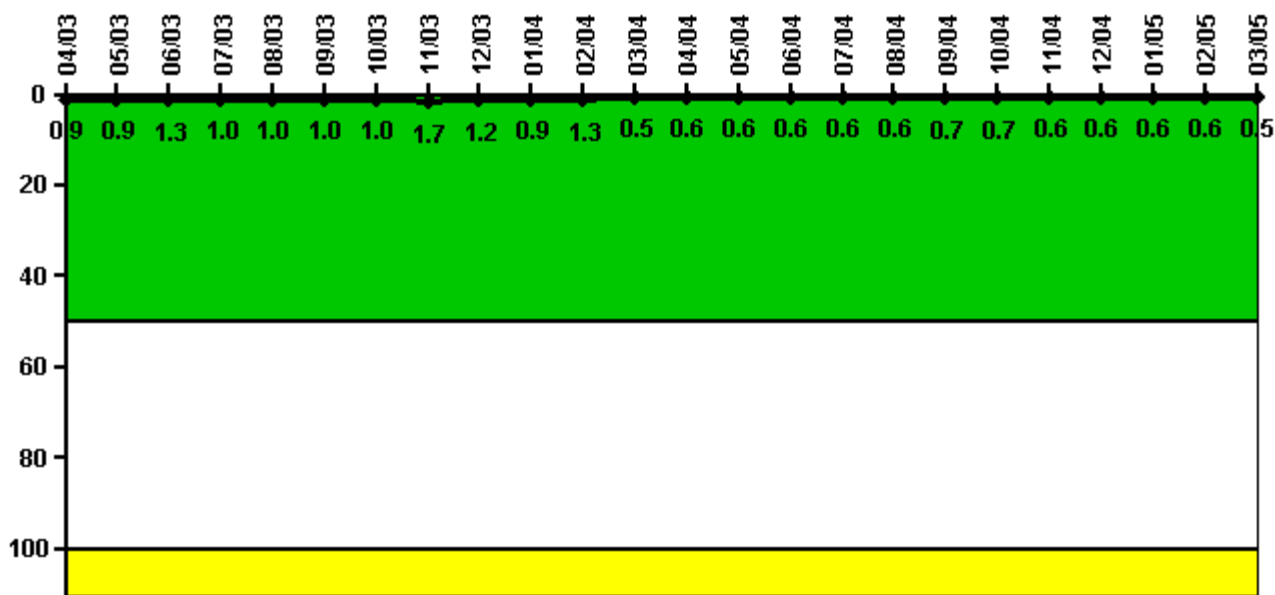
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Safety System Functional Failures	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

### Reactor Coolant System Activity



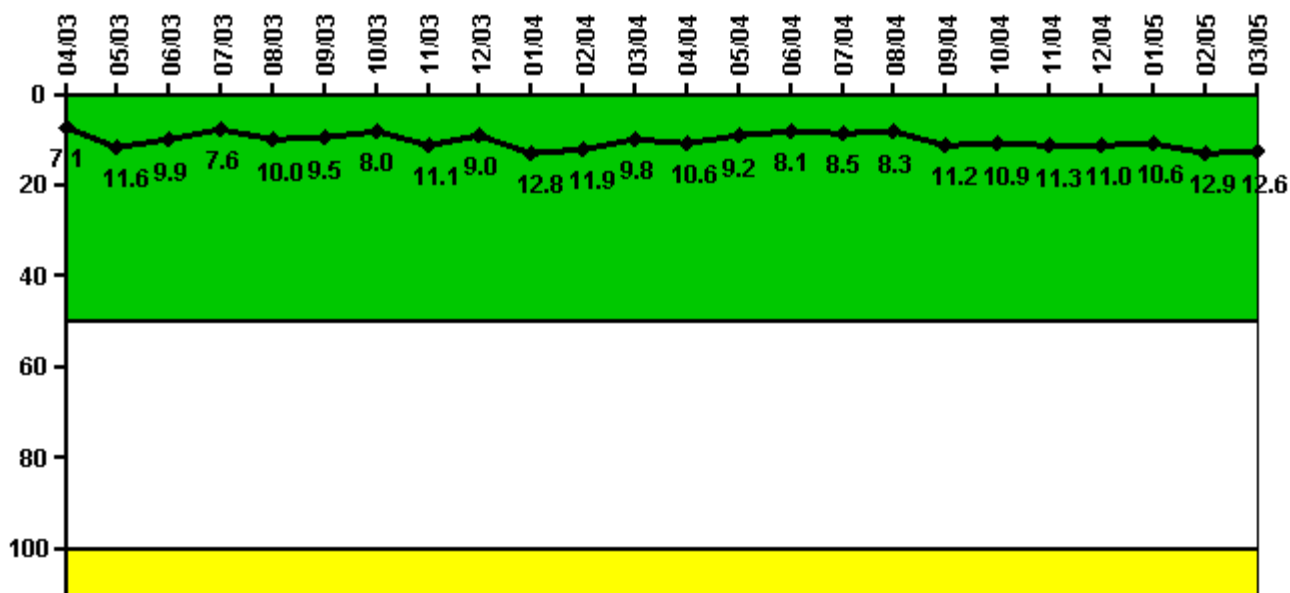
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum activity	0.001760	0.001870	0.002510	0.002080	0.002060	0.001980	0.002020	0.003440	0.002350	0.001800	0.002590	0.000905
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
<b>Indicator value</b>	<b>0.9</b>	<b>0.9</b>	<b>1.3</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.7</b>	<b>1.2</b>	<b>0.9</b>	<b>1.3</b>	<b>0.5</b>
Reactor Coolant System Activity	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum activity	0.001140	0.001230	0.001280	0.001250	0.001290	0.001380	0.001340	0.001250	0.001130	0.001160	0.001110	0.001040
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
<b>Indicator value</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

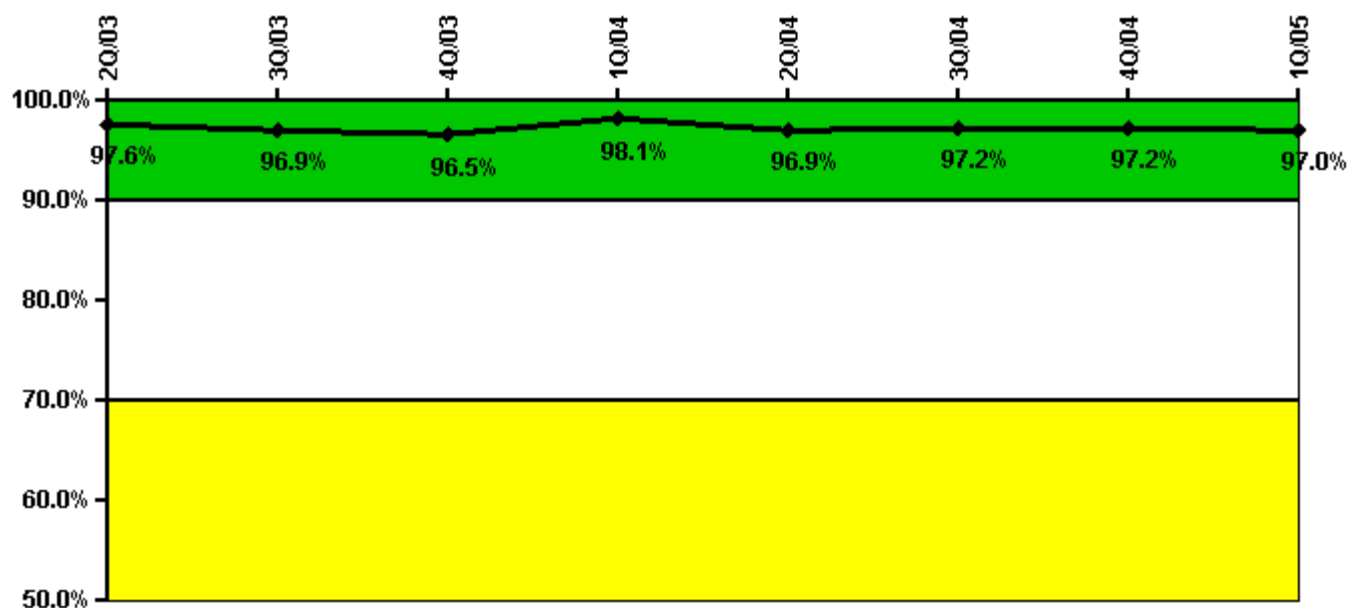
Reactor Coolant System Leakage	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum leakage	2.123	3.480	2.980	2.290	3.010	2.840	2.410	3.320	2.700	3.850	3.580	2.950
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.1	11.6	9.9	7.6	10.0	9.5	8.0	11.1	9.0	12.8	11.9	9.8

Reactor Coolant System Leakage	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum leakage	3.170	2.760	2.440	2.560	2.500	3.370	3.270	3.400	3.310	3.190	3.880	3.780
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	10.6	9.2	8.1	8.5	8.3	11.2	10.9	11.3	11.0	10.6	12.9	12.6

Licensee Comments: none

### Drill/Exercise Performance



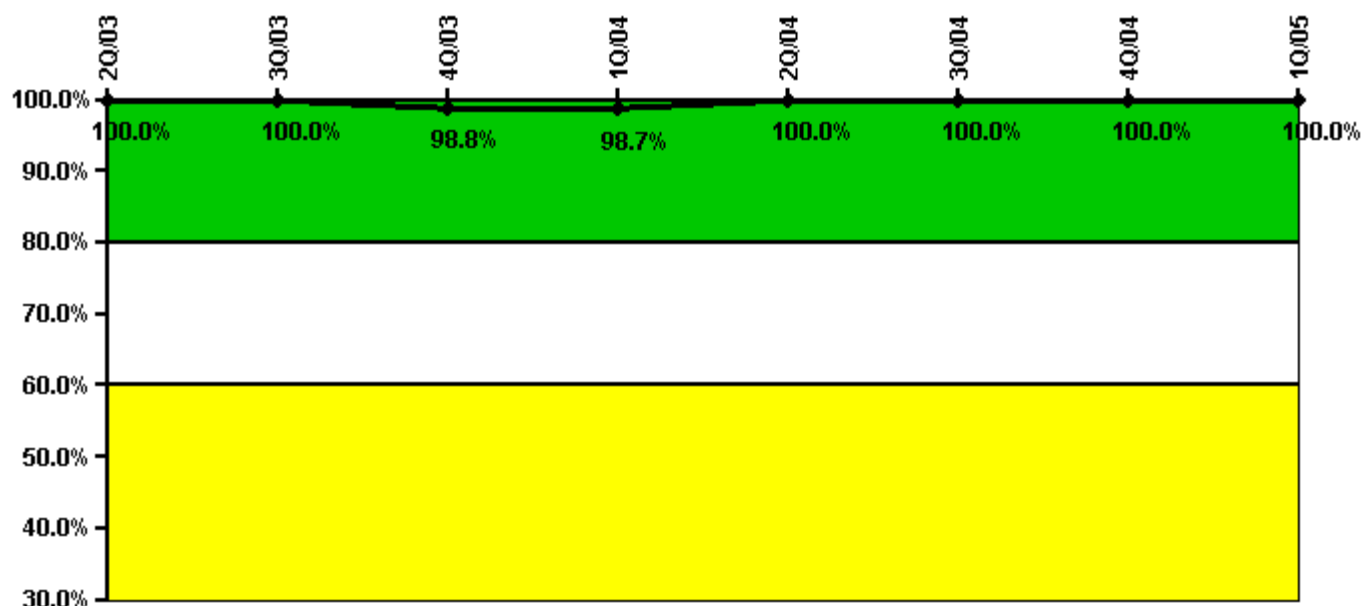
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful opportunities	7.0	31.0	12.0	0	38.0	24.0	18.0	33.0
Total opportunities	8.0	32.0	12.0	0	40.0	24.0	18.0	34.0
Indicator value	97.6%	96.9%	96.5%	98.1%	96.9%	97.2%	97.2%	97.0%

Licensee Comments: none

### ERO Drill Participation



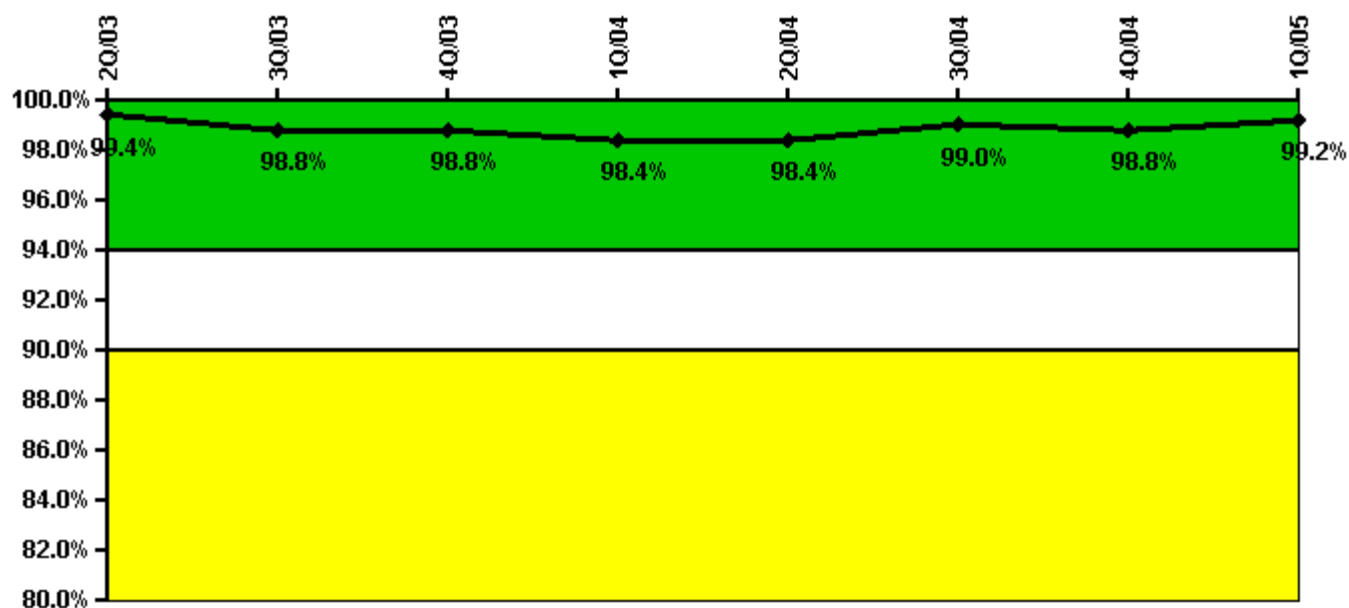
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Participating Key personnel	80.0	81.0	82.0	76.0	79.0	82.0	83.0	81.0
Total Key personnel	80.0	81.0	83.0	77.0	79.0	82.0	83.0	81.0
Indicator value	100.0%	100.0%	98.8%	98.7%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

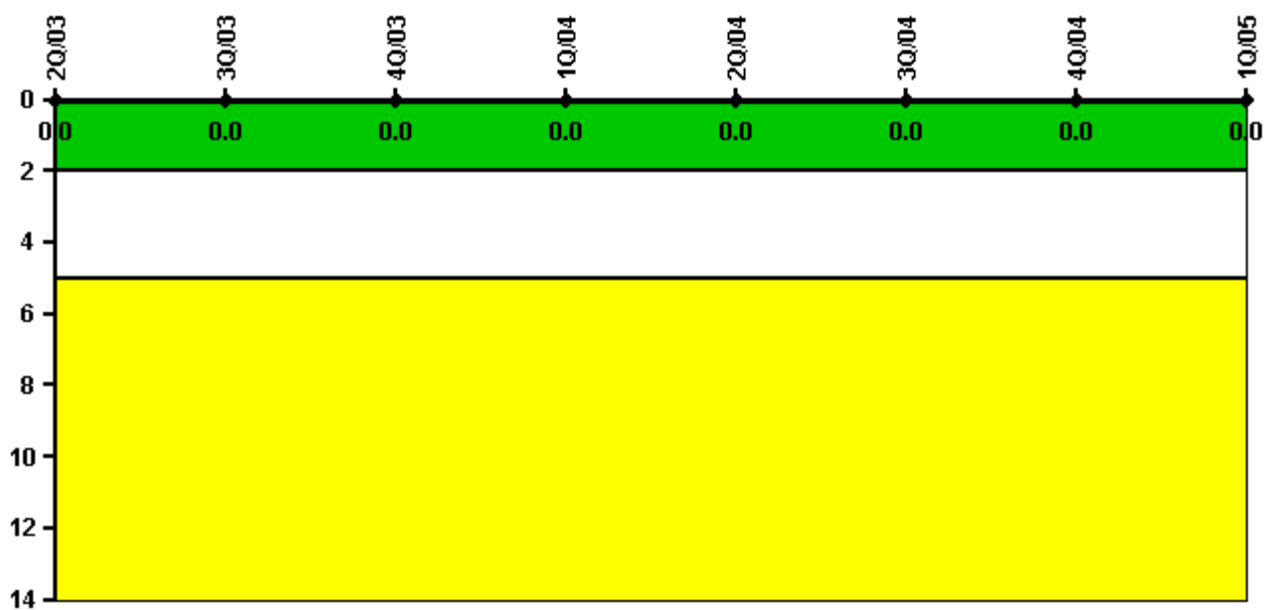
#### Notes

Alert & Notification System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful siren-tests	128	124	129	127	128	127	128	129
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	99.4%	98.8%	98.8%	98.4%	98.4%	99.0%	98.8%	99.2%

Licensee Comments: none



### Occupational Exposure Control Effectiveness



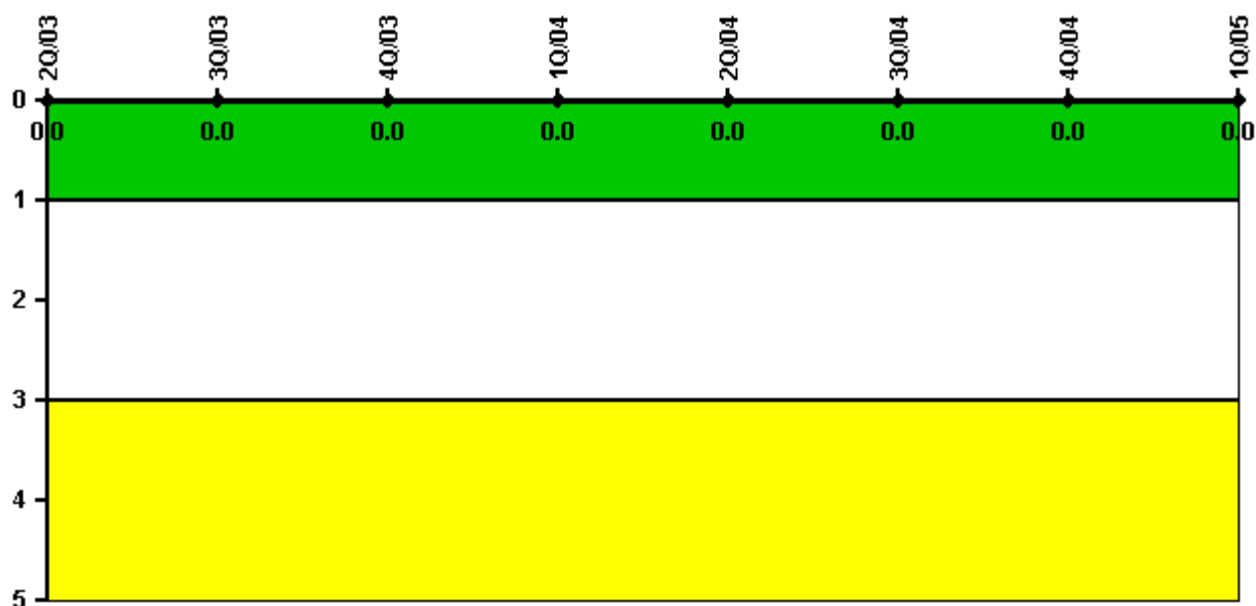
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
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/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
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](#)

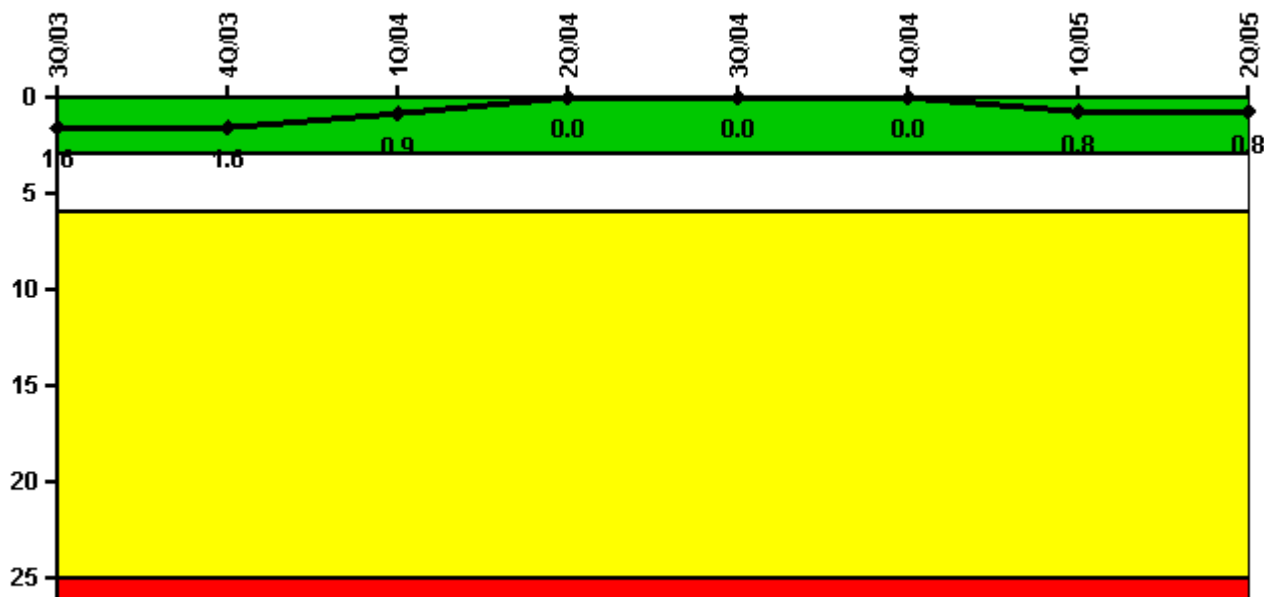
Last Modified: June 17, 2005

# Grand Gulf 1

## 2Q/2005 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



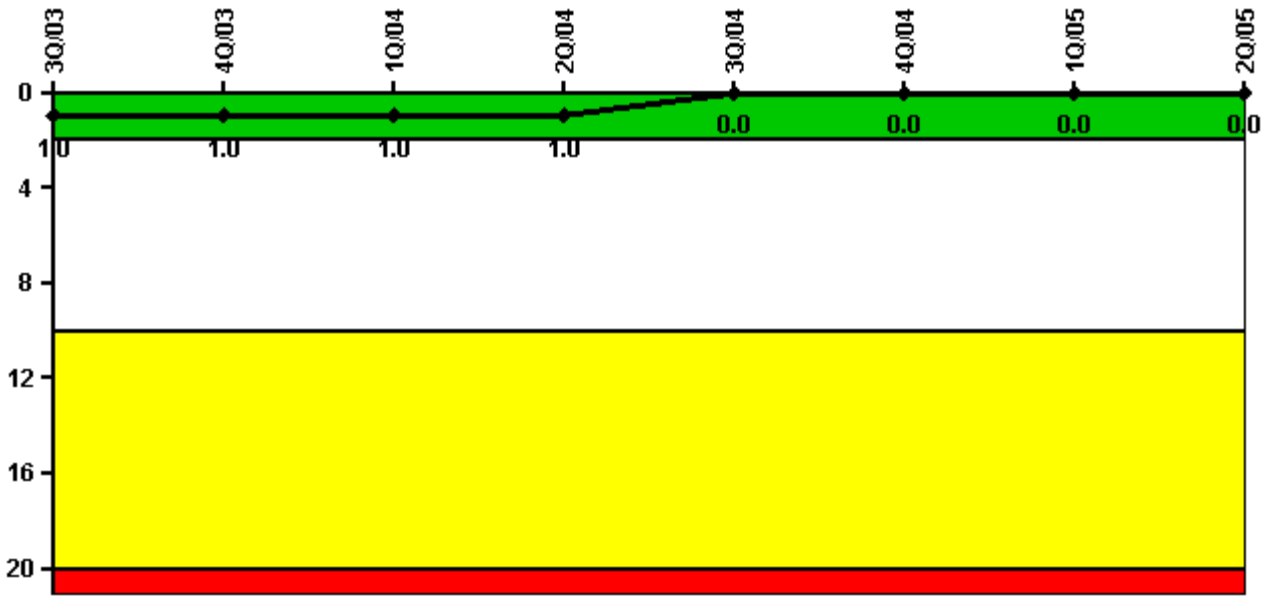
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	1500.5	2183.0	2208.0	2209.0	2121.9	2183.0
Indicator value	1.6	1.6	0.9	0	0	0	0.8	0.8

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



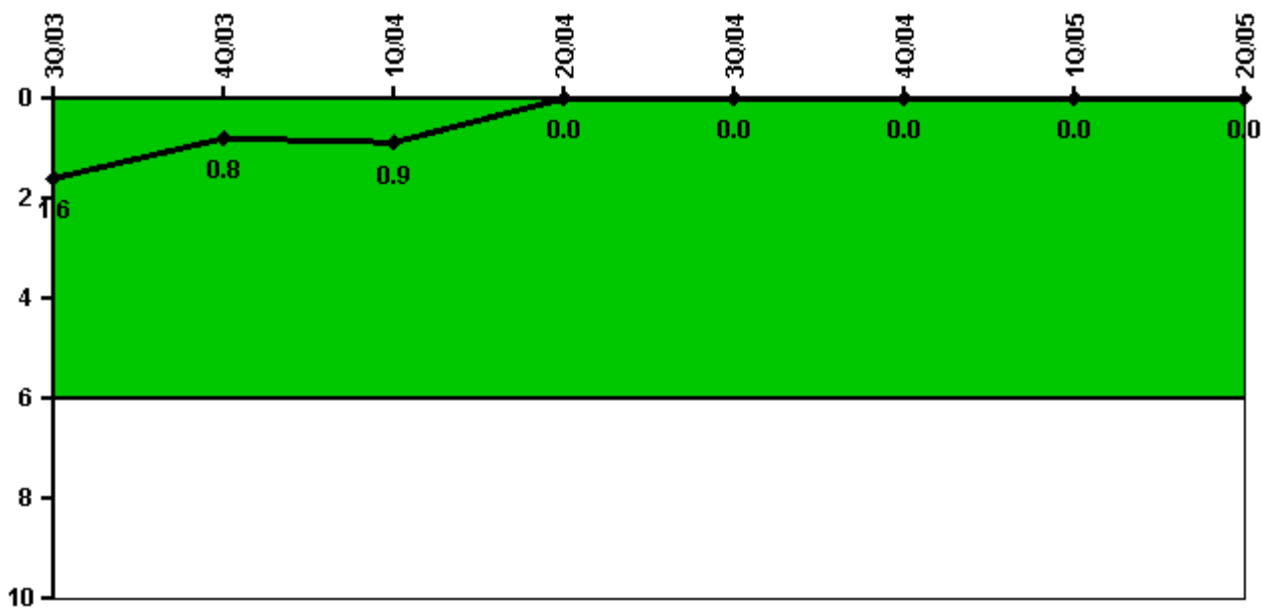
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



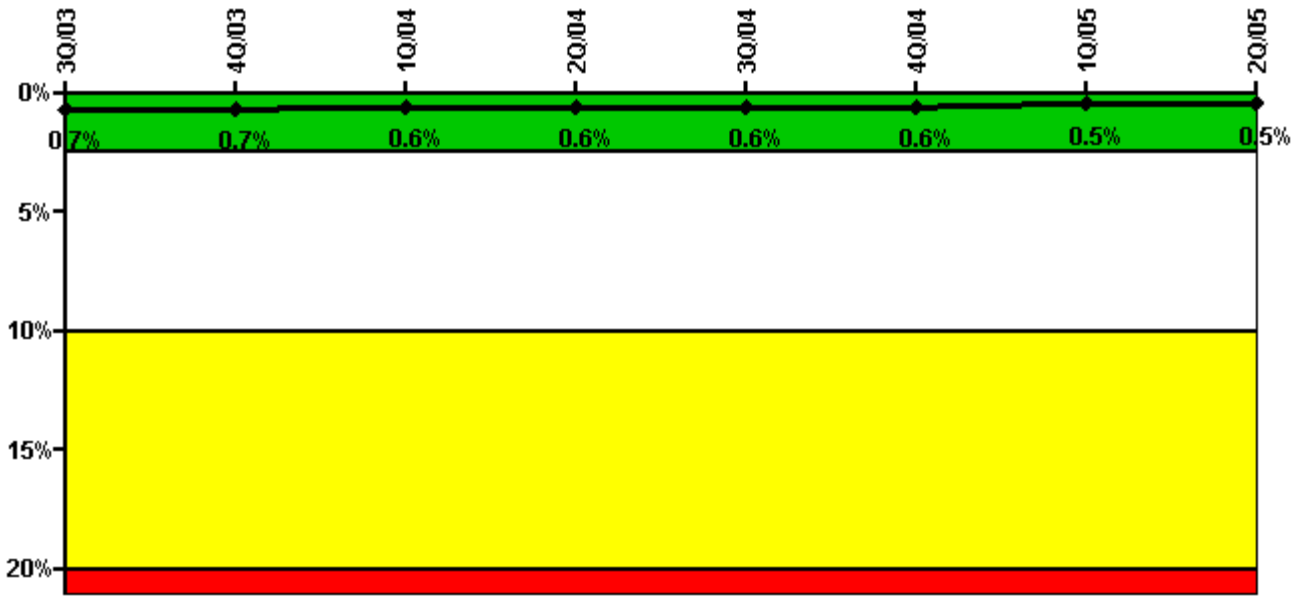
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	1500.5	2183.0	2208.0	2209.0	2121.9	2183.0
<b>Indicator value</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



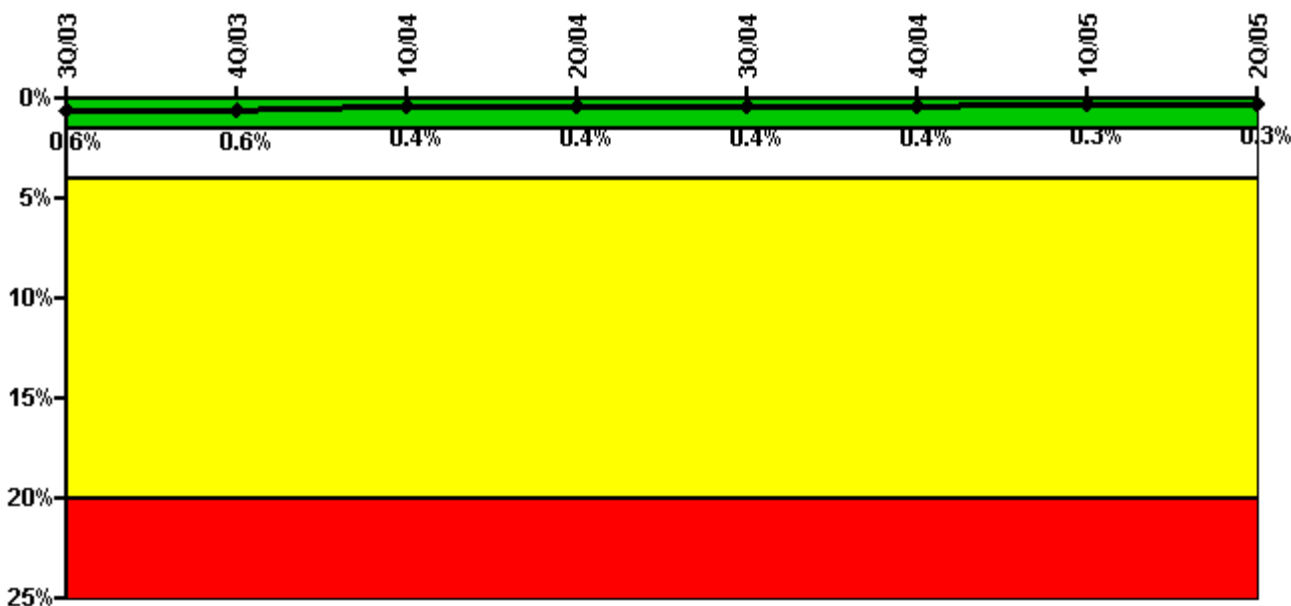
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
<b>Train 1</b>								
Planned unavailable hours	21.27	1.44	13.77	0.82	1.23	10.19	32.06	1.52
Unplanned unavailable hours	0	0	0	35.57	0.67	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	19.55	19.52	1.06	0.70	0.70	9.40	1.37	1.62
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 3</b>								
Planned unavailable hours	16.13	2.70	8.57	1.43	29.12	16.82	0.68	18.10
Unplanned unavailable hours	0	0	0	0	2.60	0	10.59	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



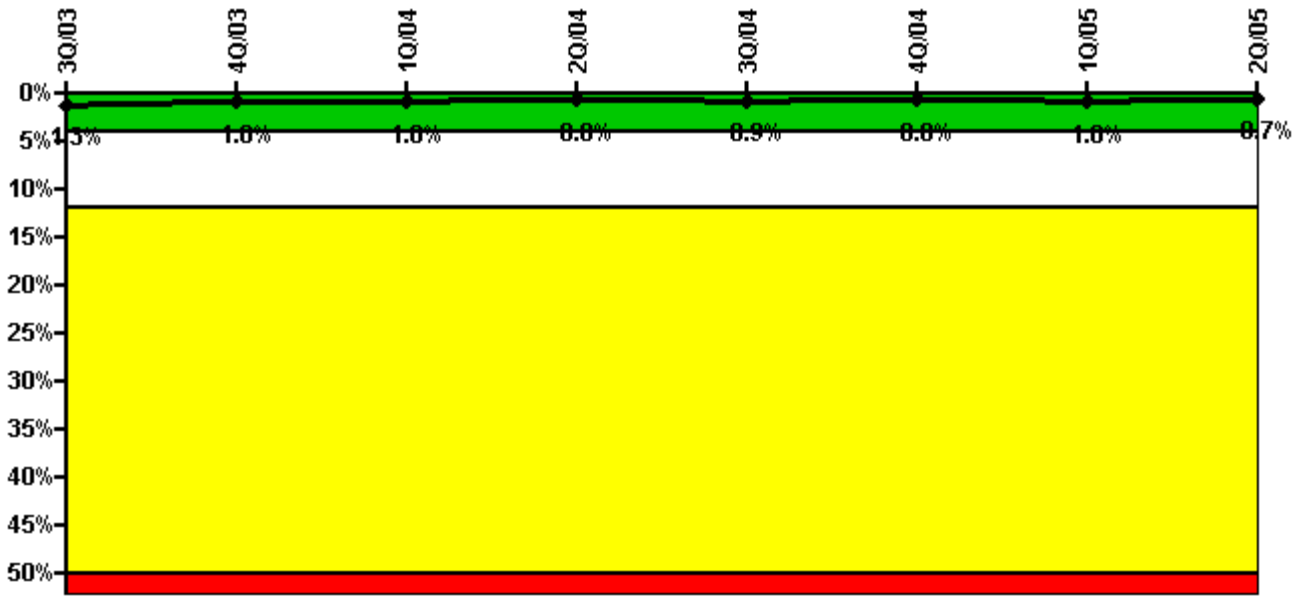
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

**Notes**

Safety System Unavailability, High Pressure Injection System (HPCS)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
<b>Train 1</b>								
Planned unavailable hours	3.30	1.40	0.65	5.30	14.11	17.16	5.05	1.45
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1500.48	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.3%</b>	<b>0.3%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

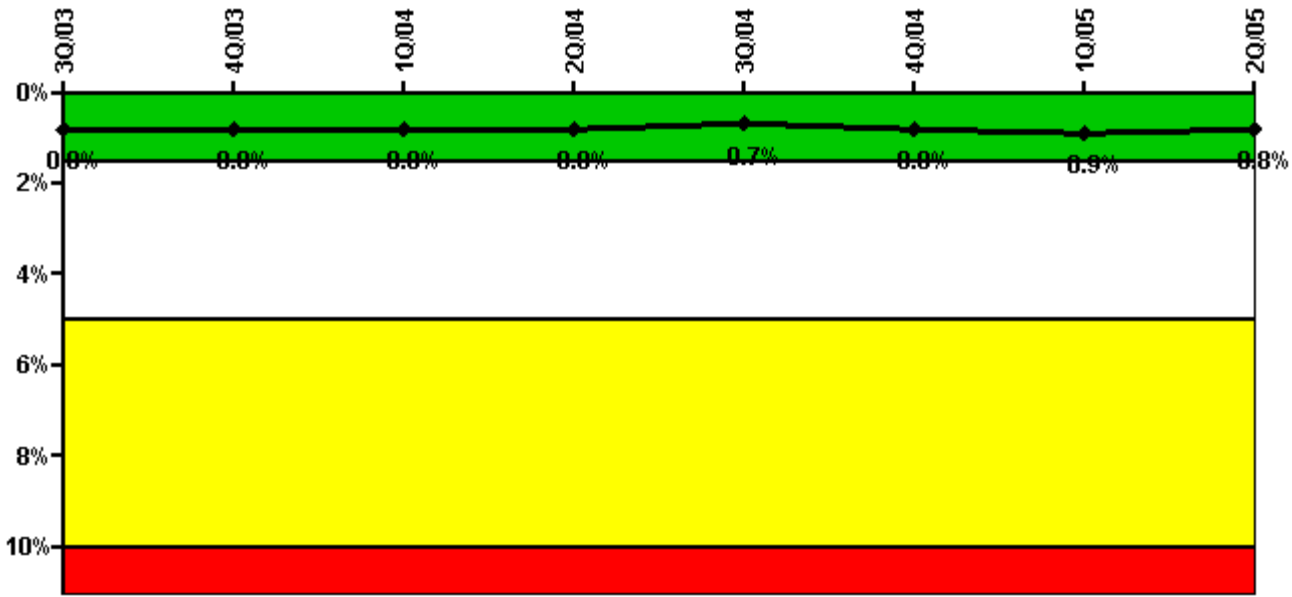
#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
<b>Train 1</b>								
Planned unavailable hours	12.74	11.35	12.12	4.09	6.04	4.35	42.49	13.06
Unplanned unavailable hours	0	0	0	0	20.57	0	5.29	7.84
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1500.48	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Indicator value</b>	<b>1.3%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>1.0%</b>	<b>0.7%</b>

Licensee Comments: none



### Safety System Unavailability, Residual Heat Removal System



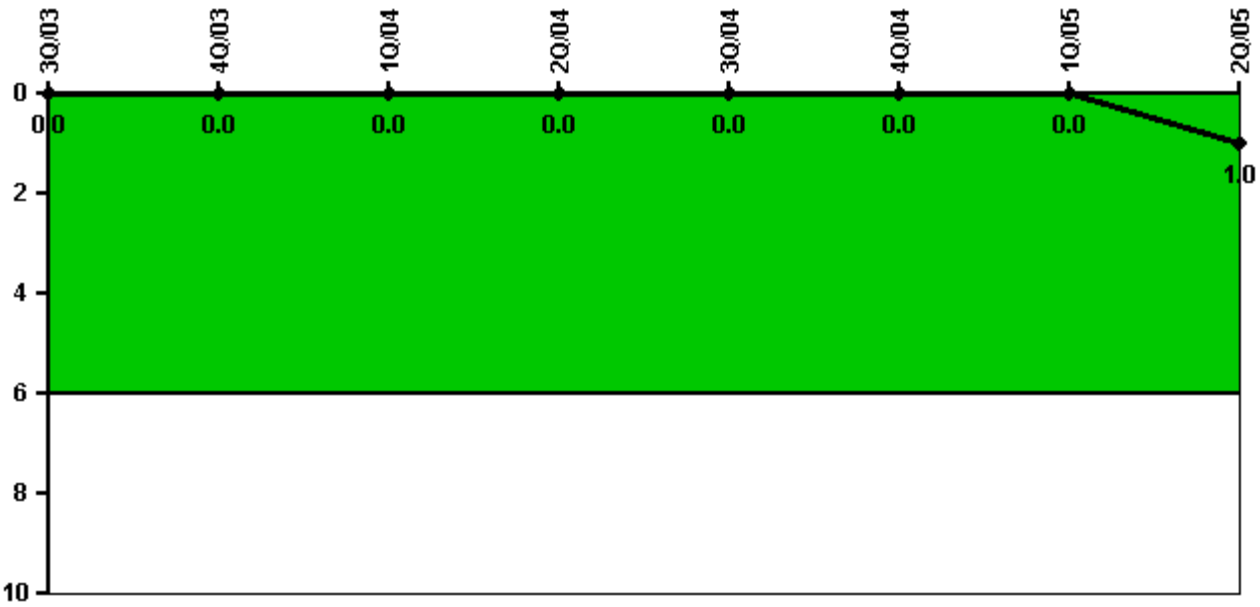
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
<b>Train 1</b>								
Planned unavailable hours	46.38	3.68	13.02	6.80	2.60	49.85	56.44	3.43
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Train 2</b>								
Planned unavailable hours	16.02	3.85	3.52	60.00	2.07	4.22	2.78	3.83
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.8%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

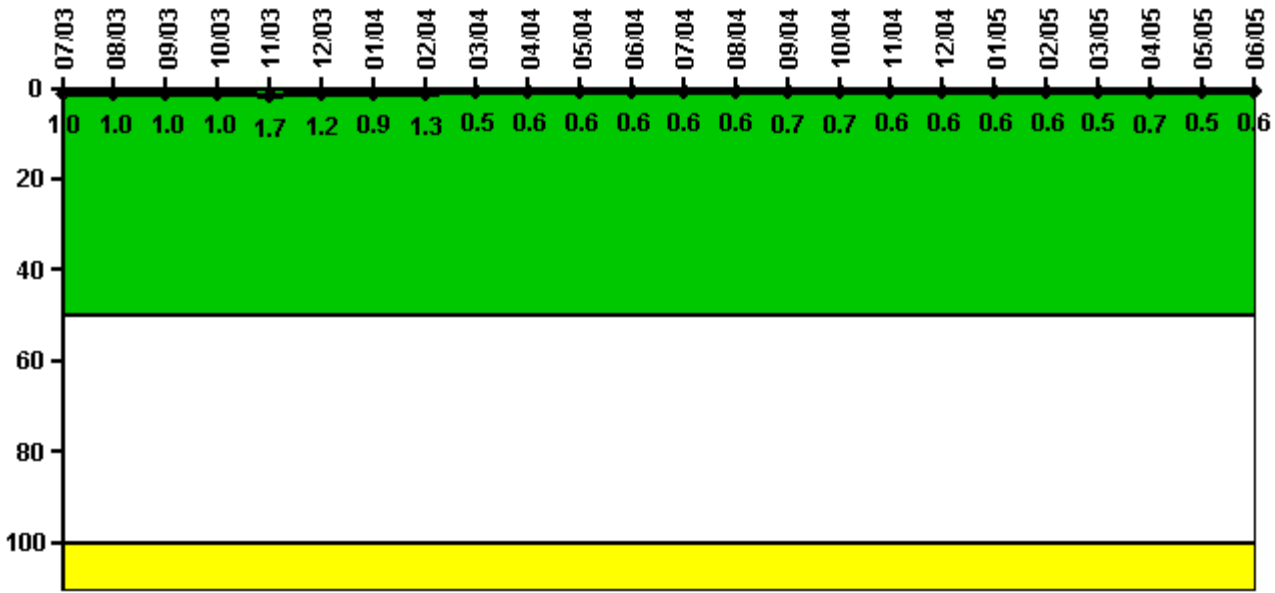
#### Notes

Safety System Functional Failures (BWR)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Safety System Functional Failures	0	0	0	0	0	0	0	1
<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>1</b>

Licensee Comments:

2Q/05: LER 2005-02-000 - Loss of secondary containment function due to inoperable secondary containment isolation valve.

### Reactor Coolant System Activity



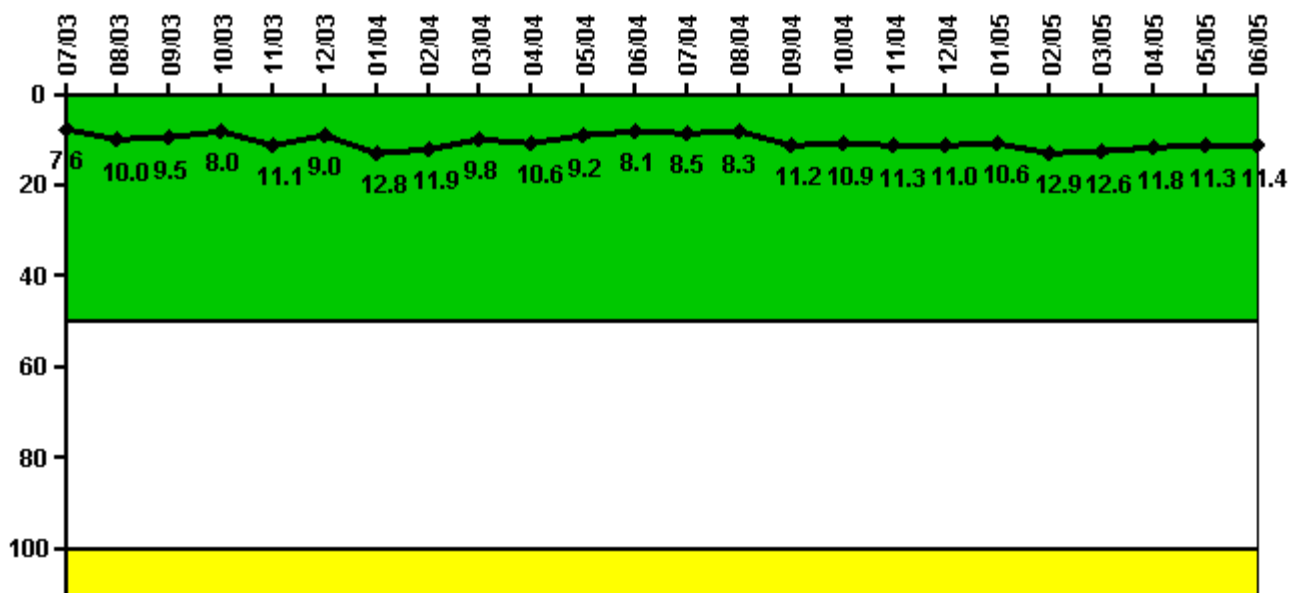
Thresholds: White > 50.0 Yellow > 100.0

**Notes**

Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.002080	0.002060	0.001980	0.002020	0.003440	0.002350	0.001800	0.002590	0.000905	0.001140	0.001230	0.001280
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
<b>Indicator value</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.7</b>	<b>1.2</b>	<b>0.9</b>	<b>1.3</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>
Reactor Coolant System Activity	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum activity	0.001250	0.001290	0.001380	0.001340	0.001250	0.001130	0.001160	0.001110	0.001040	0.001370	0.001060	0.001260
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
<b>Indicator value</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>	<b>0.7</b>	<b>0.5</b>	<b>0.6</b>

Licensee Comments: none

### Reactor Coolant System Leakage



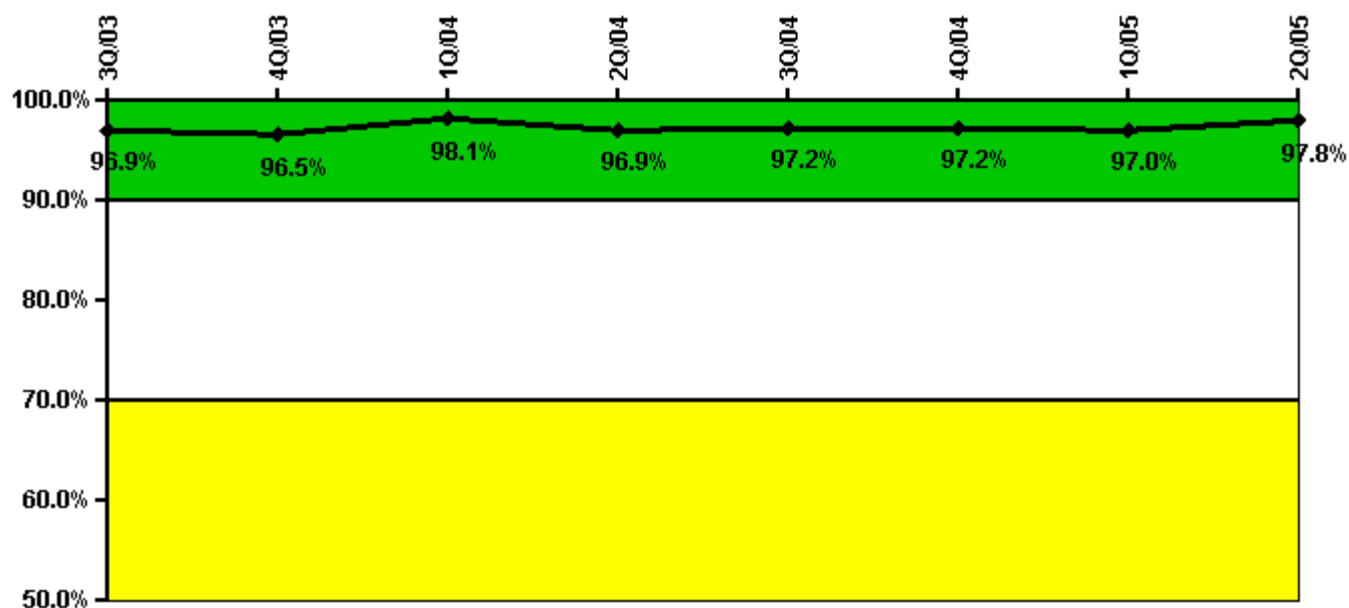
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	2.290	3.010	2.840	2.410	3.320	2.700	3.850	3.580	2.950	3.170	2.760	2.440
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	<b>7.6</b>	<b>10.0</b>	<b>9.5</b>	<b>8.0</b>	<b>11.1</b>	<b>9.0</b>	<b>12.8</b>	<b>11.9</b>	<b>9.8</b>	<b>10.6</b>	<b>9.2</b>	<b>8.1</b>
Reactor Coolant System Leakage	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum leakage	2.560	2.500	3.370	3.270	3.400	3.310	3.190	3.880	3.780	3.530	3.390	3.410
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	<b>8.5</b>	<b>8.3</b>	<b>11.2</b>	<b>10.9</b>	<b>11.3</b>	<b>11.0</b>	<b>10.6</b>	<b>12.9</b>	<b>12.6</b>	<b>11.8</b>	<b>11.3</b>	<b>11.4</b>

Licensee Comments: none

### Drill/Exercise Performance



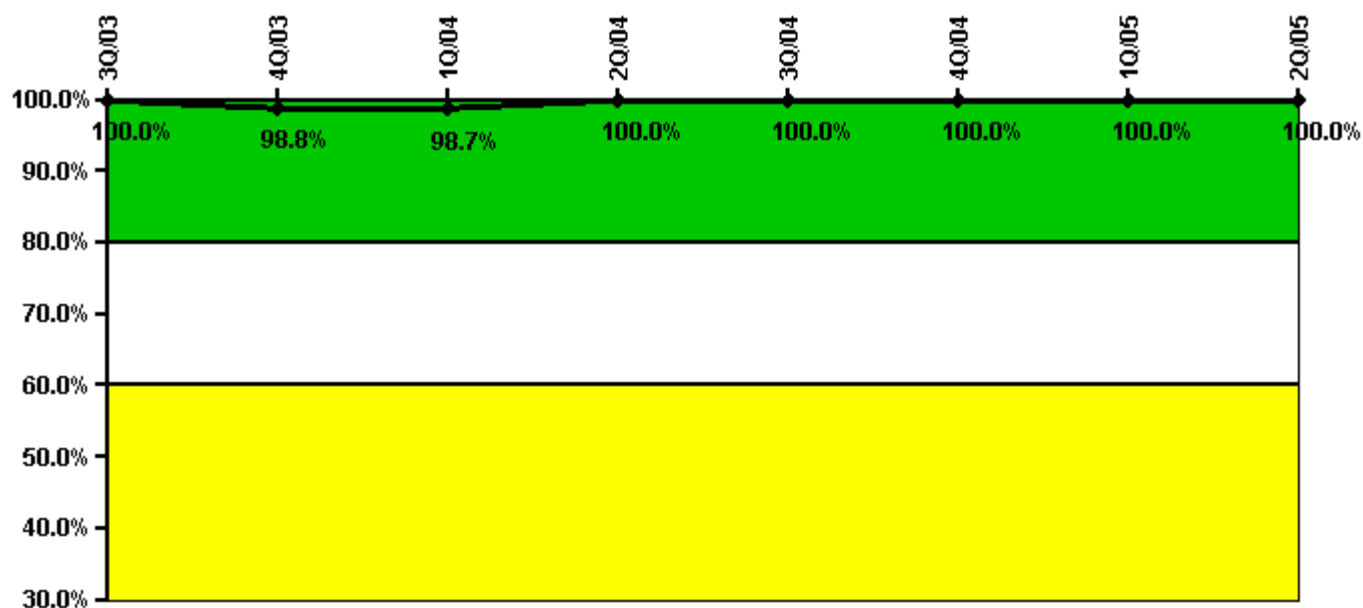
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful opportunities	31.0	12.0	0	38.0	24.0	18.0	33.0	23.0
Total opportunities	32.0	12.0	0	40.0	24.0	18.0	34.0	23.0
Indicator value	96.9%	96.5%	98.1%	96.9%	97.2%	97.2%	97.0%	97.8%

Licensee Comments: none

### ERO Drill Participation



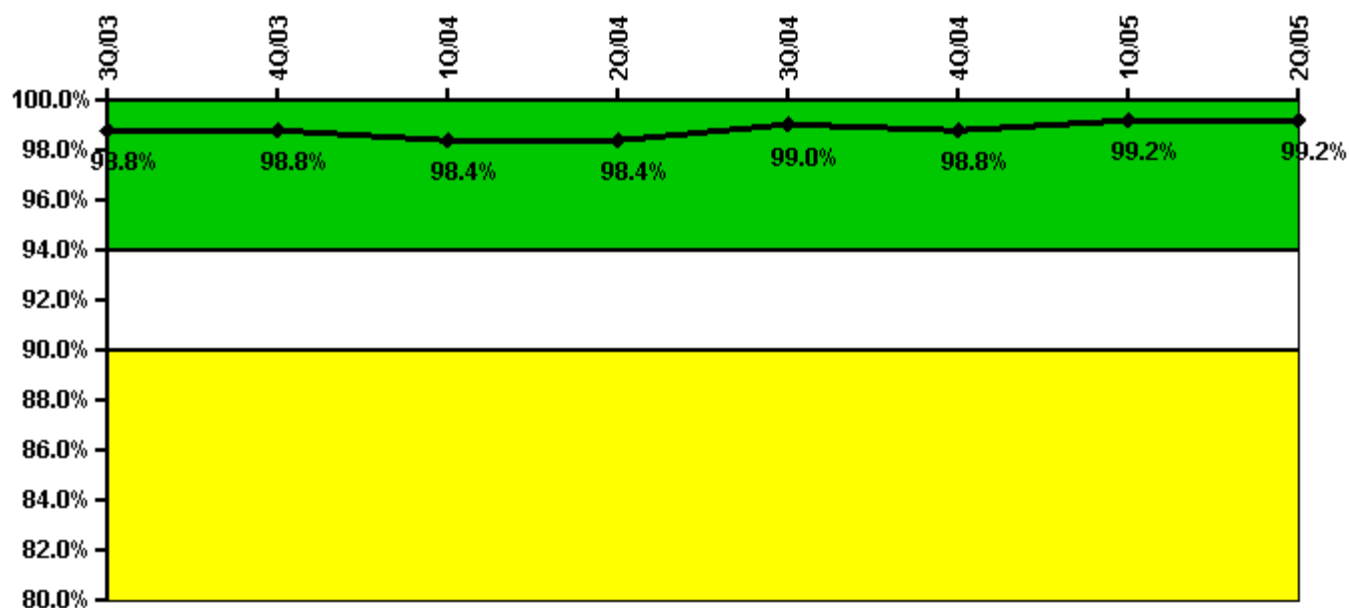
Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Participating Key personnel	81.0	82.0	76.0	79.0	82.0	83.0	81.0	79.0
Total Key personnel	81.0	83.0	77.0	79.0	82.0	83.0	81.0	79.0
Indicator value	<b>100.0%</b>	<b>98.8%</b>	<b>98.7%</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



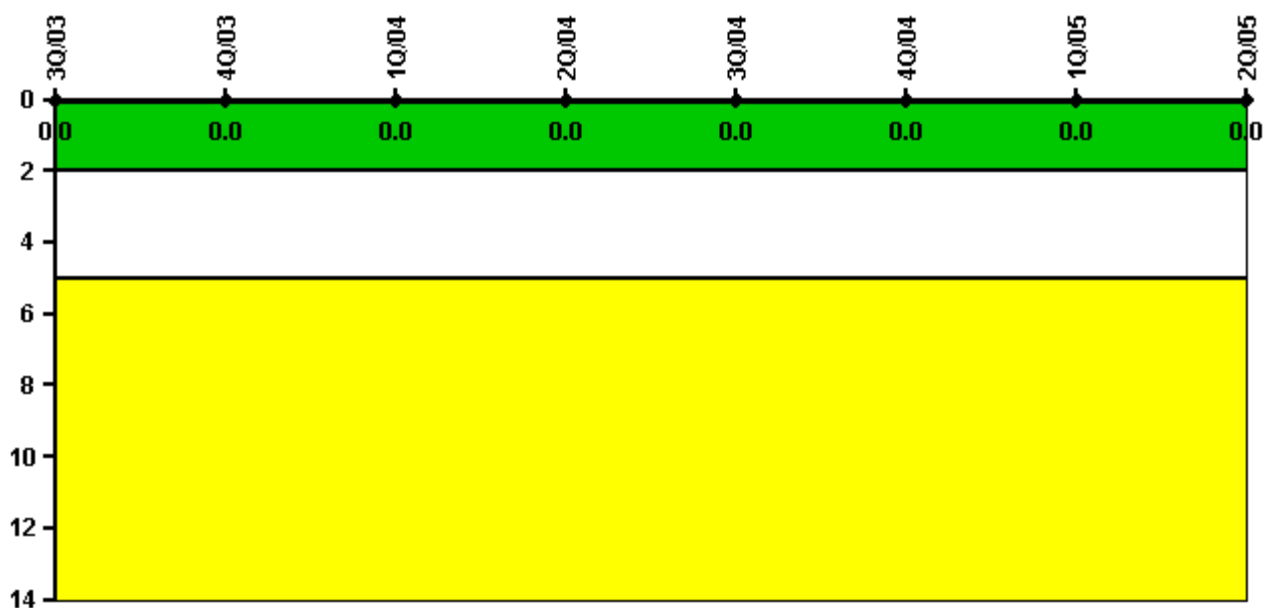
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful siren-tests	124	129	127	128	127	128	129	128
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	98.8%	98.8%	98.4%	98.4%	99.0%	98.8%	99.2%	99.2%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
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/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
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](#)

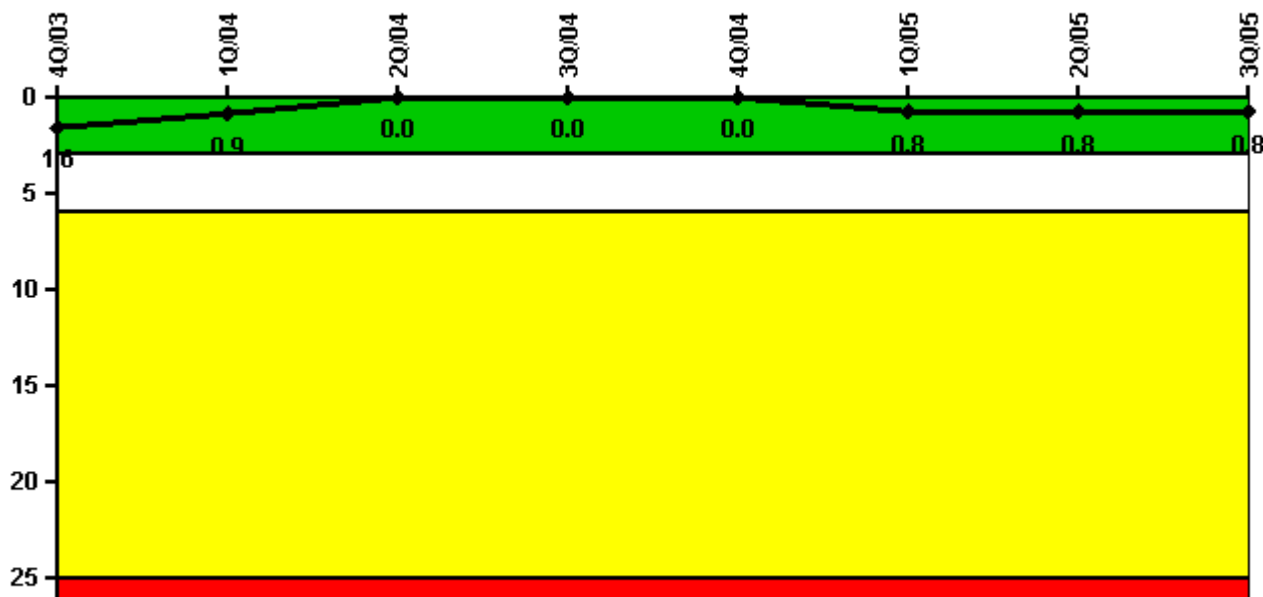
Last Modified: August 3, 2005

# Grand Gulf 1

## 3Q/2005 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



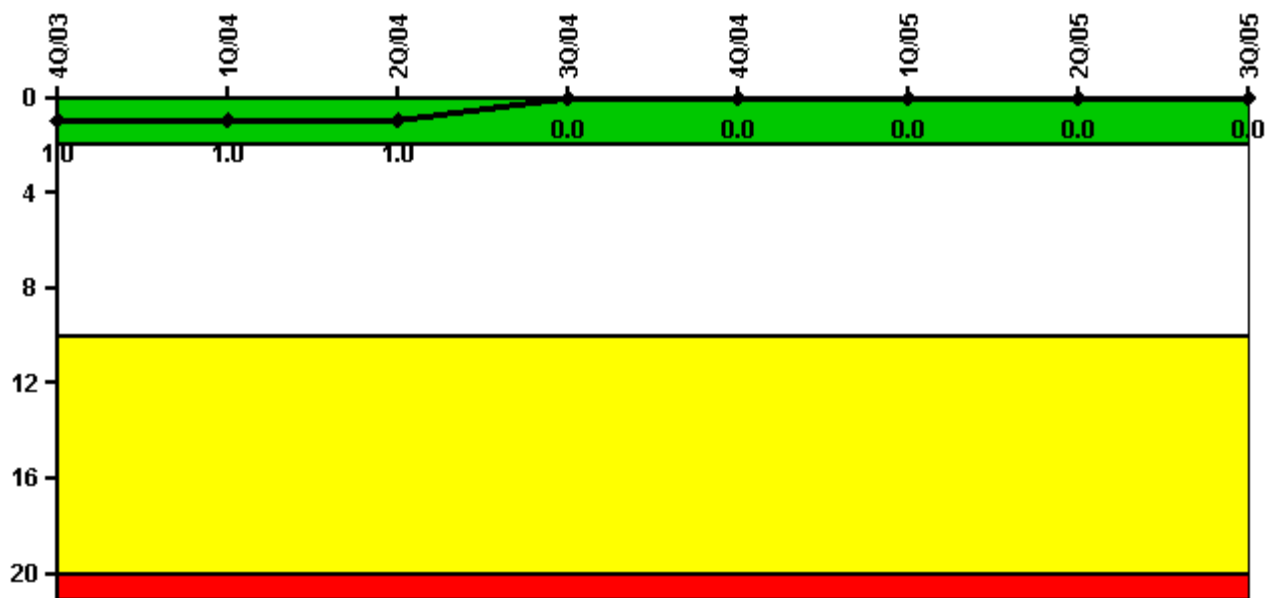
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2209.0	1500.5	2183.0	2208.0	2209.0	2121.9	2183.0	1916.0
<b>Indicator value</b>	<b>1.6</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



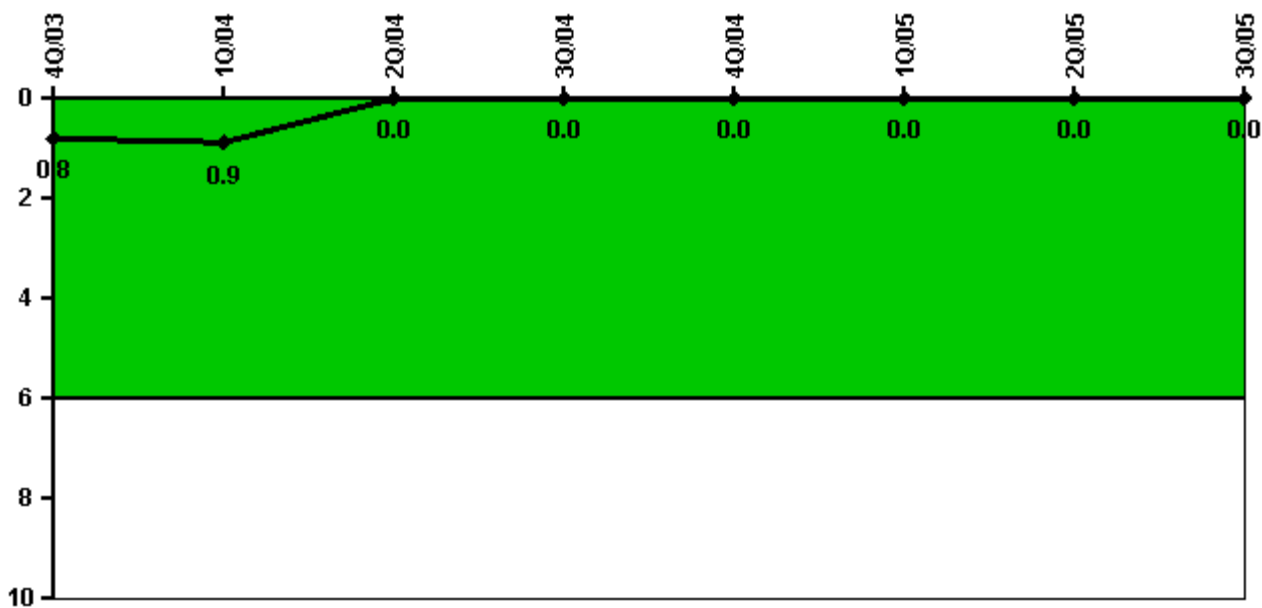
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



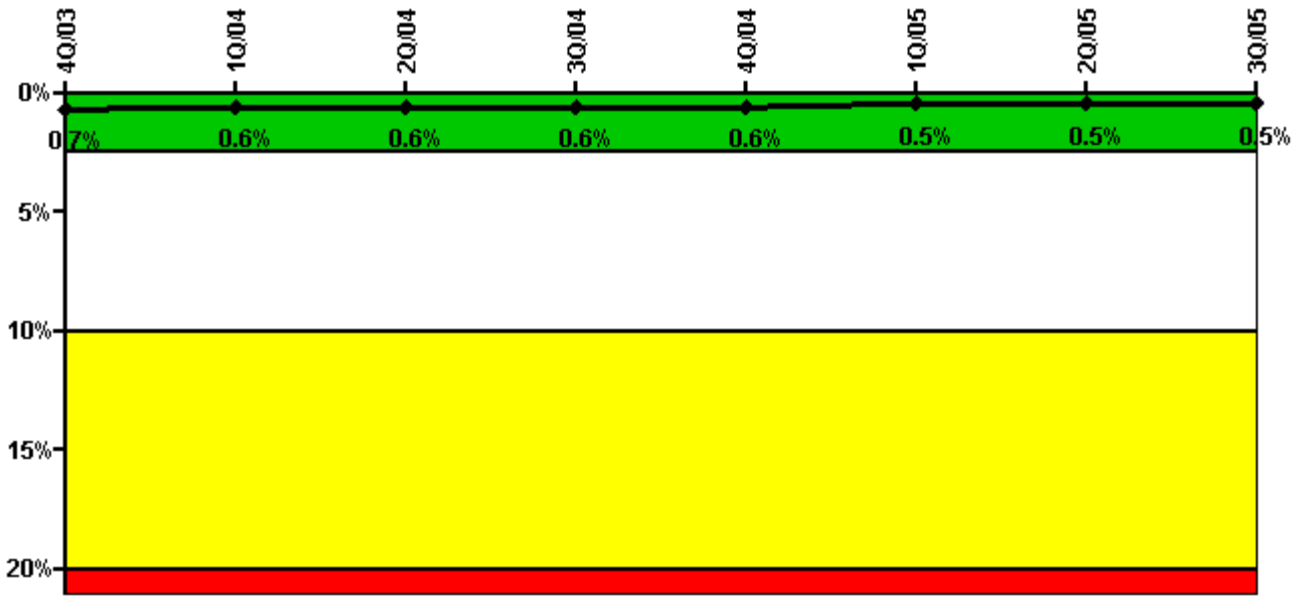
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	1500.5	2183.0	2208.0	2209.0	2121.9	2183.0	1916.0
<b>Indicator value</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



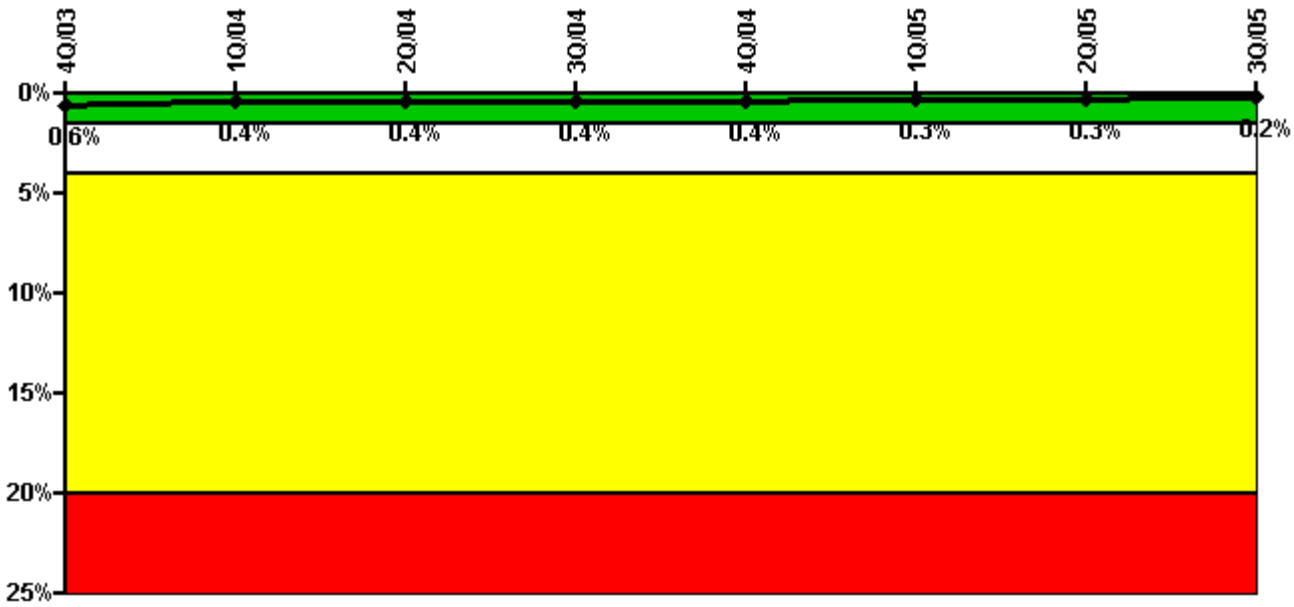
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
<b>Train 1</b>								
Planned unavailable hours	1.44	13.77	0.82	1.23	10.19	32.06	1.52	1.47
Unplanned unavailable hours	0	0	35.57	0.67	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	19.52	1.06	0.70	0.70	9.40	1.37	1.62	1.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0.10
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 3</b>								
Planned unavailable hours	2.70	8.57	1.43	29.12	16.82	0.68	18.10	0.80
Unplanned unavailable hours	0	0	0	2.60	0	10.59	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



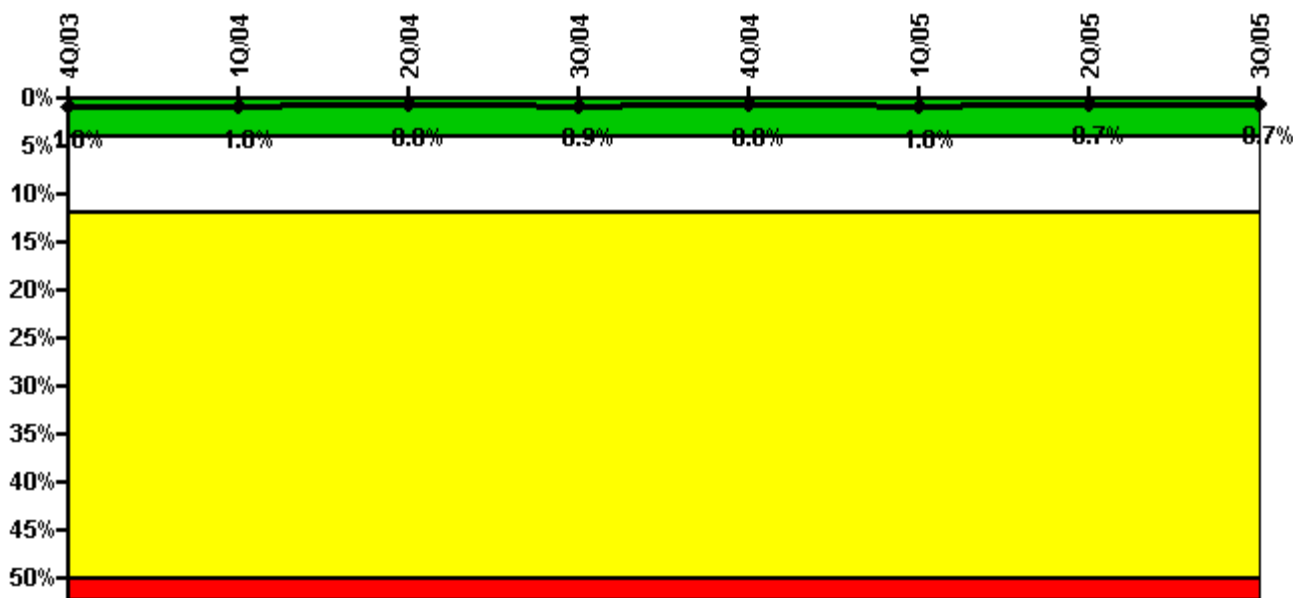
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
<b>Train 1</b>								
Planned unavailable hours	1.40	0.65	5.30	14.11	17.16	5.05	1.45	0.98
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1500.48	2183.00	2208.00	2209.00	2160.00	2183.00	1916.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.2%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



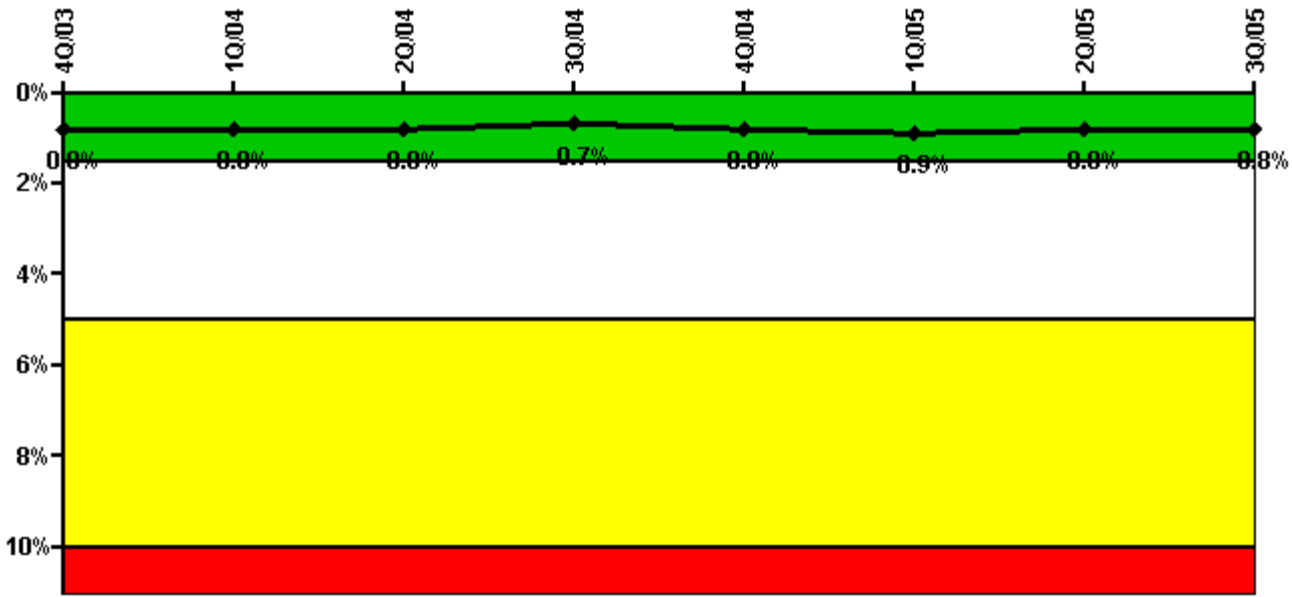
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
<b>Train 1</b>								
Planned unavailable hours	11.35	12.12	4.09	6.04	4.35	42.49	13.06	4.73
Unplanned unavailable hours	0	0	0	20.57	0	5.29	7.84	2.53
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1500.48	2183.00	2208.00	2209.00	2160.00	2183.00	1916.00
<b>Indicator value</b>	<b>1.0%</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>1.0%</b>	<b>0.7%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

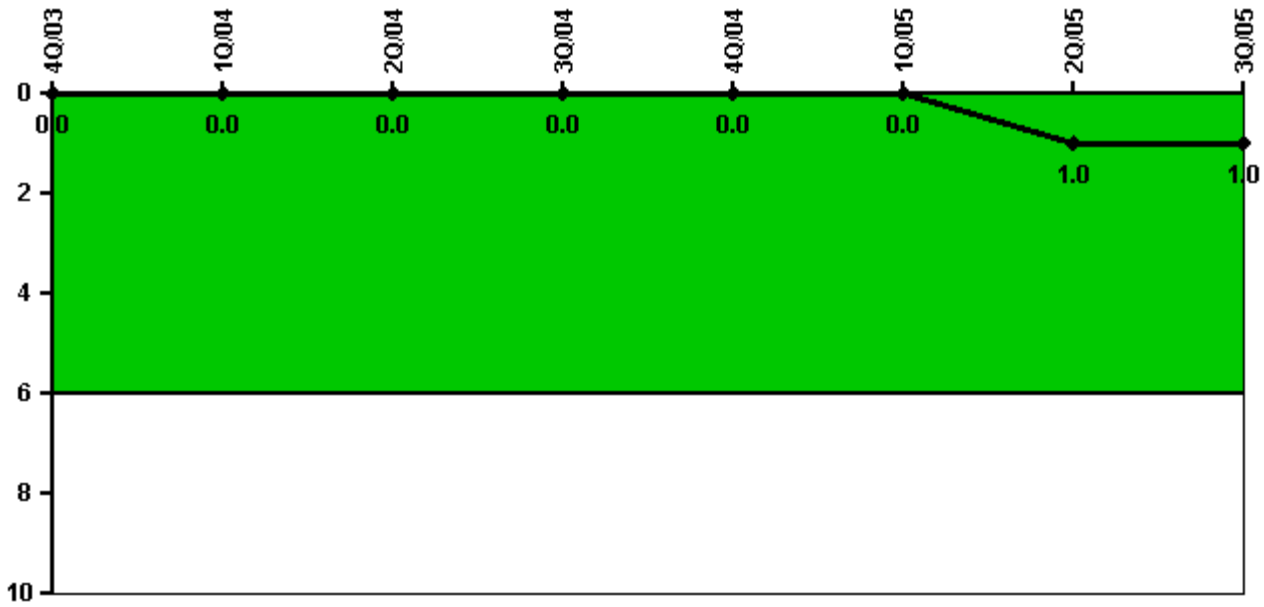
**Notes**

Safety System Unavailability, Residual Heat Removal System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
<b>Train 1</b>								
Planned unavailable hours	3.68	13.02	6.80	2.60	49.85	56.44	3.43	11.14
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Train 2</b>								
Planned unavailable hours	3.85	3.52	60.00	2.07	4.22	2.78	3.83	3.00
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>0.8%</b>

Licensee Comments: none



### Safety System Functional Failures (BWR)



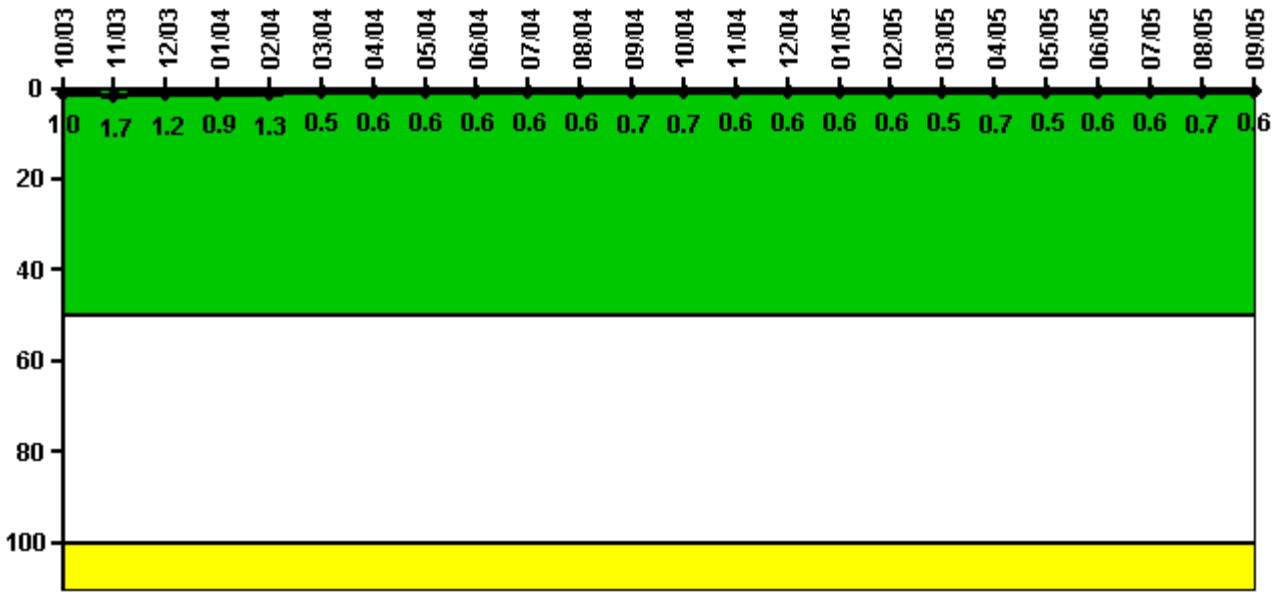
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Safety System Functional Failures	0	0	0	0	0	0	1	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>

Licensee Comments: none

### Reactor Coolant System Activity



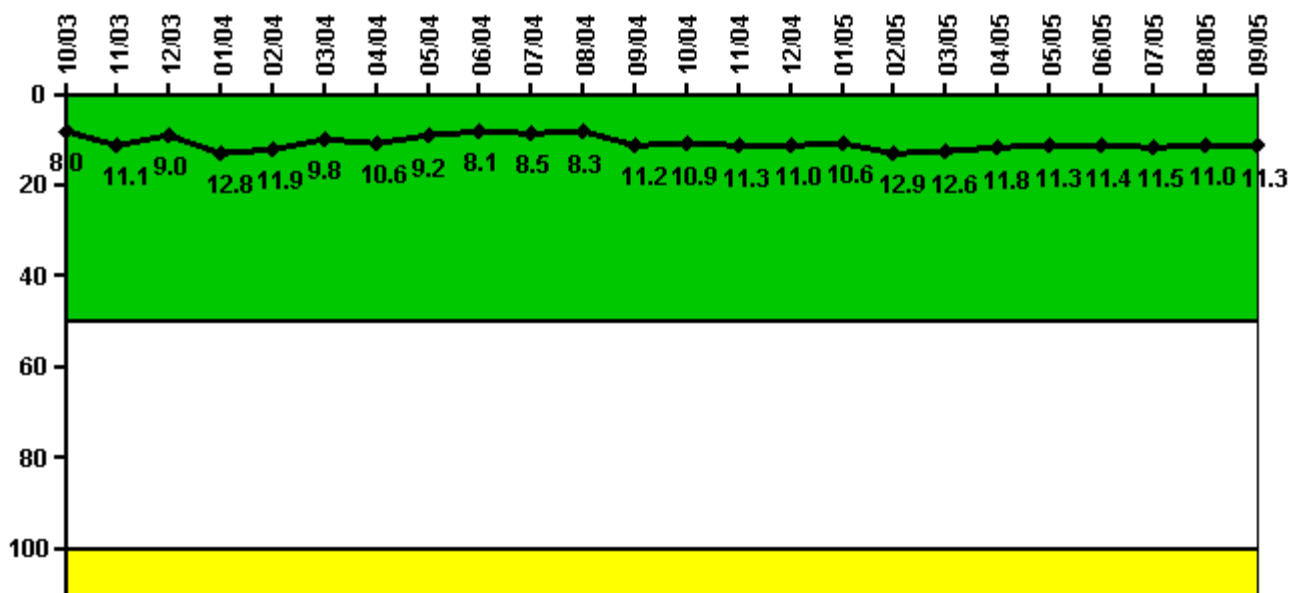
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity	0.002020	0.003440	0.002350	0.001800	0.002590	0.000905	0.001140	0.001230	0.001280	0.001250	0.001290	0.001380
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
<b>Indicator value</b>	<b>1.0</b>	<b>1.7</b>	<b>1.2</b>	<b>0.9</b>	<b>1.3</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>
Reactor Coolant System Activity	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum activity	0.001340	0.001250	0.001130	0.001160	0.001110	0.001040	0.001370	0.001060	0.001260	0.001130	0.001410	0.001190
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
<b>Indicator value</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>	<b>0.7</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

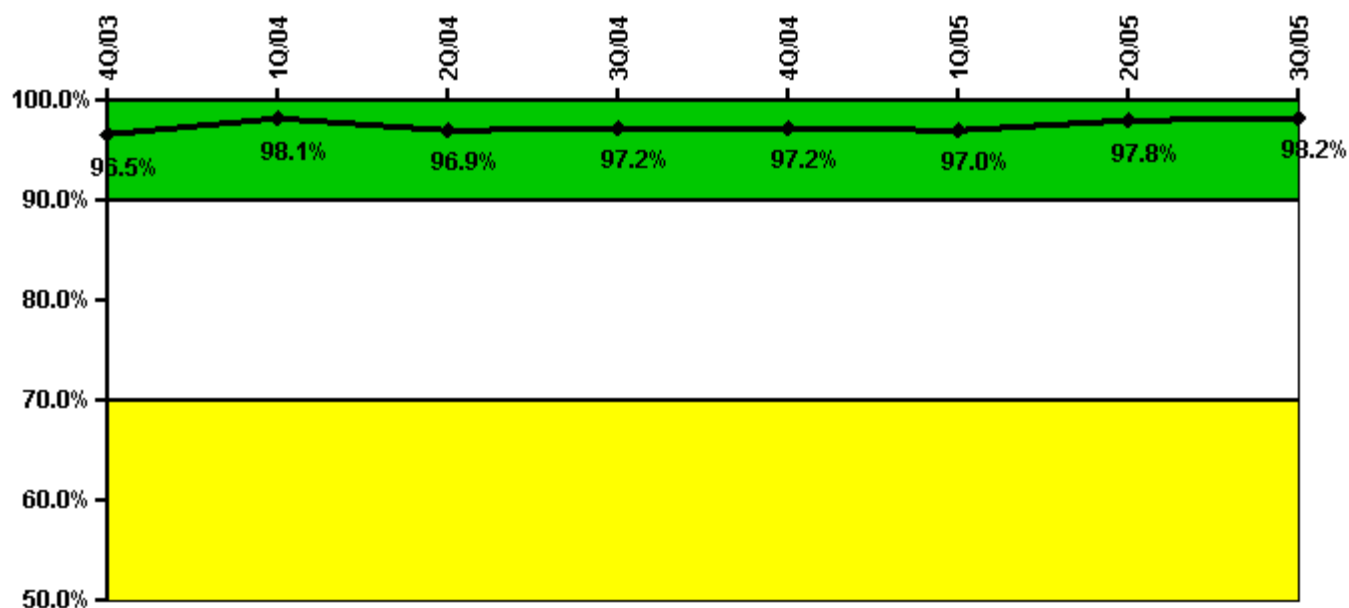
Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	2.410	3.320	2.700	3.850	3.580	2.950	3.170	2.760	2.440	2.560	2.500	3.370
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.0	11.1	9.0	12.8	11.9	9.8	10.6	9.2	8.1	8.5	8.3	11.2

Reactor Coolant System Leakage	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum leakage	3.270	3.400	3.310	3.190	3.880	3.780	3.530	3.390	3.410	3.440	3.300	3.400
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	10.9	11.3	11.0	10.6	12.9	12.6	11.8	11.3	11.4	11.5	11.0	11.3

Licensee Comments: none

### Drill/Exercise Performance



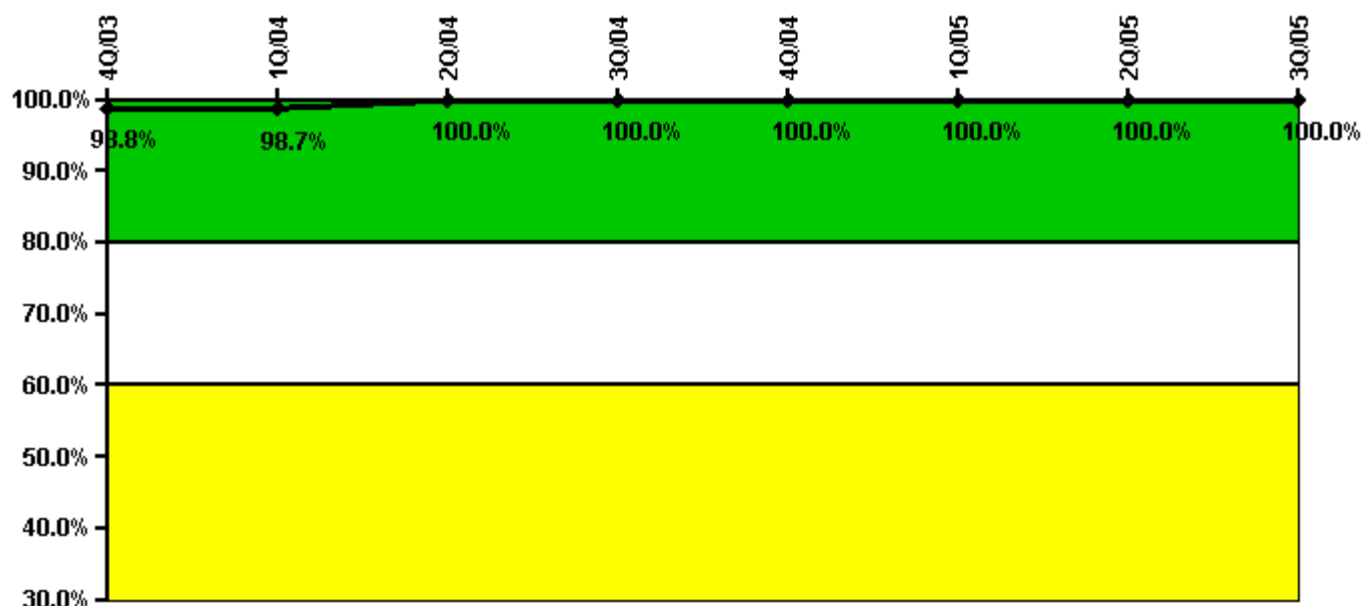
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful opportunities	12.0	0	38.0	24.0	18.0	33.0	23.0	12.0
Total opportunities	12.0	0	40.0	24.0	18.0	34.0	23.0	12.0
Indicator value	96.5%	98.1%	96.9%	97.2%	97.2%	97.0%	97.8%	98.2%

Licensee Comments: none

### ERO Drill Participation



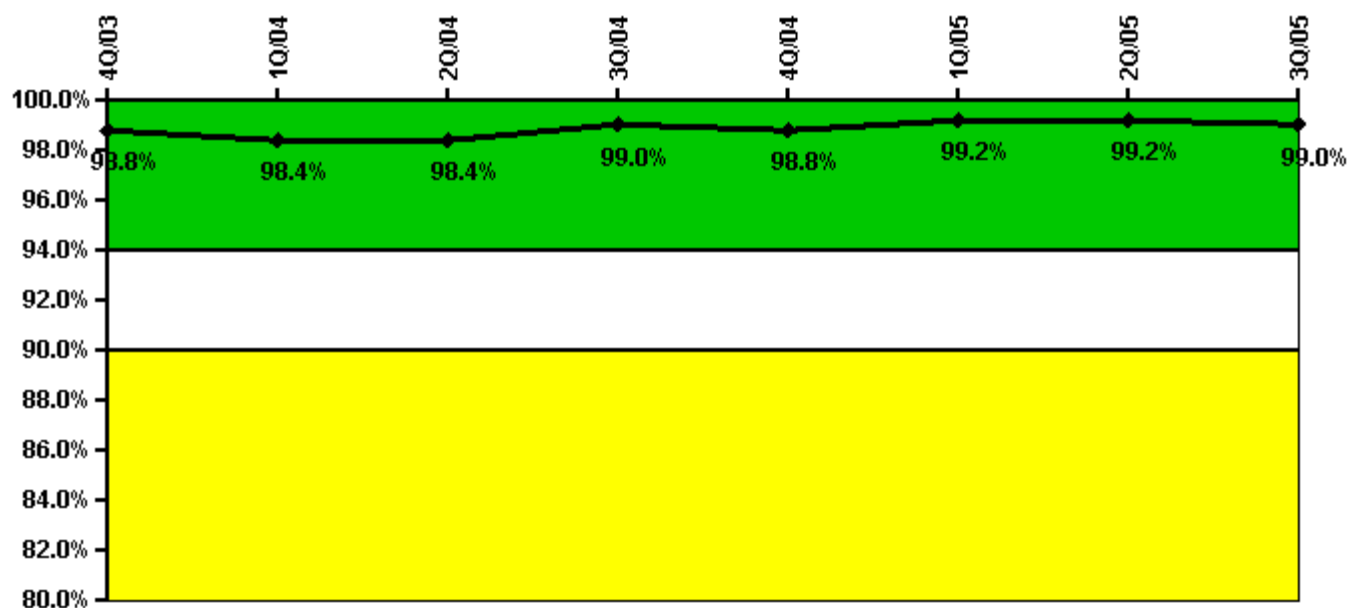
**Thresholds:** White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Participating Key personnel	82.0	76.0	79.0	82.0	83.0	81.0	79.0	79.0
Total Key personnel	83.0	77.0	79.0	82.0	83.0	81.0	79.0	79.0
Indicator value	<b>98.8%</b>	<b>98.7%</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



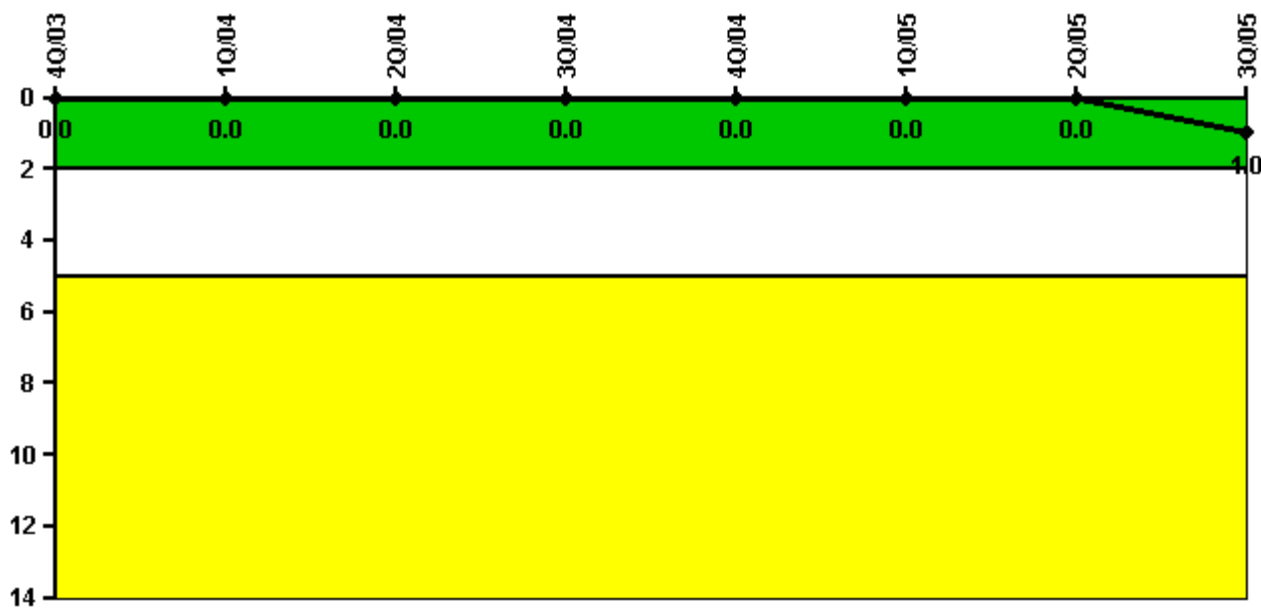
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful siren-tests	129	127	128	127	128	129	128	126
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	98.8%	98.4%	98.4%	99.0%	98.8%	99.2%	99.2%	99.0%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



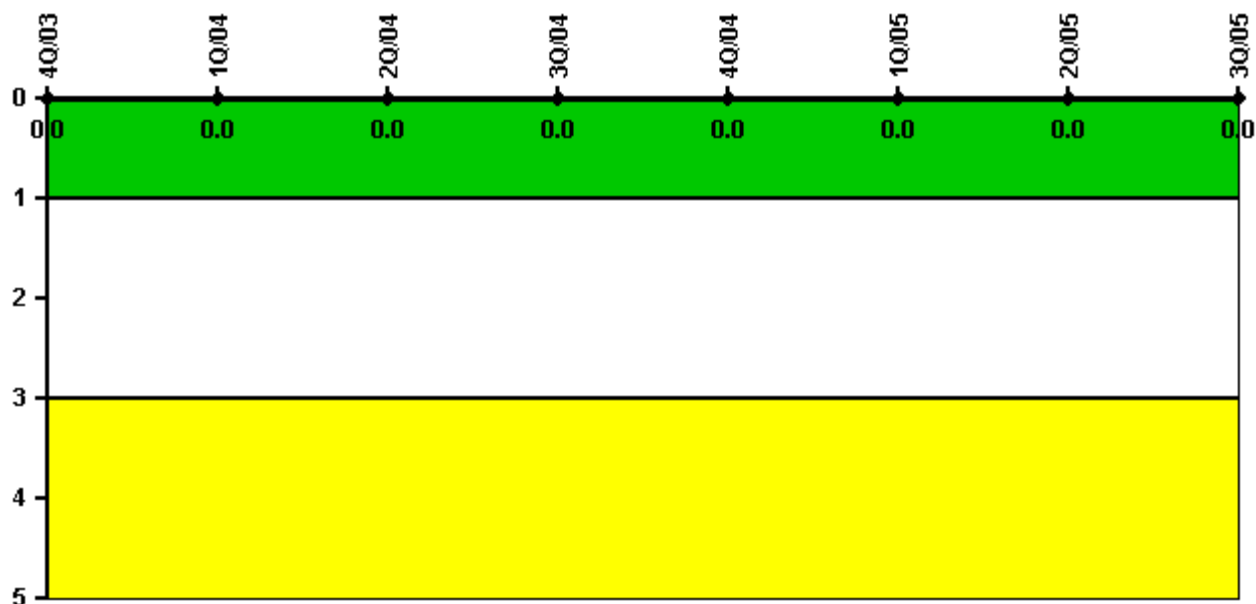
Thresholds: White > 2.0 Yellow > 5.0

**Notes**

Occupational Exposure Control Effectiveness	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
High radiation area occurrences	0	0	0	0	0	0	0	1
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>1</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
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: November 3, 2005

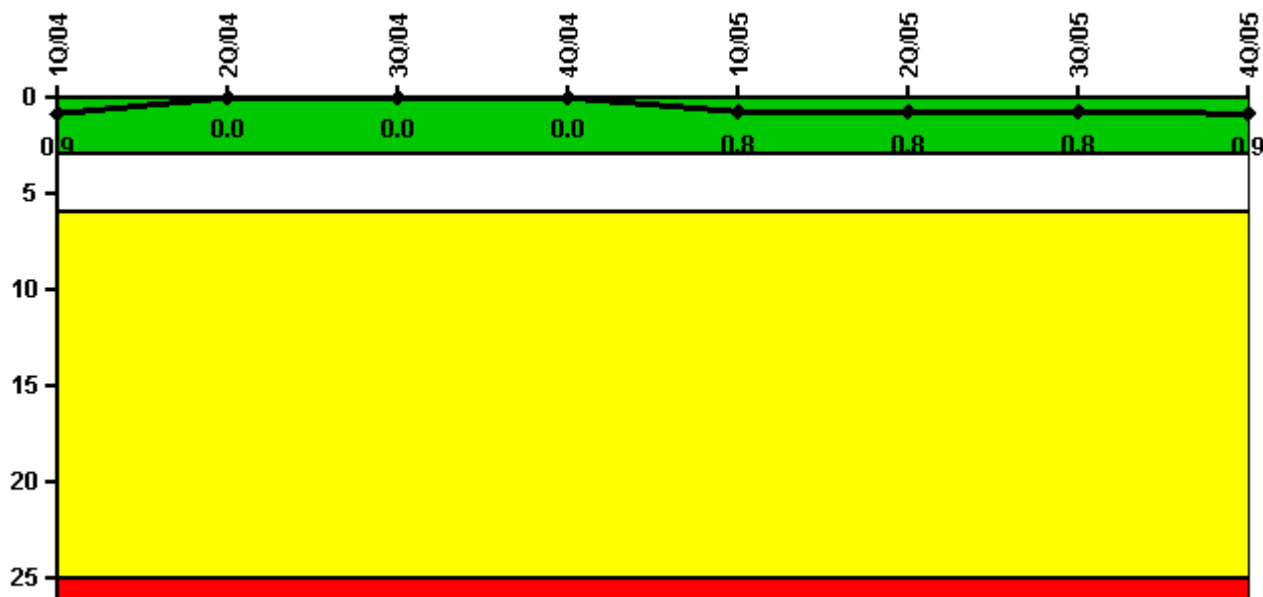


# Grand Gulf 1

## 4Q/2005 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



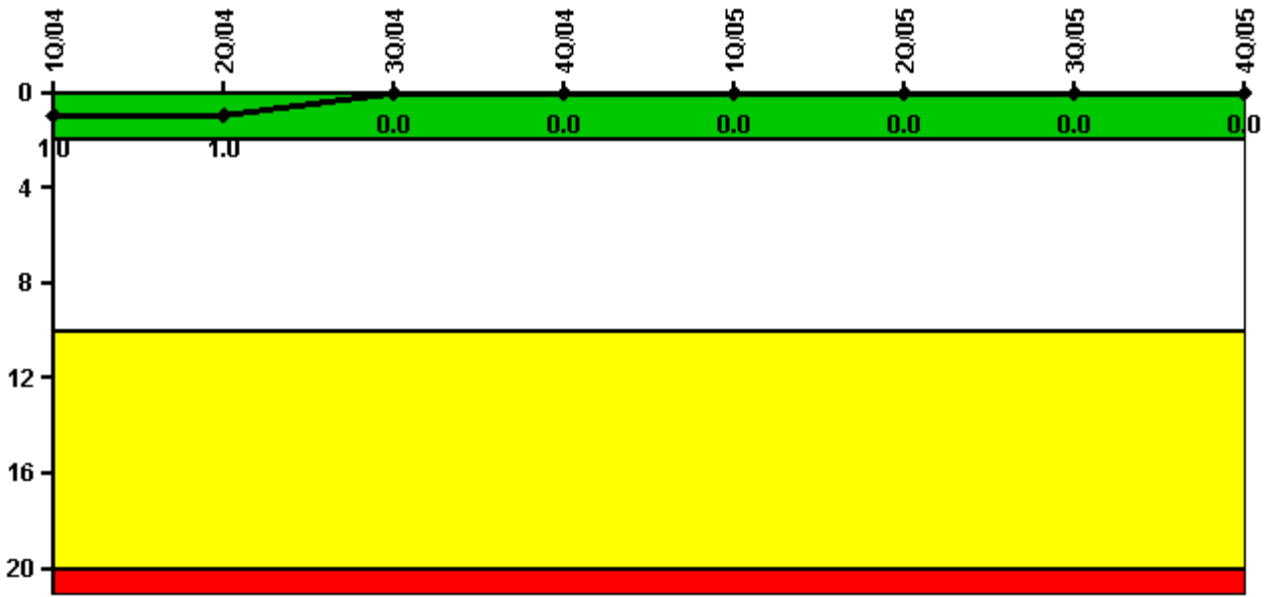
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	1500.5	2183.0	2208.0	2209.0	2121.9	2183.0	1916.0	1831.5
Indicator value	0.9	0	0	0	0.8	0.8	0.8	0.9

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



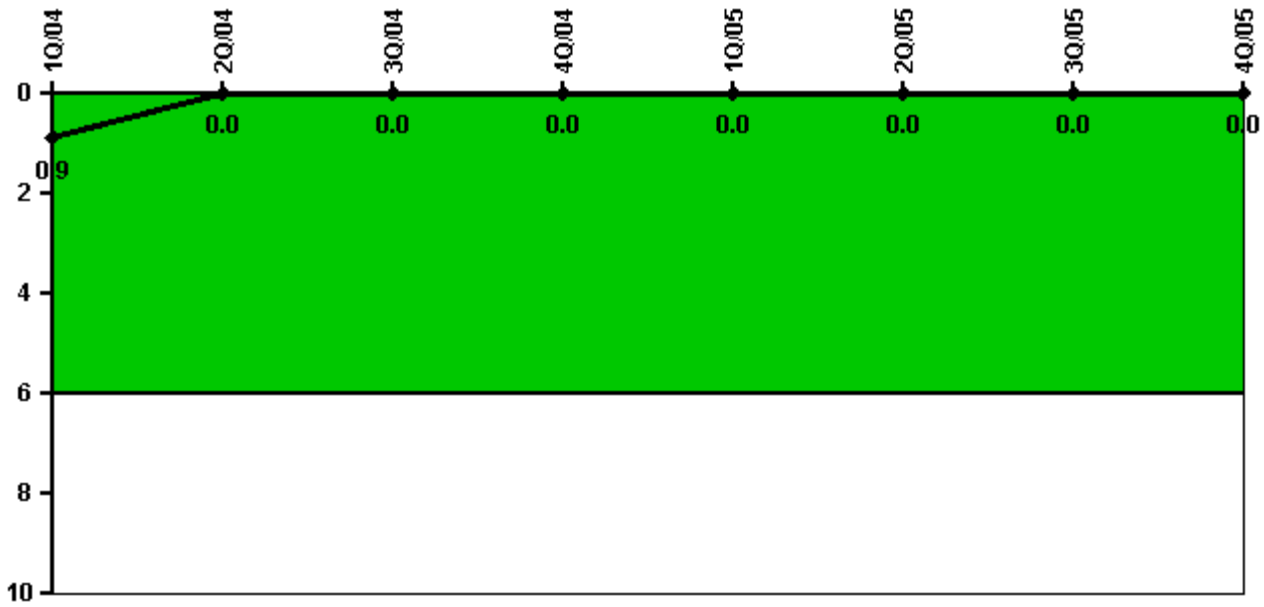
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	0	0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



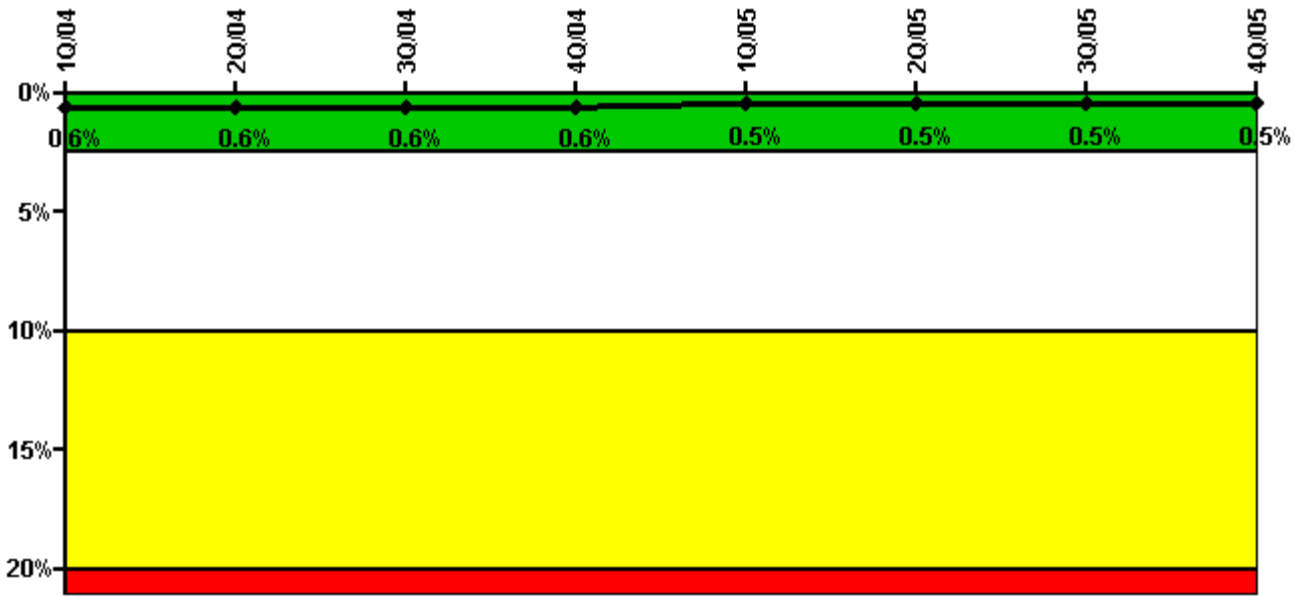
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1500.5	2183.0	2208.0	2209.0	2121.9	2183.0	1916.0	1831.5
<b>Indicator value</b>	<b>0.9</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

### Safety System Unavailability, Emergency AC Power, >2EDG



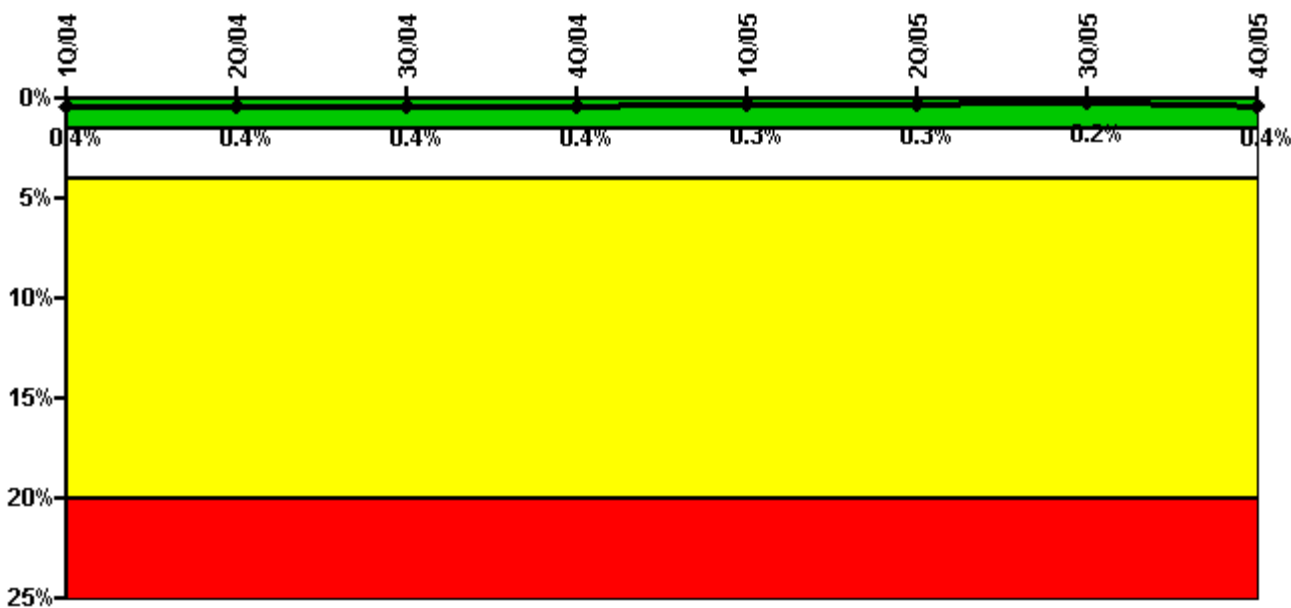
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
<b>Train 1</b>								
Planned unavailable hours	13.77	0.82	1.23	10.19	32.06	1.52	1.47	1.30
Unplanned unavailable hours	0	35.57	0.67	0	0	0	0	0.17
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	1.06	0.70	0.70	9.40	1.37	1.62	1.35	1.15
Unplanned unavailable hours	0	0	0	0	0	0	0.10	38.30
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 3</b>								
Planned unavailable hours	8.57	1.43	29.12	16.82	0.68	18.10	0.80	4.48
Unplanned unavailable hours	0	0	2.60	0	10.59	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



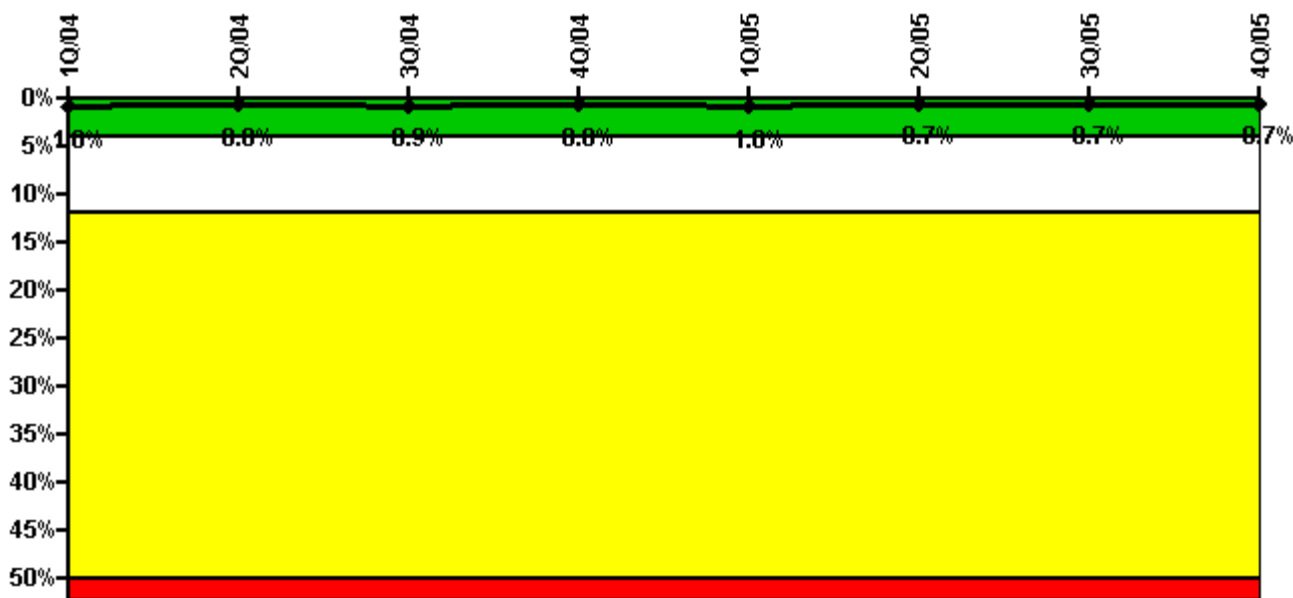
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
<b>Train 1</b>								
Planned unavailable hours	0.65	5.30	14.11	17.16	5.05	1.45	0.98	47.95
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1500.48	2183.00	2208.00	2209.00	2160.00	2183.00	1916.00	1831.50
<b>Indicator value</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>0.4%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



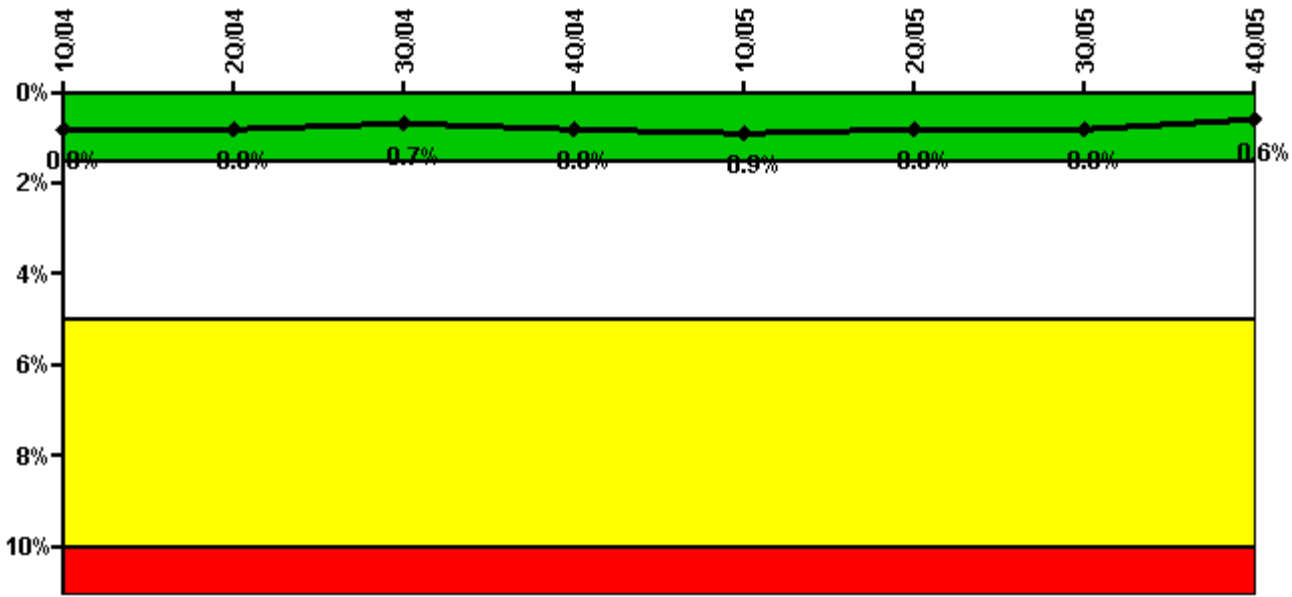
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
<b>Train 1</b>								
Planned unavailable hours	12.12	4.09	6.04	4.35	42.49	13.06	4.73	13.99
Unplanned unavailable hours	0	0	20.57	0	5.29	7.84	2.53	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1500.48	2183.00	2208.00	2209.00	2160.00	2183.00	1916.00	1831.50
<b>Indicator value</b>	<b>1.0%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>1.0%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



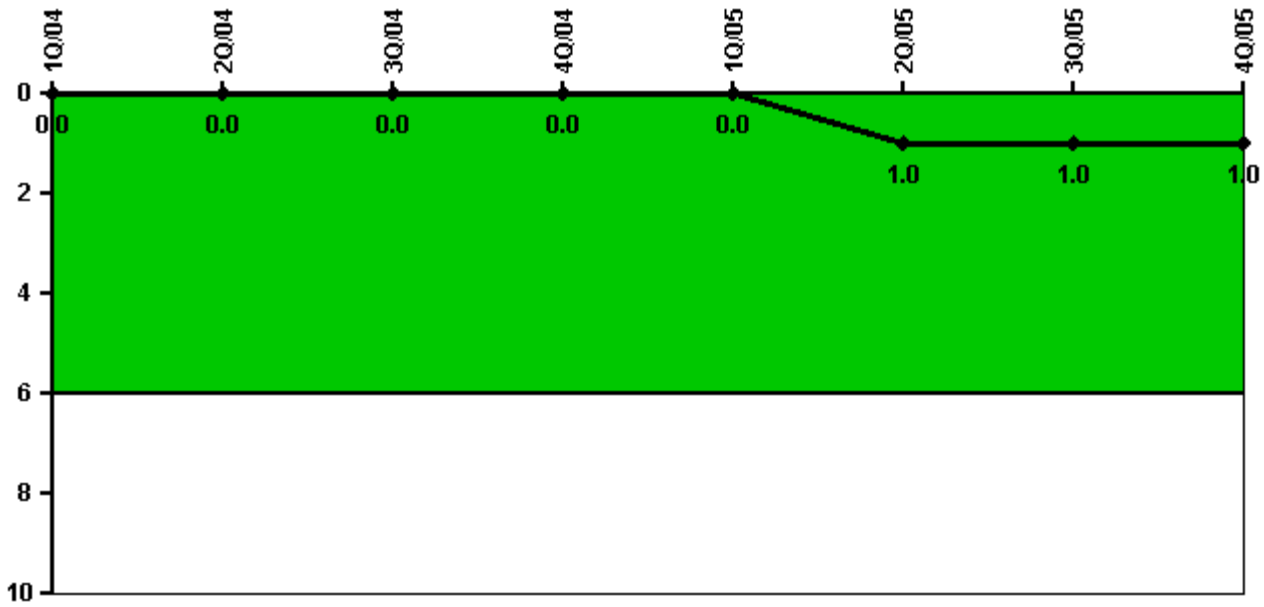
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
<b>Train 1</b>								
Planned unavailable hours	13.02	6.80	2.60	49.85	56.44	3.43	11.14	0.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	3.52	60.00	2.07	4.22	2.78	3.83	3.00	1.55
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.6%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

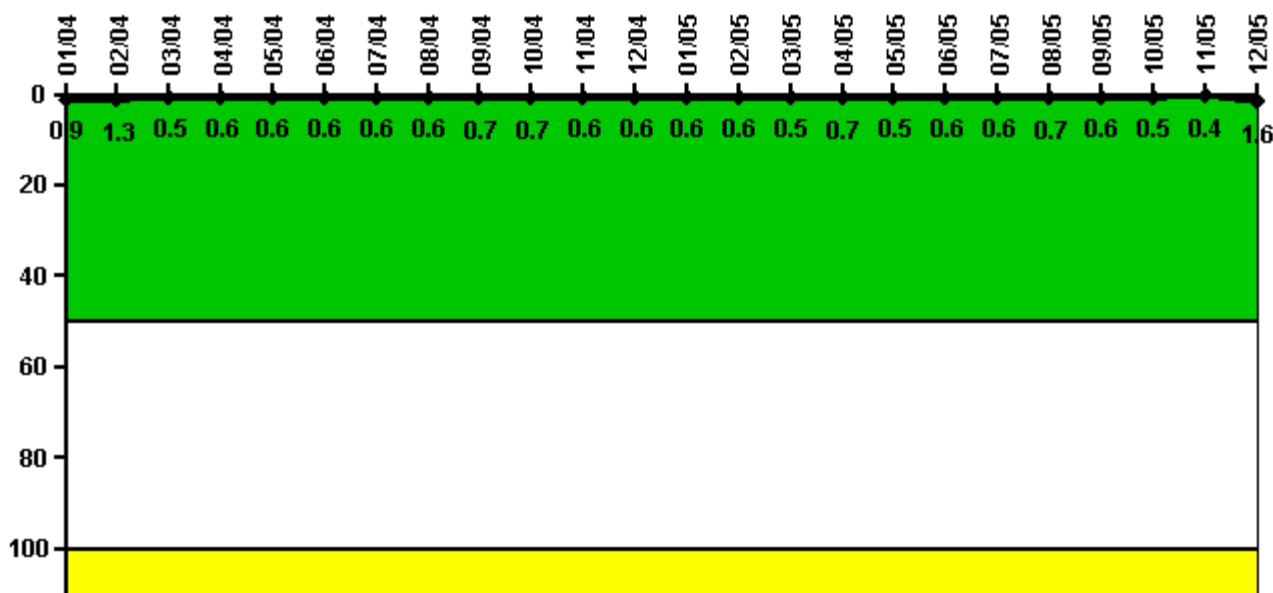
#### Notes

Safety System Functional Failures (BWR)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
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



### Reactor Coolant System Activity



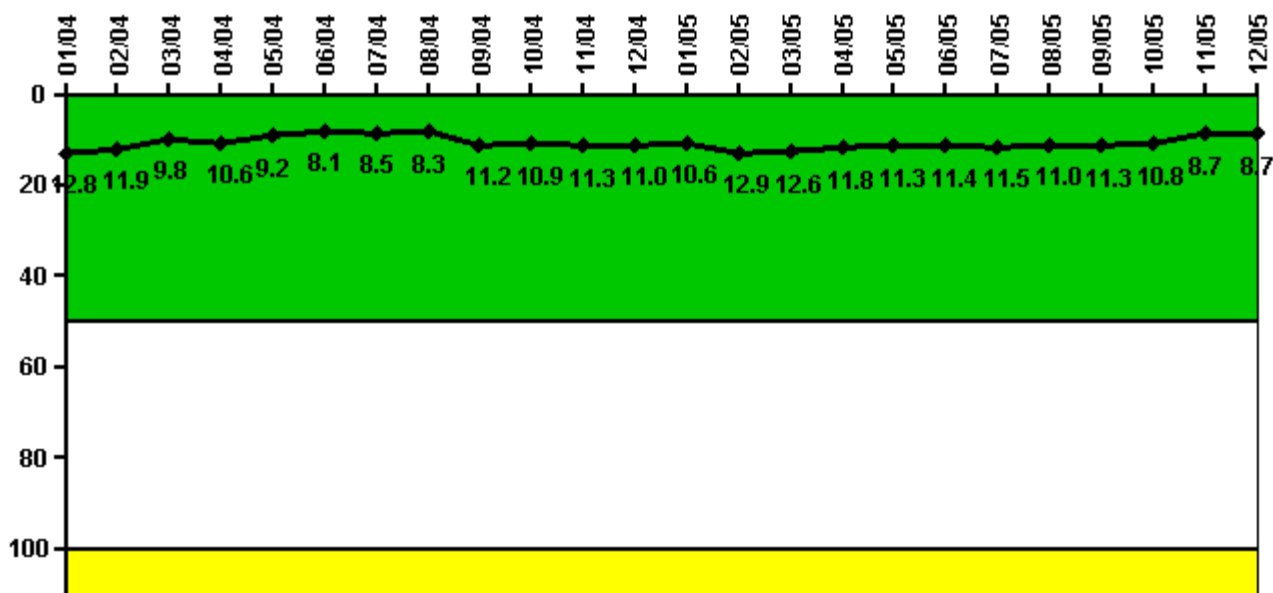
Thresholds: White > 50.0 Yellow > 100.0

**Notes**

Reactor Coolant System Activity	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum activity	0.001800	0.002590	0.000905	0.001140	0.001230	0.001280	0.001250	0.001290	0.001380	0.001340	0.001250	0.001130
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
<b>Indicator value</b>	<b>0.9</b>	<b>1.3</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>
Reactor Coolant System Activity	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum activity	0.001160	0.001110	0.001040	0.001370	0.001060	0.001260	0.001130	0.001410	0.001190	0.000956	0.000722	0.003210
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
<b>Indicator value</b>	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>	<b>0.7</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>	<b>0.5</b>	<b>0.4</b>	<b>1.6</b>

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

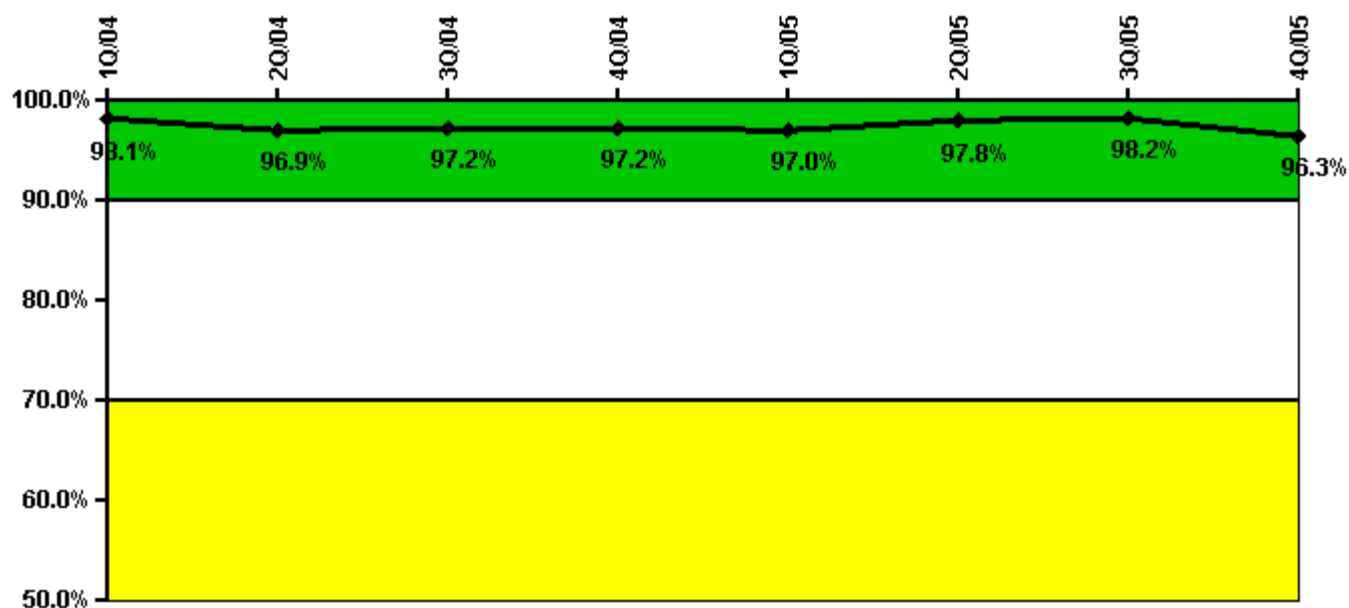
Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	3.850	3.580	2.950	3.170	2.760	2.440	2.560	2.500	3.370	3.270	3.400	3.310
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	12.8	11.9	9.8	10.6	9.2	8.1	8.5	8.3	11.2	10.9	11.3	11.0

Reactor Coolant System Leakage	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum leakage	3.190	3.880	3.780	3.530	3.390	3.410	3.440	3.300	3.400	3.250	2.610	2.600
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	10.6	12.9	12.6	11.8	11.3	11.4	11.5	11.0	11.3	10.8	8.7	8.7

Licensee Comments: none

### Drill/Exercise Performance



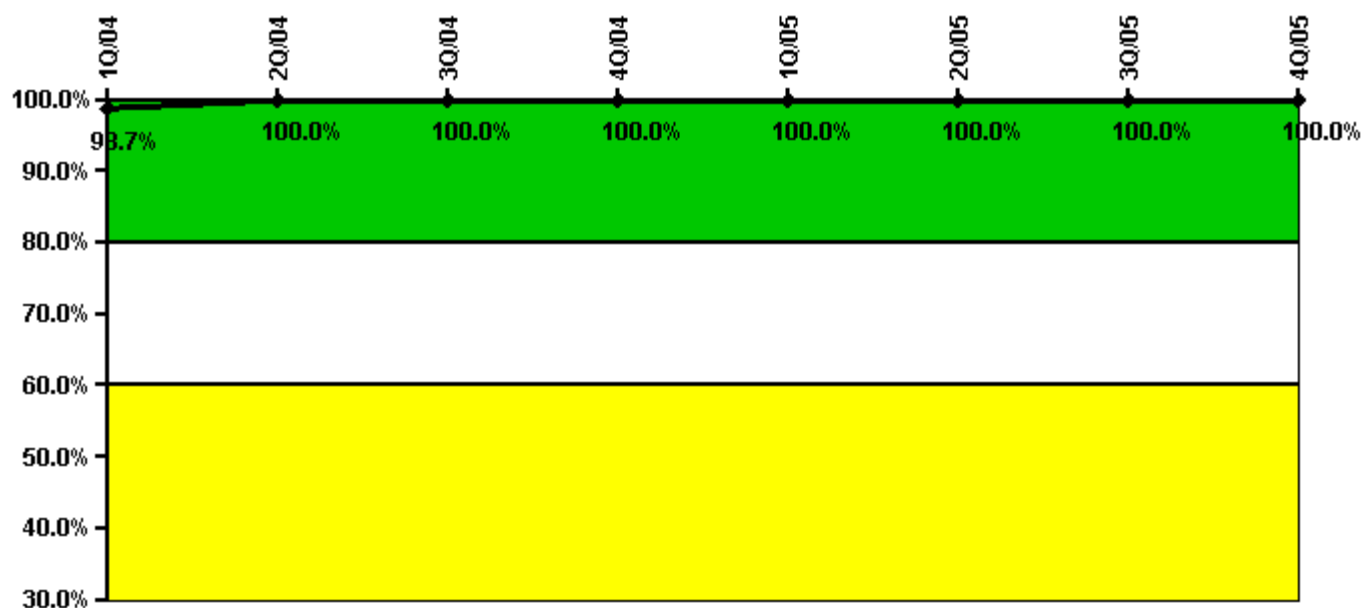
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful opportunities	0	38.0	24.0	18.0	33.0	23.0	12.0	7.0
Total opportunities	0	40.0	24.0	18.0	34.0	23.0	12.0	10.0
Indicator value	98.1%	96.9%	97.2%	97.2%	97.0%	97.8%	98.2%	96.3%

Licensee Comments: none

### ERO Drill Participation



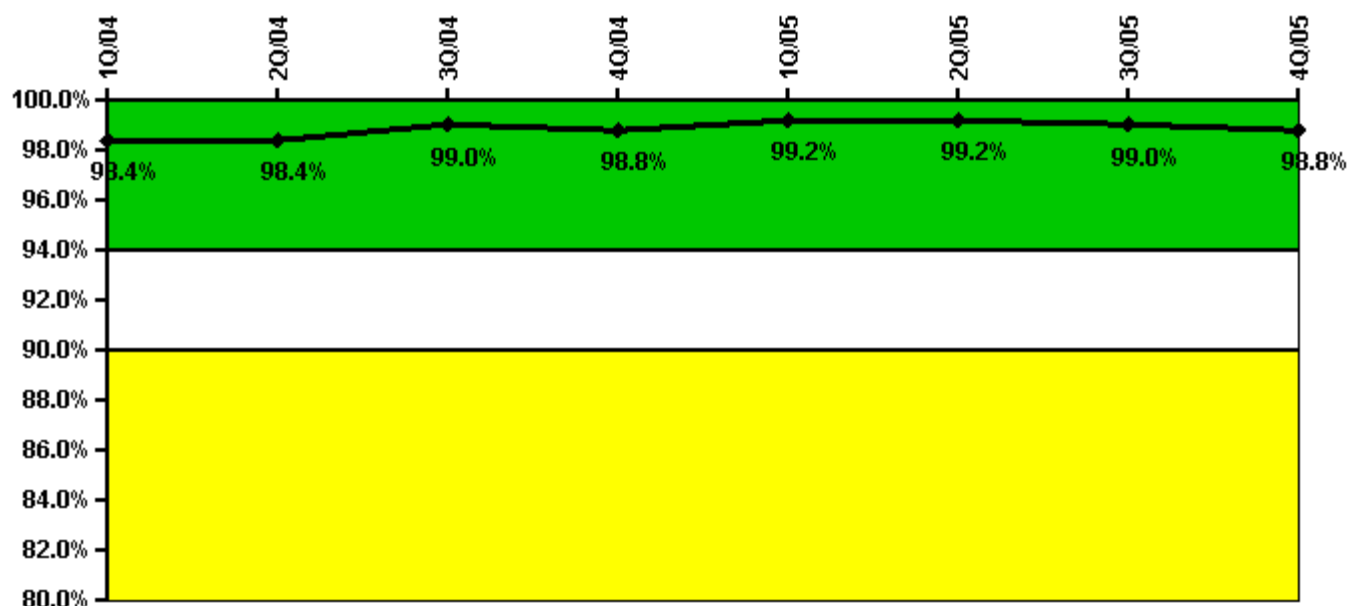
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Participating Key personnel	76.0	79.0	82.0	83.0	81.0	79.0	79.0	78.0
Total Key personnel	77.0	79.0	82.0	83.0	81.0	79.0	79.0	78.0
Indicator value	98.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



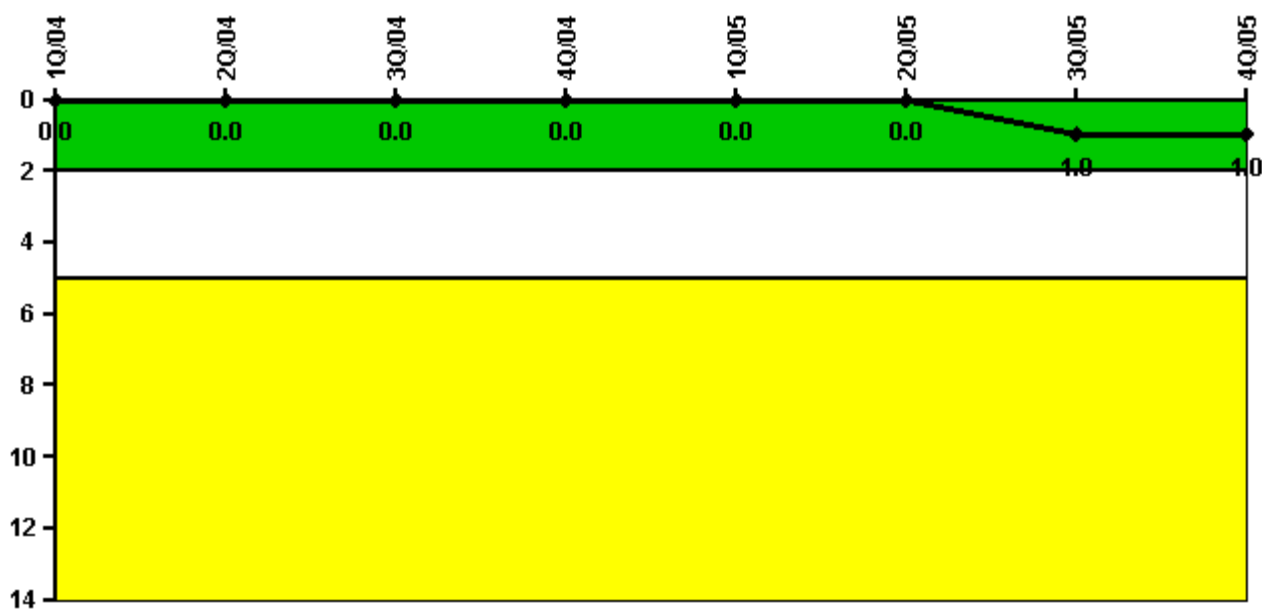
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful siren-tests	127	128	127	128	129	128	126	127
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	98.4%	98.4%	99.0%	98.8%	99.2%	99.2%	99.0%	98.8%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



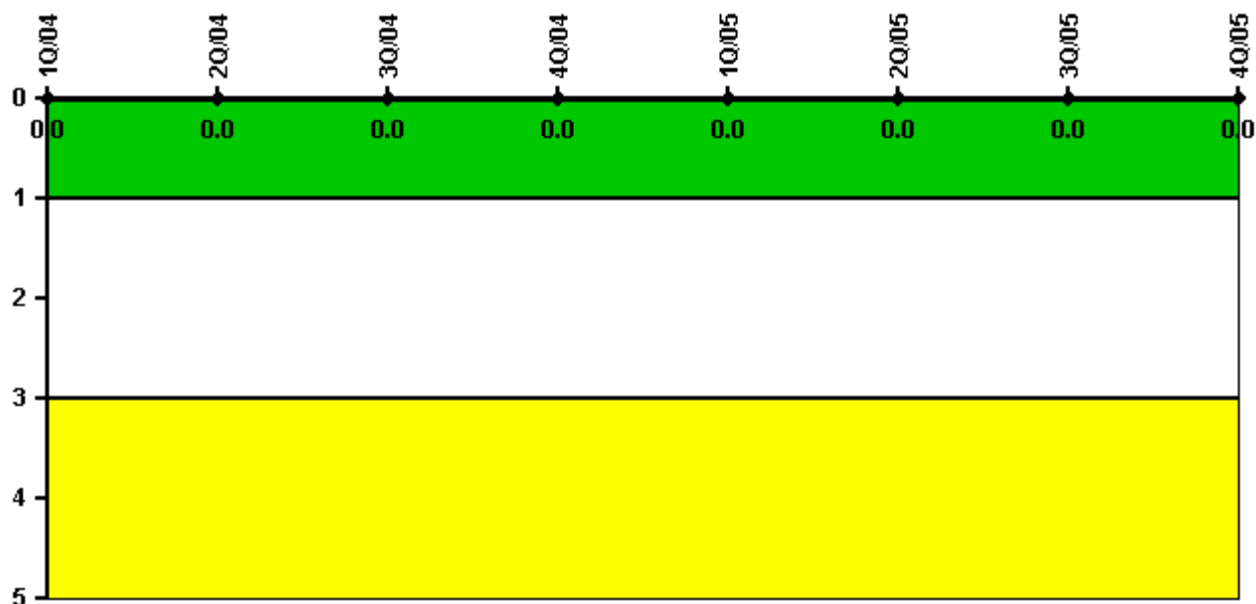
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
High radiation area occurrences	0	0	0	0	0	0	1	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>1</b>	<b>1</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
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](#)

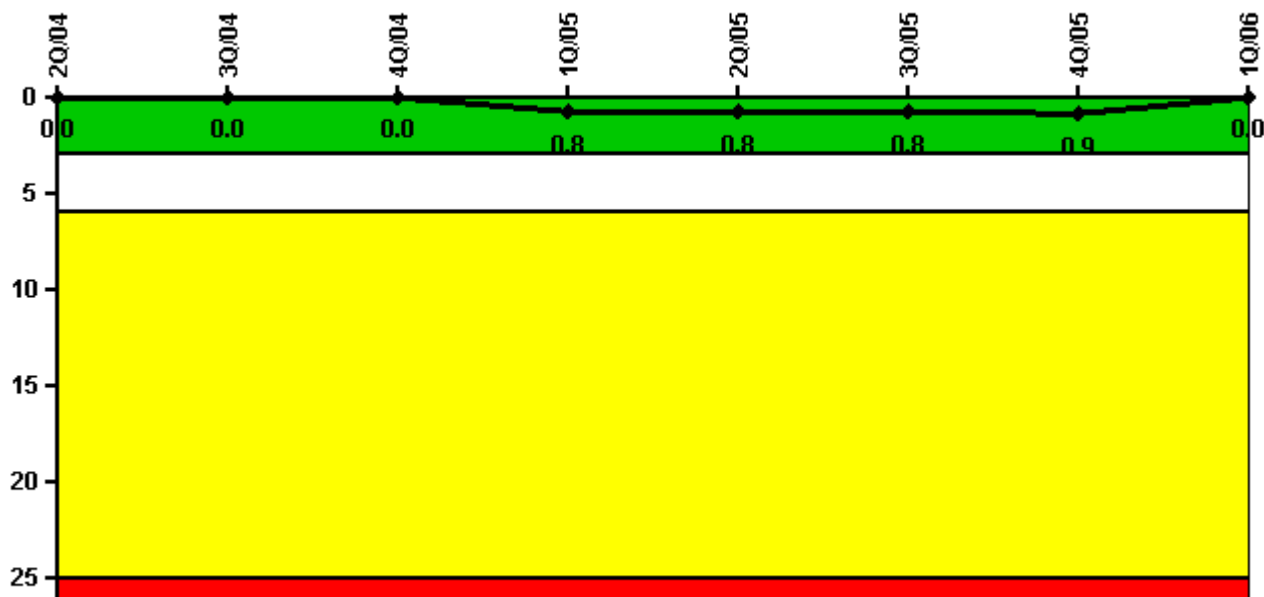
Last Modified: January 30, 2006

# Grand Gulf 1

## 1Q/2006 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

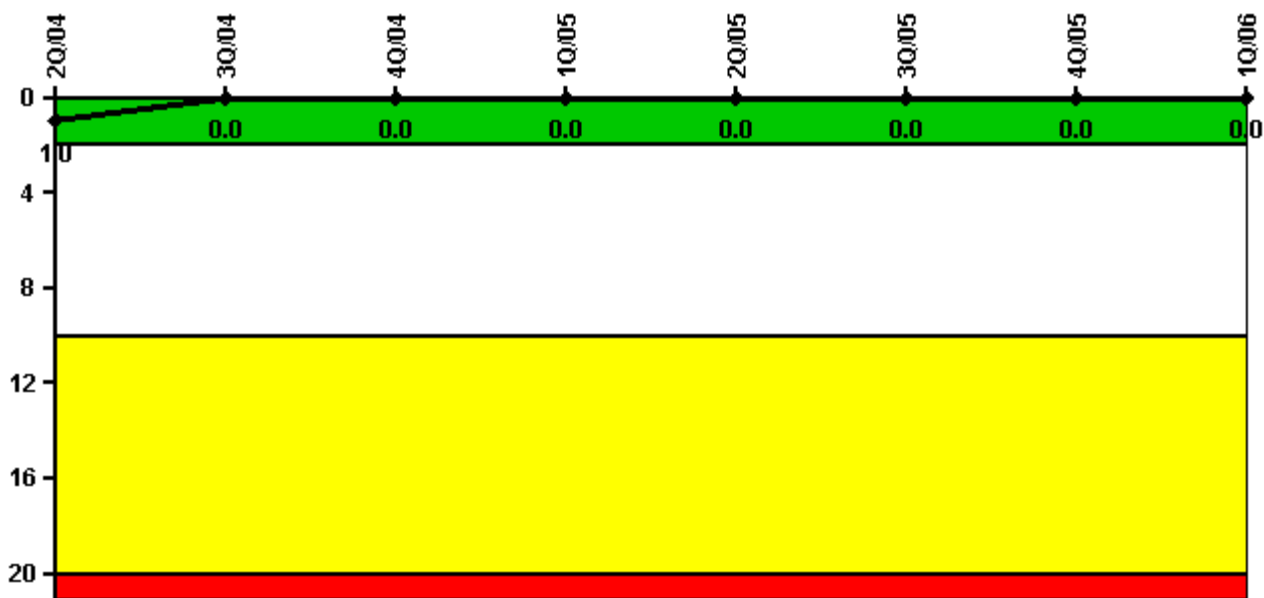
### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	2121.9	2183.0	1916.0	1831.5	2160.0
Indicator value	0	0	0	0.8	0.8	0.8	0.9	0

Licensee Comments: none



### Scrams with Loss of Normal Heat Removal



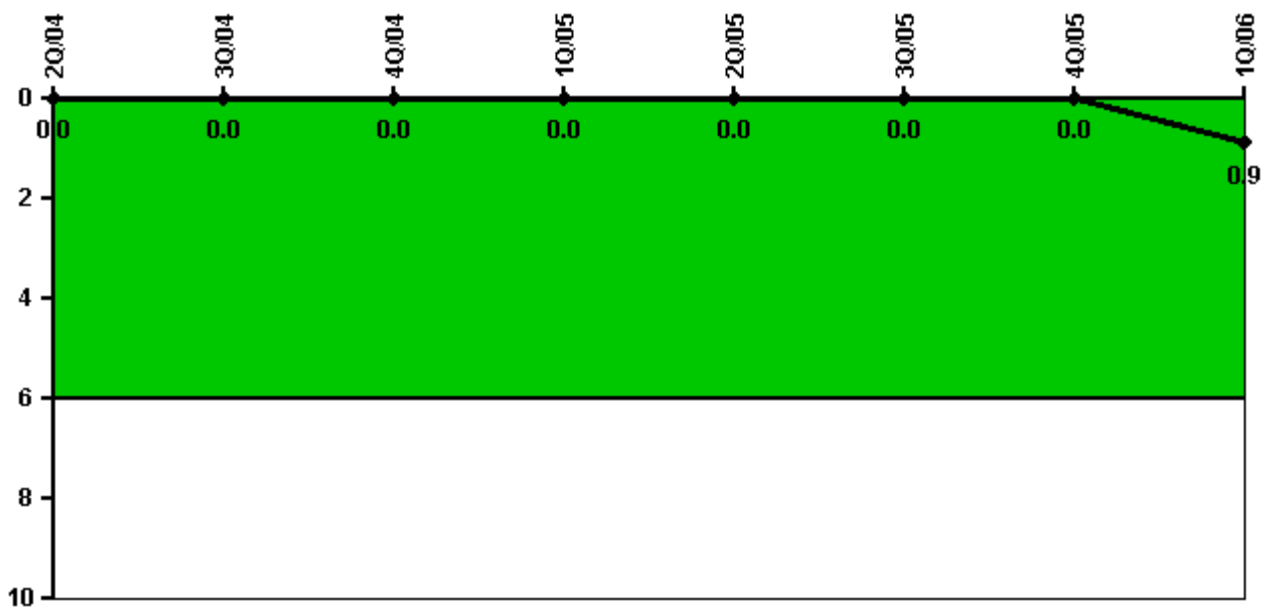
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	0	0	0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



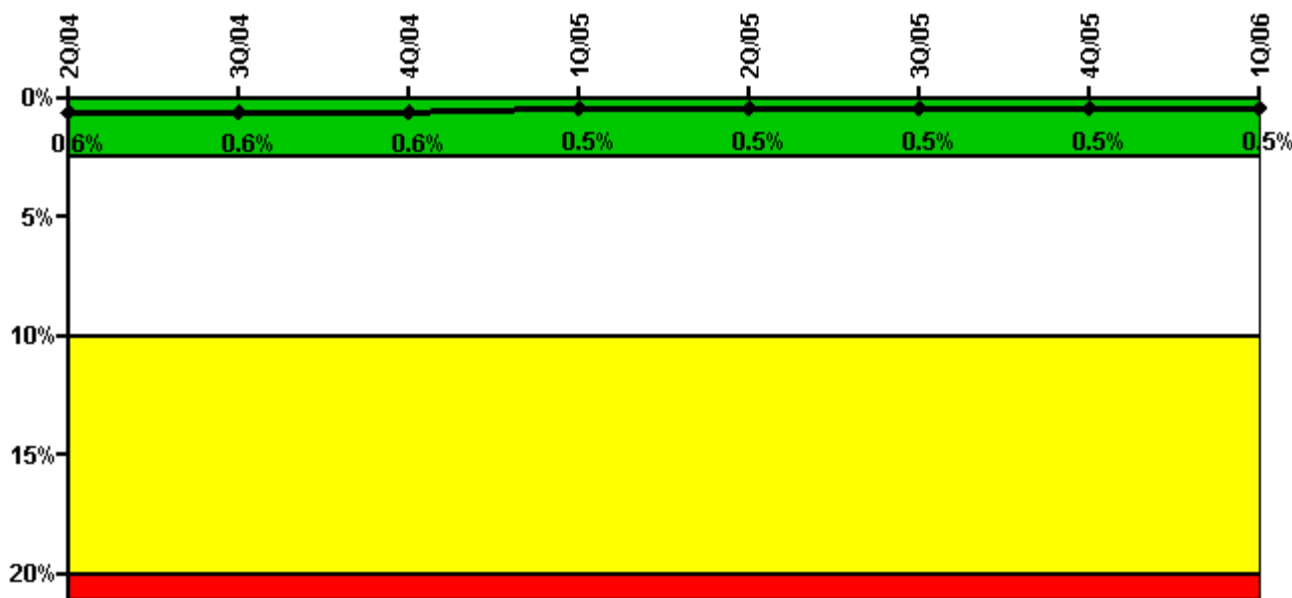
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2183.0	2208.0	2209.0	2121.9	2183.0	1916.0	1831.5	2160.0
<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>0.9</b>

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



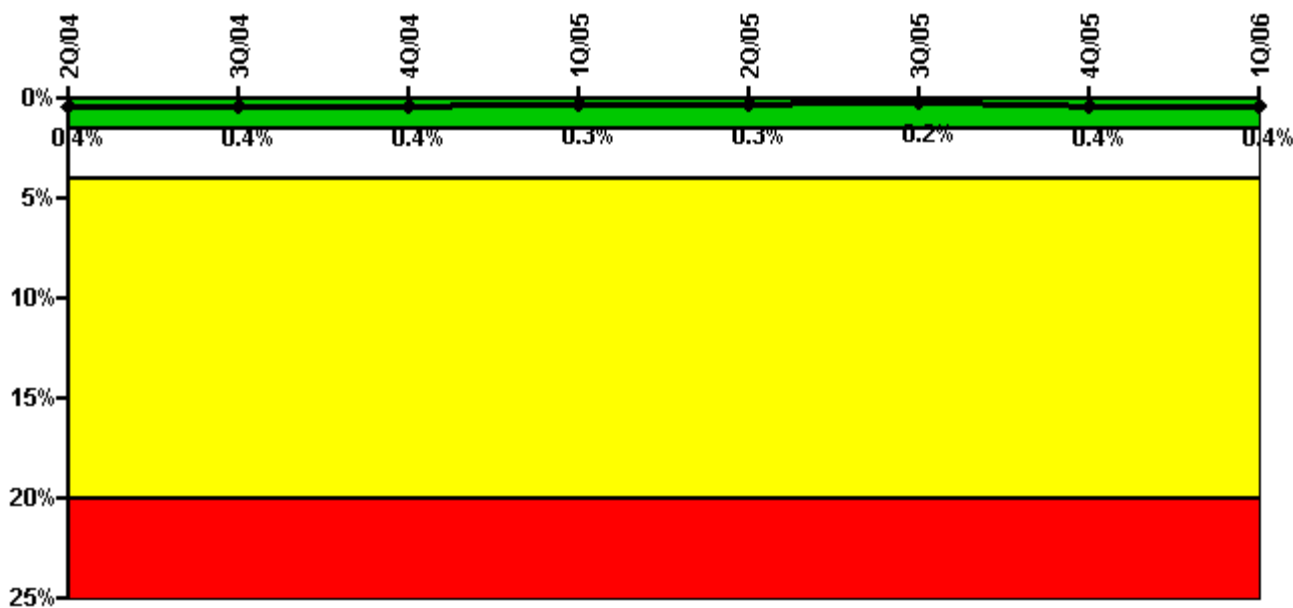
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
<b>Train 1</b>								
Planned unavailable hours	0.82	1.23	10.19	32.06	1.52	1.47	1.30	8.61
Unplanned unavailable hours	35.57	0.67	0	0	0	0	0.17	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	0.70	0.70	9.40	1.37	1.62	1.35	1.15	1.30
Unplanned unavailable hours	0	0	0	0	0	0.10	38.30	0.17
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Train 3</b>								
Planned unavailable hours	1.43	29.12	16.82	0.68	18.10	0.80	4.48	1.00
Unplanned unavailable hours	0	2.60	0	10.59	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



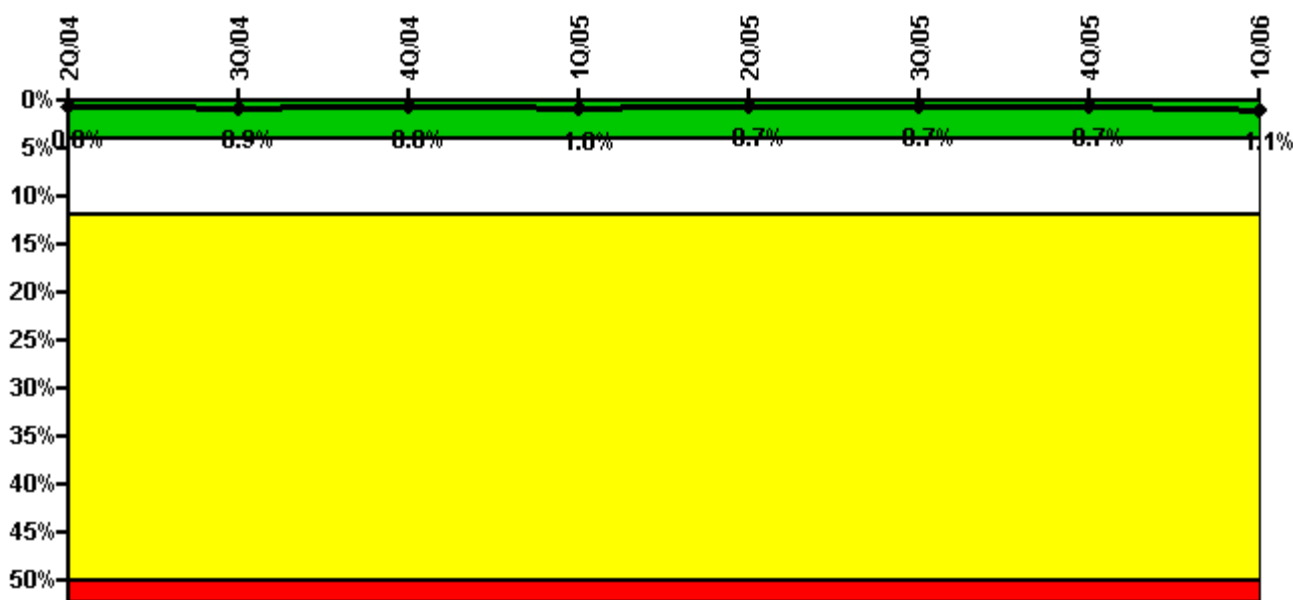
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
<b>Train 1</b>								
Planned unavailable hours	5.30	14.11	17.16	5.05	1.45	0.98	47.95	1.80
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	1916.00	1831.50	2160.00
<b>Indicator value</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.4%</b>

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



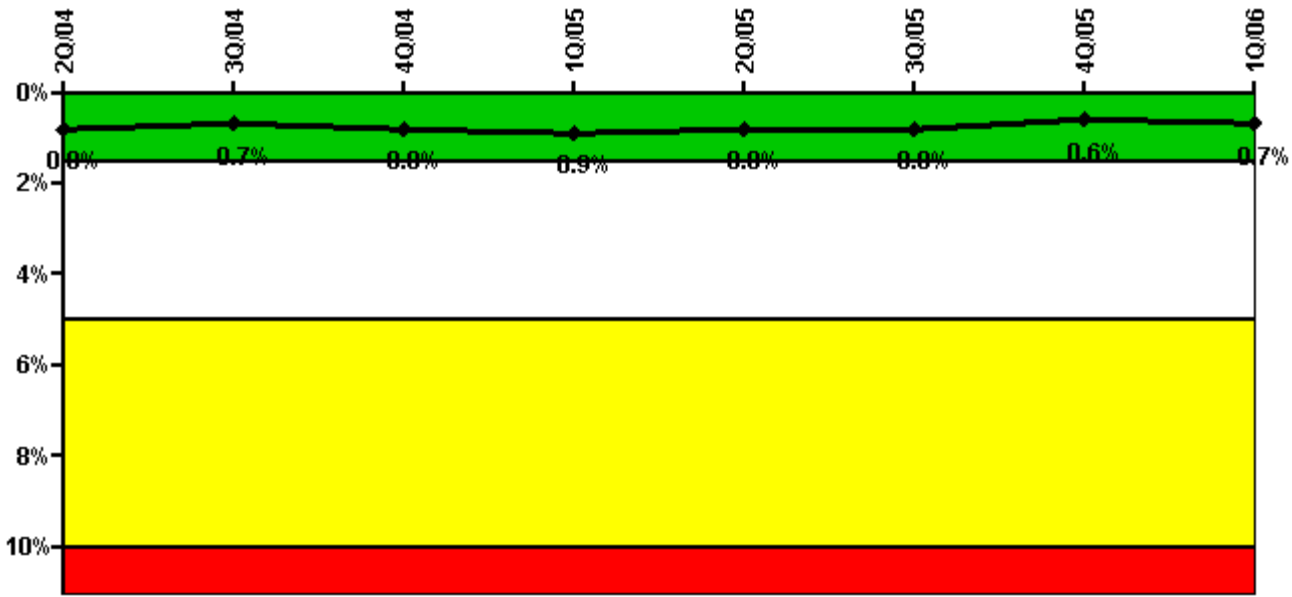
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
<b>Train 1</b>								
Planned unavailable hours	4.09	6.04	4.35	42.49	13.06	4.73	13.99	116.03
Unplanned unavailable hours	0	20.57	0	5.29	7.84	2.53	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	1916.00	1831.50	2160.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>1.0%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>1.1%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



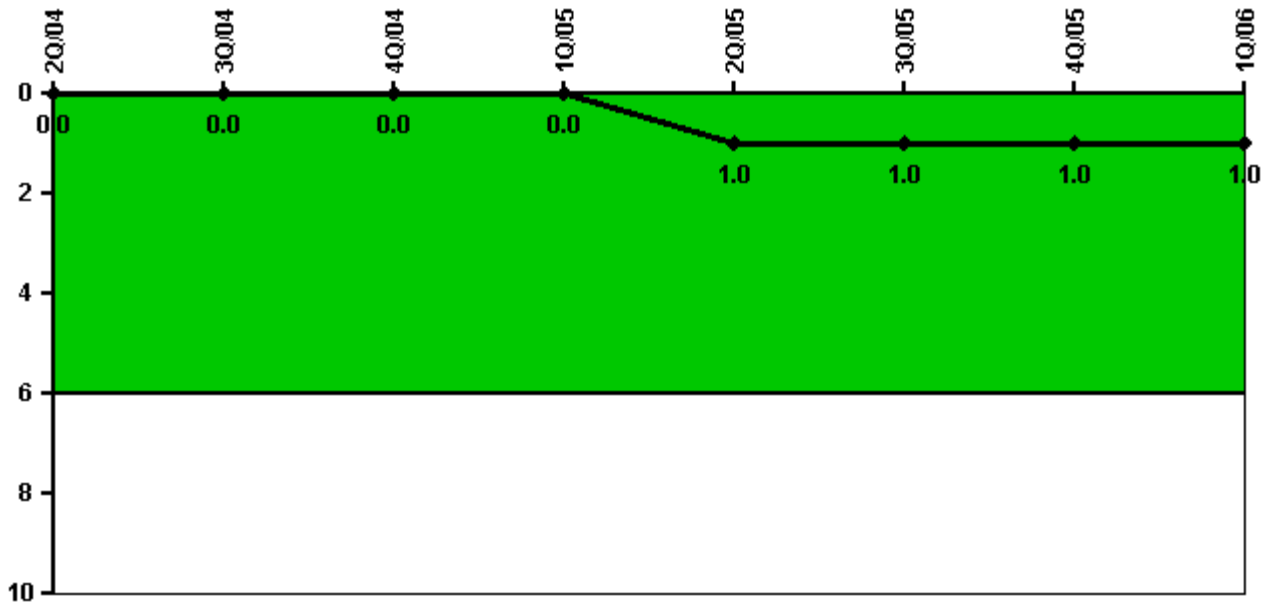
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
<b>Train 1</b>								
Planned unavailable hours	6.80	2.60	49.85	56.44	3.43	11.14	0.50	1.80
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	60.00	2.07	4.22	2.78	3.83	3.00	1.55	34.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.6%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



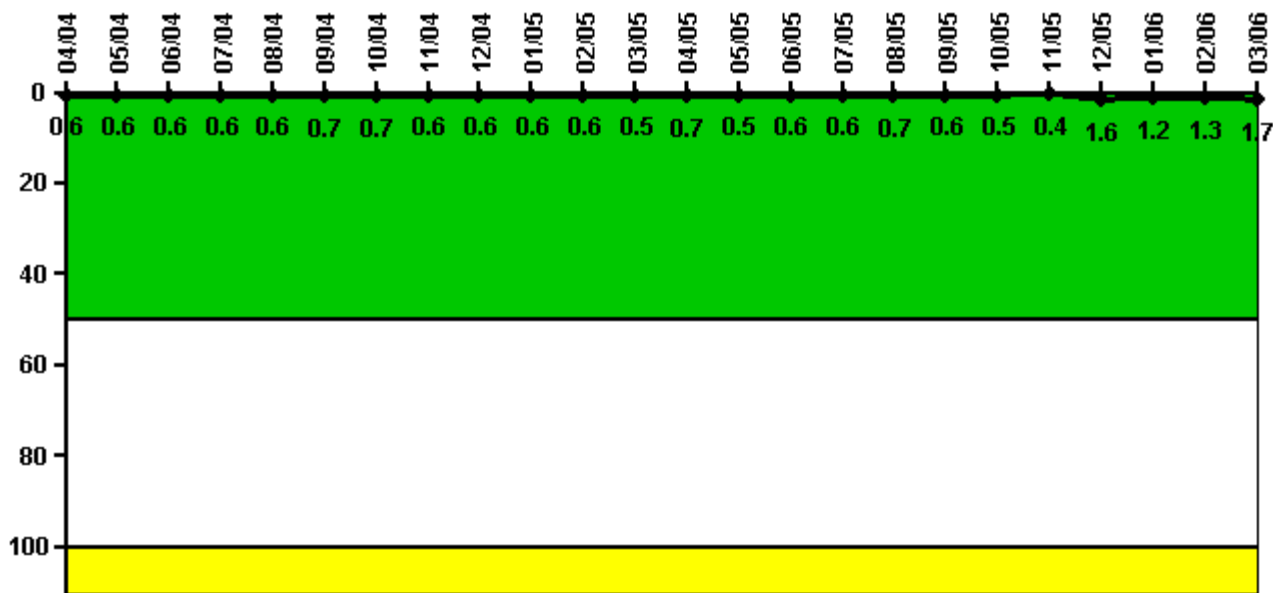
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Safety System Functional Failures	0	0	0	0	1	0	0	0
Indicator value	0	0	0	0	1	1	1	1

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

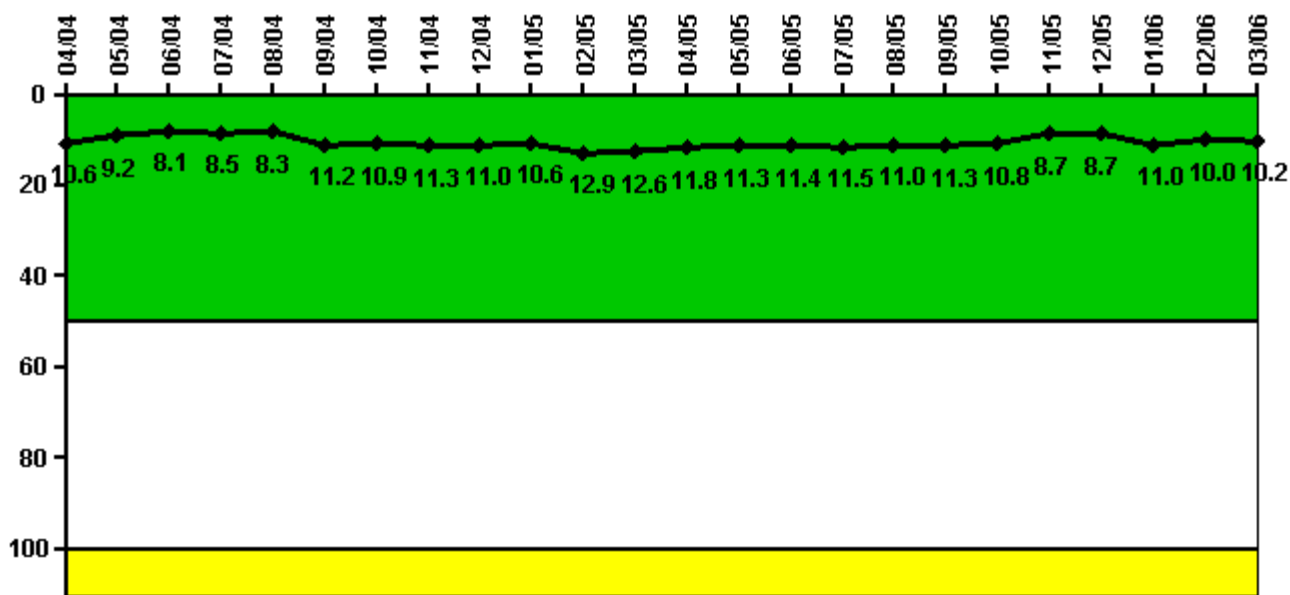
#### Notes

Reactor Coolant System Activity	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum activity	0.001140	0.001230	0.001280	0.001250	0.001290	0.001380	0.001340	0.001250	0.001130	0.001160	0.001110	0.001040
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
<b>Indicator value</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>
Reactor Coolant System Activity	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum activity	0.001370	0.001060	0.001260	0.001130	0.001410	0.001190	0.000956	0.000722	0.003210	0.002400	0.002500	0.003470
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
<b>Indicator value</b>	<b>0.7</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>	<b>0.5</b>	<b>0.4</b>	<b>1.6</b>	<b>1.2</b>	<b>1.3</b>	<b>1.7</b>

Licensee Comments: none



### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

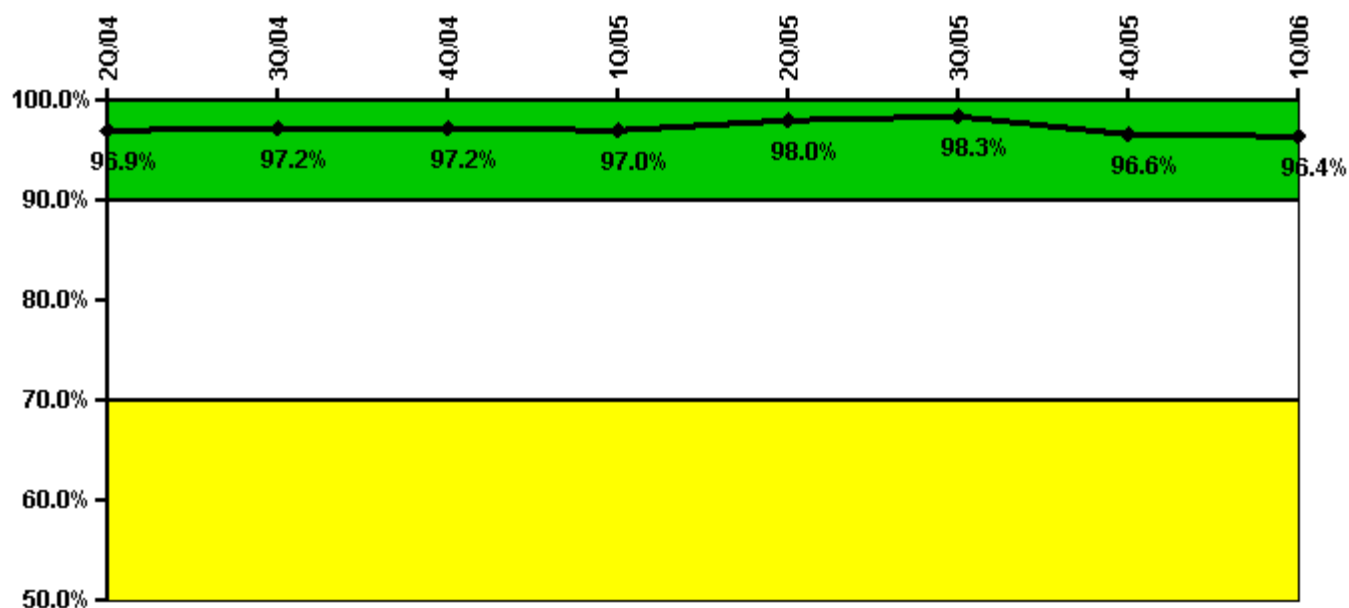
#### Notes

Reactor Coolant System Leakage	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum leakage	3.170	2.760	2.440	2.560	2.500	3.370	3.270	3.400	3.310	3.190	3.880	3.780
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>10.6</b>	<b>9.2</b>	<b>8.1</b>	<b>8.5</b>	<b>8.3</b>	<b>11.2</b>	<b>10.9</b>	<b>11.3</b>	<b>11.0</b>	<b>10.6</b>	<b>12.9</b>	<b>12.6</b>
Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	3.530	3.390	3.410	3.440	3.300	3.400	3.250	2.610	2.600	3.300	2.990	3.050
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>11.8</b>	<b>11.3</b>	<b>11.4</b>	<b>11.5</b>	<b>11.0</b>	<b>11.3</b>	<b>10.8</b>	<b>8.7</b>	<b>8.7</b>	<b>11.0</b>	<b>10.0</b>	<b>10.2</b>

Licensee Comments:

3/06: GGNS condition report GGN-2006-0857 identifies instances of total drywell leakage (vs. identified leakage) not being reported per the guidelines of NEI 99-02 rev 3. This condition has been corrected. Past data was analyzed and determined there was no appreciable impact to data previously submitted. There was no threshold change which would exceed the Green margin.

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

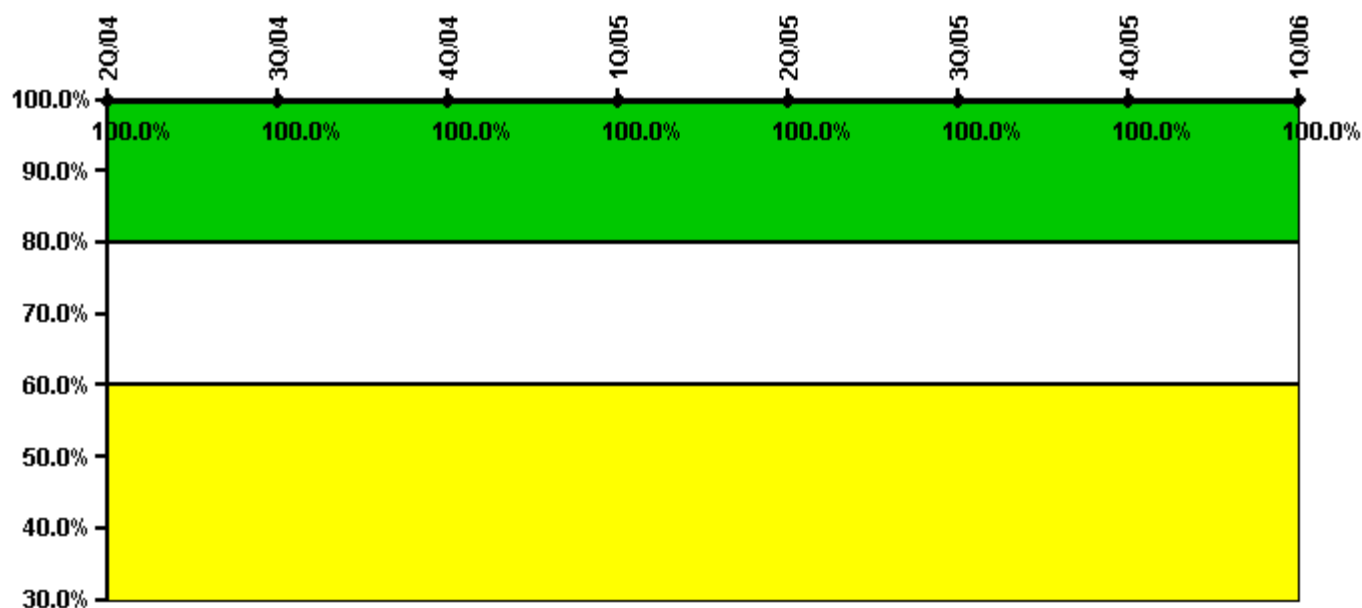
#### Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	38.0	24.0	18.0	33.0	36.0	12.0	7.0	19.0
Total opportunities	40.0	24.0	18.0	34.0	36.0	12.0	10.0	20.0
Indicator value	96.9%	97.2%	97.2%	97.0%	98.0%	98.3%	96.6%	96.4%

Licensee Comments:

2Q/05: Data correction. No change to indicator color (green).

### ERO Drill Participation



**Thresholds: White < 80.0% Yellow < 60.0%**

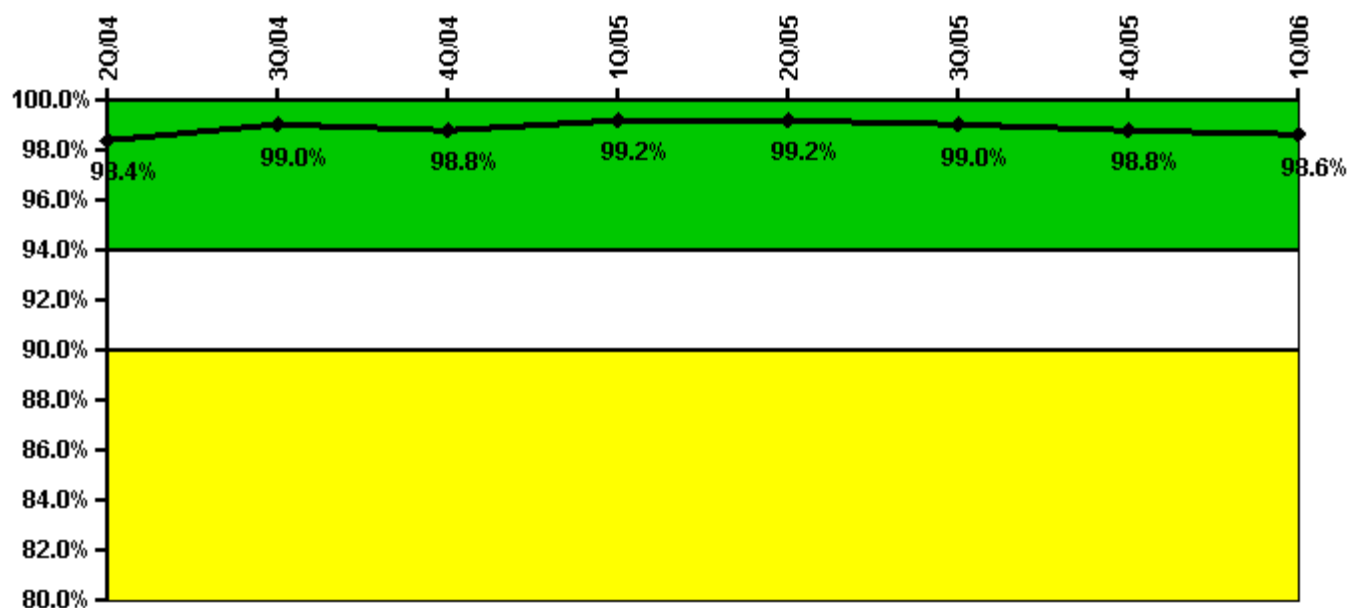
**Notes**

ERO Drill Participation	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Participating Key personnel	79.0	79.0	82.0	83.0	81.0	95.0	92.0	92.0
Total Key personnel	79.0	79.0	82.0	83.0	81.0	95.0	92.0	92.0
Indicator value	<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:

- 4Q/05: Data correction to reflect 92 of 92. No change to indicator color (green).
- 3Q/05: Data correction to reflect 95 of 95. No change to indicator color (green).
- 2Q/05: Data correction to reflect 81 of 81. No change to indicator color (green).
- 1Q/05: Data correction to reflect 83 of 83. No change to indicator color (green).
- 4Q/04: Data correction to reflect 82 of 82. No change to indicator color (green).
- 3Q/04: Data correction to reflect 79 of 79. No change to indicator color (green).

### Alert & Notification System



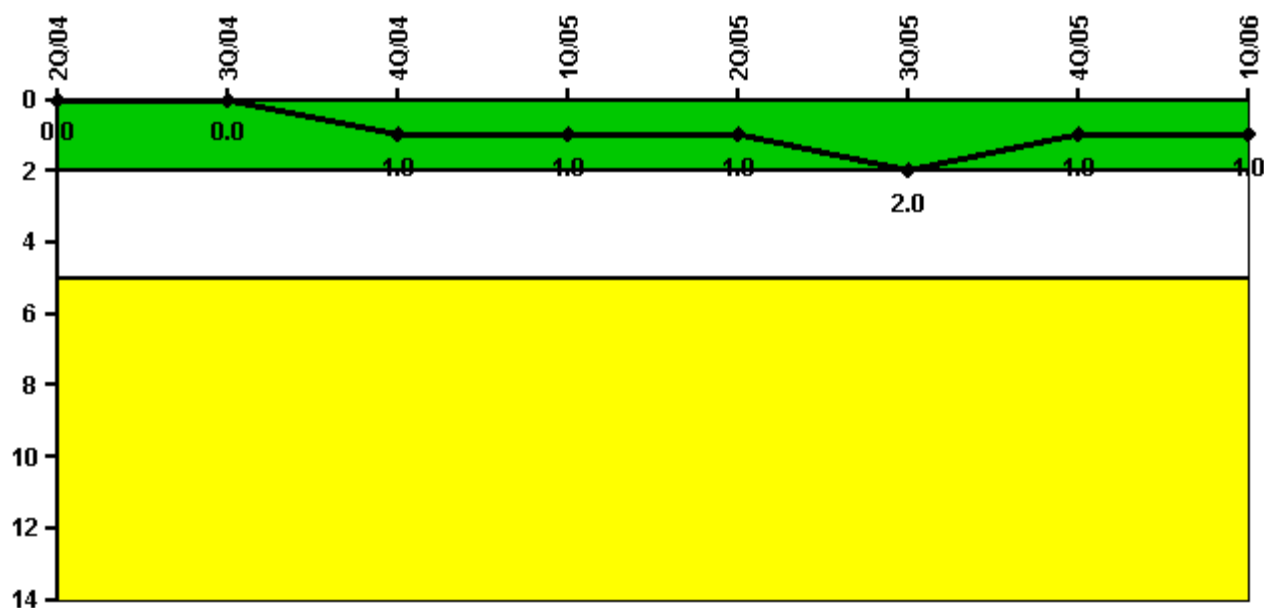
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful siren-tests	128	127	128	129	128	126	127	128
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	98.4%	99.0%	98.8%	99.2%	99.2%	99.0%	98.8%	98.6%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

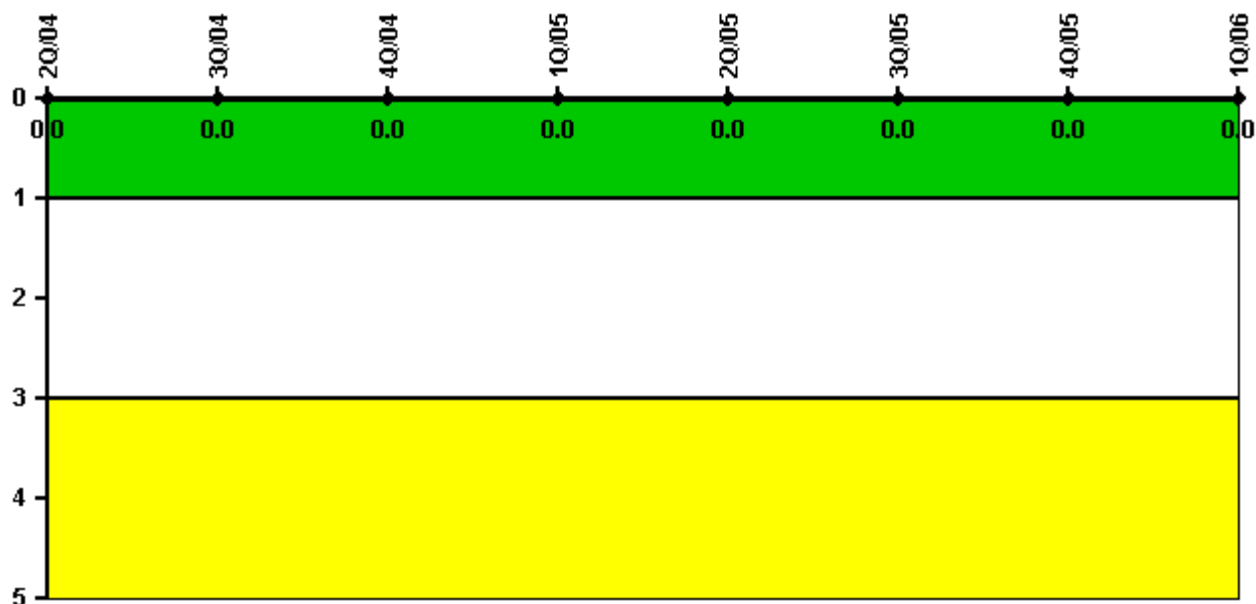
#### Notes

Occupational Exposure Control Effectiveness	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
High radiation area occurrences	0	0	1	0	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>

#### Licensee Comments:

4Q/04: During an NRC inspection, the inspector questioned if a station evaluation performed for the Occupational Radiation Performance Indicator for 4th Quarter 2004 data was correct. The station submitted an FAQ and after further discussions, subsequently withdrew the FAQ and concurs with one technical specification high radiation area occurrence in 4th quarter, 2004. There was no change of threshold (Green) as a result of this revised report.

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
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](#)

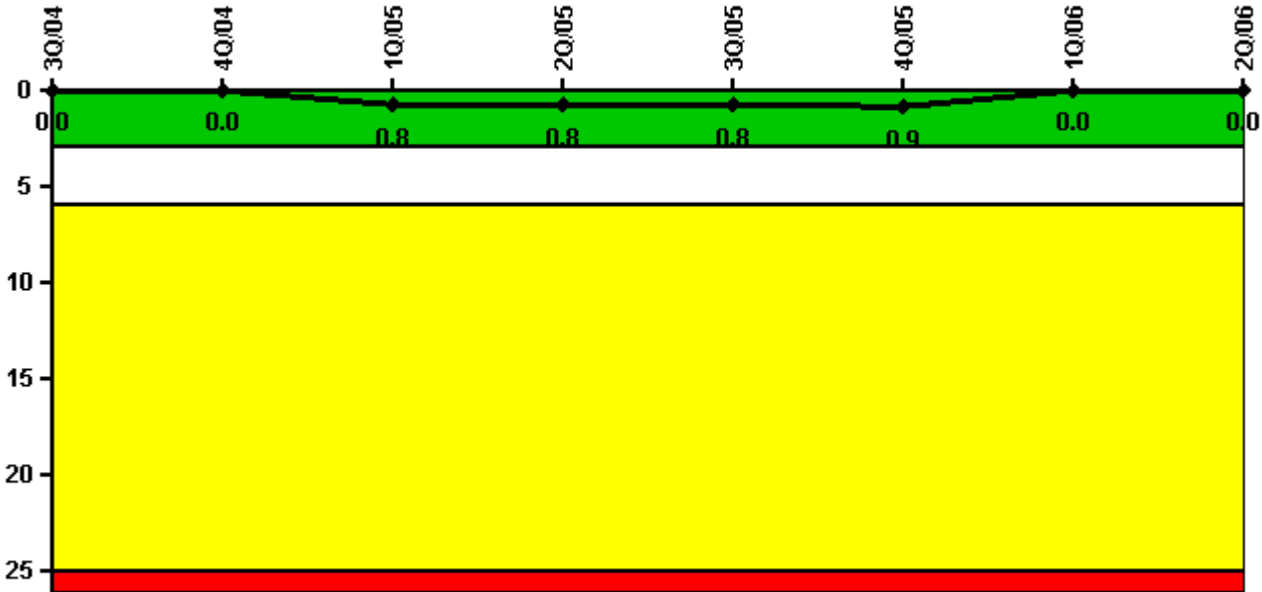
Last Modified: May 5, 2006

# Grand Gulf 1

## 2Q/2006 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



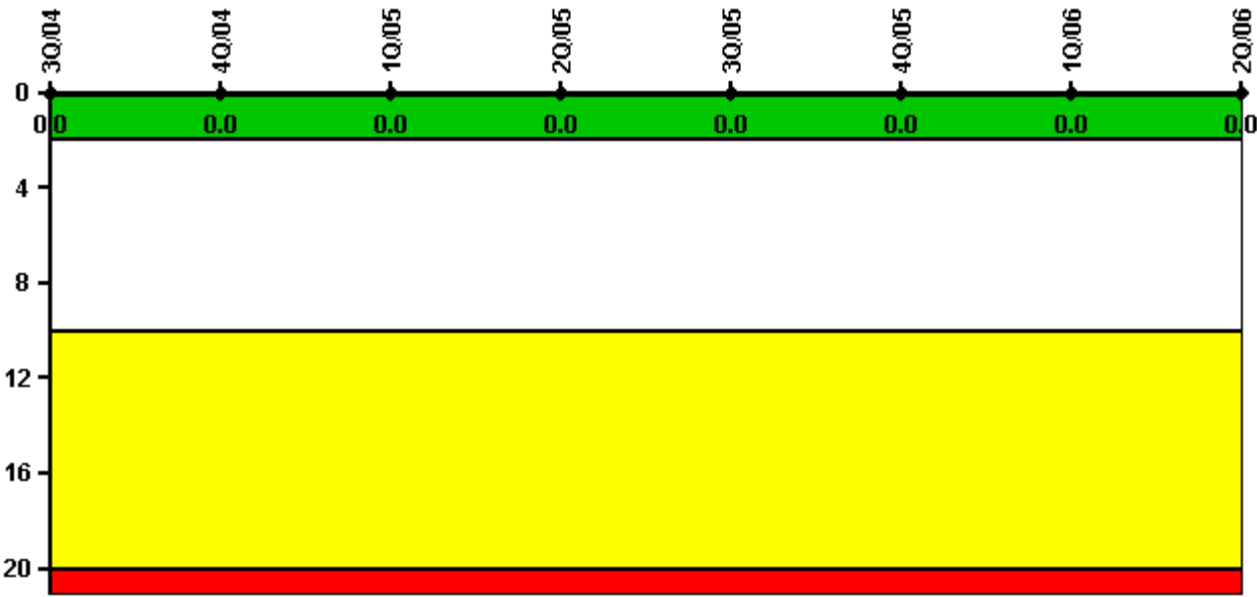
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2121.9	2183.0	1916.0	1831.5	2160.0	2016.3
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

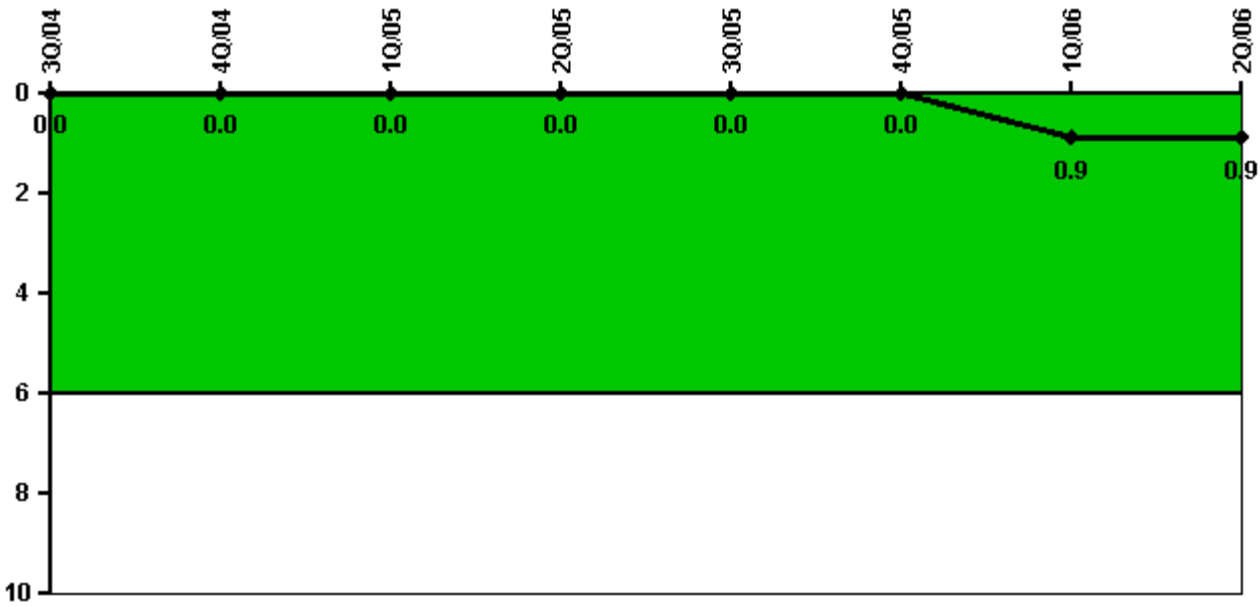
#### Notes

Scrams with Loss of Normal Heat Removal	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
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



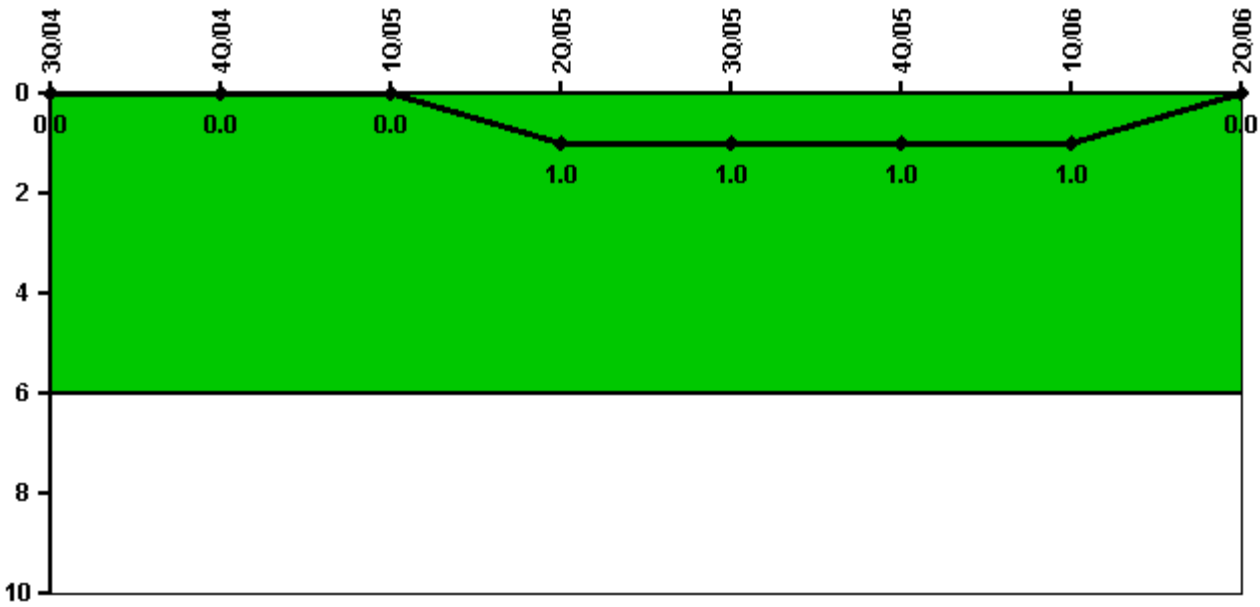
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	2121.9	2183.0	1916.0	1831.5	2160.0	2016.3
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>0.9</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	0	0	0	1	1	1	1	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

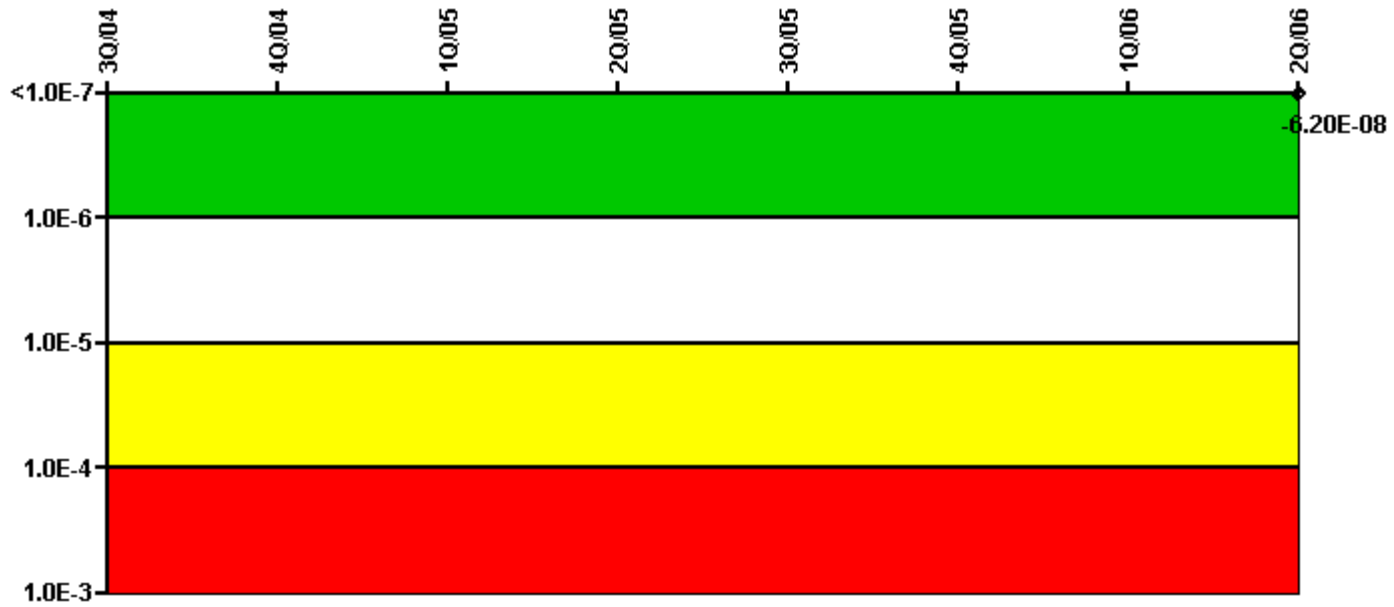
#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								5.60E-08
URI (ΔCDF)								7.20E-07
PLE								NO
<b>Indicator value</b>								<b>7.76E-07</b>

#### Licensee Comments:

2Q/06: An additional review of the failure description category for a June, 2004 EDG station failure occurrence resulted in a determination that the failure was improperly characterized. The initial failure description was a start failure while it should have been characterized as a failure of the ability to meet mission time.

### Mitigating Systems Performance Index, High Pressure Injection System



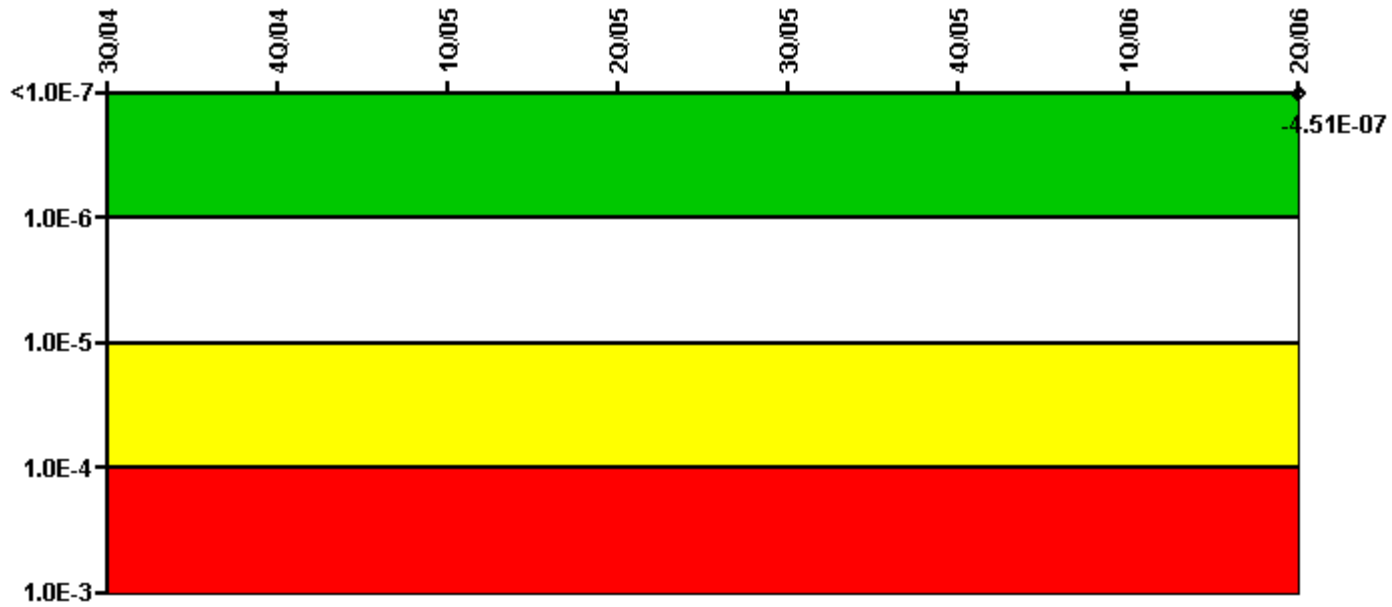
Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI ( $\Delta$ CDF)								-3.40E-08
URI ( $\Delta$ CDF)								-2.80E-08
PLE								NO
<b>Indicator value</b>								<b>-6.20E-08</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



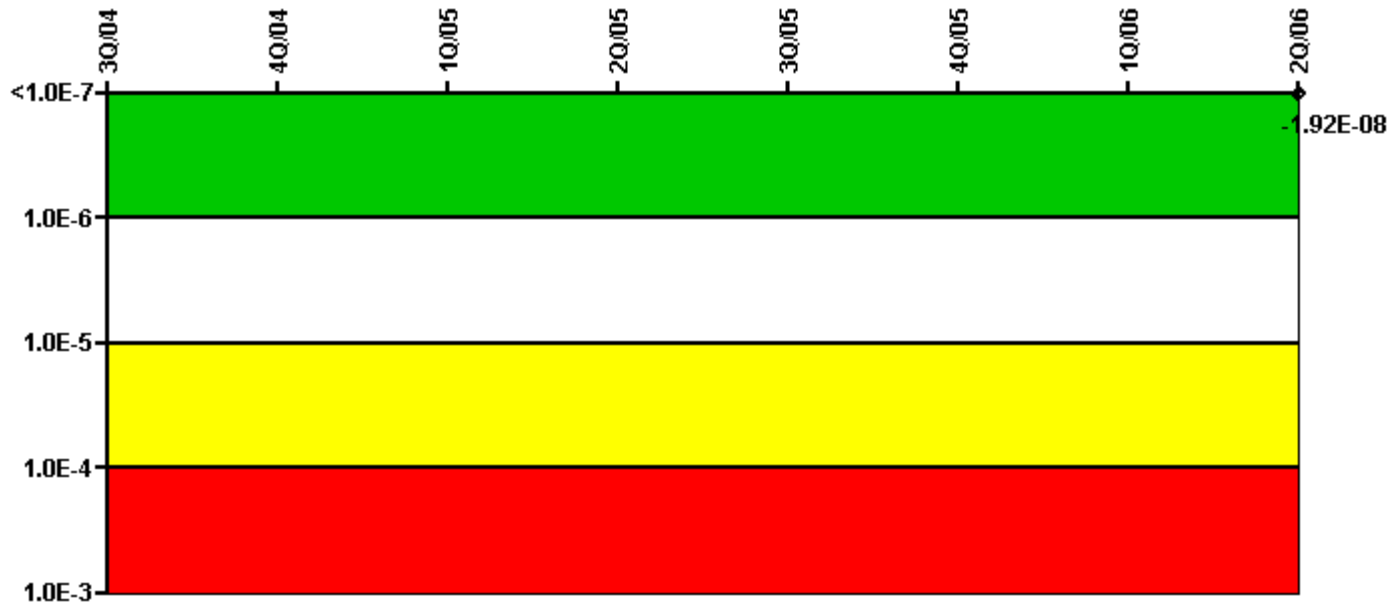
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-5.10E-08
URI (ΔCDF)								-4.00E-07
PLE								NO
<b>Indicator value</b>								<b>-4.51E-07</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



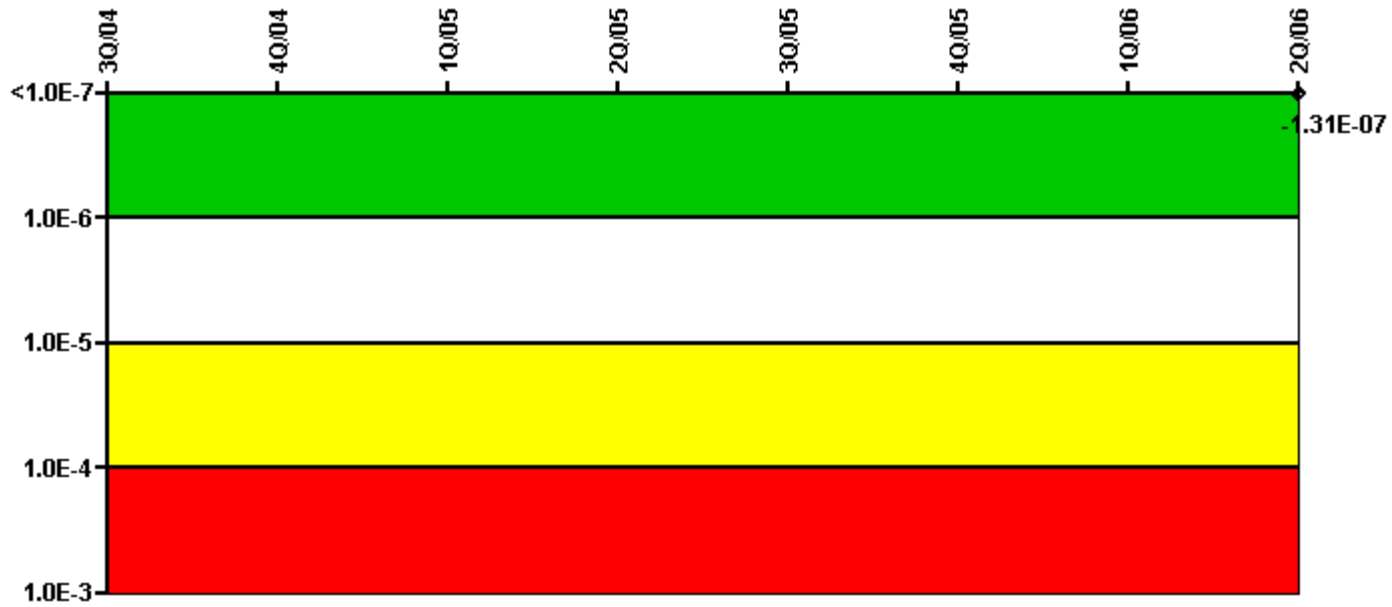
Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI ( $\Delta$ CDF)								-8.20E-09
URI ( $\Delta$ CDF)								-1.10E-08
PLE								NO
<b>Indicator value</b>								<b>-1.92E-08</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



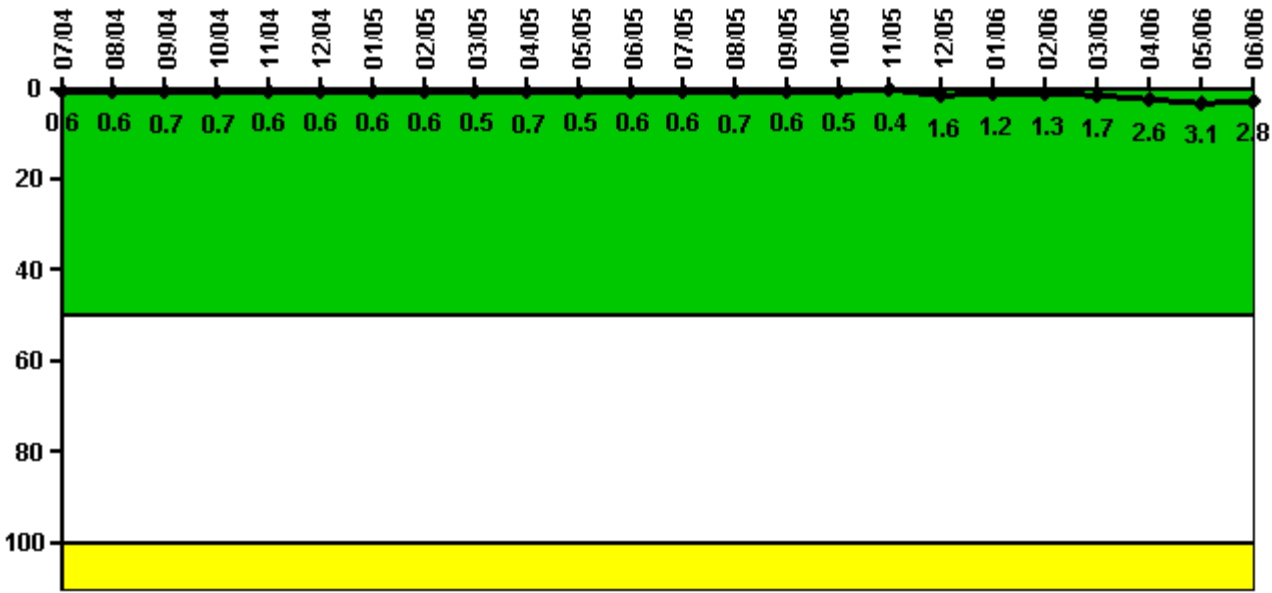
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

**Notes**

Mitigating Systems Performance Index, Cooling Water Systems	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-1.40E-09
URI (ΔCDF)								-1.30E-07
PLE								NO
<b>Indicator value</b>								<b>-1.31E-07</b>

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

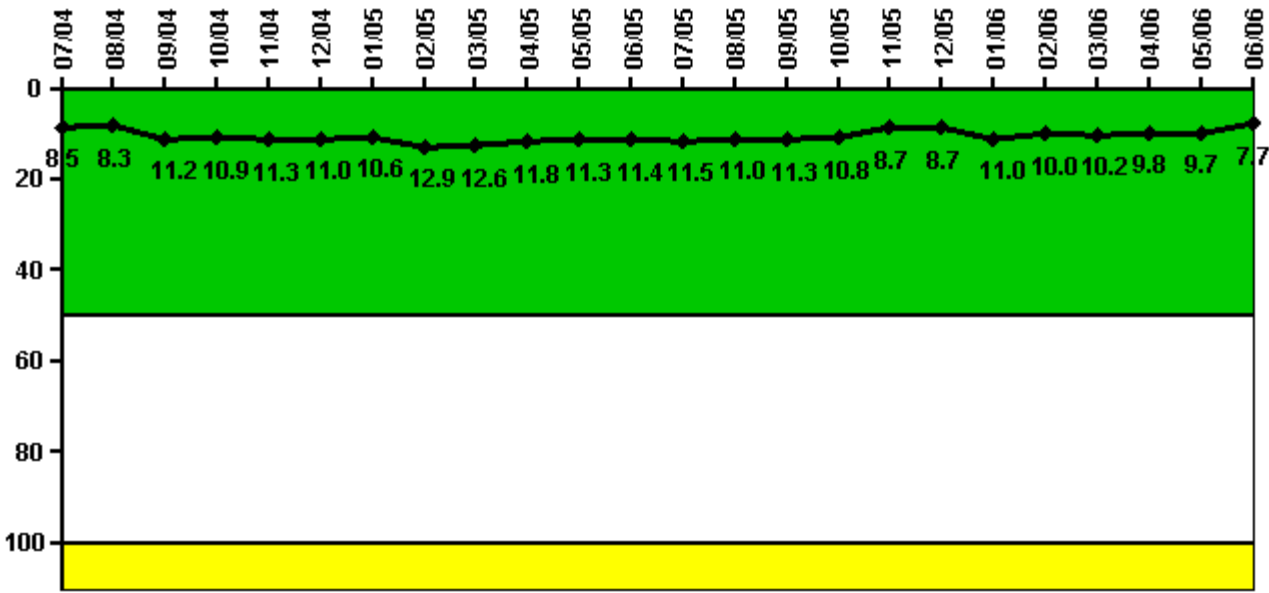
**Notes**

Reactor Coolant System Activity	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum activity	0.001250	0.001290	0.001380	0.001340	0.001250	0.001130	0.001160	0.001110	0.001040	0.001370	0.001060	0.001260
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
<b>Indicator value</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>	<b>0.7</b>	<b>0.5</b>	<b>0.6</b>
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	0.001130	0.001410	0.001190	0.000956	0.000722	0.003210	0.002400	0.002500	0.003470	0.005100	0.006200	0.005600
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
<b>Indicator value</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>	<b>0.5</b>	<b>0.4</b>	<b>1.6</b>	<b>1.2</b>	<b>1.3</b>	<b>1.7</b>	<b>2.6</b>	<b>3.1</b>	<b>2.8</b>

Licensee Comments: none



### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

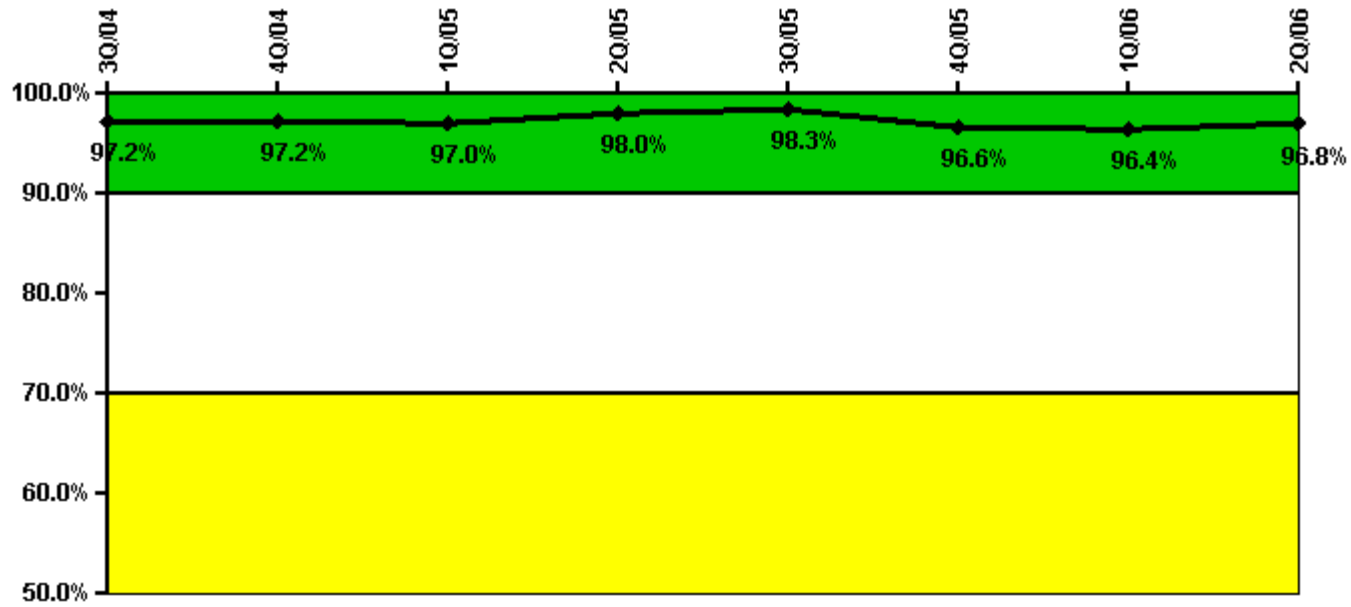
Reactor Coolant System Leakage	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum leakage	2.560	2.500	3.370	3.270	3.400	3.310	3.190	3.880	3.780	3.530	3.390	3.410
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>8.5</b>	<b>8.3</b>	<b>11.2</b>	<b>10.9</b>	<b>11.3</b>	<b>11.0</b>	<b>10.6</b>	<b>12.9</b>	<b>12.6</b>	<b>11.8</b>	<b>11.3</b>	<b>11.4</b>

Reactor Coolant System Leakage	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 leakage	3.440	3.300	3.400	3.250	2.610	2.600	3.300	2.990	3.050	2.950	2.920	2.300
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>11.5</b>	<b>11.0</b>	<b>11.3</b>	<b>10.8</b>	<b>8.7</b>	<b>8.7</b>	<b>11.0</b>	<b>10.0</b>	<b>10.2</b>	<b>9.8</b>	<b>9.7</b>	<b>7.7</b>

Licensee Comments: none

### Drill/Exercise Performance



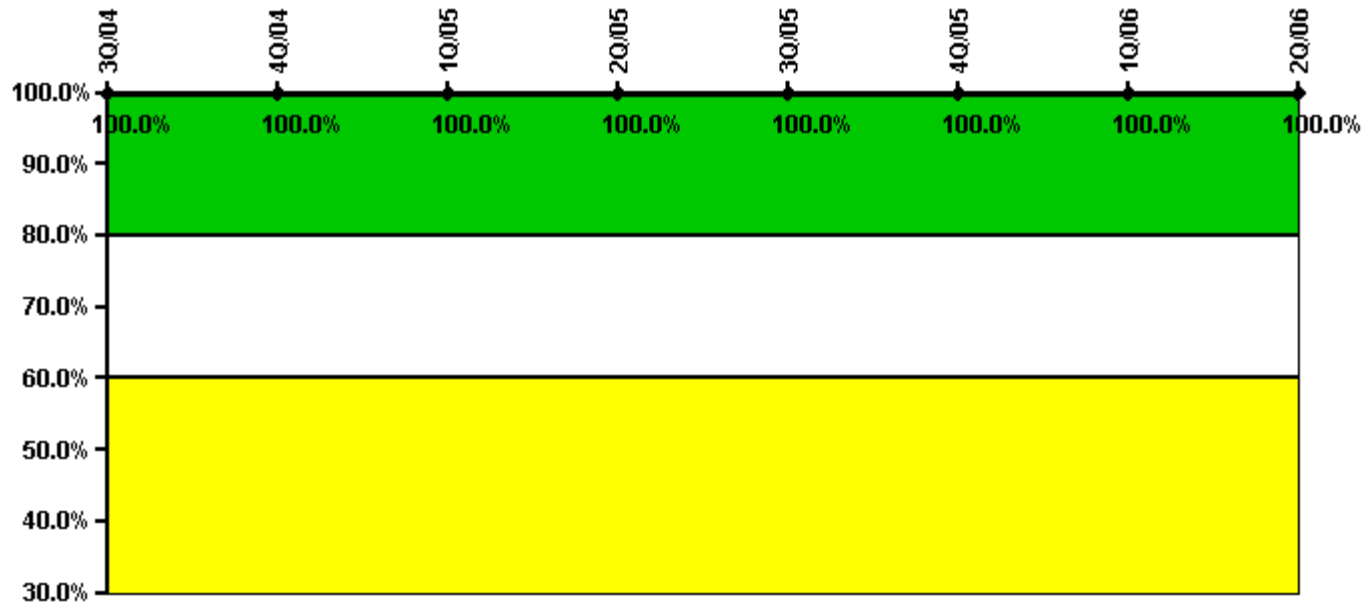
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful opportunities	24.0	18.0	33.0	36.0	12.0	7.0	19.0	4.0
Total opportunities	24.0	18.0	34.0	36.0	12.0	10.0	20.0	4.0
Indicator value	97.2%	97.2%	97.0%	98.0%	98.3%	96.6%	96.4%	96.8%

Licensee Comments: none

### ERO Drill Participation



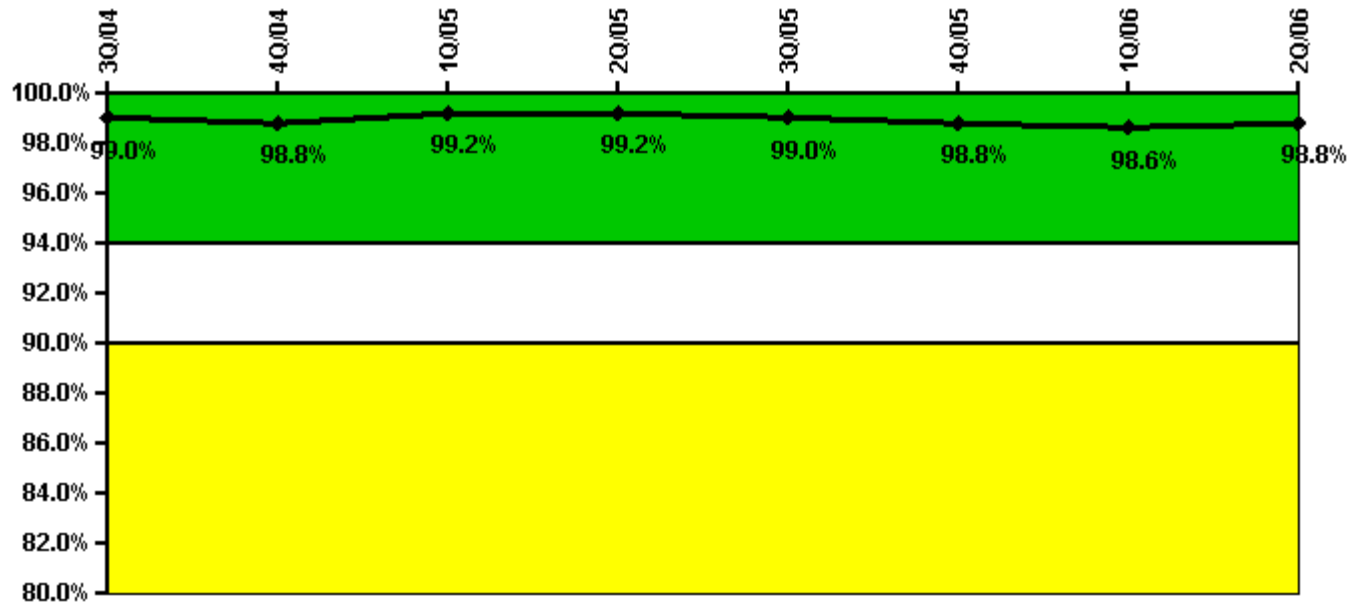
Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Participating Key personnel	79.0	82.0	83.0	81.0	95.0	92.0	92.0	86.0
Total Key personnel	79.0	82.0	83.0	81.0	95.0	92.0	92.0	86.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



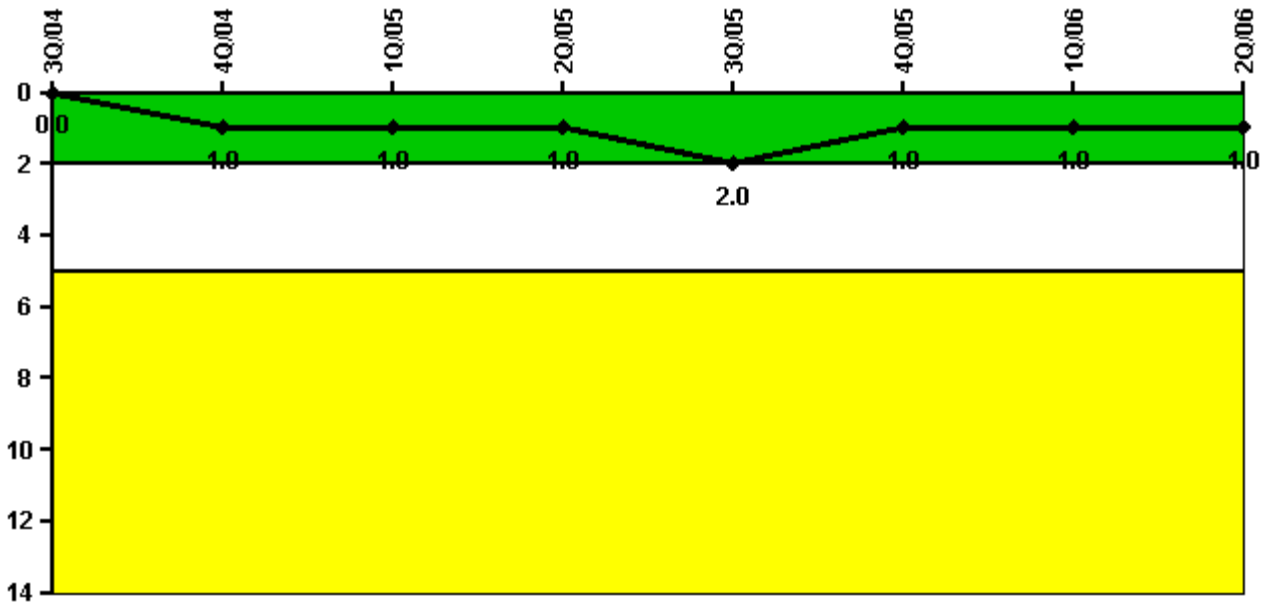
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful siren-tests	127	128	129	128	126	127	128	129
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	99.0%	98.8%	99.2%	99.2%	99.0%	98.8%	98.6%	98.8%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



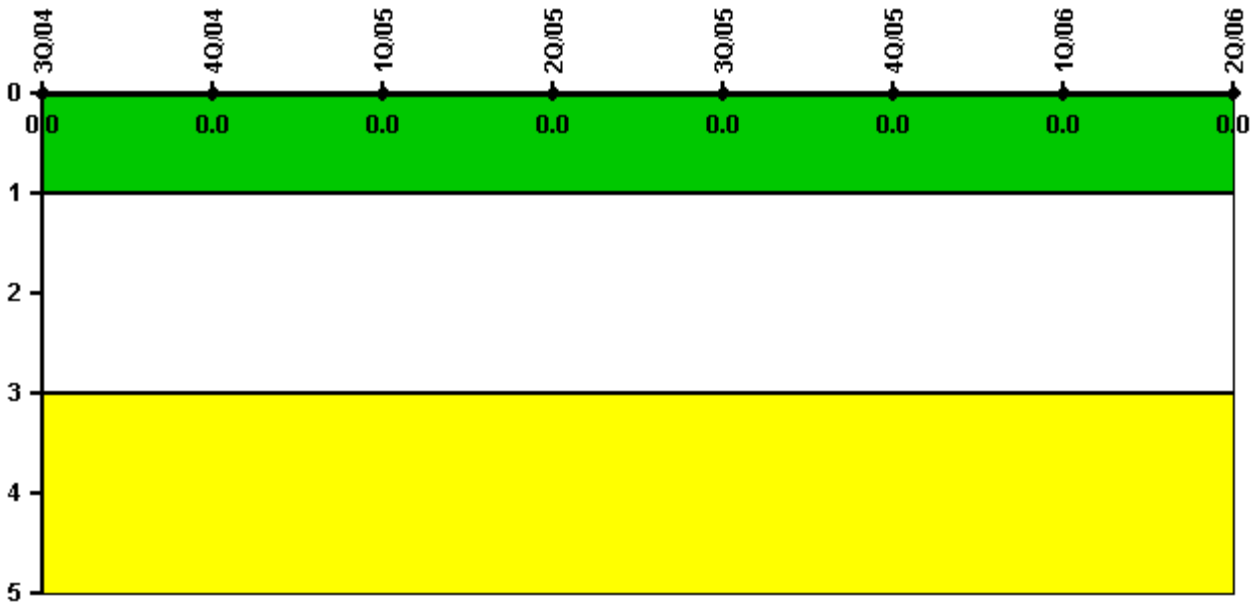
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
High radiation area occurrences	0	1	0	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
RETS/ODCM 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

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

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

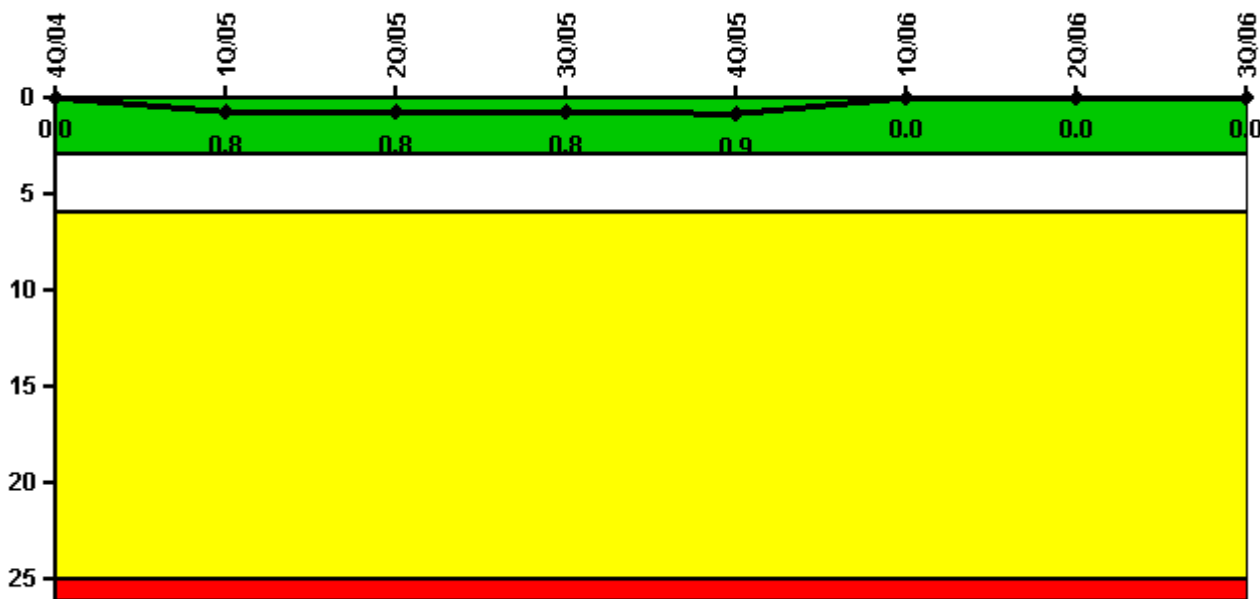
Last Modified: August 2, 2006

# Grand Gulf 1

## 3Q/2006 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



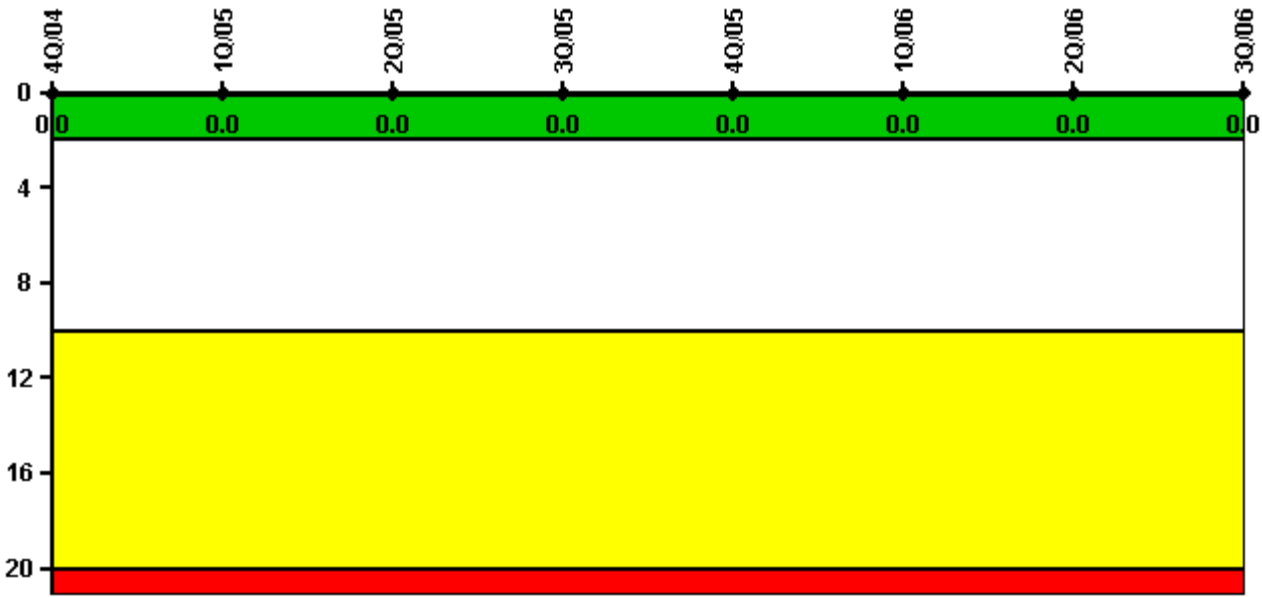
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	2121.9	2183.0	1916.0	1831.5	2160.0	2016.3	2208.0
<b>Indicator value</b>	<b>0</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

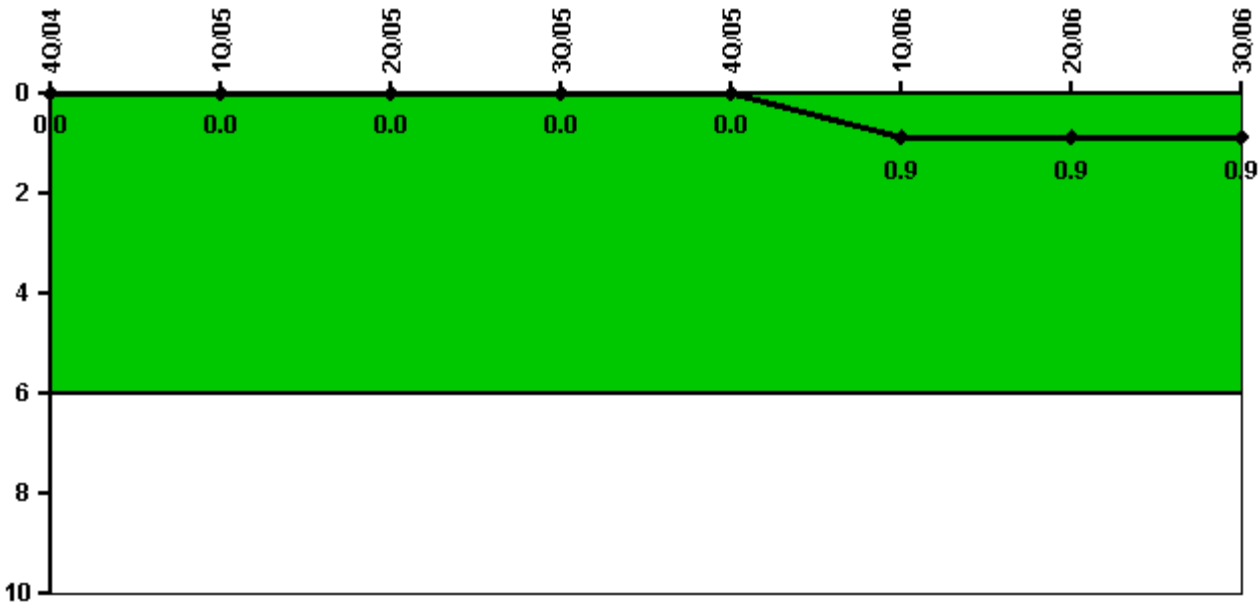
#### Notes

Scrams with Loss of Normal Heat Removal	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Scrams	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



### Unplanned Power Changes per 7000 Critical Hrs



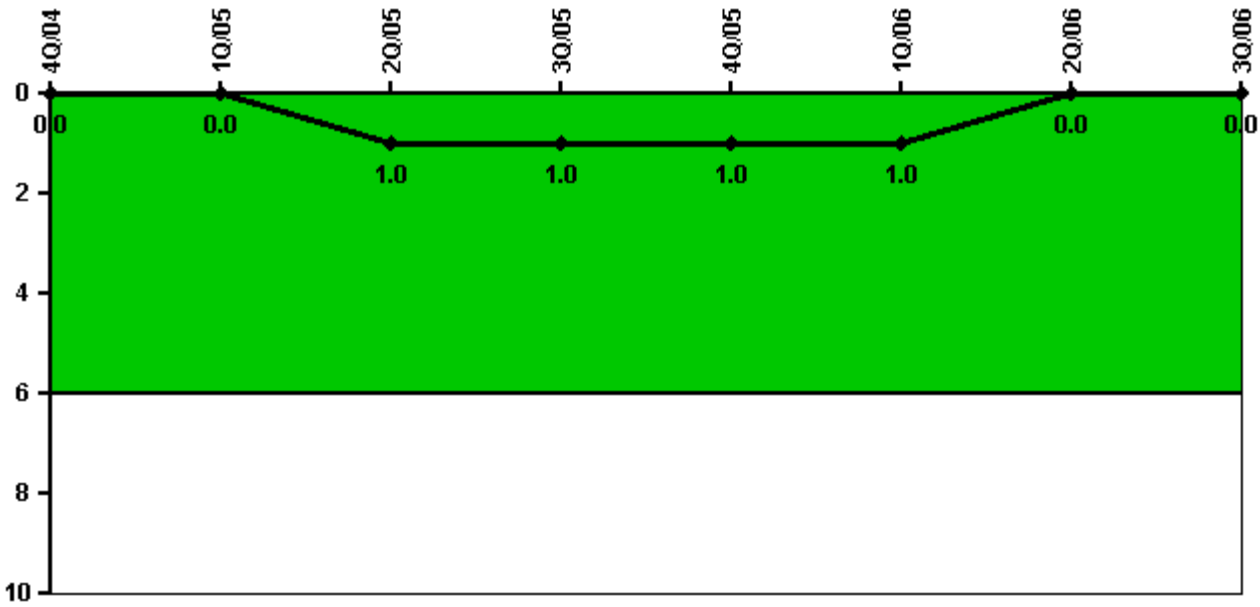
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2209.0	2121.9	2183.0	1916.0	1831.5	2160.0	2016.3	2208.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



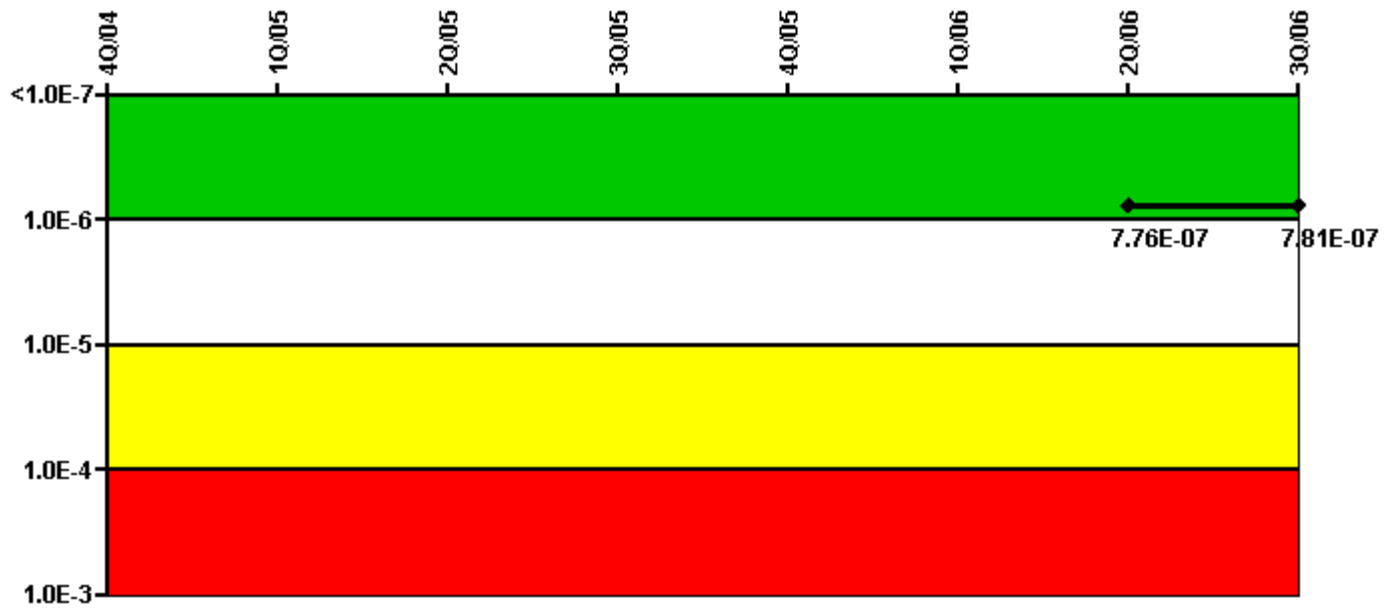
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Safety System Functional Failures	0	0	1	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Emergency AC Power System



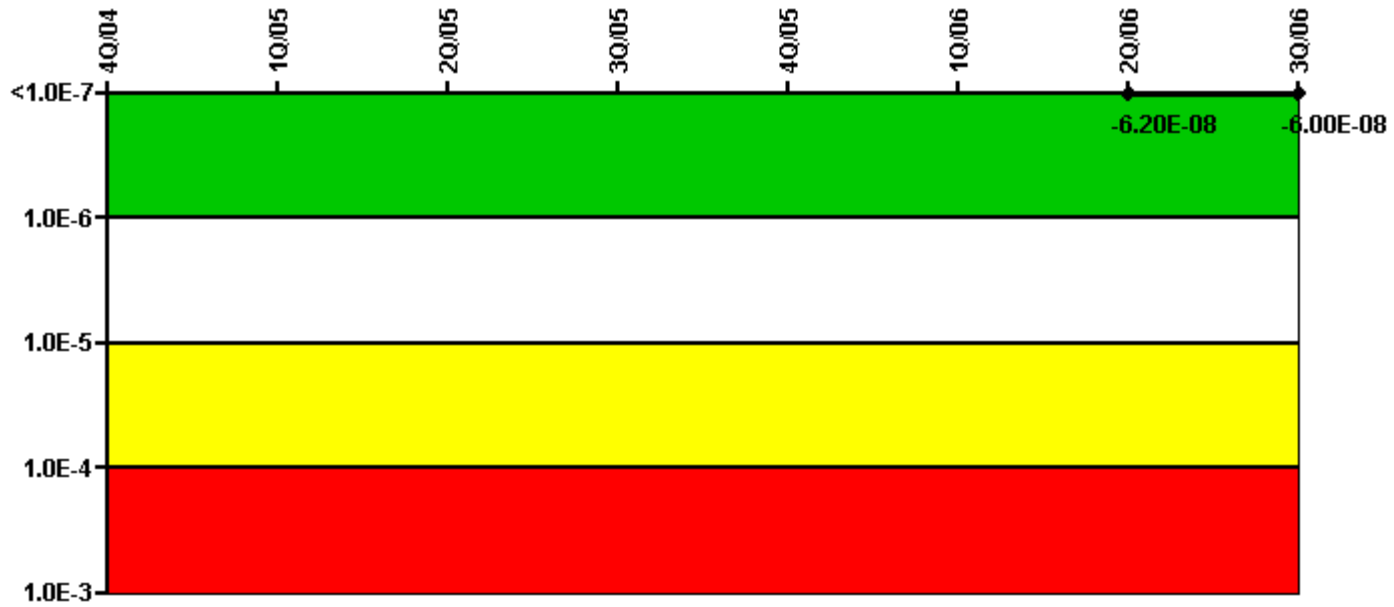
Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI ( $\Delta$ CDF)							5.60E-08	4.10E-08
URI ( $\Delta$ CDF)							7.20E-07	7.40E-07
PLE							NO	NO
<b>Indicator value</b>							<b>7.76E-07</b>	<b>7.81E-07</b>

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



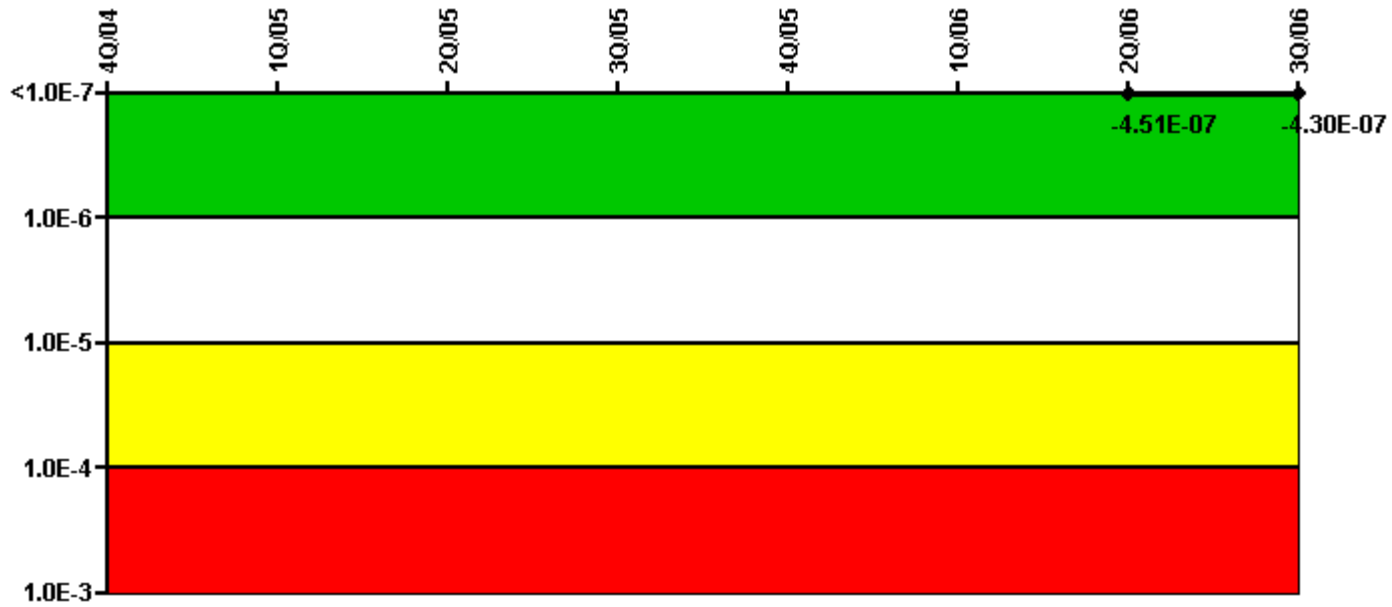
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

**Notes**

Mitigating Systems Performance Index, High Pressure Injection System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI ( $\Delta$ CDF)							-3.40E-08	-3.40E-08
URI ( $\Delta$ CDF)							-2.80E-08	-2.60E-08
PLE							NO	NO
<b>Indicator value</b>							<b>-6.20E-08</b>	<b>-6.00E-08</b>

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/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI ( $\Delta$ CDF)							-5.10E-08	-3.00E-08
URI ( $\Delta$ CDF)							-4.00E-07	-4.00E-07
PLE							NO	NO
Indicator value							-4.51E-07	-4.30E-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/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI ( $\Delta$ CDF)							-8.20E-09	-8.10E-09
URI ( $\Delta$ CDF)							-1.10E-08	-1.10E-08
PLE							NO	NO
<b>Indicator value</b>							<b>-1.92E-08</b>	<b>-1.91E-08</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



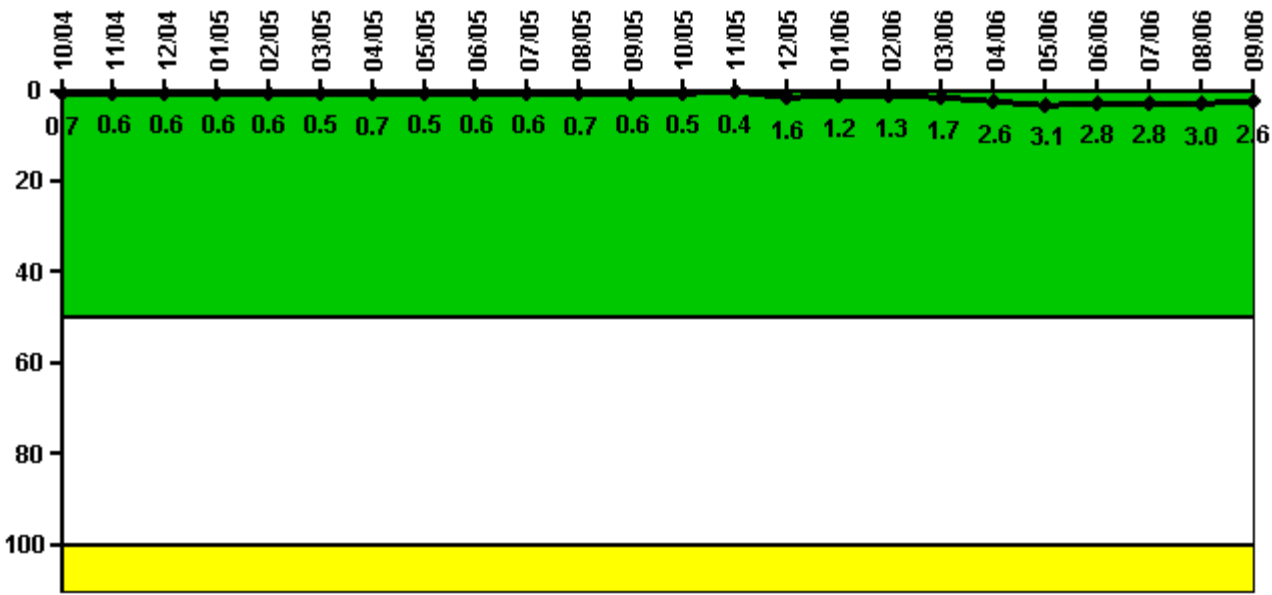
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							-1.40E-09	-1.40E-09
URI (ΔCDF)							-1.30E-07	-1.30E-07
PLE							NO	NO
Indicator value							-1.31E-07	-1.31E-07

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum activity	0.001340	0.001250	0.001130	0.001160	0.001110	0.001040	0.001370	0.001060	0.001260	0.001130	0.001410	0.001190
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	0.7	0.6	0.6	0.6	0.6	0.5	0.7	0.5	0.6	0.6	0.7	0.6

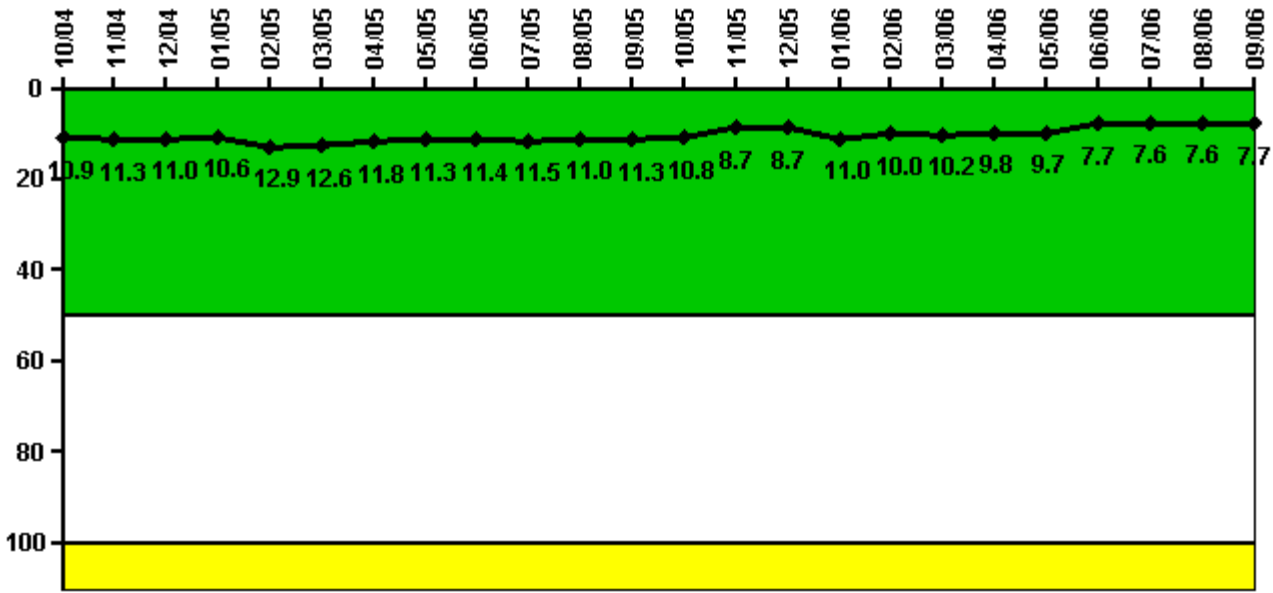
  

Reactor Coolant System Activity	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum activity	0.000956	0.000722	0.003210	0.002400	0.002500	0.003470	0.005100	0.006200	0.005600	0.005510	0.005900	0.005250
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.5	0.4	1.6	1.2	1.3	1.7	2.6	3.1	2.8	2.8	3.0	2.6

Licensee Comments: none



### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

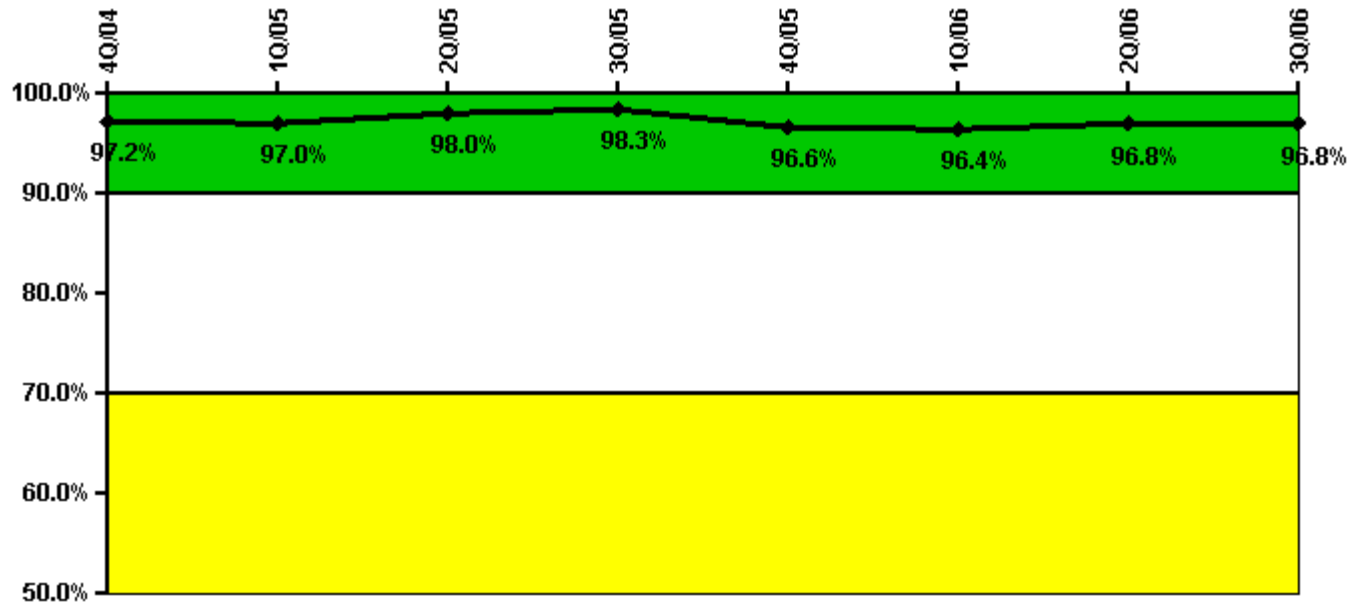
Reactor Coolant System Leakage	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum leakage	3.270	3.400	3.310	3.190	3.880	3.780	3.530	3.390	3.410	3.440	3.300	3.400
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	10.9	11.3	11.0	10.6	12.9	12.6	11.8	11.3	11.4	11.5	11.0	11.3

Reactor Coolant System Leakage	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum leakage	3.250	2.610	2.600	3.300	2.990	3.050	2.950	2.920	2.300	2.280	2.290	2.320
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	10.8	8.7	8.7	11.0	10.0	10.2	9.8	9.7	7.7	7.6	7.6	7.7

Licensee Comments: none

### Drill/Exercise Performance



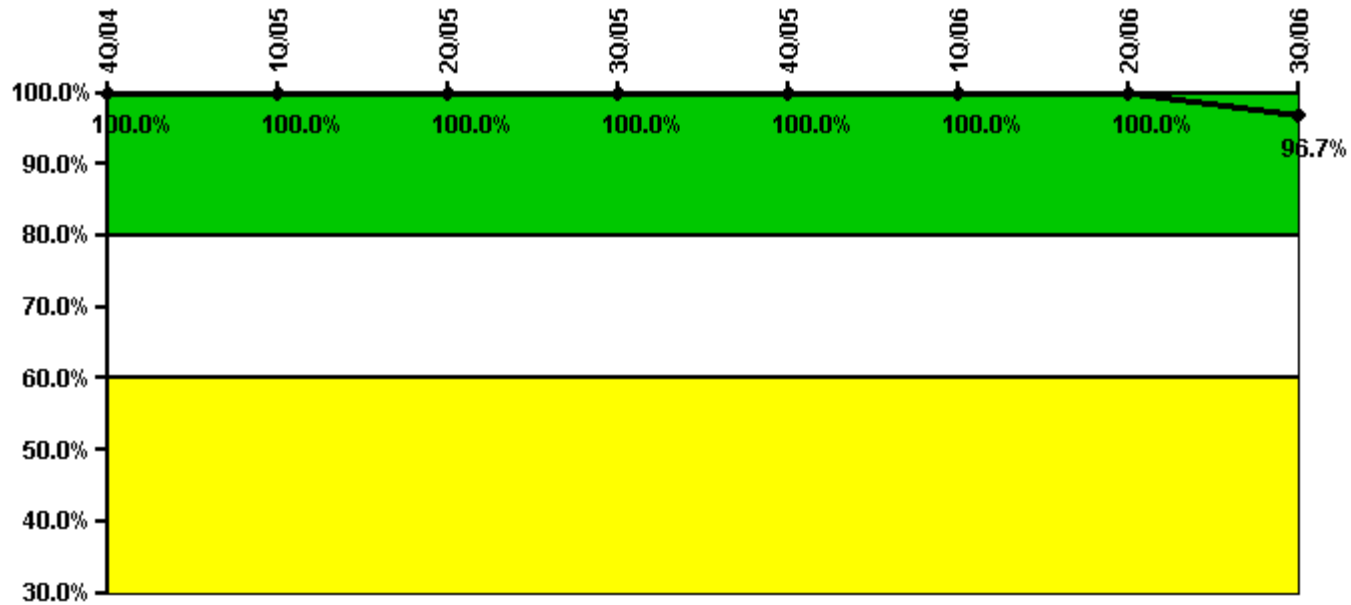
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	18.0	33.0	36.0	12.0	7.0	19.0	4.0	21.0
Total opportunities	18.0	34.0	36.0	12.0	10.0	20.0	4.0	21.0
Indicator value	97.2%	97.0%	98.0%	98.3%	96.6%	96.4%	96.8%	96.8%

Licensee Comments: none

### ERO Drill Participation



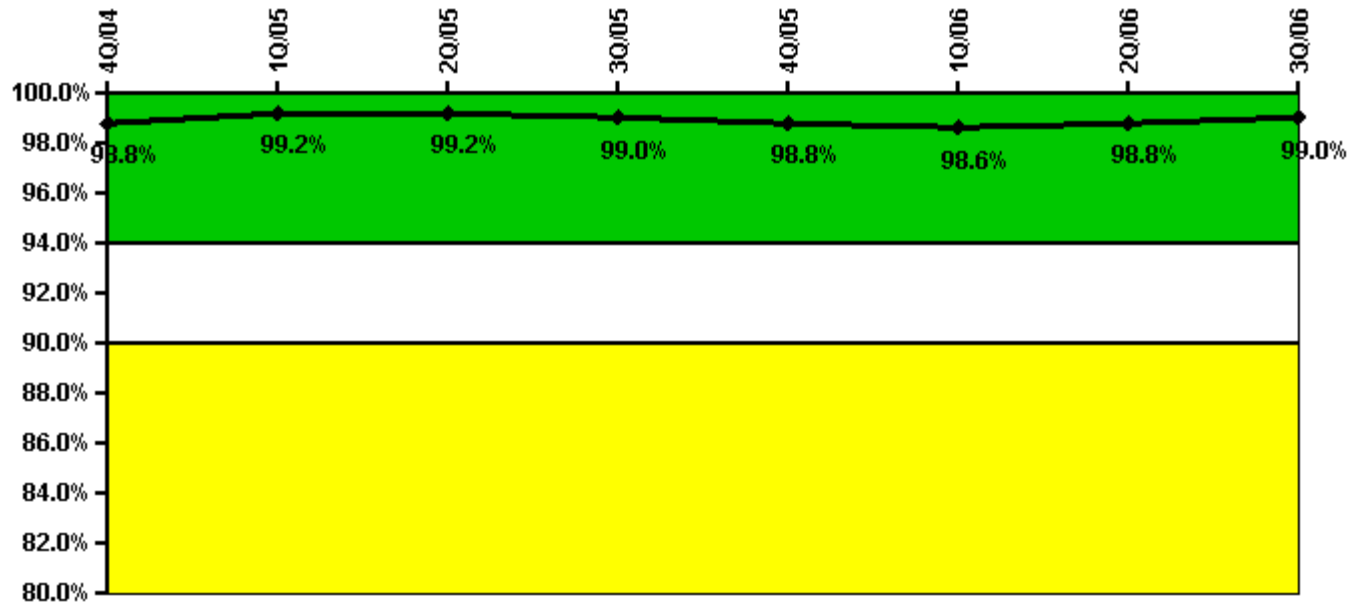
Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	82.0	83.0	81.0	95.0	92.0	92.0	86.0	87.0
Total Key personnel	82.0	83.0	81.0	95.0	92.0	92.0	86.0	90.0
<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>96.7%</b>

Licensee Comments: none

### Alert & Notification System



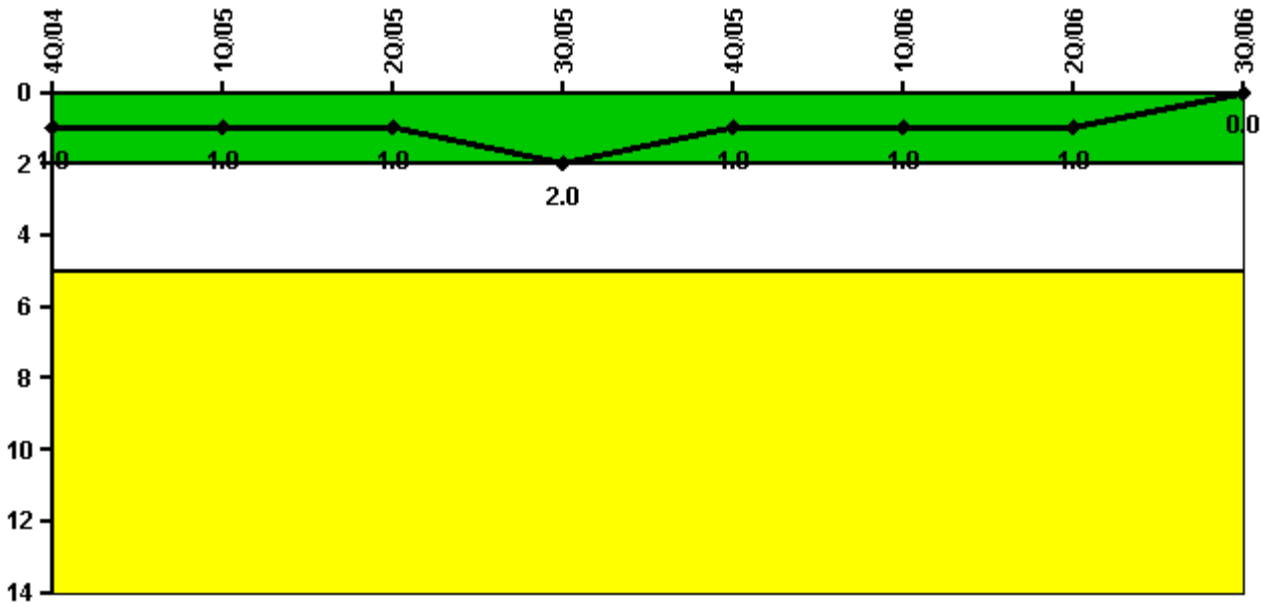
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	128	129	128	126	127	128	129	127
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	98.8%	99.2%	99.2%	99.0%	98.8%	98.6%	98.8%	99.0%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



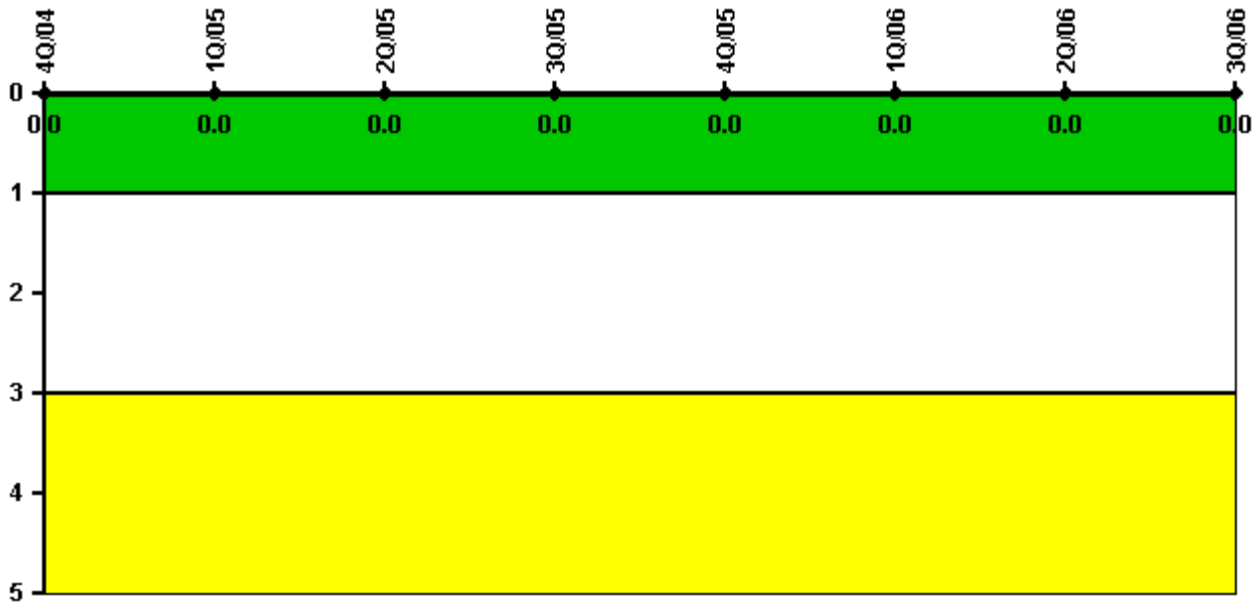
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
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/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
RETS/ODCM 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

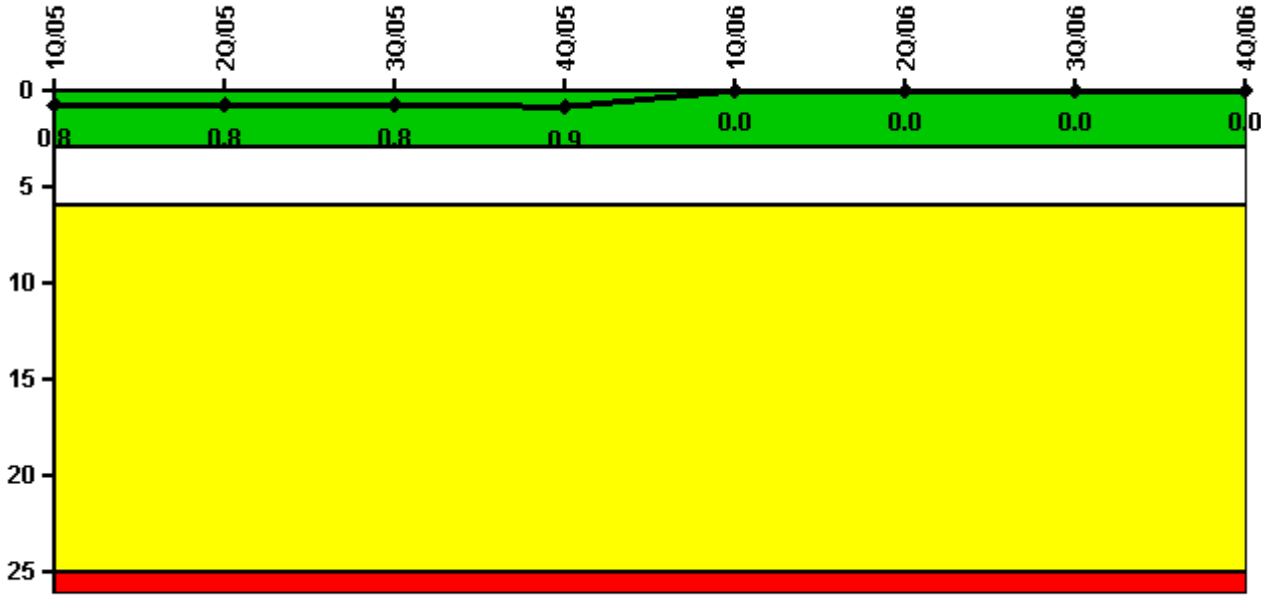
[Physical Protection](#) information not publicly available.

# Grand Gulf 1

## 4Q/2006 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



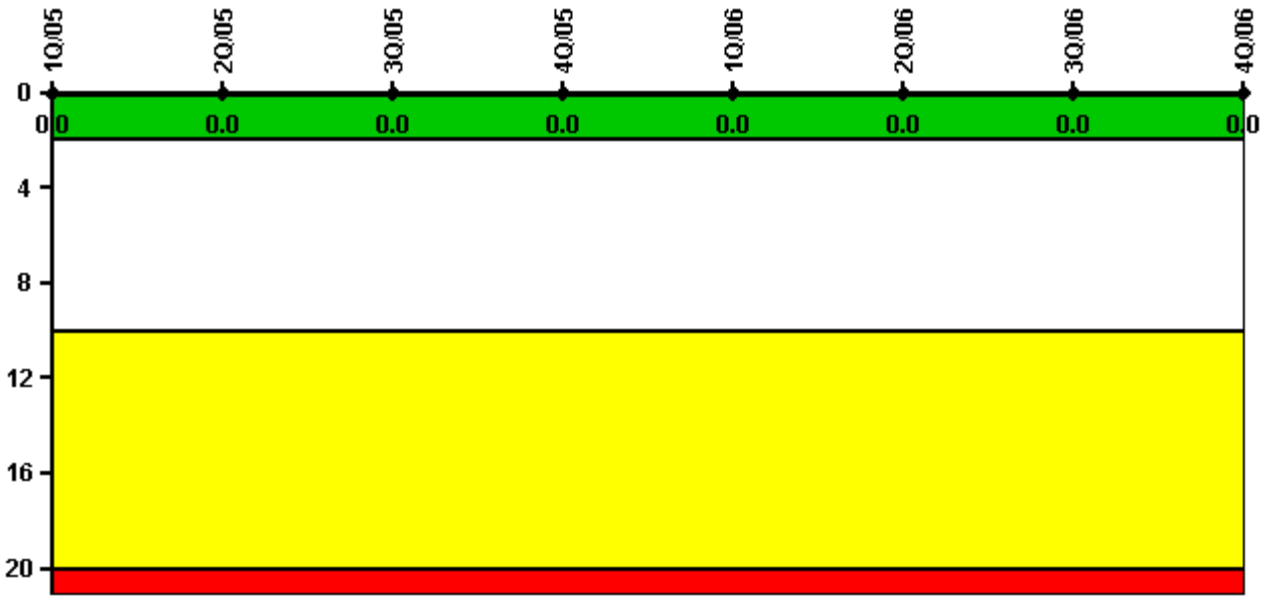
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2121.9	2183.0	1916.0	1831.5	2160.0	2016.3	2208.0	2209.0
<b>Indicator value</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

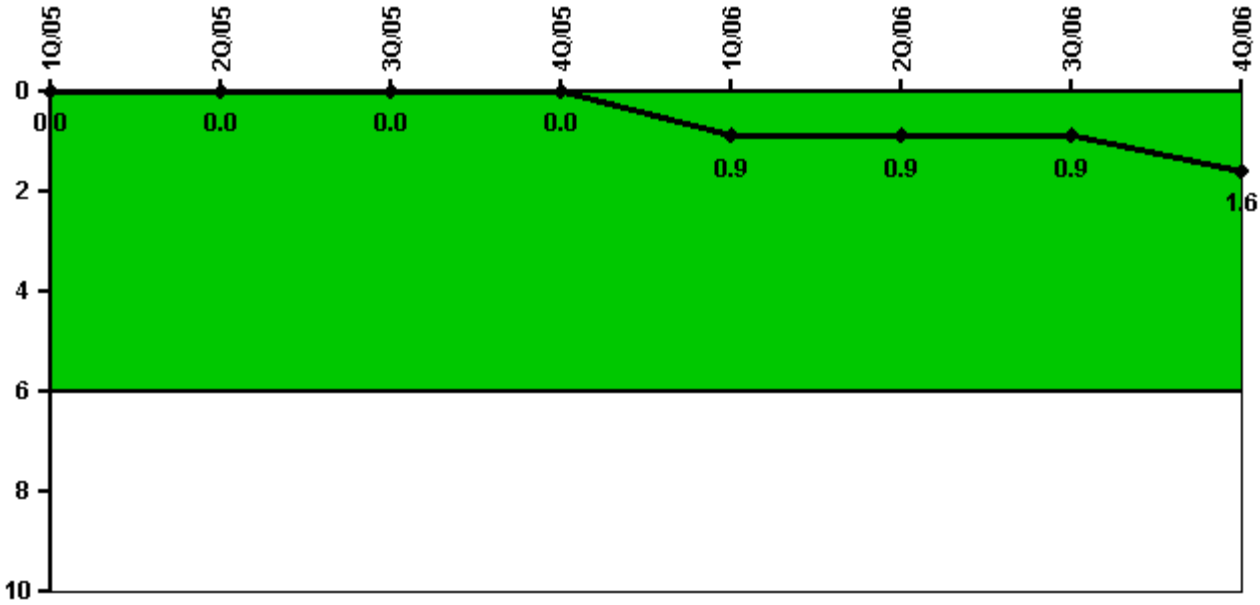
#### Notes

Scrams with Loss of Normal Heat Removal	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Scrams	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



### Unplanned Power Changes per 7000 Critical Hrs



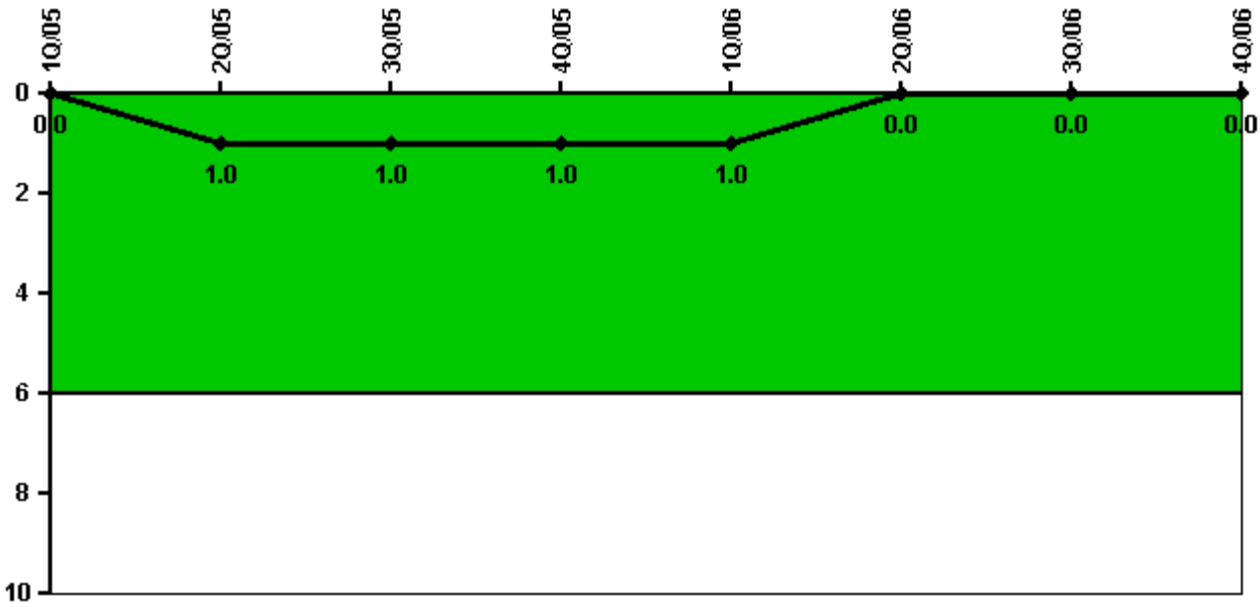
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	0	0	0	1.0	0	0	1.0
Critical hours	2121.9	2183.0	1916.0	1831.5	2160.0	2016.3	2208.0	2209.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.6</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



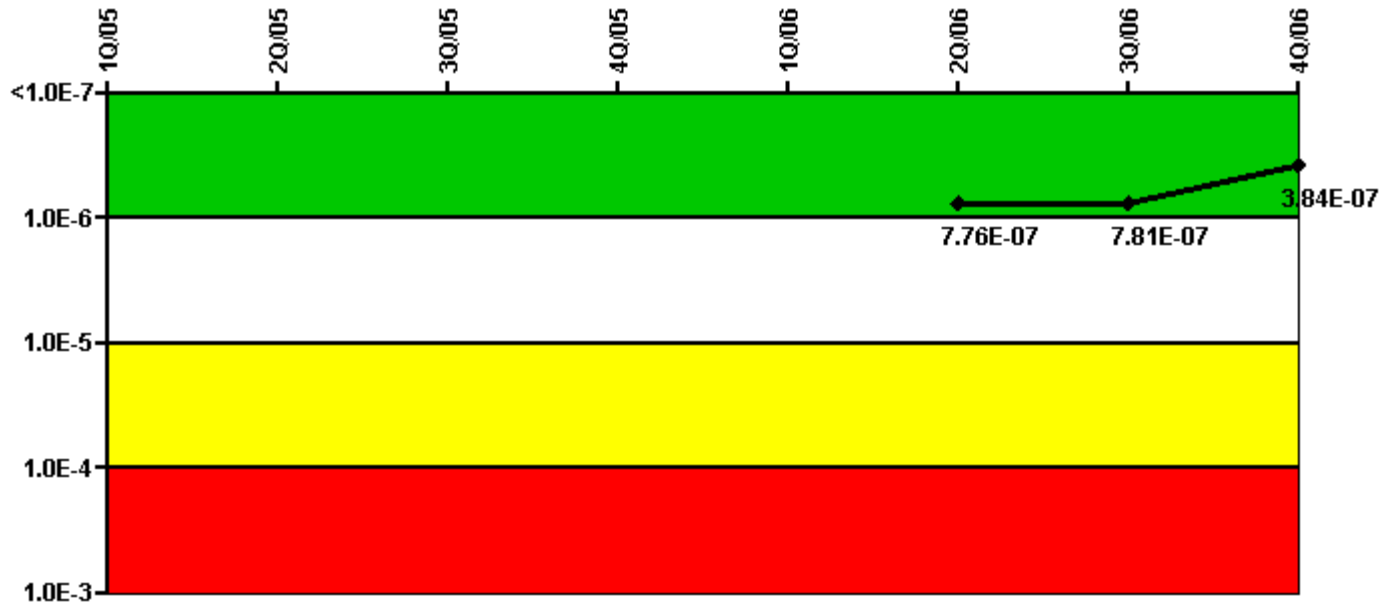
Thresholds: White > 6.0

#### Notes

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

Licensee Comments: none

### Mitigating Systems Performance Index, Emergency AC Power System



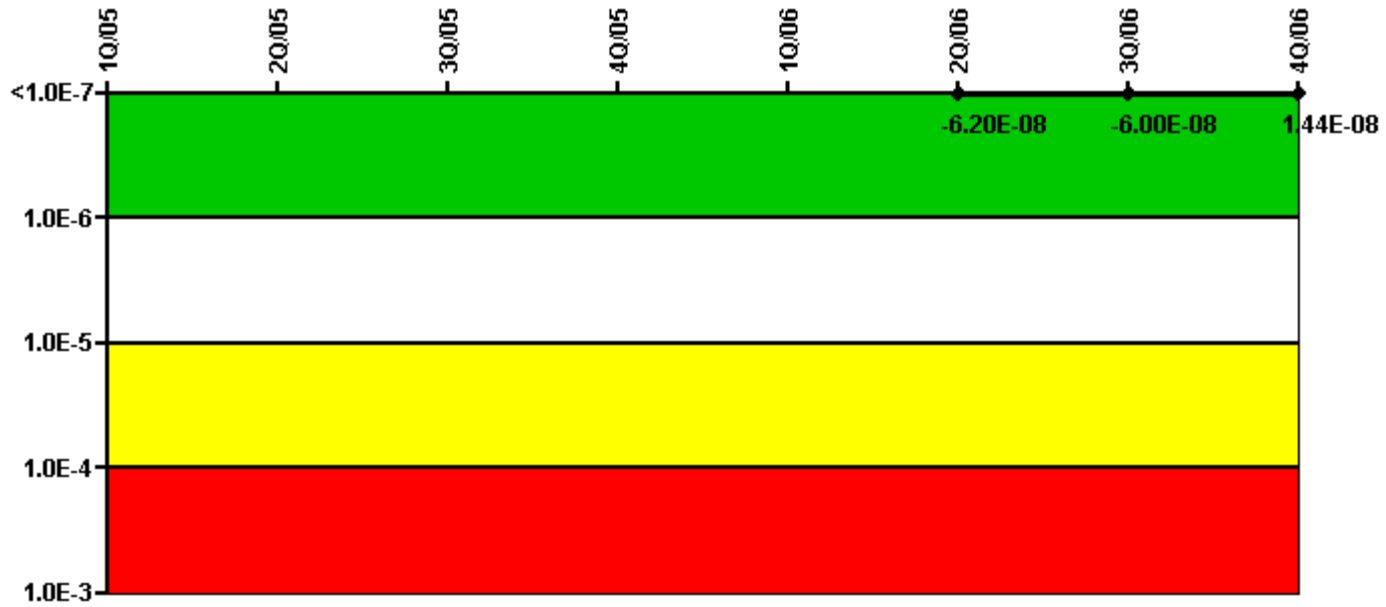
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI ( $\Delta$ CDF)						5.60E-08	4.10E-08	4.40E-08
URI ( $\Delta$ CDF)						7.20E-07	7.40E-07	3.40E-07
PLE						NO	NO	NO
<b>Indicator value</b>						<b>7.76E-07</b>	<b>7.81E-07</b>	<b>3.84E-07</b>

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



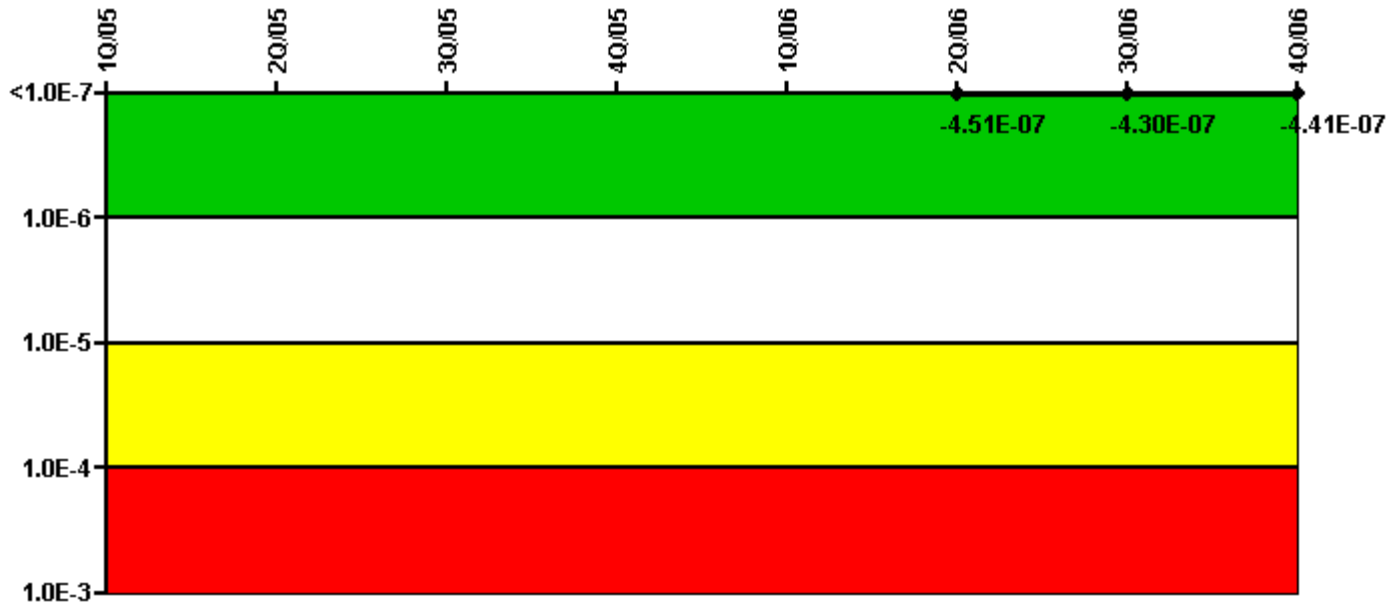
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

**Notes**

Mitigating Systems Performance Index, High Pressure Injection System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-3.40E-08	-3.40E-08	-6.00E-10
URI (ΔCDF)						-2.80E-08	-2.60E-08	1.50E-08
PLE						NO	NO	NO
<b>Indicator value</b>						<b>-6.20E-08</b>	<b>-6.00E-08</b>	<b>1.44E-08</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



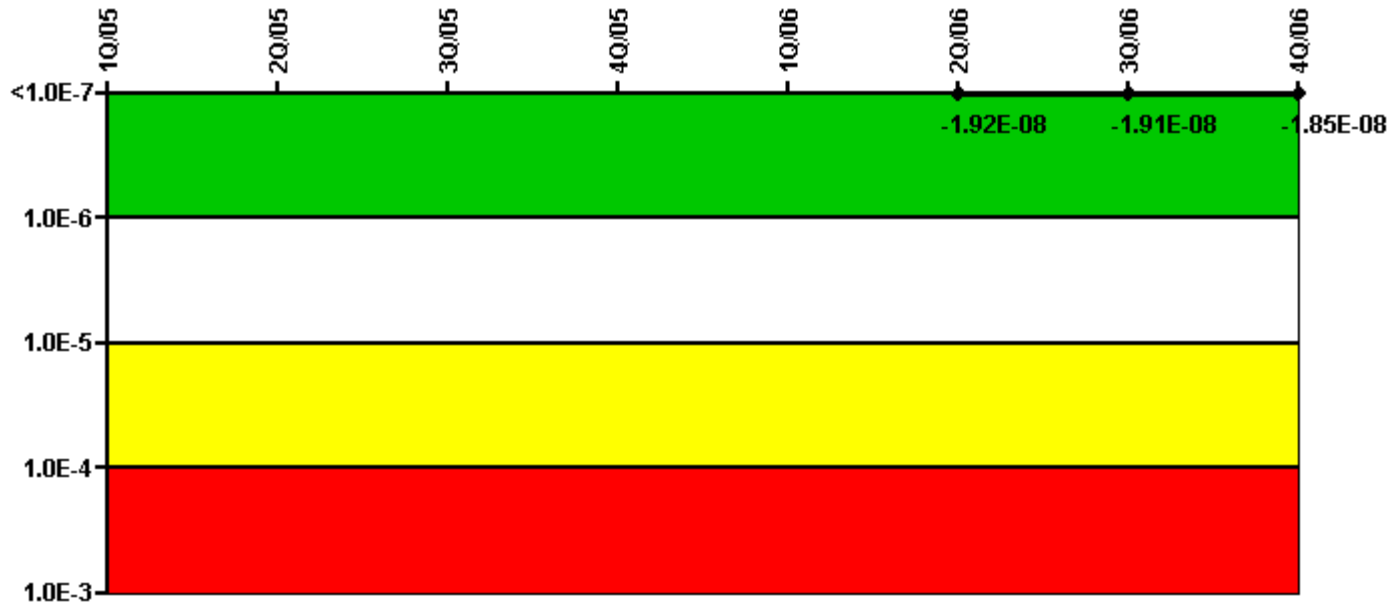
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI ( $\Delta$ CDF)						-5.10E-08	-3.00E-08	-4.10E-08
URI ( $\Delta$ CDF)						-4.00E-07	-4.00E-07	-4.00E-07
PLE						NO	NO	NO
Indicator value						-4.51E-07	-4.30E-07	-4.41E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



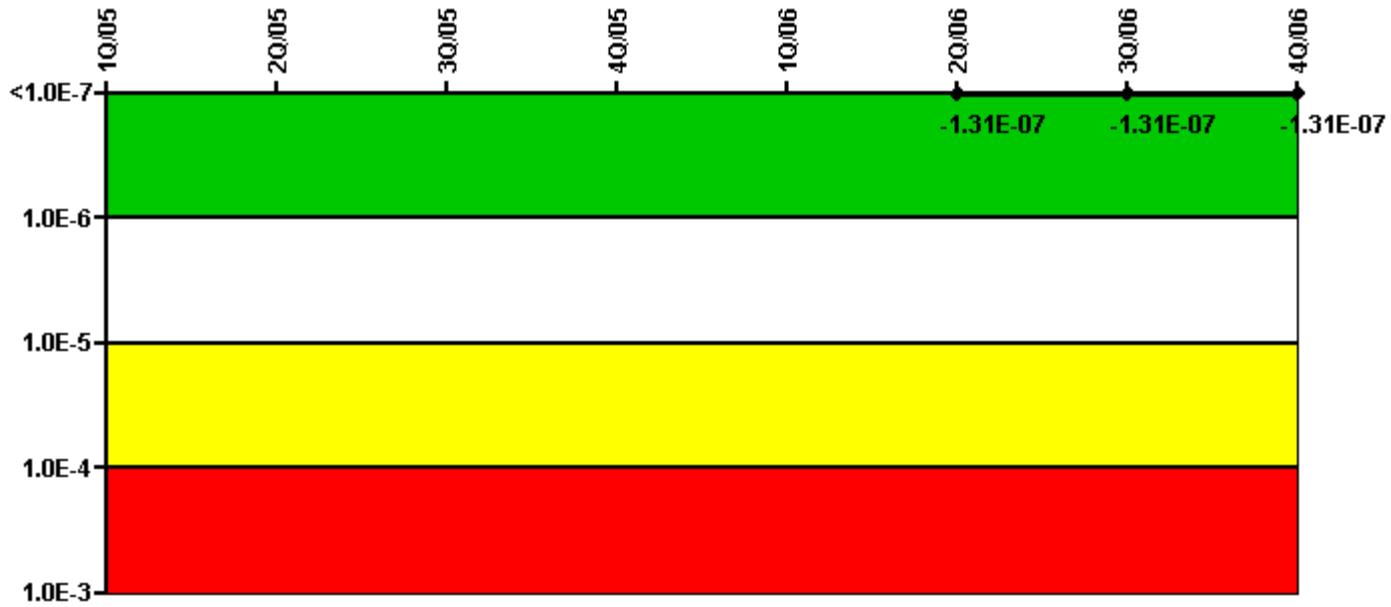
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI ( $\Delta$ CDF)						-8.20E-09	-8.10E-09	-8.50E-09
URI ( $\Delta$ CDF)						-1.10E-08	-1.10E-08	-1.00E-08
PLE						NO	NO	NO
Indicator value						-1.92E-08	-1.91E-08	-1.85E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



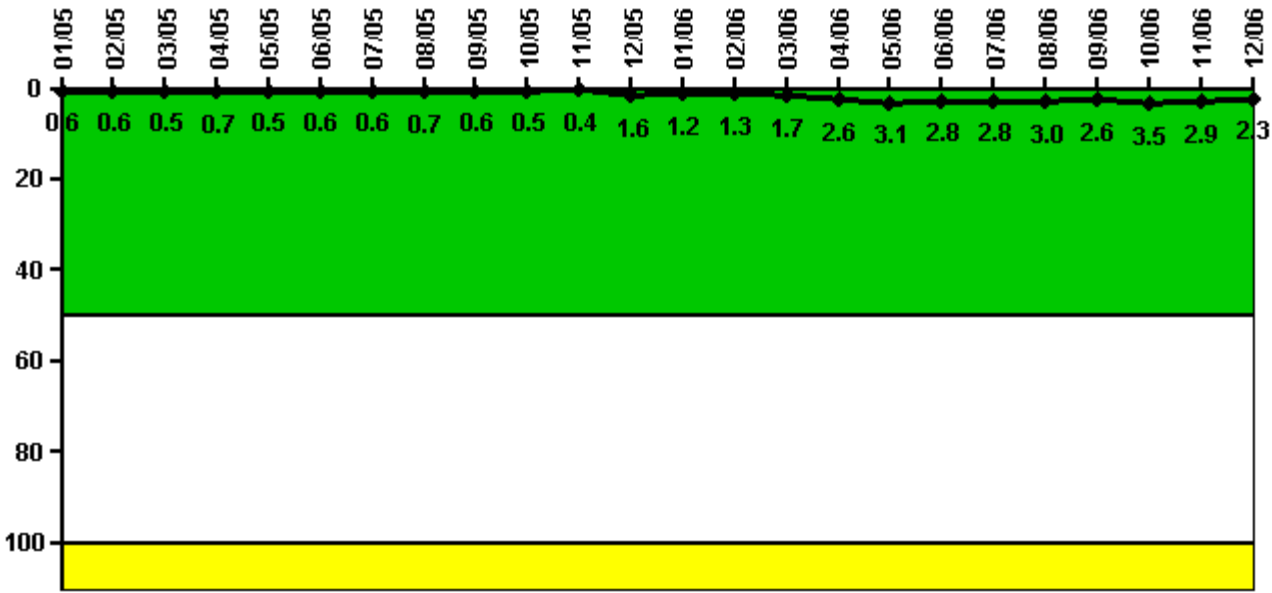
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-1.40E-09	-1.40E-09	-1.40E-09
URI (ΔCDF)						-1.30E-07	-1.30E-07	-1.30E-07
PLE						NO	NO	NO
<b>Indicator value</b>						<b>-1.31E-07</b>	<b>-1.31E-07</b>	<b>-1.31E-07</b>

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

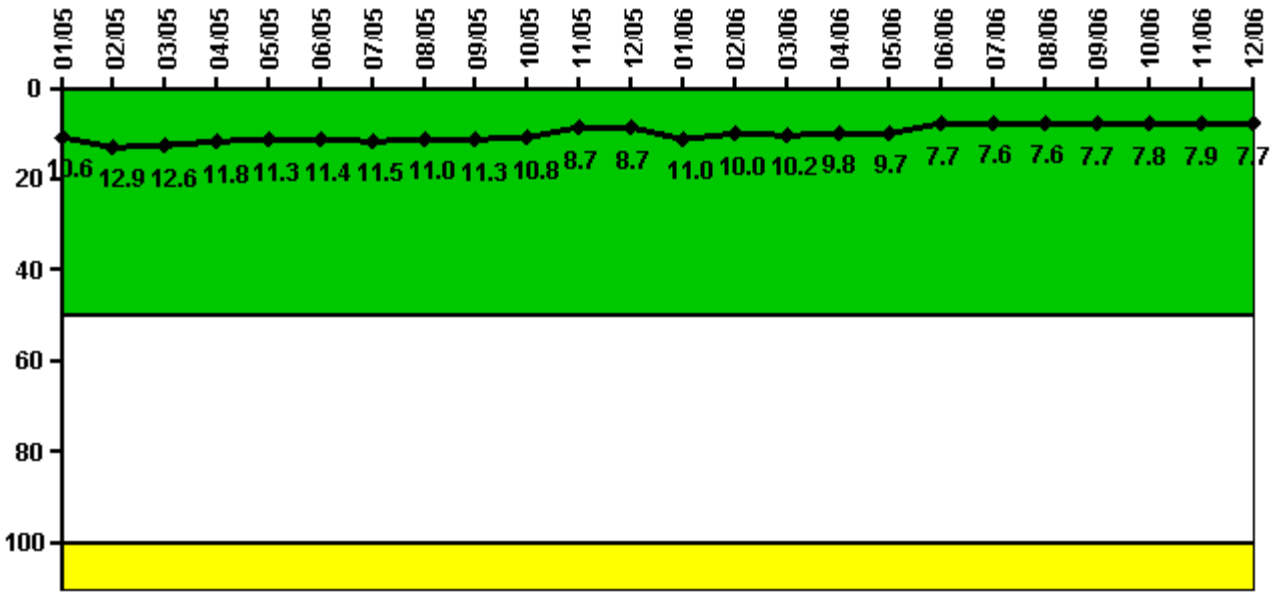
#### Notes

Reactor Coolant System Activity	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum activity	0.001160	0.001110	0.001040	0.001370	0.001060	0.001260	0.001130	0.001410	0.001190	0.000956	0.000722	0.003210
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	0.6	0.6	0.5	0.7	0.5	0.6	0.6	0.7	0.6	0.5	0.4	1.6
Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	0.002400	0.002500	0.003470	0.005100	0.006200	0.005600	0.005510	0.005900	0.005250	0.007000	0.005790	0.004680
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	1.2	1.3	1.7	2.6	3.1	2.8	2.8	3.0	2.6	3.5	2.9	2.3

Licensee Comments: none



### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

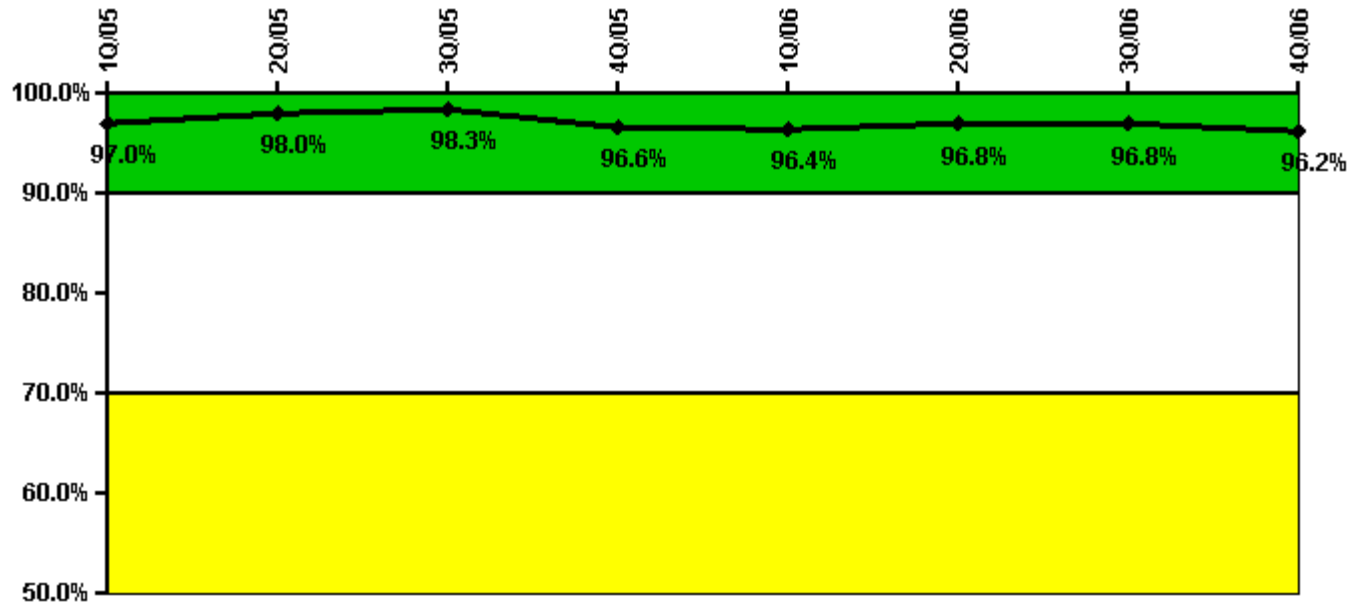
Reactor Coolant System Leakage	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum leakage	3.190	3.880	3.780	3.530	3.390	3.410	3.440	3.300	3.400	3.250	2.610	2.600
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	10.6	12.9	12.6	11.8	11.3	11.4	11.5	11.0	11.3	10.8	8.7	8.7

Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	3.300	2.990	3.050	2.950	2.920	2.300	2.280	2.290	2.320	2.350	2.380	2.310
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	11.0	10.0	10.2	9.8	9.7	7.7	7.6	7.6	7.7	7.8	7.9	7.7

Licensee Comments: none

### Drill/Exercise Performance



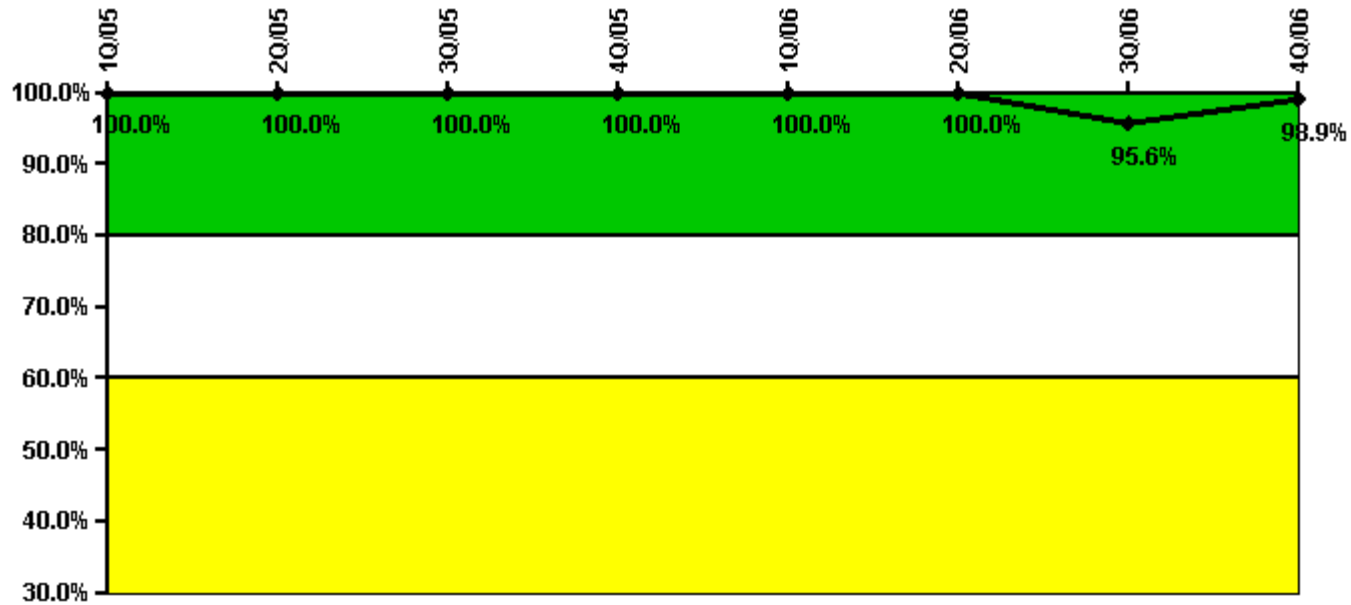
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful opportunities	33.0	36.0	12.0	7.0	19.0	4.0	21.0	43.0
Total opportunities	34.0	36.0	12.0	10.0	20.0	4.0	21.0	45.0
<b>Indicator value</b>	<b>97.0%</b>	<b>98.0%</b>	<b>98.3%</b>	<b>96.6%</b>	<b>96.4%</b>	<b>96.8%</b>	<b>96.8%</b>	<b>96.2%</b>

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

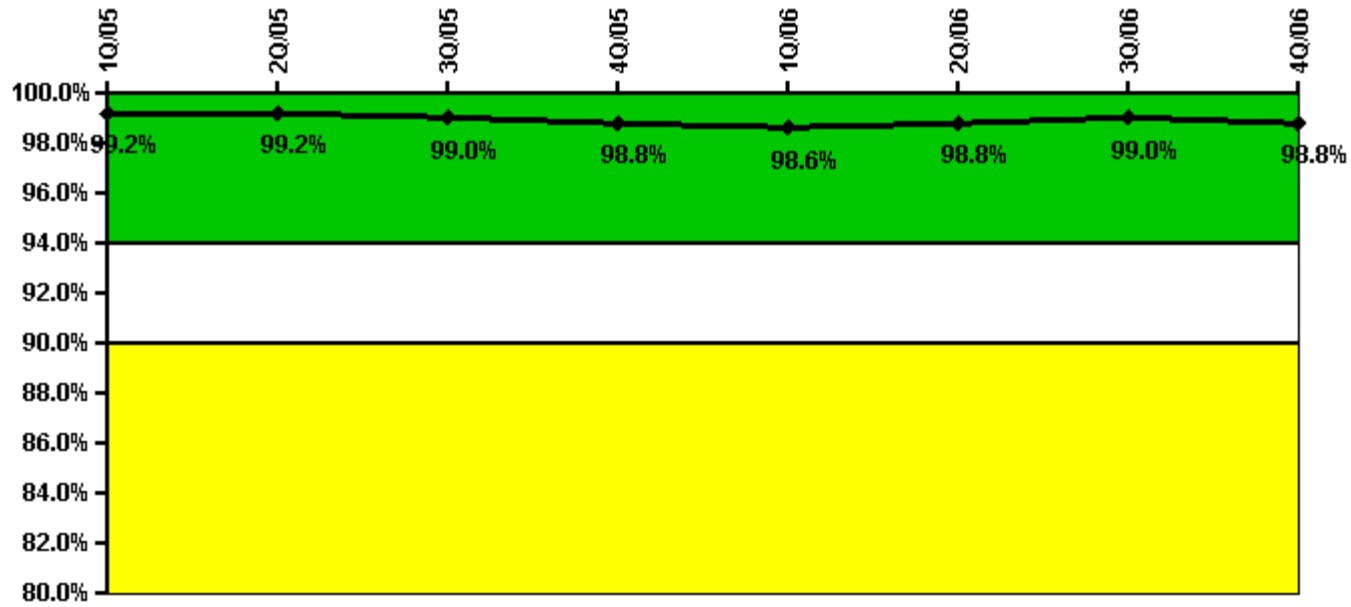
#### Notes

ERO Drill Participation	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Participating Key personnel	83.0	81.0	95.0	92.0	92.0	86.0	86.0	91.0
Total Key personnel	83.0	81.0	95.0	92.0	92.0	86.0	90.0	92.0
<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>95.6%</b>	<b>98.9%</b>

Licensee Comments:

3Q/06: Corrected to reflect one more ERO position (in addition to the three originally reported) who was added to the ERO in 3rd Quarter 2006 but did not participate in a drill since being assigned to their ERO position.

### Alert & Notification System



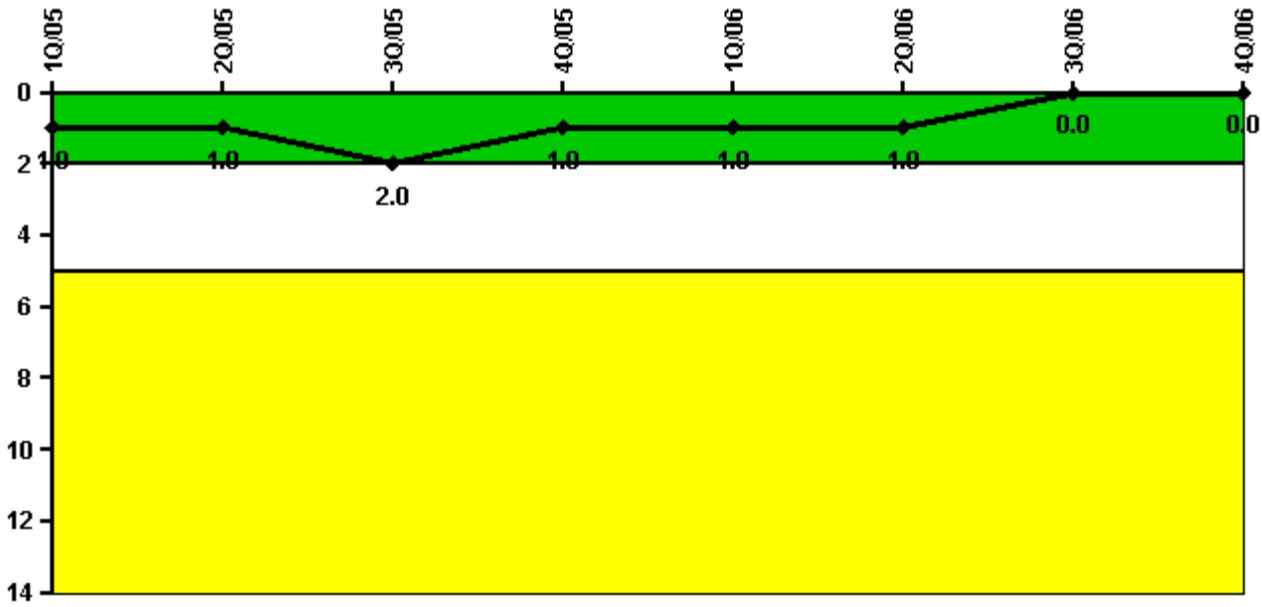
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful siren-tests	129	128	126	127	128	129	127	126
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	99.2%	99.2%	99.0%	98.8%	98.6%	98.8%	99.0%	98.8%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



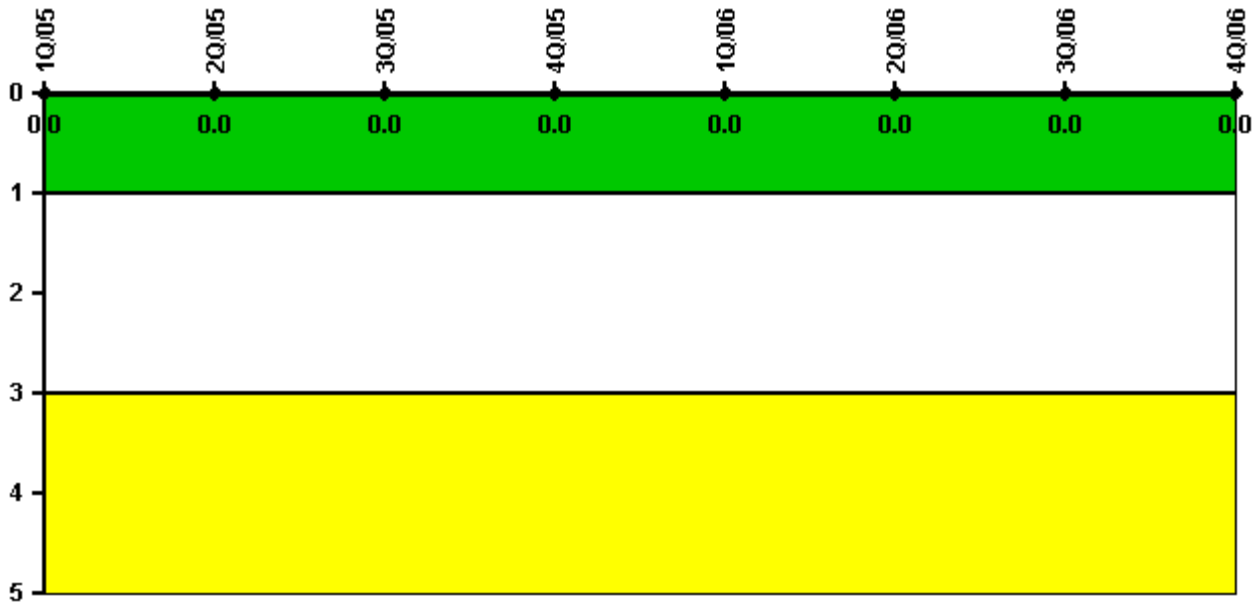
Thresholds: White > 2.0 Yellow > 5.0

**Notes**

Occupational Exposure Control Effectiveness	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
High radiation area occurrences	0	0	1	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>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</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	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
RETS/ODCM 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

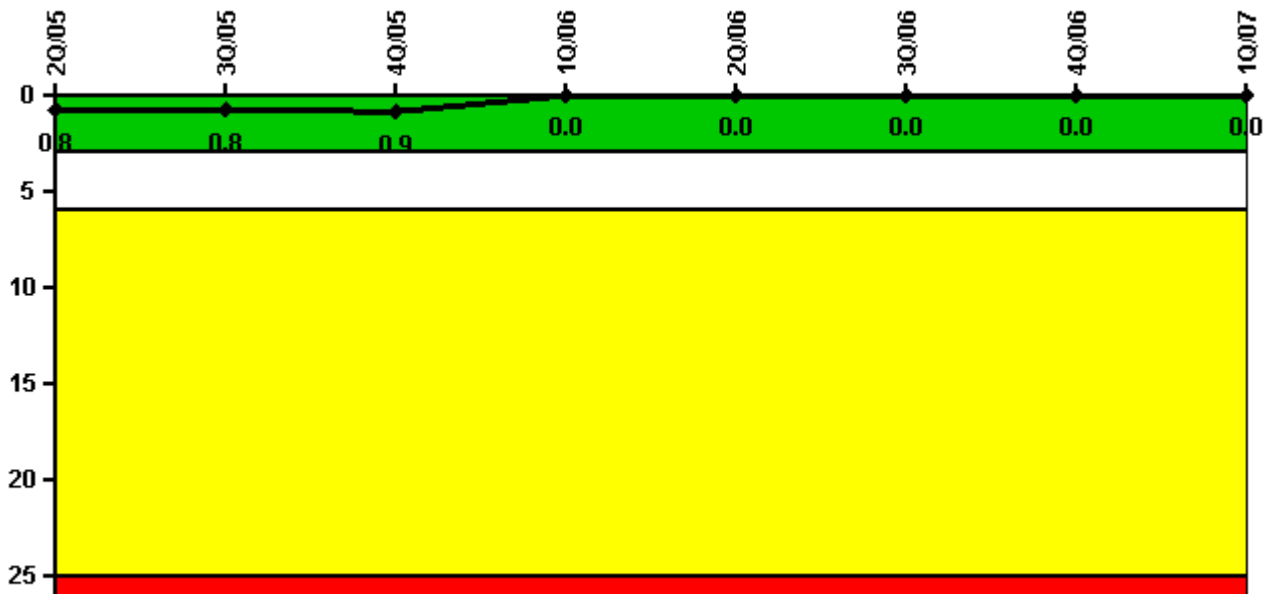
[Physical Protection](#) information not publicly available.

# Grand Gulf 1

## 1Q/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

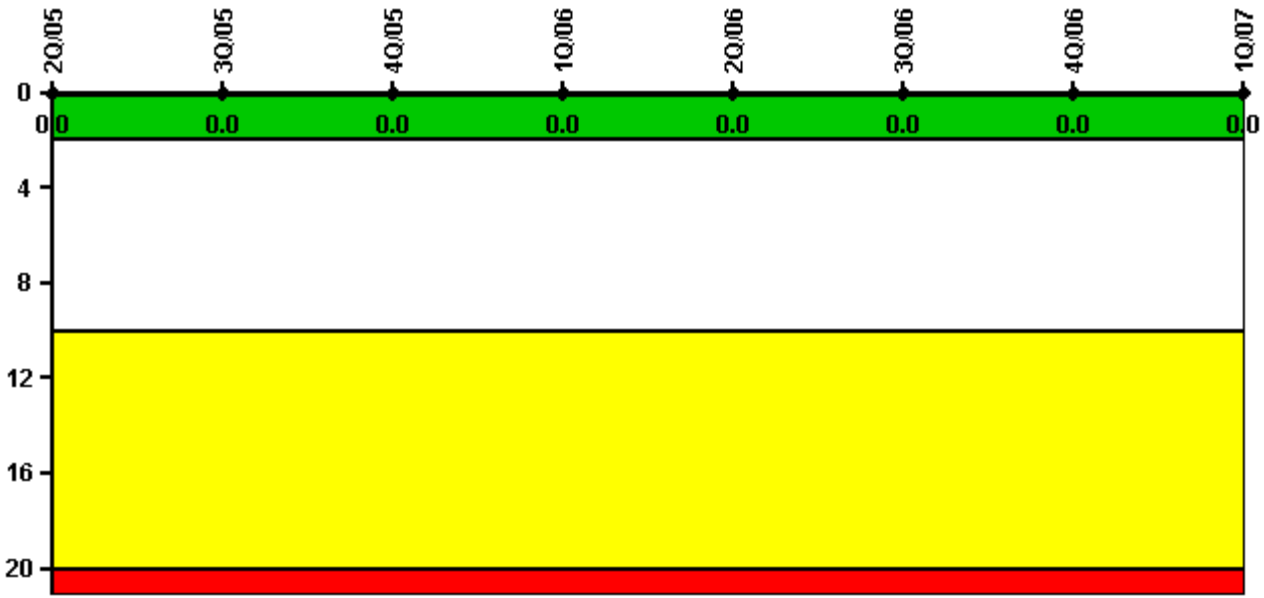
Unplanned Scrams per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	1916.0	1831.5	2160.0	2016.3	2208.0	2209.0	1843.0
<b>Indicator value</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments:

1Q/07: RF15 commenced March 18, 2007, 2000 hrs.

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## Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

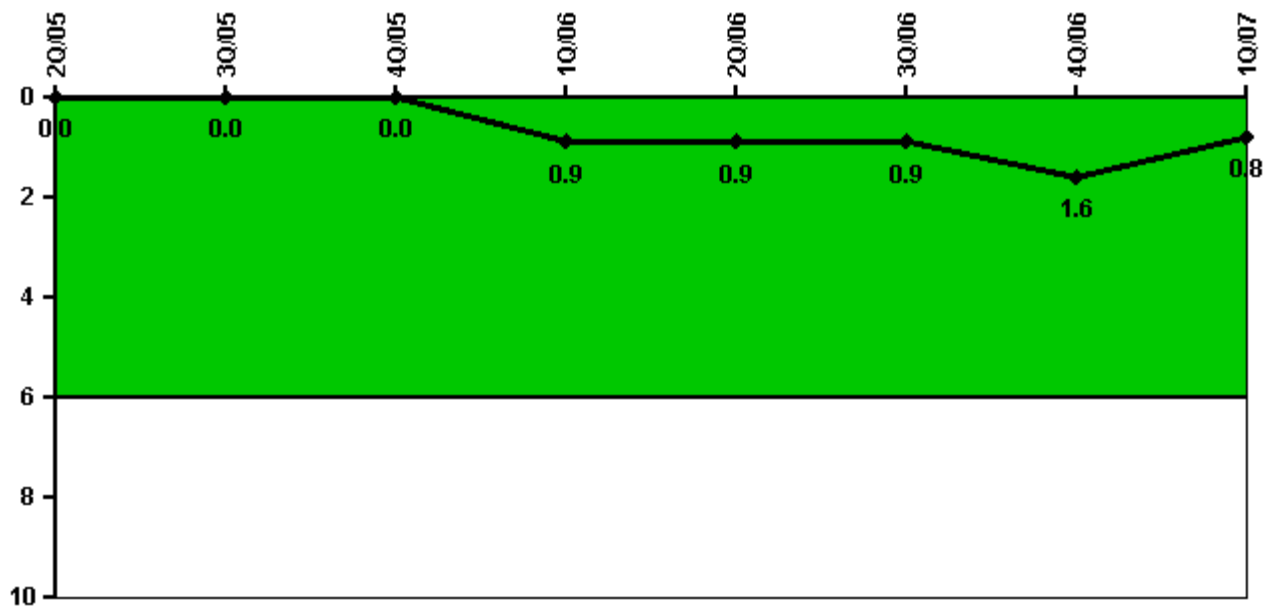
### Notes

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



## Unplanned Power Changes per 7000 Critical Hrs



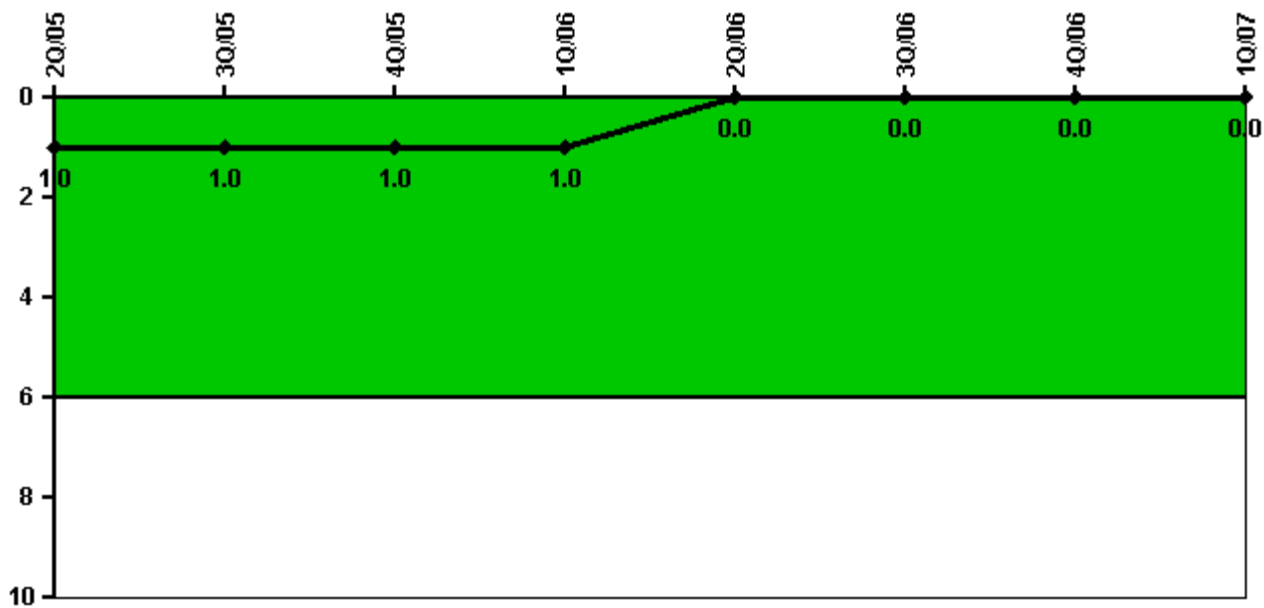
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	0	0	0	1.0	0	0	1.0	0
Critical hours	2183.0	1916.0	1831.5	2160.0	2016.3	2208.0	2209.0	1843.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>0.8</b>

Licensee Comments: none

## Safety System Functional Failures (BWR)



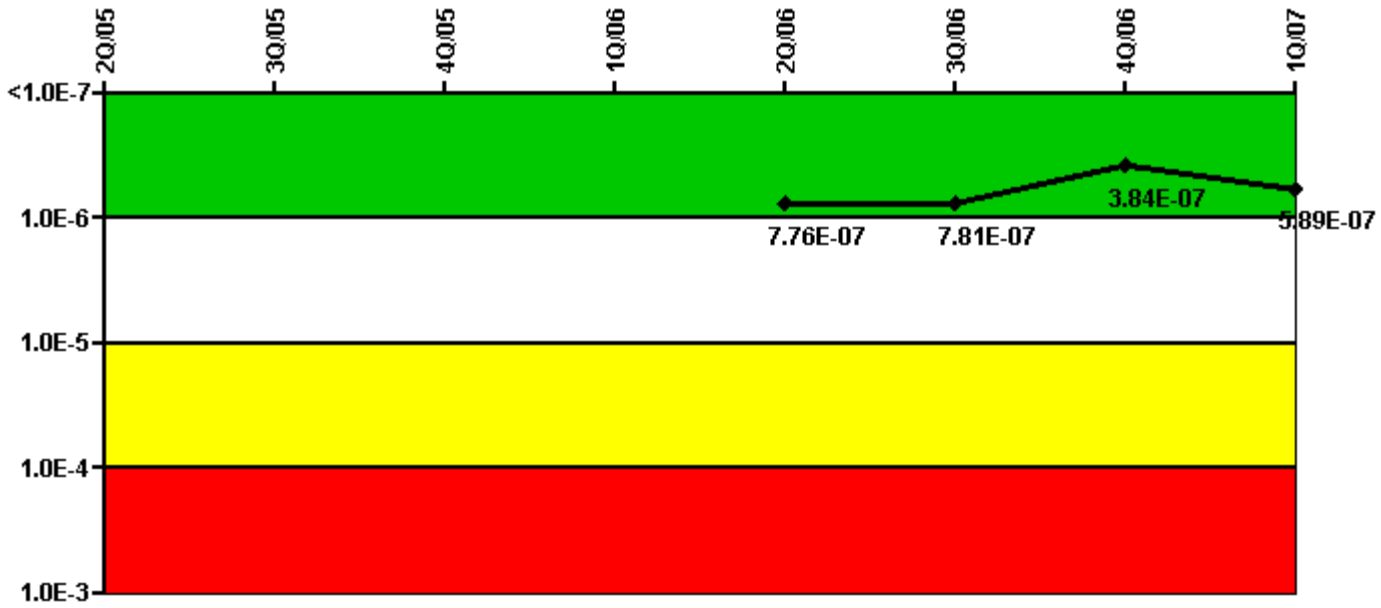
Thresholds: White > 6.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



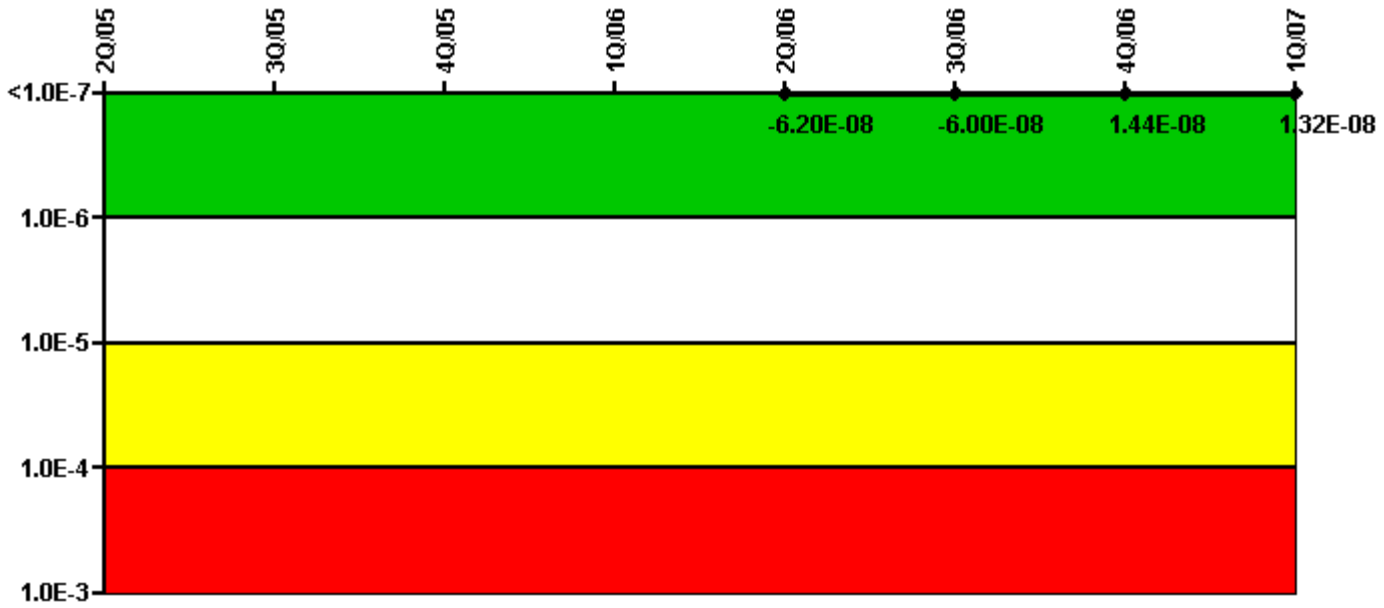
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI ( $\Delta$ CDF)					5.60E-08	4.10E-08	4.40E-08	5.90E-08
URI ( $\Delta$ CDF)					7.20E-07	7.40E-07	3.40E-07	5.30E-07
PLE					NO	NO	NO	NO
Indicator value					7.76E-07	7.81E-07	3.84E-07	5.89E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



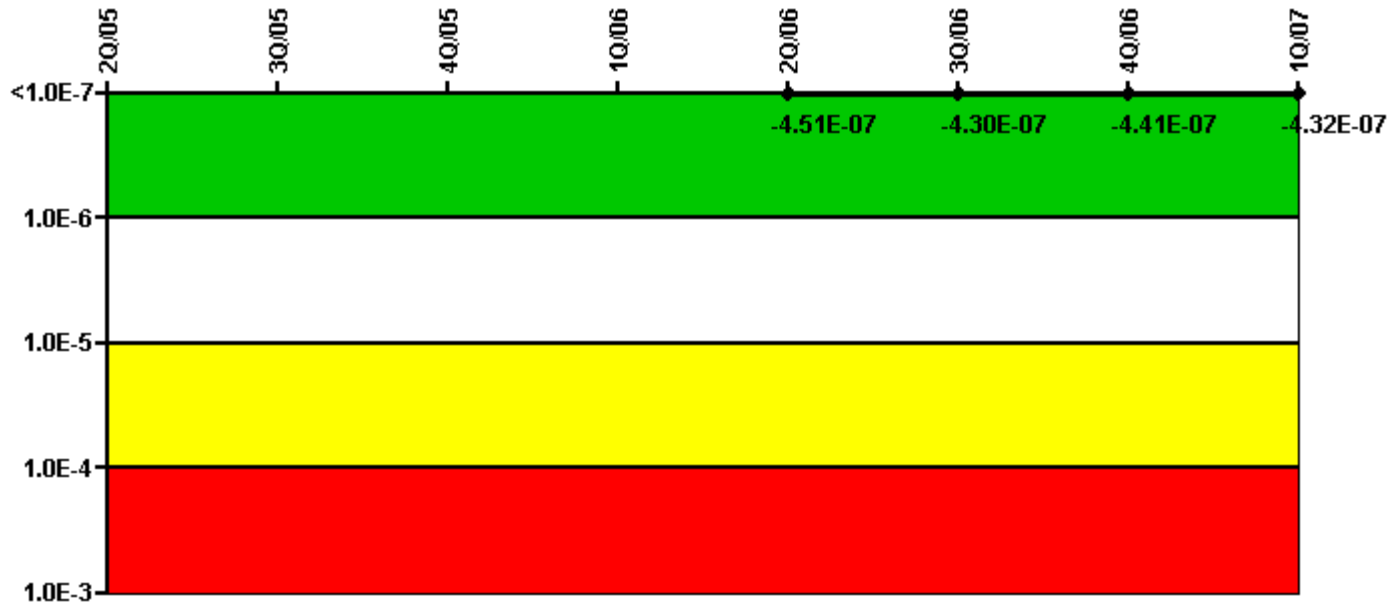
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					-3.40E-08	-3.40E-08	-6.00E-10	5.60E-09
URI (ΔCDF)					-2.80E-08	-2.60E-08	1.50E-08	7.60E-09
PLE					NO	NO	NO	NO
<b>Indicator value</b>					<b>-6.20E-08</b>	<b>-6.00E-08</b>	<b>1.44E-08</b>	<b>1.32E-08</b>

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



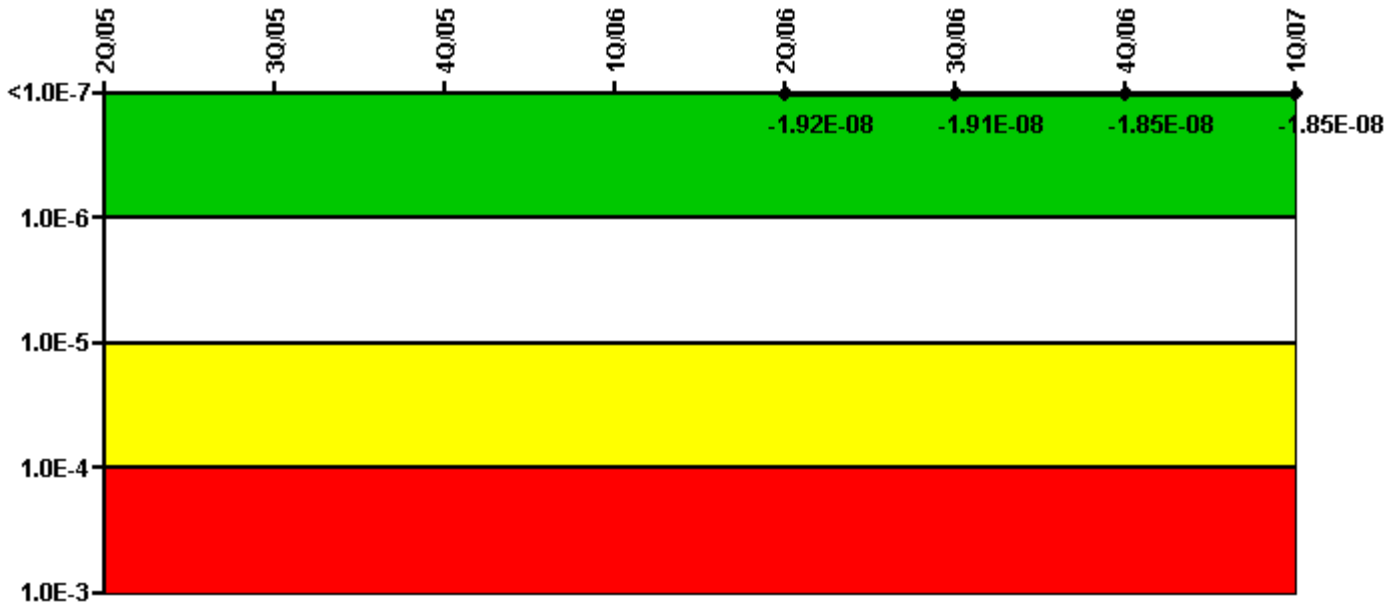
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI ( $\Delta$ CDF)					-5.10E-08	-3.00E-08	-4.10E-08	-4.20E-08
URI ( $\Delta$ CDF)					-4.00E-07	-4.00E-07	-4.00E-07	-3.90E-07
PLE					NO	NO	NO	NO
Indicator value					-4.51E-07	-4.30E-07	-4.41E-07	-4.32E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



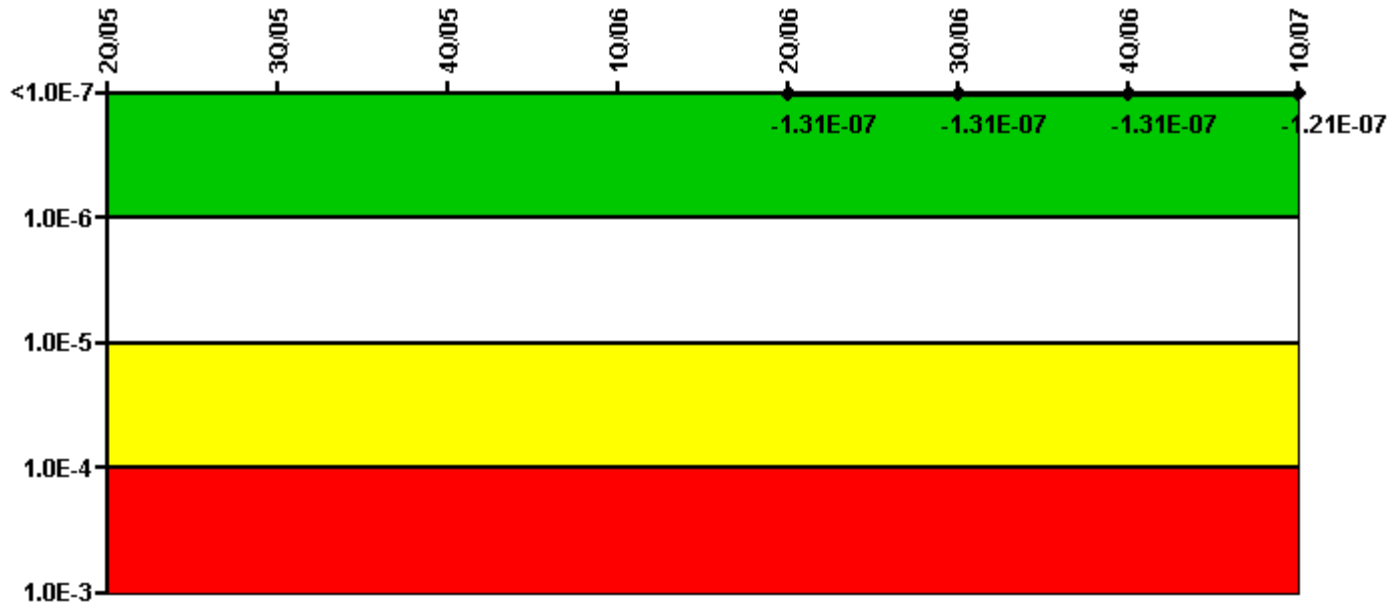
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI ( $\Delta$ CDF)					-8.20E-09	-8.10E-09	-8.50E-09	-8.50E-09
URI ( $\Delta$ CDF)					-1.10E-08	-1.10E-08	-1.00E-08	-1.00E-08
PLE					NO	NO	NO	NO
Indicator value					-1.92E-08	-1.91E-08	-1.85E-08	-1.85E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



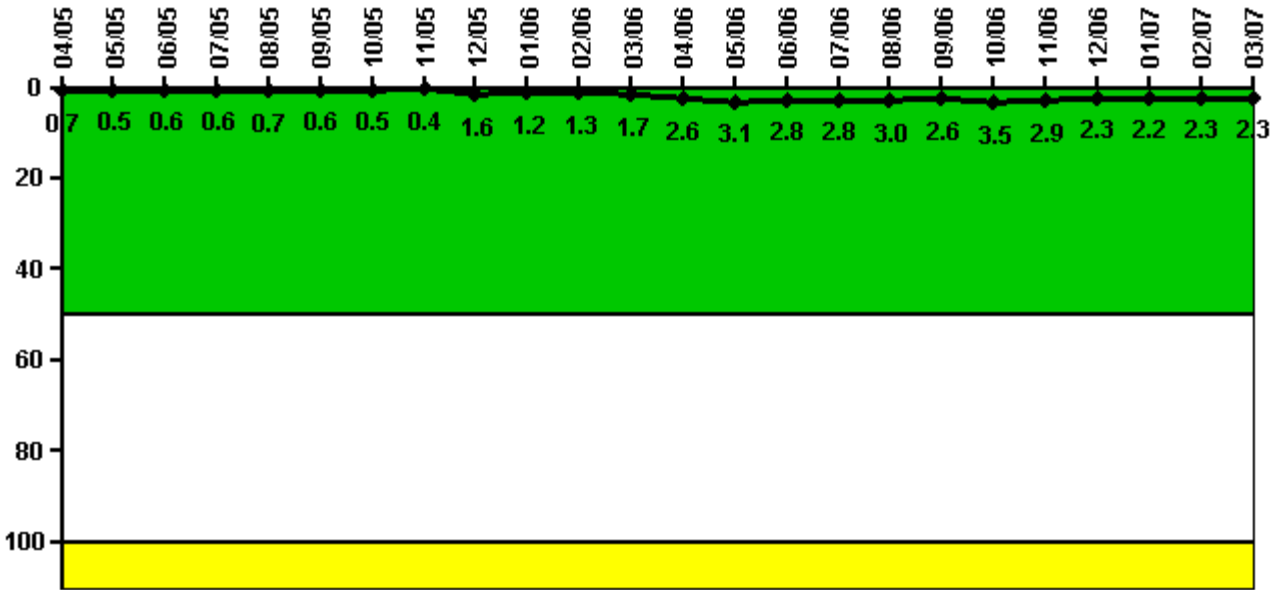
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09
URI (ΔCDF)					-1.30E-07	-1.30E-07	-1.30E-07	-1.20E-07
PLE					NO	NO	NO	NO
Indicator value					-1.31E-07	-1.31E-07	-1.31E-07	-1.21E-07

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

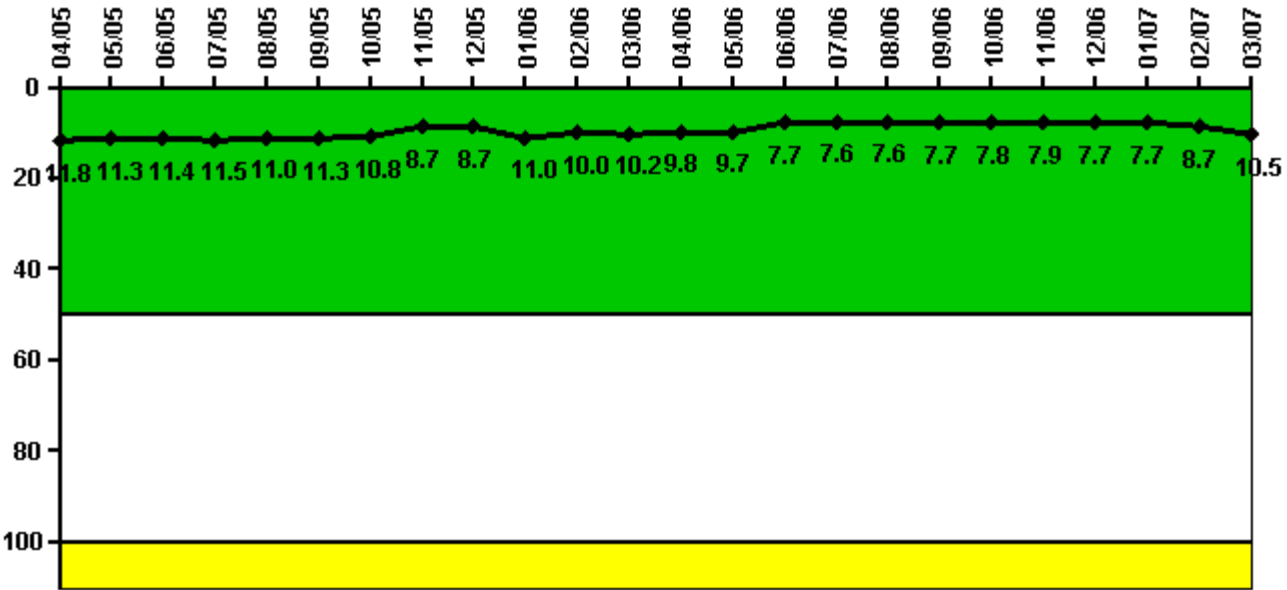
## Notes

Reactor Coolant System Activity	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum activity	0.001370	0.001060	0.001260	0.001130	0.001410	0.001190	0.000956	0.000722	0.003210	0.002400	0.002500	0.003470
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
<b>Indicator value</b>	<b>0.7</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>	<b>0.5</b>	<b>0.4</b>	<b>1.6</b>	<b>1.2</b>	<b>1.3</b>	<b>1.7</b>
Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	0.005100	0.006200	0.005600	0.005510	0.005900	0.005250	0.007000	0.005790	0.004680	0.004440	0.004620	0.004590
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
<b>Indicator value</b>	<b>2.6</b>	<b>3.1</b>	<b>2.8</b>	<b>2.8</b>	<b>3.0</b>	<b>2.6</b>	<b>3.5</b>	<b>2.9</b>	<b>2.3</b>	<b>2.2</b>	<b>2.3</b>	<b>2.3</b>

Licensee Comments: none



# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

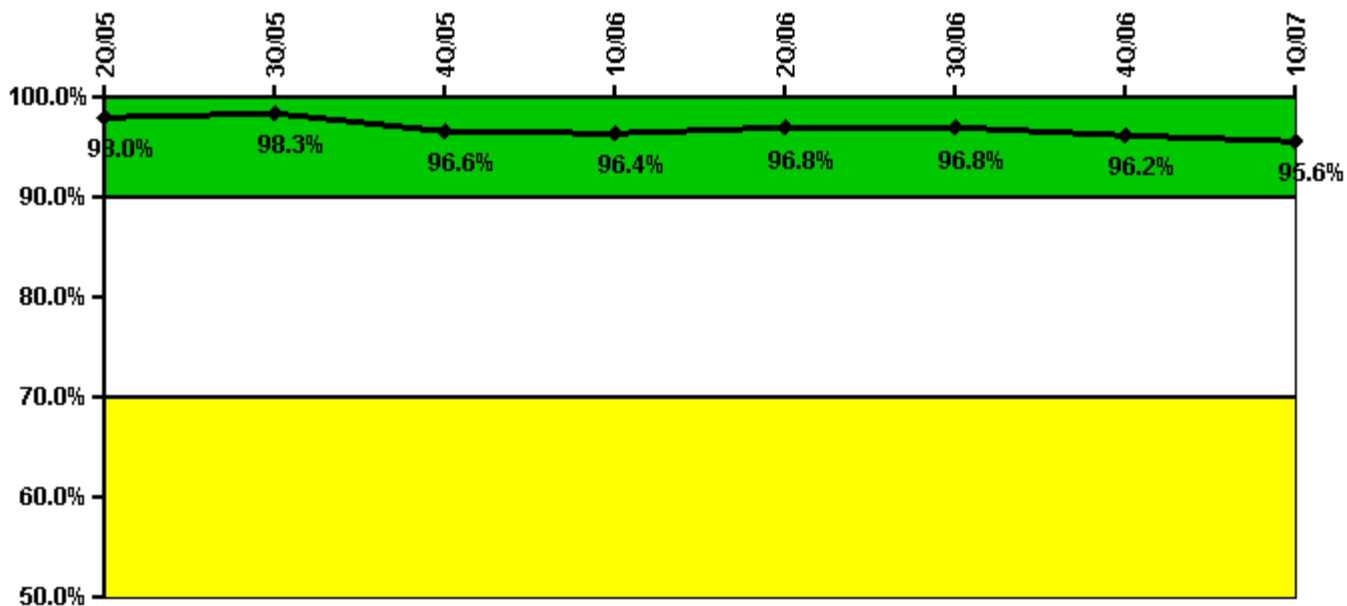
Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	3.530	3.390	3.410	3.440	3.300	3.400	3.250	2.610	2.600	3.300	2.990	3.050
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>11.8</b>	<b>11.3</b>	<b>11.4</b>	<b>11.5</b>	<b>11.0</b>	<b>11.3</b>	<b>10.8</b>	<b>8.7</b>	<b>8.7</b>	<b>11.0</b>	<b>10.0</b>	<b>10.2</b>

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	2.950	2.920	2.300	2.280	2.290	2.320	2.350	2.380	2.310	2.300	2.600	3.140
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>9.8</b>	<b>9.7</b>	<b>7.7</b>	<b>7.6</b>	<b>7.6</b>	<b>7.7</b>	<b>7.8</b>	<b>7.9</b>	<b>7.7</b>	<b>7.7</b>	<b>8.7</b>	<b>10.5</b>

Licensee Comments: none

## Drill/Exercise Performance



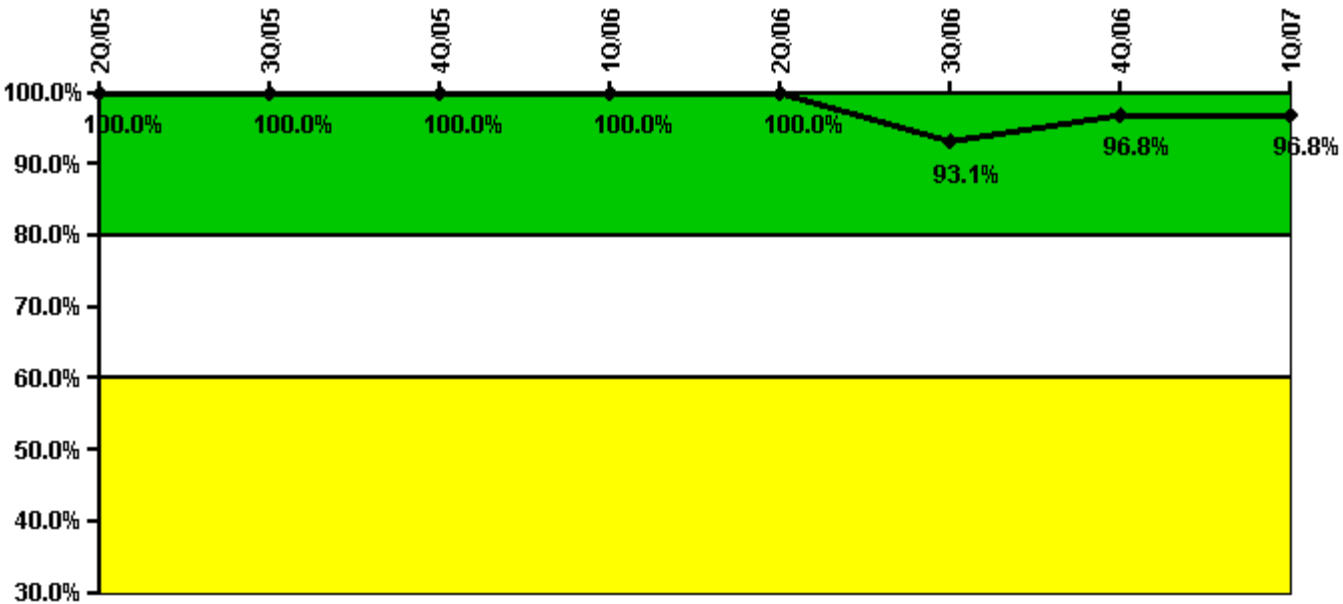
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	36.0	12.0	7.0	19.0	4.0	21.0	43.0	11.0
Total opportunities	36.0	12.0	10.0	20.0	4.0	21.0	45.0	12.0
<b>Indicator value</b>	<b>98.0%</b>	<b>98.3%</b>	<b>96.6%</b>	<b>96.4%</b>	<b>96.8%</b>	<b>96.8%</b>	<b>96.2%</b>	<b>95.6%</b>

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

### Notes

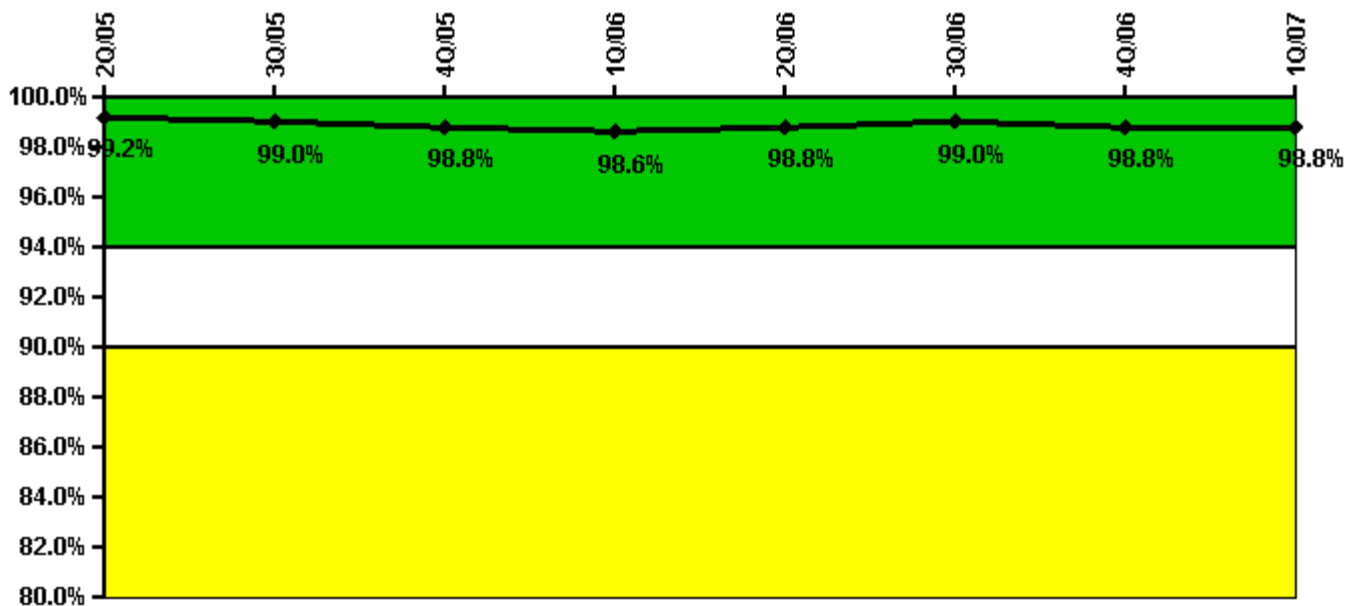
ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	81.0	95.0	92.0	92.0	86.0	81.0	90.0	90.0
Total Key personnel	81.0	95.0	92.0	92.0	86.0	87.0	93.0	93.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>93.1%</b>	<b>96.8%</b>	<b>96.8%</b>

Licensee Comments:

4Q/06: This revision corrects inaccuracies in the original data provided for the 3rd and 4th quarters of 2006. The revision included a correction in the number of personnel assigned to the ERO at the end of the quarter and a correction in the number of those personnel participating in a drill within the previous 8 quarters.

3Q/06: This revision corrects inaccuracies in the original data. The revision consists of a correction in the number of personnel assigned to the ERO at the end of the quarter (removal of 3 ERO personnel not included in original data).

# Alert & Notification System



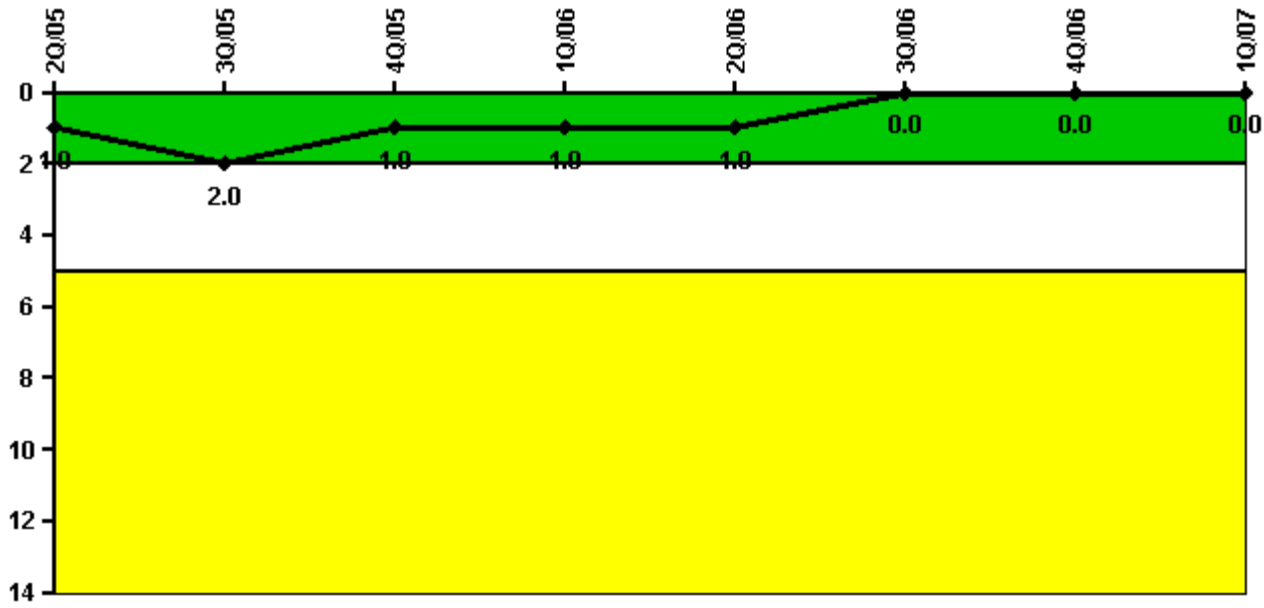
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	128	126	127	128	129	127	126	128
Total sirens-tests	129	129	129	129	129	129	129	129
<b>Indicator value</b>	<b>99.2%</b>	<b>99.0%</b>	<b>98.8%</b>	<b>98.6%</b>	<b>98.8%</b>	<b>99.0%</b>	<b>98.8%</b>	<b>98.8%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



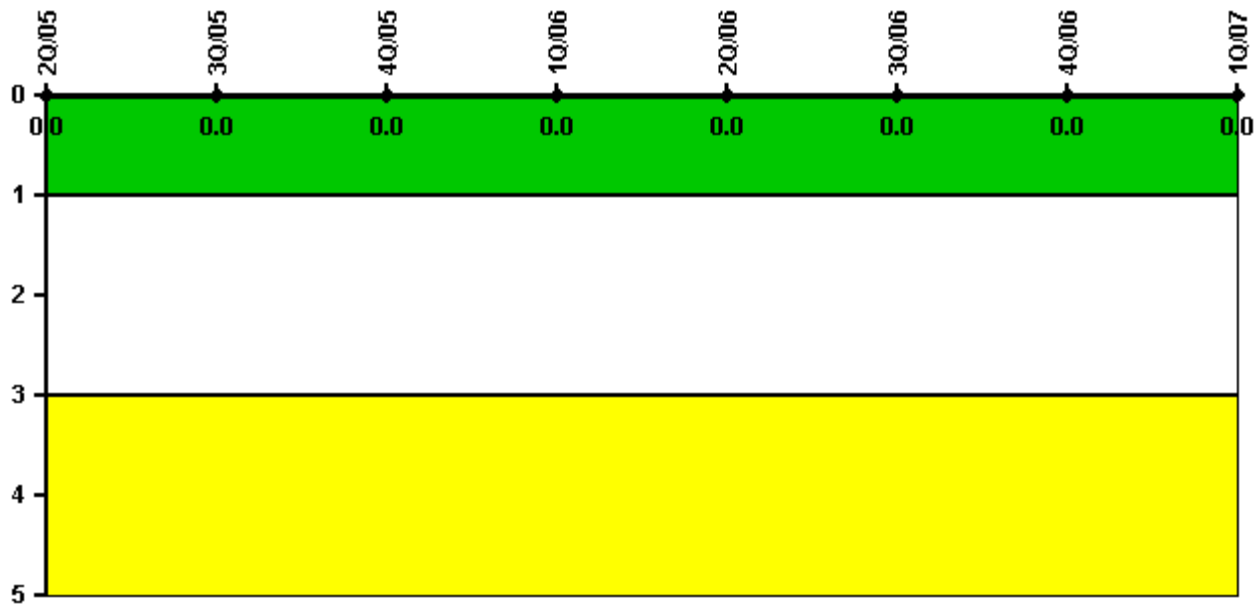
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
High radiation area occurrences	0	1	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>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</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/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
RETS/ODCM 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

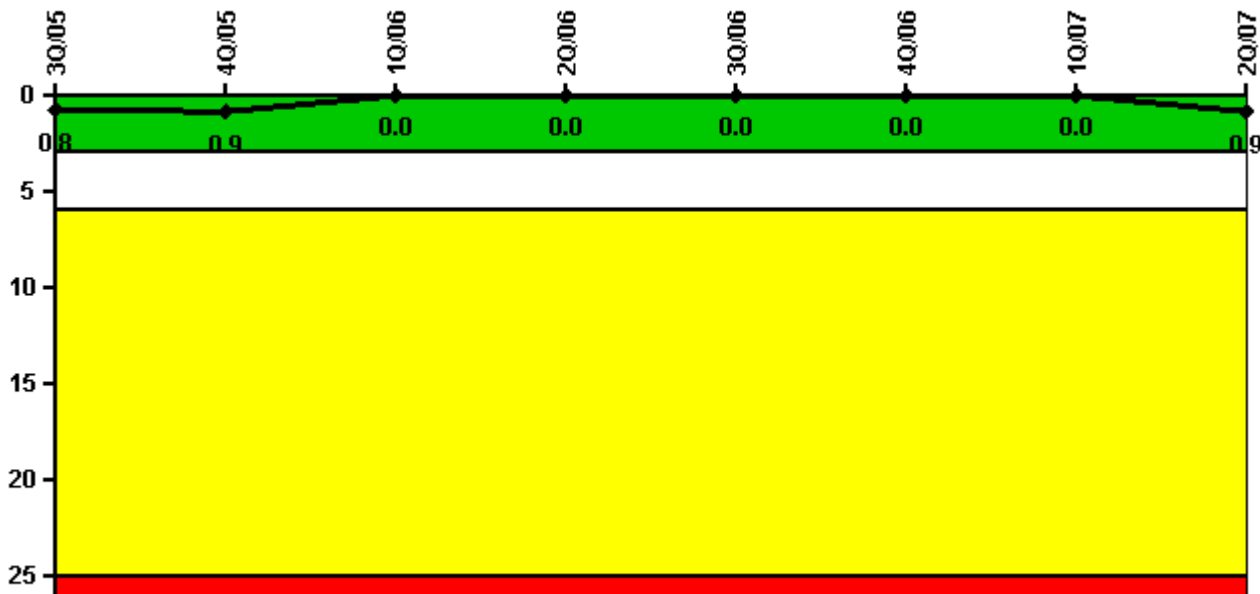
[Physical Protection](#) information not publicly available.

# Grand Gulf 1

## 2Q/2007 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



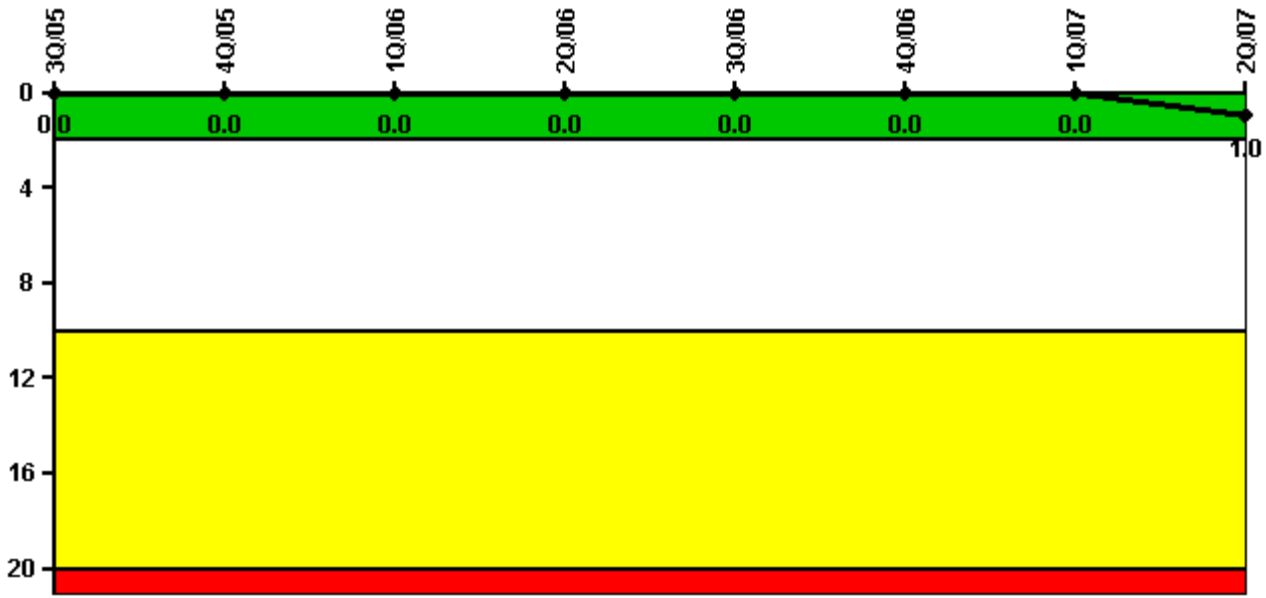
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	0	0	0	0	0	0	0	1.0
Critical hours	1916.0	1831.5	2160.0	2016.3	2208.0	2209.0	1843.0	1817.7
<b>Indicator value</b>	<b>0.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>

Licensee Comments: none

## Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

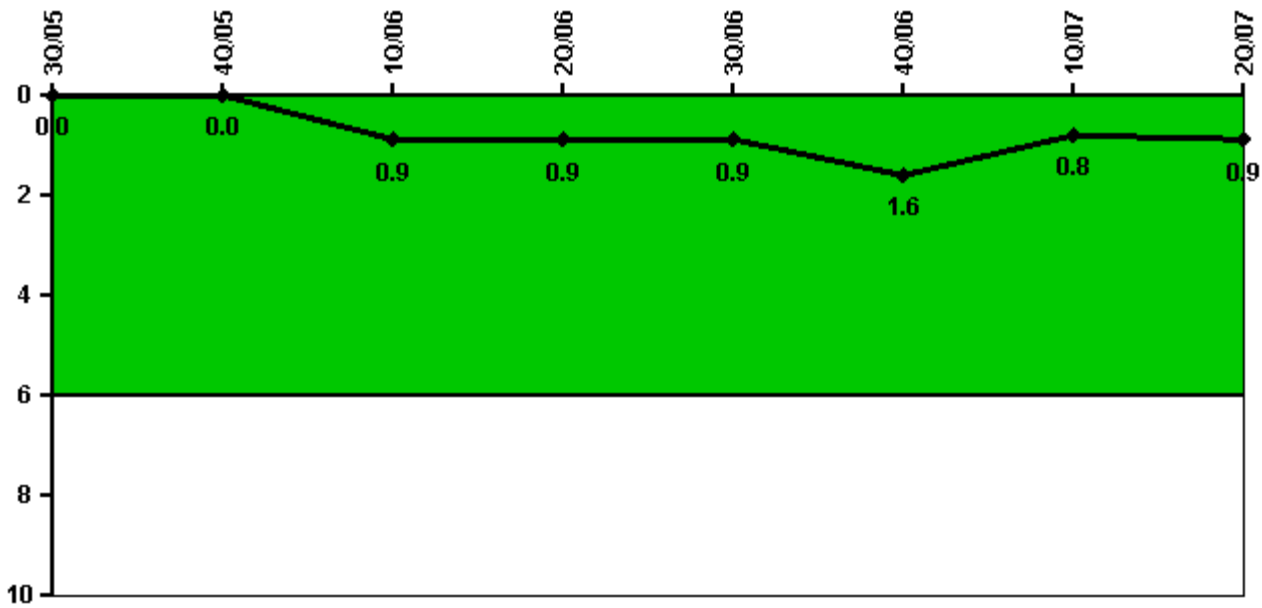
### Notes

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	1.0
<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>1.0</b>

Licensee Comments: none



## Unplanned Power Changes per 7000 Critical Hrs



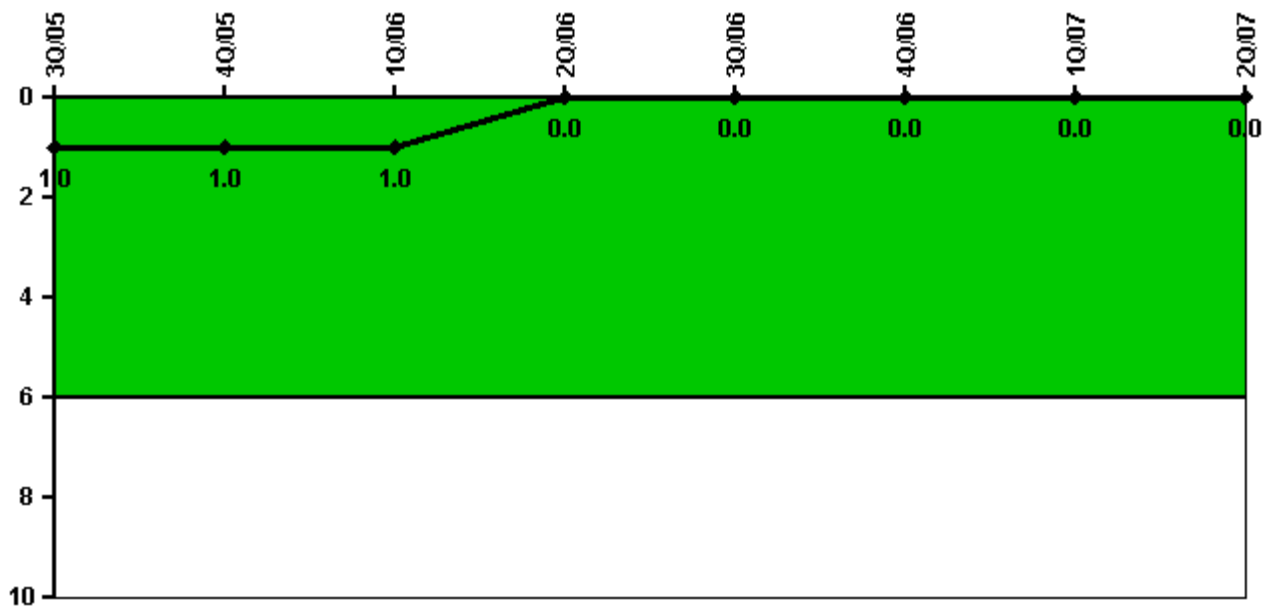
Thresholds: White > 6.0

### 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	0	1.0	0	0	1.0	0	0
Critical hours	1916.0	1831.5	2160.0	2016.3	2208.0	2209.0	1843.0	1817.7
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>

Licensee Comments: none

# Safety System Functional Failures (BWR)



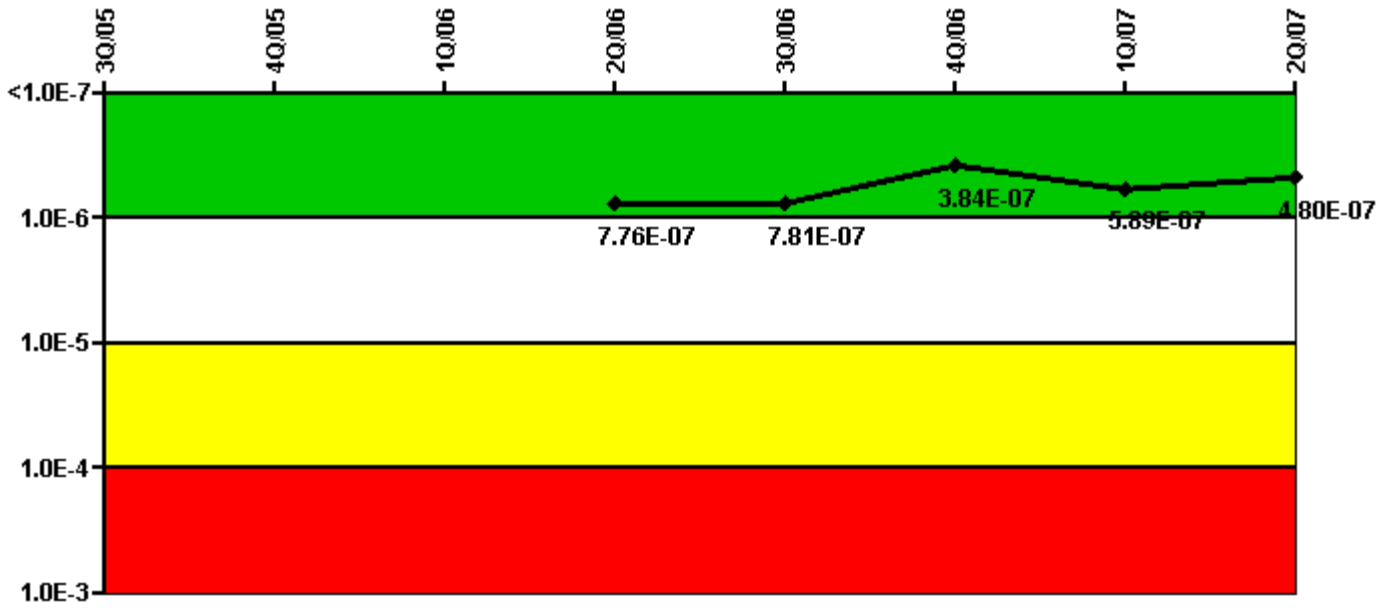
Thresholds: White > 6.0

## 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	0	0	0
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



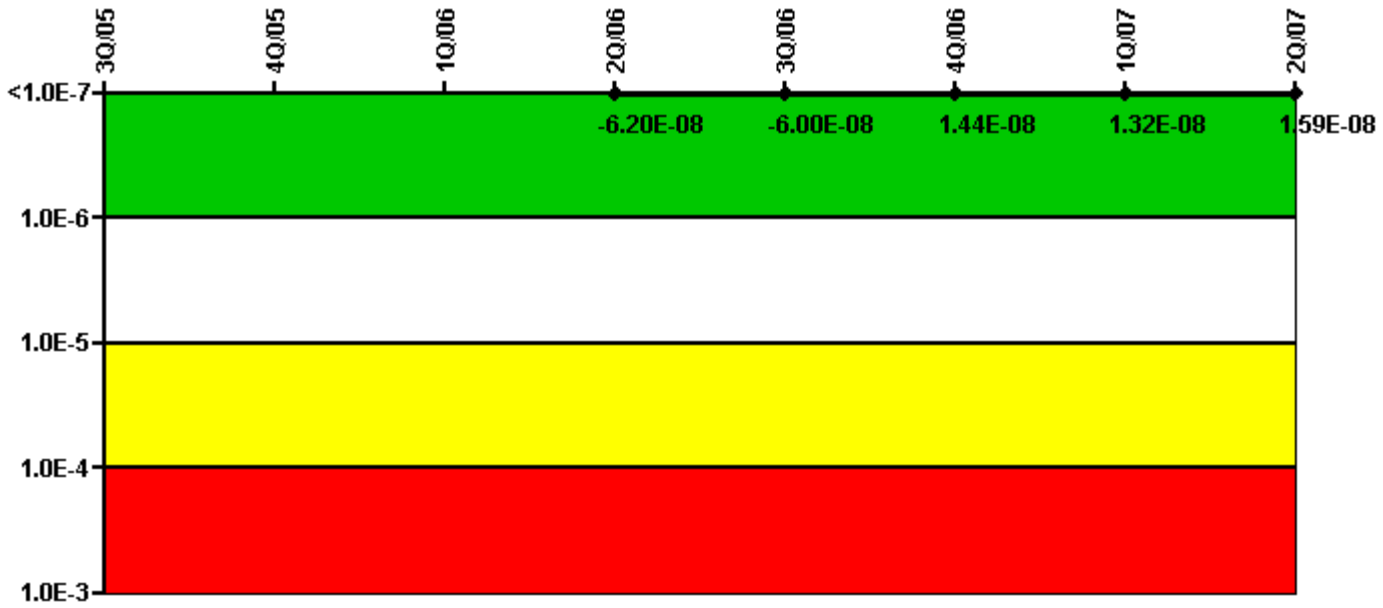
Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

## 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)				$5.60E-08$	$4.10E-08$	$4.40E-08$	$5.90E-08$	$9.00E-08$
URI ( $\Delta$ CDF)				$7.20E-07$	$7.40E-07$	$3.40E-07$	$5.30E-07$	$3.90E-07$
PLE				NO	NO	NO	NO	NO
Indicator value				<b><math>7.76E-07</math></b>	<b><math>7.81E-07</math></b>	<b><math>3.84E-07</math></b>	<b><math>5.89E-07</math></b>	<b><math>4.80E-07</math></b>

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



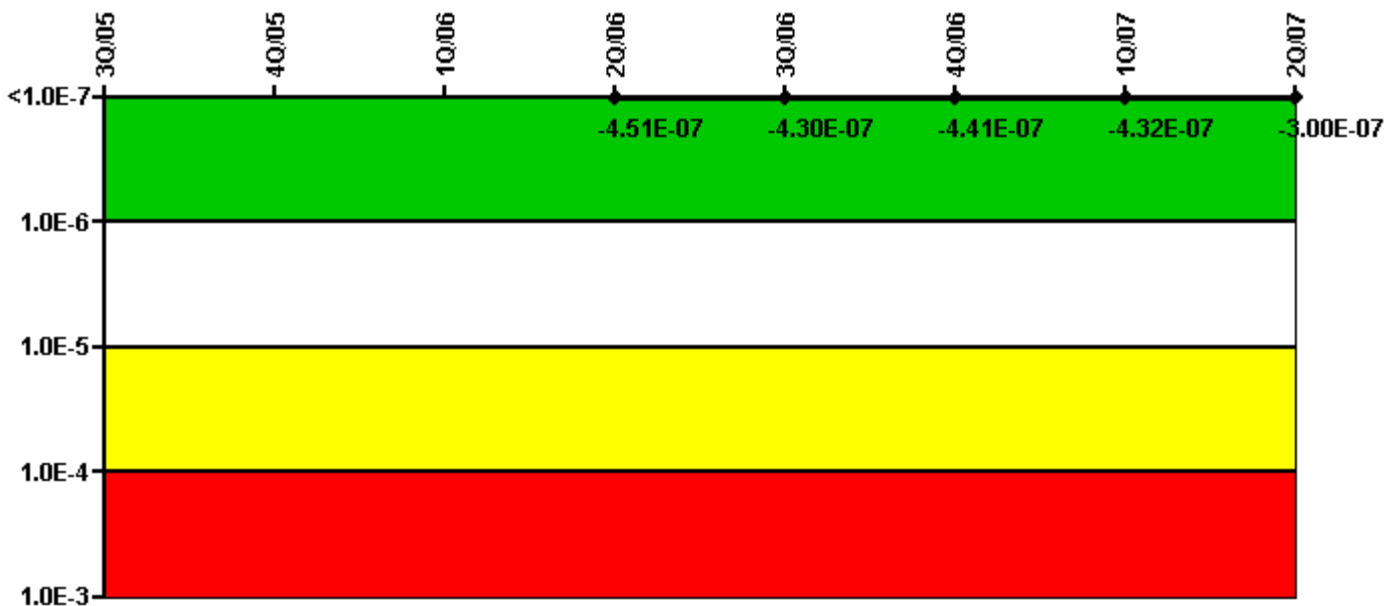
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				-3.40E-08	-3.40E-08	-6.00E-10	5.60E-09	4.90E-09
URI (ΔCDF)				-2.80E-08	-2.60E-08	1.50E-08	7.60E-09	1.10E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-6.20E-08	-6.00E-08	1.44E-08	1.32E-08	1.59E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



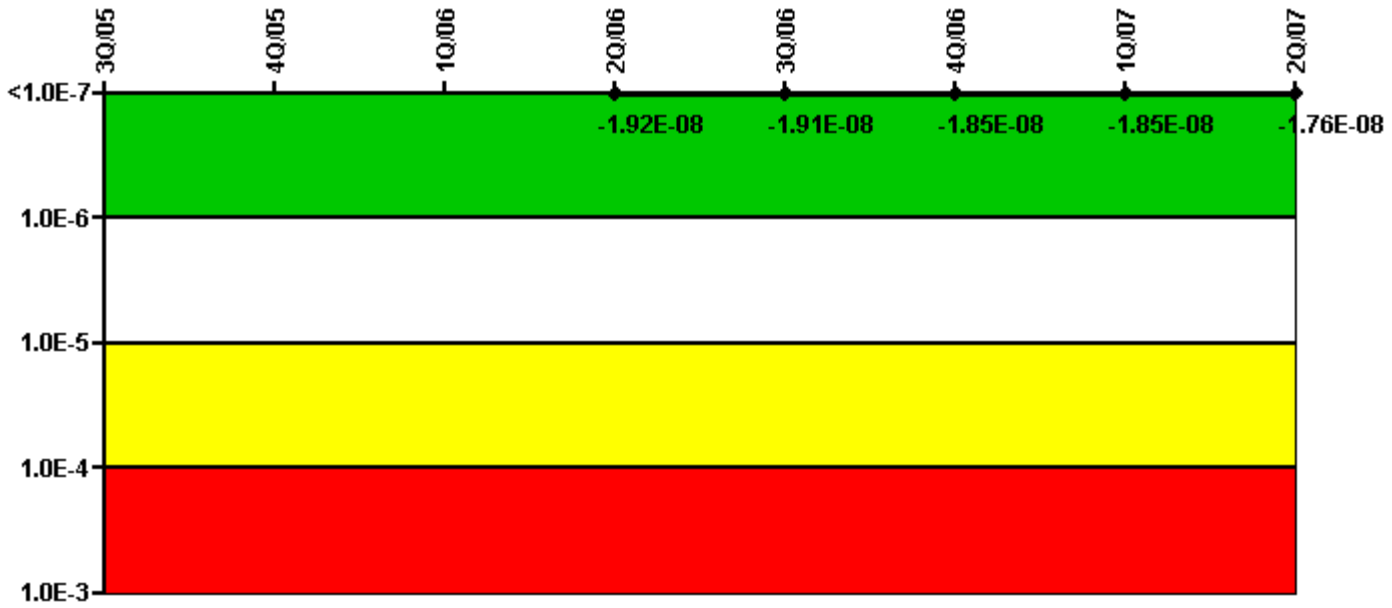
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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 ( $\Delta$ CDF)				-5.10E-08	-3.00E-08	-4.10E-08	-4.20E-08	1.00E-07
URI ( $\Delta$ CDF)				-4.00E-07	-4.00E-07	-4.00E-07	-3.90E-07	-4.00E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-4.51E-07	-4.30E-07	-4.41E-07	-4.32E-07	-3.00E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



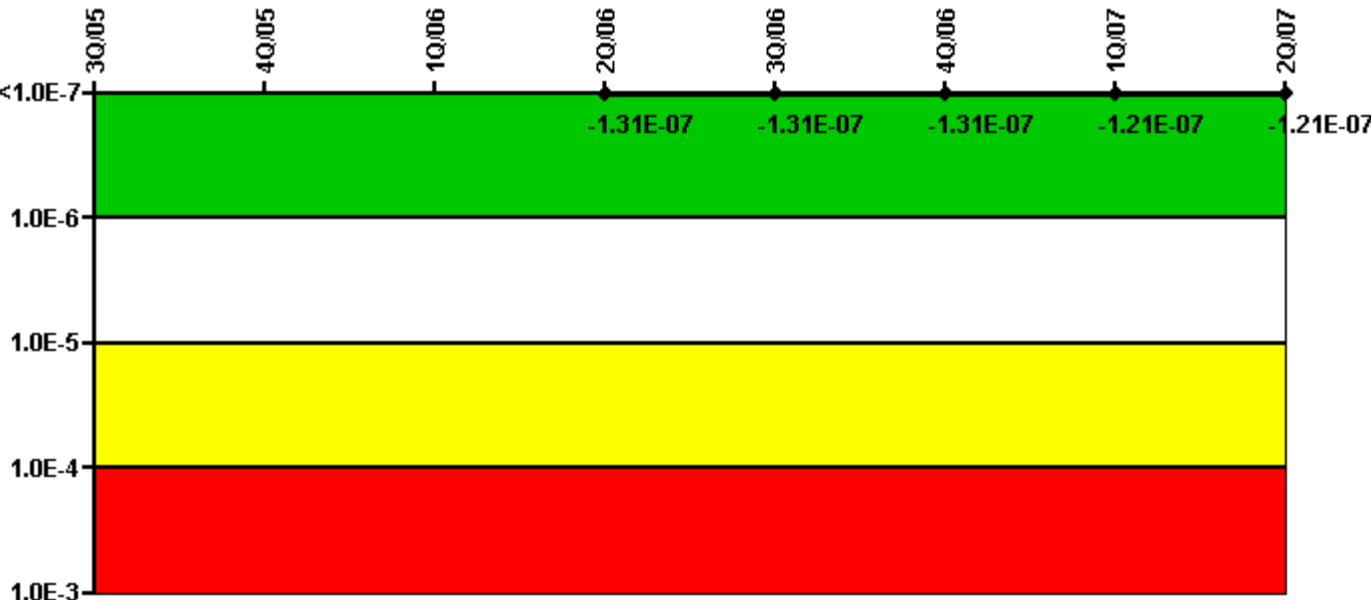
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI ( $\Delta$ CDF)				-8.20E-09	-8.10E-09	-8.50E-09	-8.50E-09	-7.60E-09
URI ( $\Delta$ CDF)				-1.10E-08	-1.10E-08	-1.00E-08	-1.00E-08	-1.00E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-1.92E-08	-1.91E-08	-1.85E-08	-1.85E-08	-1.76E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



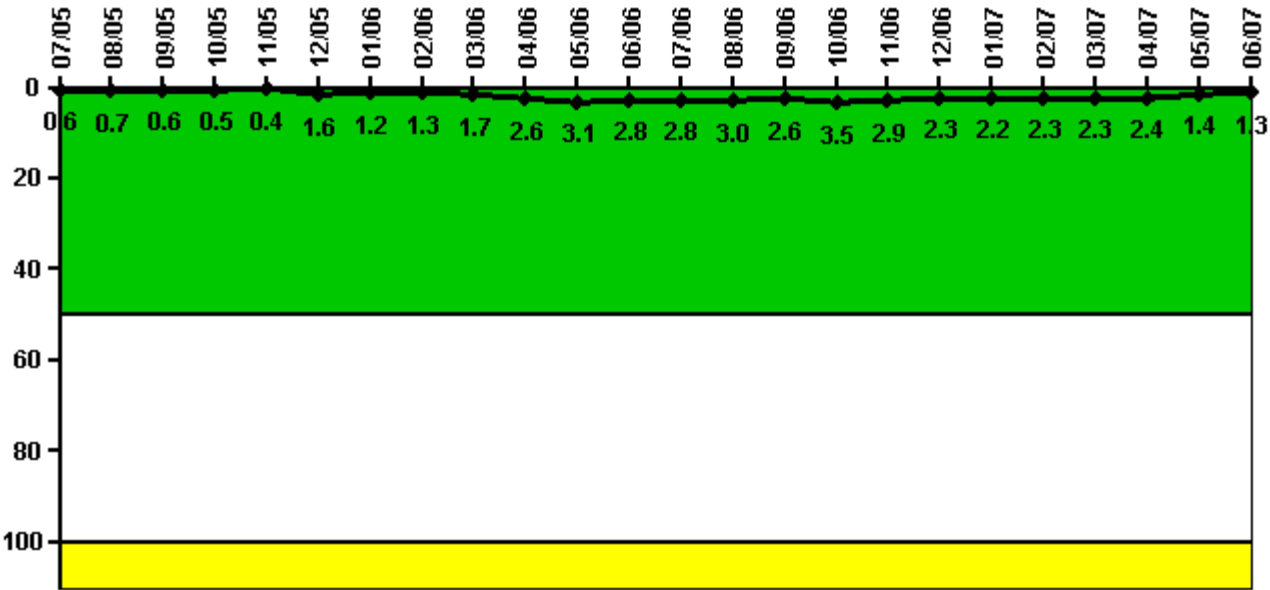
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09
URI (ΔCDF)				-1.30E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-1.31E-07	-1.31E-07	-1.31E-07	-1.21E-07	-1.21E-07

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

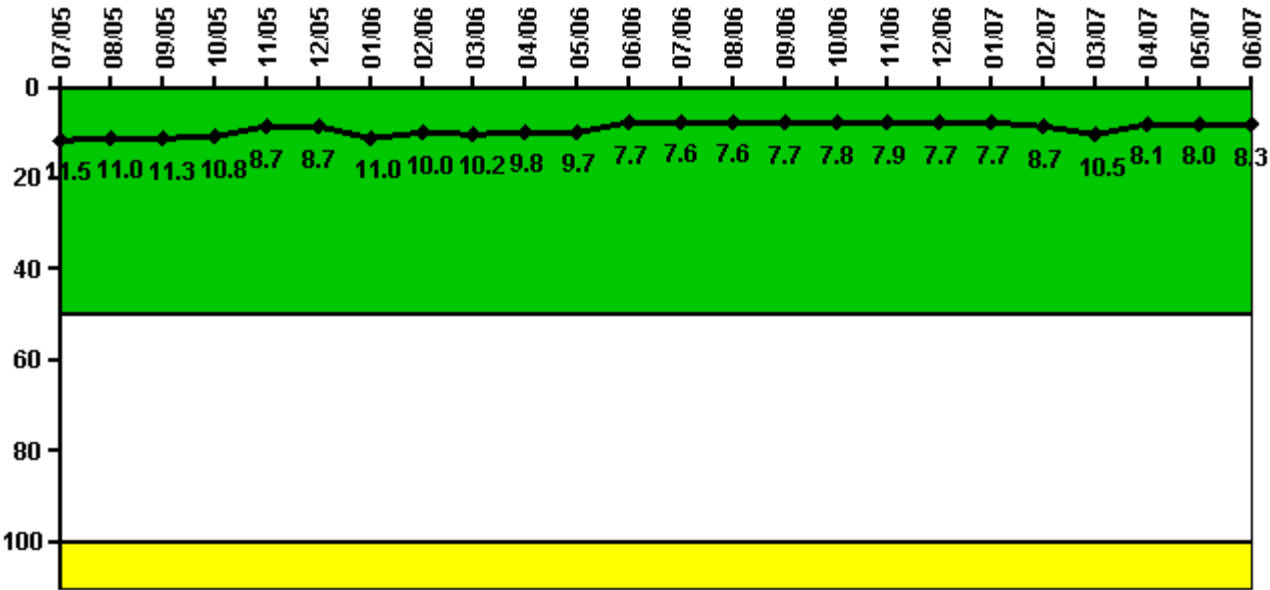
## Notes

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	0.001130	0.001410	0.001190	0.000956	0.000722	0.003210	0.002400	0.002500	0.003470	0.005100	0.006200	0.005600
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
<b>Indicator value</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>	<b>0.5</b>	<b>0.4</b>	<b>1.6</b>	<b>1.2</b>	<b>1.3</b>	<b>1.7</b>	<b>2.6</b>	<b>3.1</b>	<b>2.8</b>
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	0.005510	0.005900	0.005250	0.007000	0.005790	0.004680	0.004440	0.004620	0.004590	0.004790	0.002870	0.002660
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
<b>Indicator value</b>	<b>2.8</b>	<b>3.0</b>	<b>2.6</b>	<b>3.5</b>	<b>2.9</b>	<b>2.3</b>	<b>2.2</b>	<b>2.3</b>	<b>2.3</b>	<b>2.4</b>	<b>1.4</b>	<b>1.3</b>

Licensee Comments: none



# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

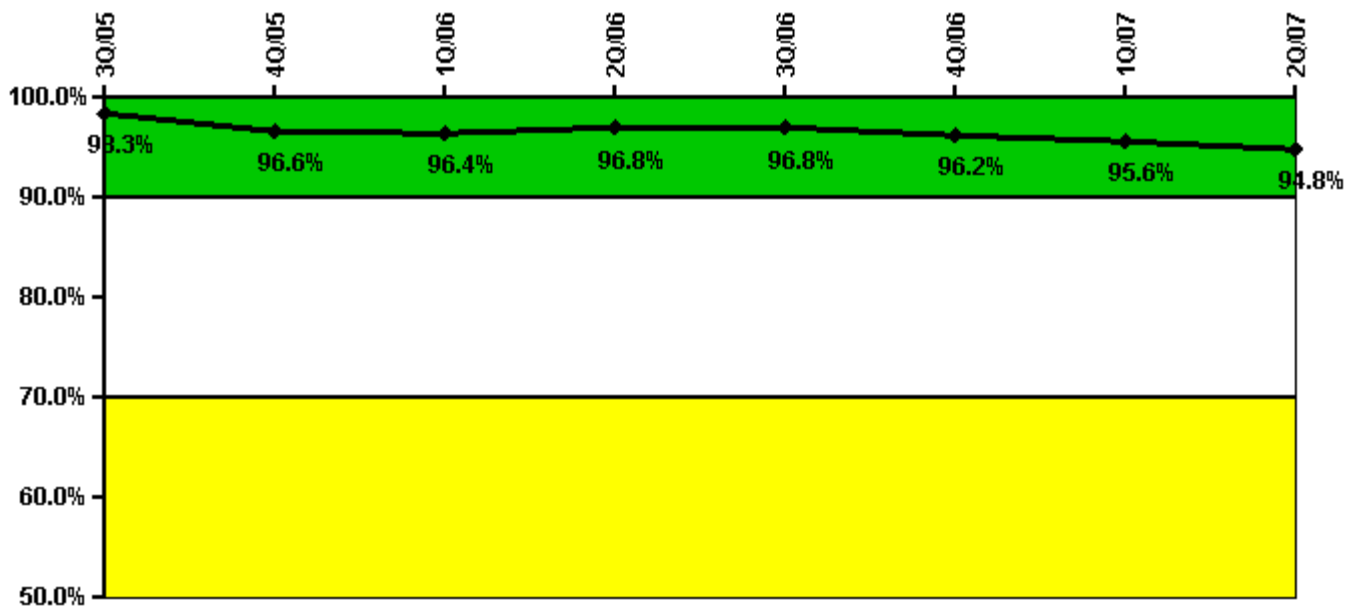
Reactor Coolant System Leakage	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum leakage	3.440	3.300	3.400	3.250	2.610	2.600	3.300	2.990	3.050	2.950	2.920	2.300
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	11.5	11.0	11.3	10.8	8.7	8.7	11.0	10.0	10.2	9.8	9.7	7.7

Reactor Coolant System Leakage	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 leakage	2.280	2.290	2.320	2.350	2.380	2.310	2.300	2.600	3.140	2.420	2.390	2.480
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.6	7.6	7.7	7.8	7.9	7.7	7.7	8.7	10.5	8.1	8.0	8.3

Licensee Comments: none

## Drill/Exercise Performance



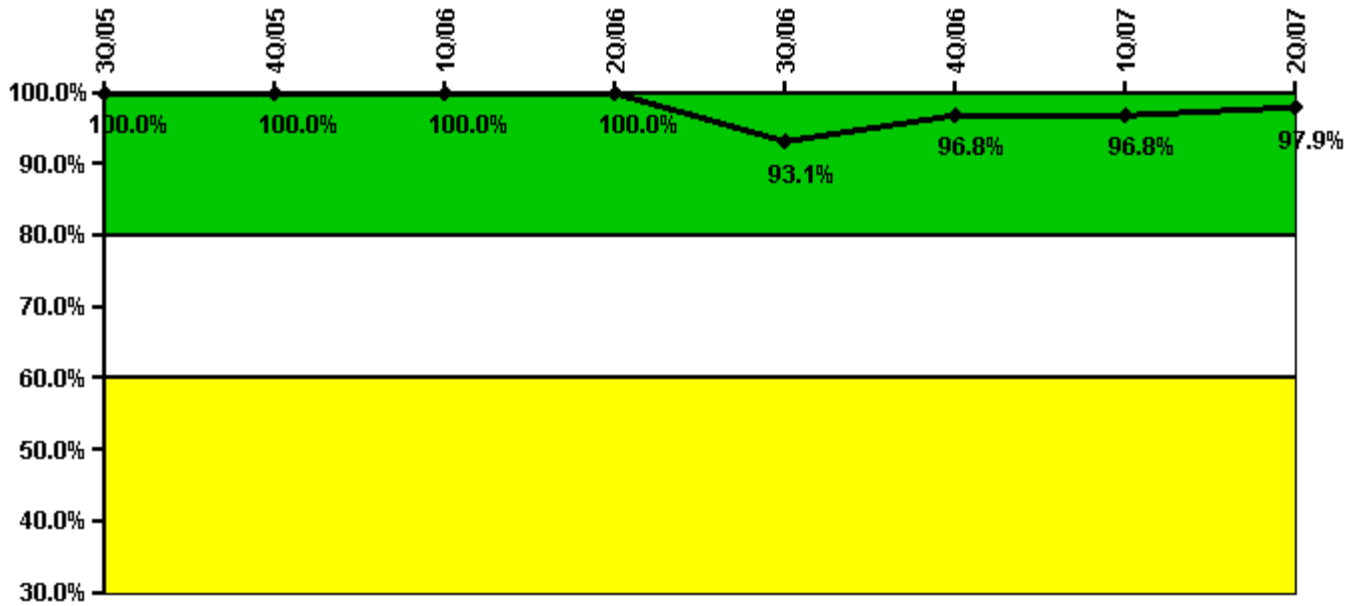
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful opportunities	12.0	7.0	19.0	4.0	21.0	43.0	11.0	28.0
Total opportunities	12.0	10.0	20.0	4.0	21.0	45.0	12.0	29.0
<b>Indicator value</b>	<b>98.3%</b>	<b>96.6%</b>	<b>96.4%</b>	<b>96.8%</b>	<b>96.8%</b>	<b>96.2%</b>	<b>95.6%</b>	<b>94.8%</b>

Licensee Comments: none

# ERO Drill Participation



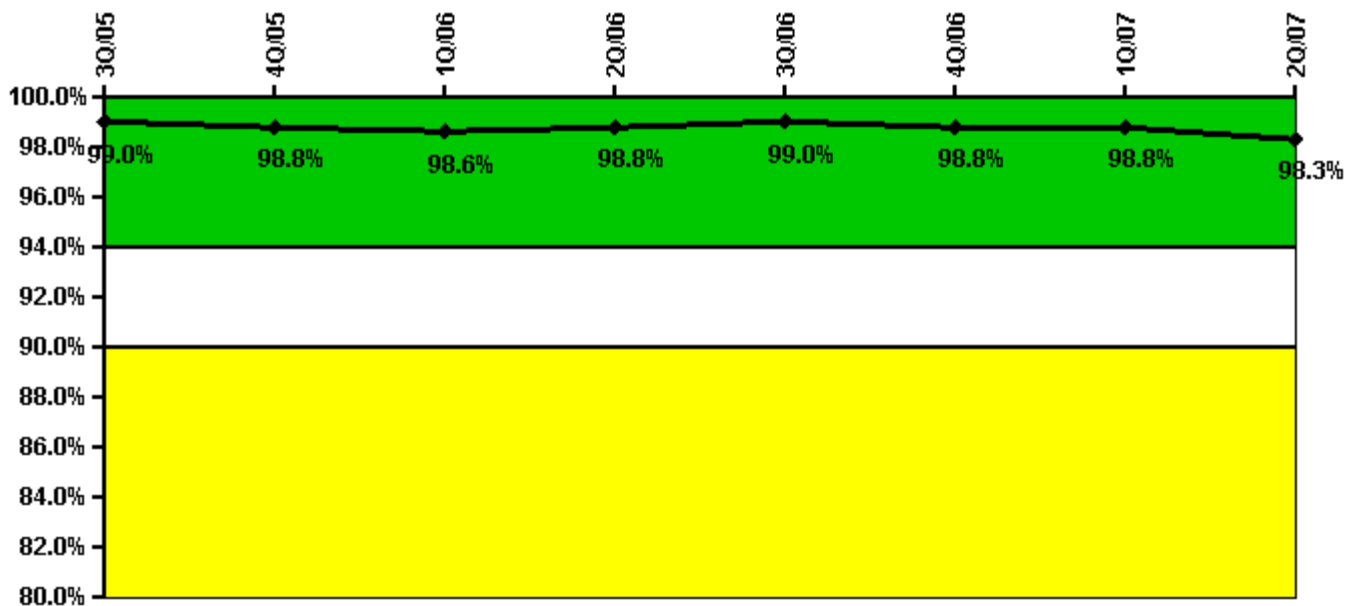
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Participating Key personnel	95.0	92.0	92.0	86.0	81.0	90.0	90.0	92.0
Total Key personnel	95.0	92.0	92.0	86.0	87.0	93.0	93.0	94.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>93.1%</b>	<b>96.8%</b>	<b>96.8%</b>	<b>97.9%</b>

Licensee Comments: none

# Alert & Notification System



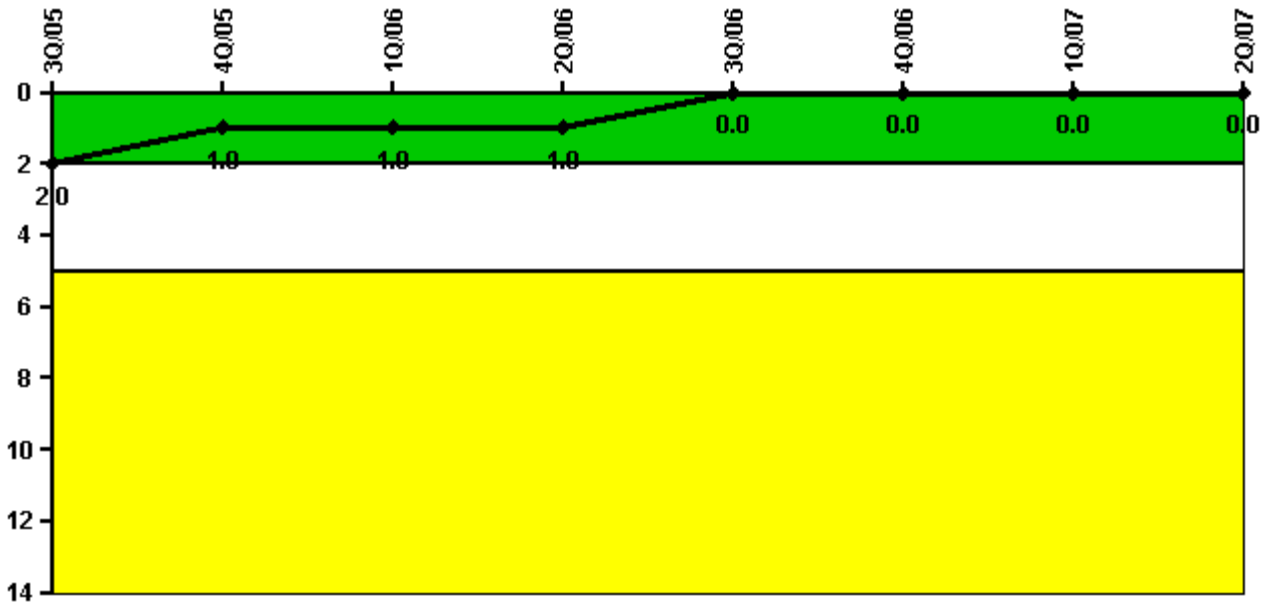
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	126	127	128	129	127	126	128	126
Total sirens-tests	129	129	129	129	129	129	129	129
<b>Indicator value</b>	<b>99.0%</b>	<b>98.8%</b>	<b>98.6%</b>	<b>98.8%</b>	<b>99.0%</b>	<b>98.8%</b>	<b>98.8%</b>	<b>98.3%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



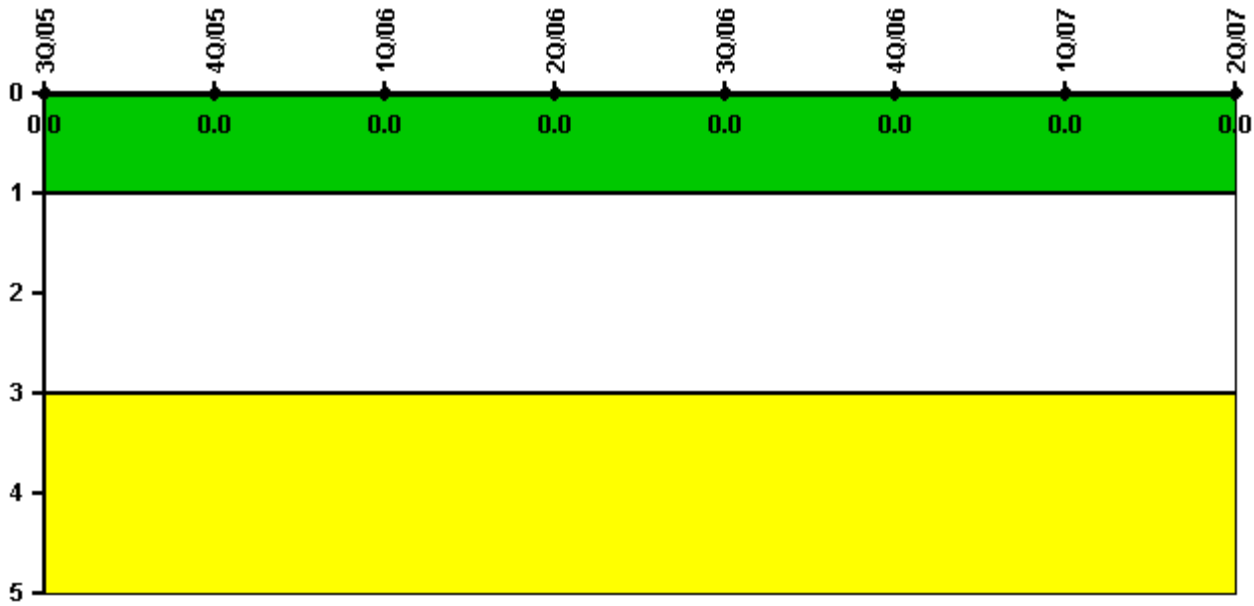
Thresholds: White > 2.0 Yellow > 5.0

## 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	1	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>2</b>	<b>1</b>	<b>1</b>	<b>1</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
<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

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

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

Last Modified: August 6, 2007

# Grand Gulf 1

## 3Q/2007 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

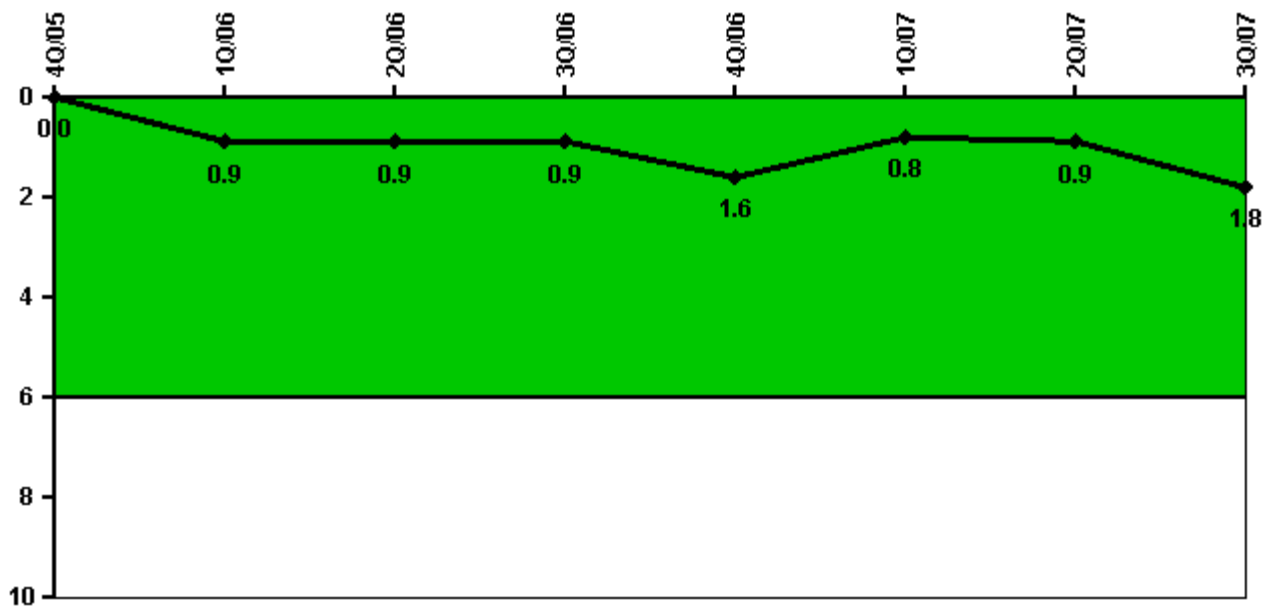
### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned scrams	0	0	0	0	0	0	1.0	1.0
Critical hours	1831.5	2160.0	2016.3	2208.0	2209.0	1843.0	1817.7	1863.9
Indicator value	0.9	0	0	0	0	0	0.9	1.8

Licensee Comments:

3Q/07: August 26, Reactor Feed Pump Turbine Trip. September Critical Hours: September 1, Commenced a forced outage to replace a Reactor Recirculation Pump Motor.

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

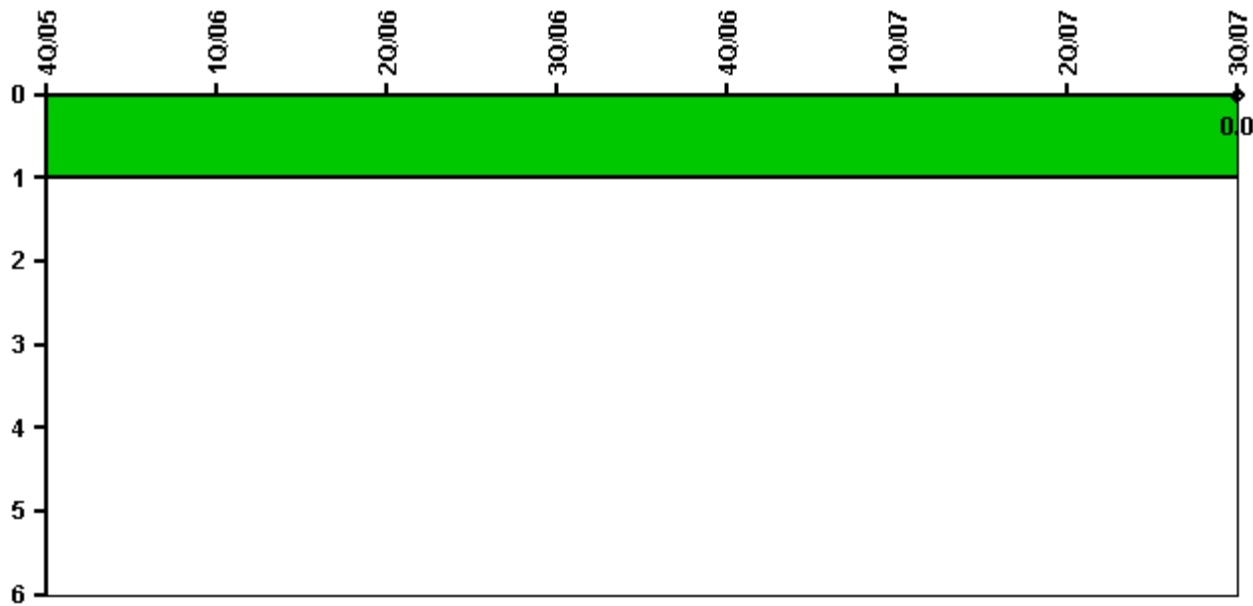
Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	0	1.0	0	0	1.0	0	0	1.0
Critical hours	1831.5	2160.0	2016.3	2208.0	2209.0	1843.0	1817.7	1863.9
<b>Indicator value</b>	<b>0</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>1.8</b>

Licensee Comments:

3Q/07: August 21, Reactor Recirculation Pump Trip.



# Unplanned Scrams with Complications



Thresholds: White > 1.0

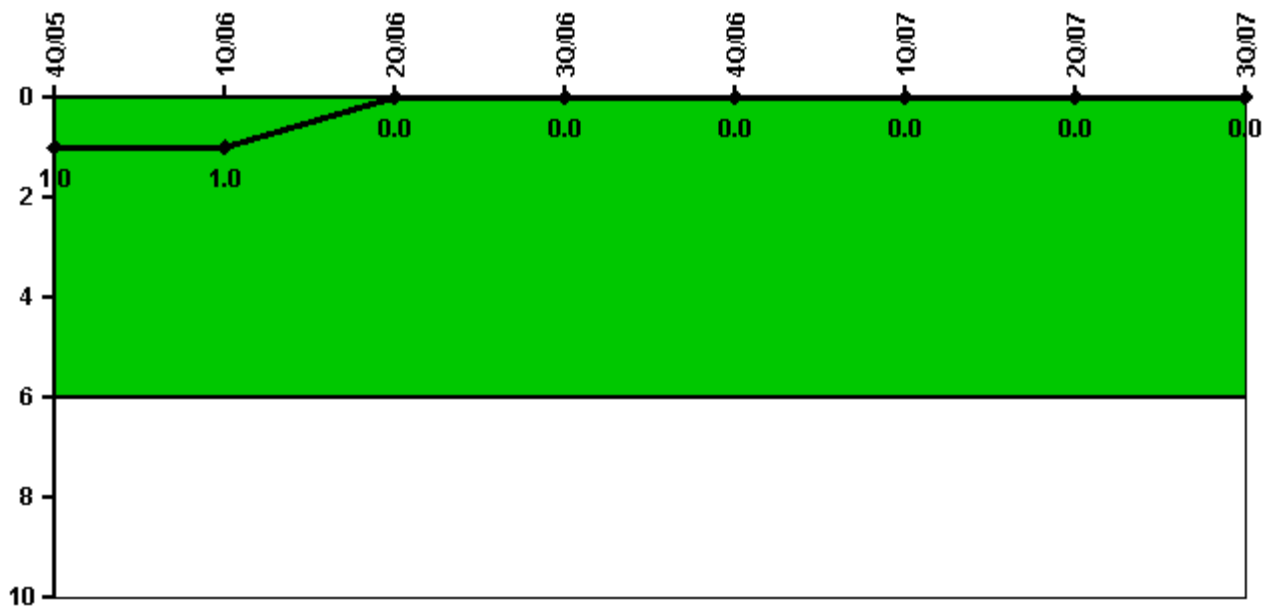
## Notes

Unplanned Scrams with Complications	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Scrams with complications					0	0	0	0
<b>Indicator value</b>								<b>0.0</b>

Licensee Comments:

2Q/07: Data revised to reflect May 19th Turbine Trip does not meet the Unplanned Scrams with Complications criteria.

## Safety System Functional Failures (BWR)



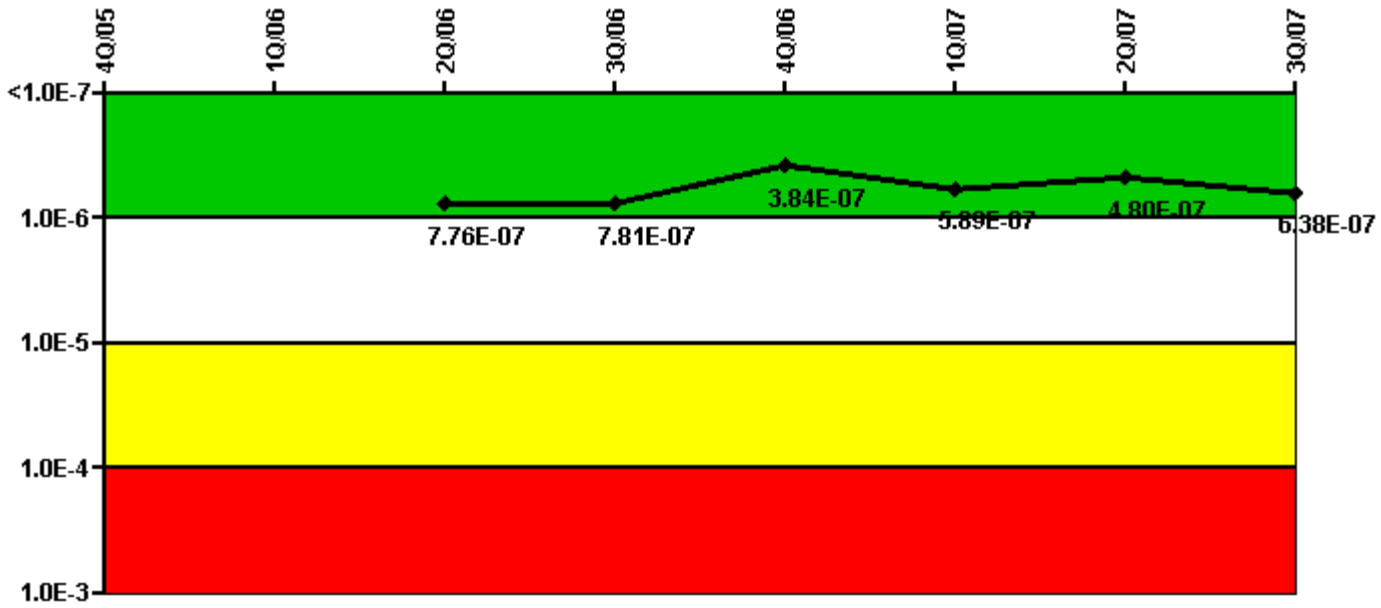
Thresholds: White > 6.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



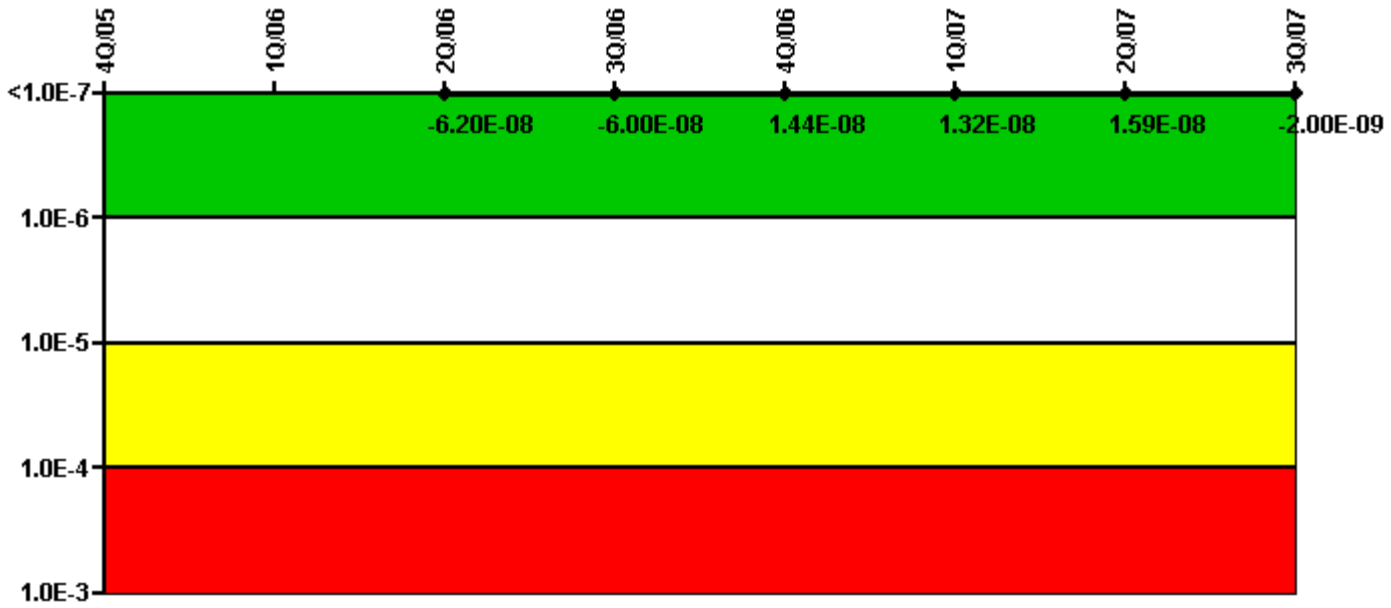
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			5.60E-08	4.10E-08	4.40E-08	5.90E-08	9.00E-08	9.80E-08
URI (ΔCDF)			7.20E-07	7.40E-07	3.40E-07	5.30E-07	3.90E-07	5.40E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			7.76E-07	7.81E-07	3.84E-07	5.89E-07	4.80E-07	6.38E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



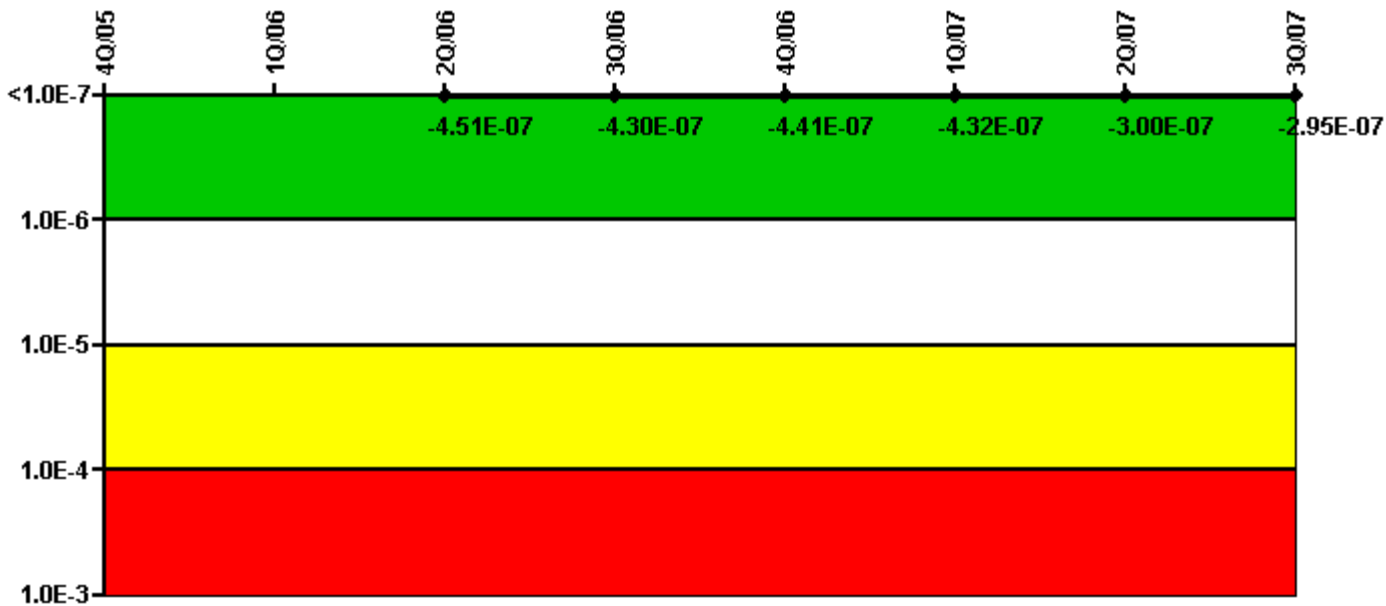
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI ( $\Delta$ CDF)			-3.40E-08	-3.40E-08	-6.00E-10	5.60E-09	4.90E-09	-2.80E-08
URI ( $\Delta$ CDF)			-2.80E-08	-2.60E-08	1.50E-08	7.60E-09	1.10E-08	2.60E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-6.20E-08	-6.00E-08	1.44E-08	1.32E-08	1.59E-08	-2.00E-09

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



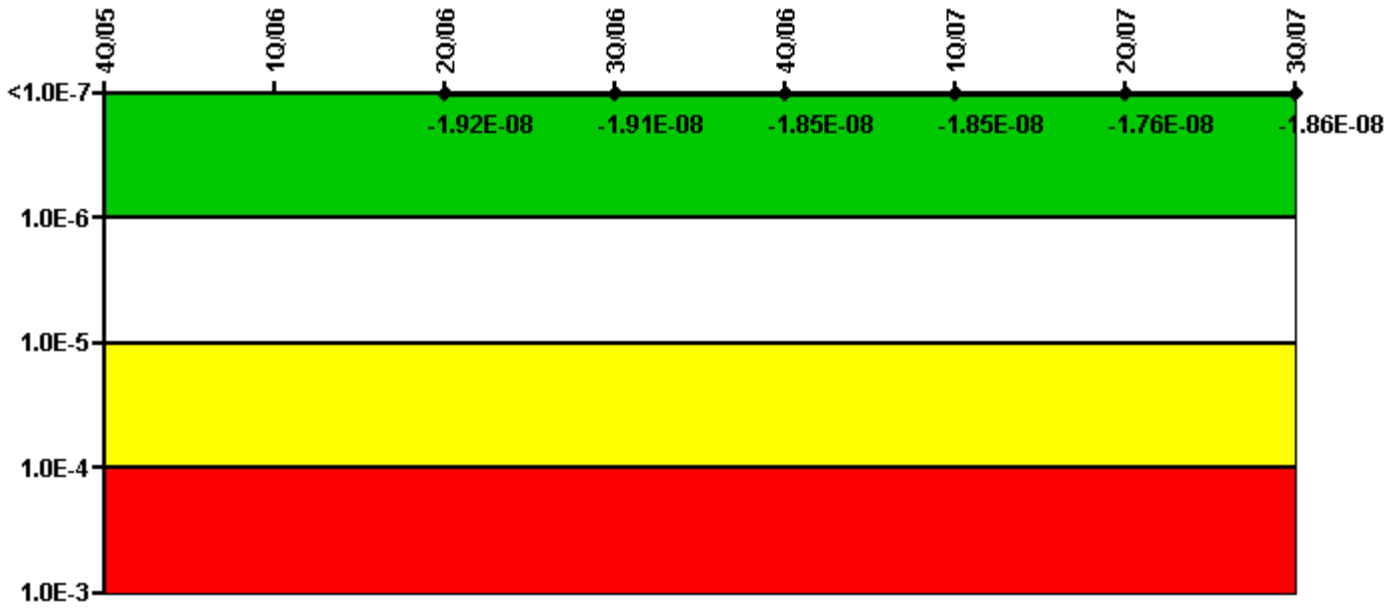
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI ( $\Delta$ CDF)			-5.10E-08	-3.00E-08	-4.10E-08	-4.20E-08	1.00E-07	9.50E-08
URI ( $\Delta$ CDF)			-4.00E-07	-4.00E-07	-4.00E-07	-3.90E-07	-4.00E-07	-3.90E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-4.51E-07	-4.30E-07	-4.41E-07	-4.32E-07	-3.00E-07	-2.95E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



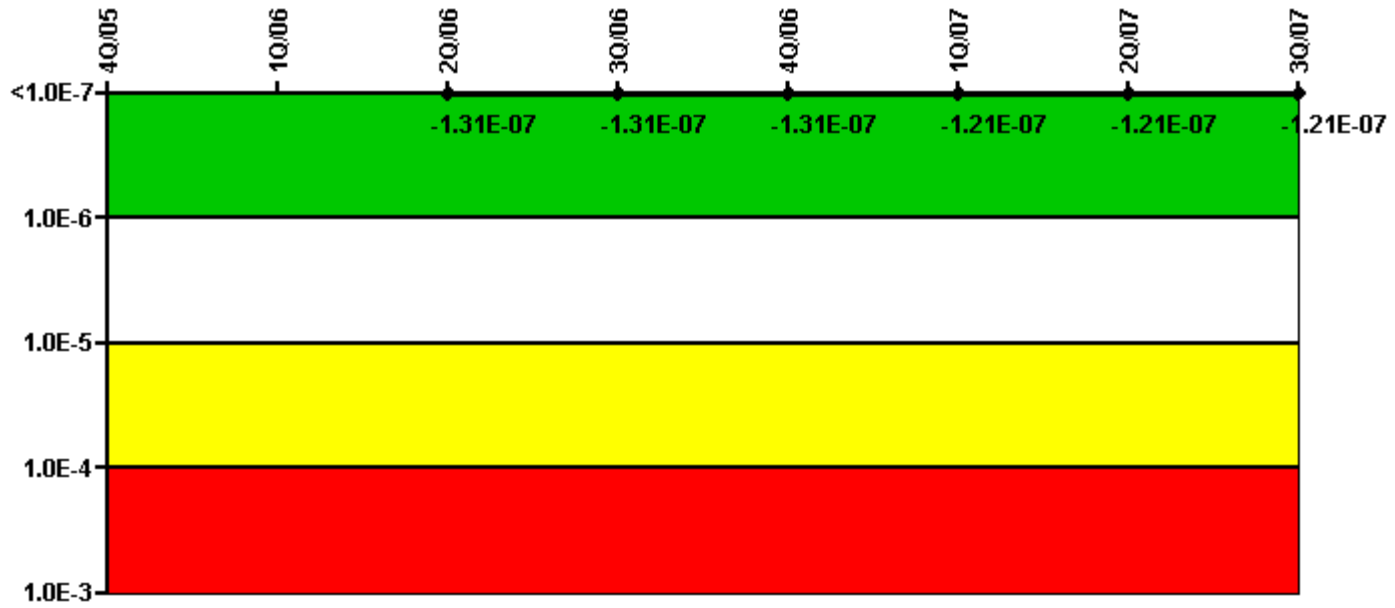
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI ( $\Delta$ CDF)			-8.20E-09	-8.10E-09	-8.50E-09	-8.50E-09	-7.60E-09	-7.60E-09
URI ( $\Delta$ CDF)			-1.10E-08	-1.10E-08	-1.00E-08	-1.00E-08	-1.00E-08	-1.10E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-1.92E-08	-1.91E-08	-1.85E-08	-1.85E-08	-1.76E-08	-1.86E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



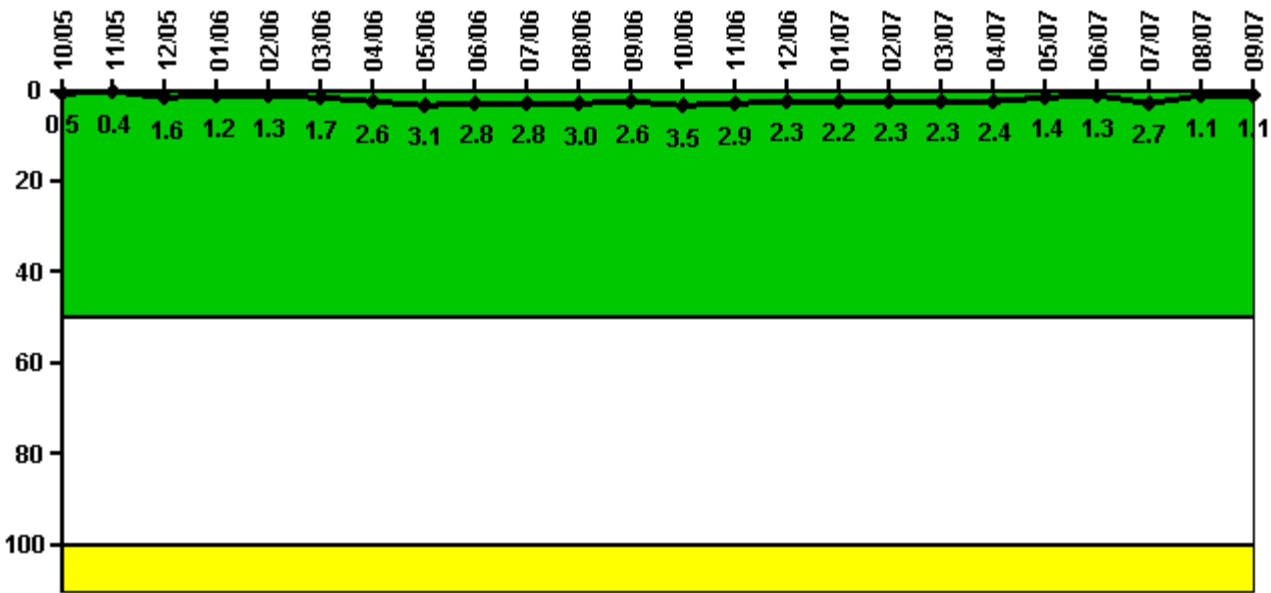
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI ( $\Delta$ CDF)			-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09
URI ( $\Delta$ CDF)			-1.30E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.20E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-1.31E-07	-1.31E-07	-1.31E-07	-1.21E-07	-1.21E-07	-1.21E-07

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

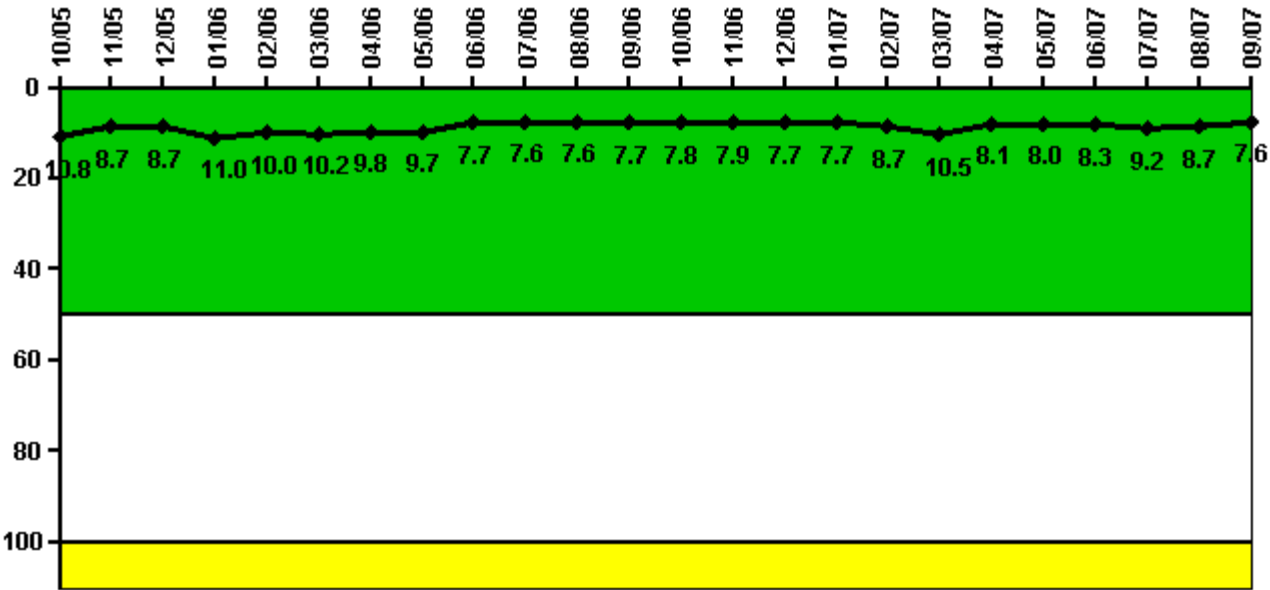
## Notes

Reactor Coolant System Activity	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum activity	0.000956	0.000722	0.003210	0.002400	0.002500	0.003470	0.005100	0.006200	0.005600	0.005510	0.005900	0.005250
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
<b>Indicator value</b>	<b>0.5</b>	<b>0.4</b>	<b>1.6</b>	<b>1.2</b>	<b>1.3</b>	<b>1.7</b>	<b>2.6</b>	<b>3.1</b>	<b>2.8</b>	<b>2.8</b>	<b>3.0</b>	<b>2.6</b>
Reactor Coolant System Activity	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum activity	0.007000	0.005790	0.004680	0.004440	0.004620	0.004590	0.004790	0.002870	0.002660	0.005360	0.002100	0.002170
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
<b>Indicator value</b>	<b>3.5</b>	<b>2.9</b>	<b>2.3</b>	<b>2.2</b>	<b>2.3</b>	<b>2.3</b>	<b>2.4</b>	<b>1.4</b>	<b>1.3</b>	<b>2.7</b>	<b>1.1</b>	<b>1.1</b>

Licensee Comments: none



# Reactor Coolant System Leakage



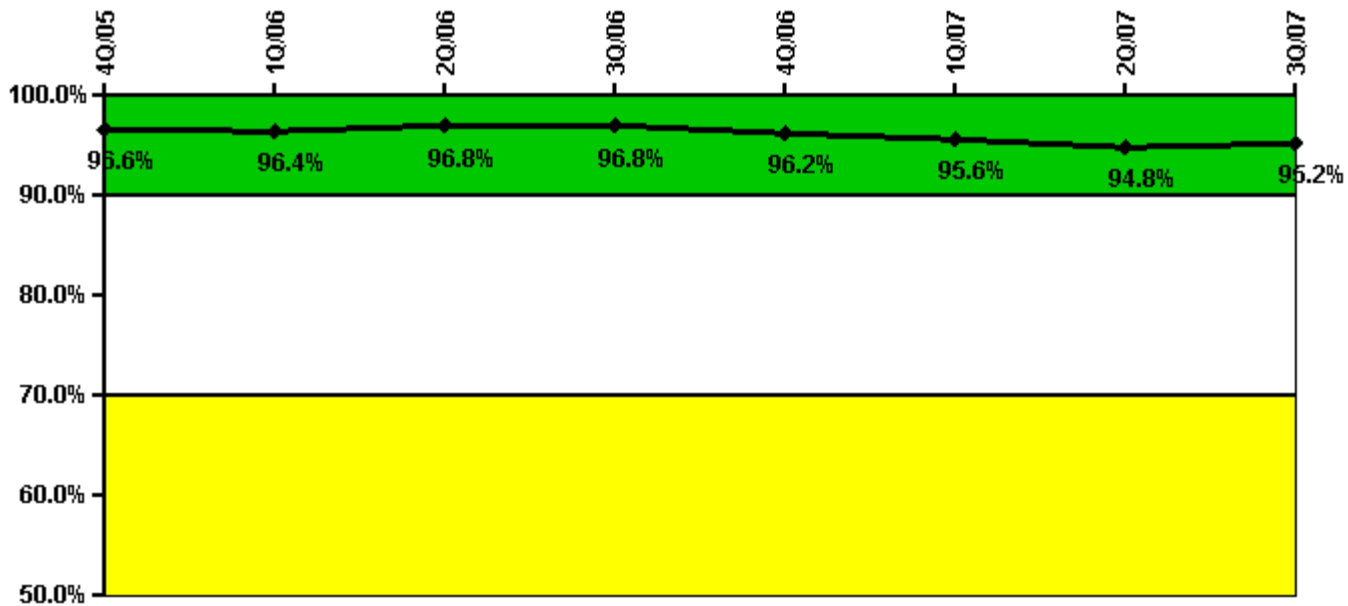
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Leakage	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum leakage	3.250	2.610	2.600	3.300	2.990	3.050	2.950	2.920	2.300	2.280	2.290	2.320
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>10.8</b>	<b>8.7</b>	<b>8.7</b>	<b>11.0</b>	<b>10.0</b>	<b>10.2</b>	<b>9.8</b>	<b>9.7</b>	<b>7.7</b>	<b>7.6</b>	<b>7.6</b>	<b>7.7</b>
Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	2.350	2.380	2.310	2.300	2.600	3.140	2.420	2.390	2.480	2.770	2.600	2.280
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>7.8</b>	<b>7.9</b>	<b>7.7</b>	<b>7.7</b>	<b>8.7</b>	<b>10.5</b>	<b>8.1</b>	<b>8.0</b>	<b>8.3</b>	<b>9.2</b>	<b>8.7</b>	<b>7.6</b>

Licensee Comments: none

## Drill/Exercise Performance



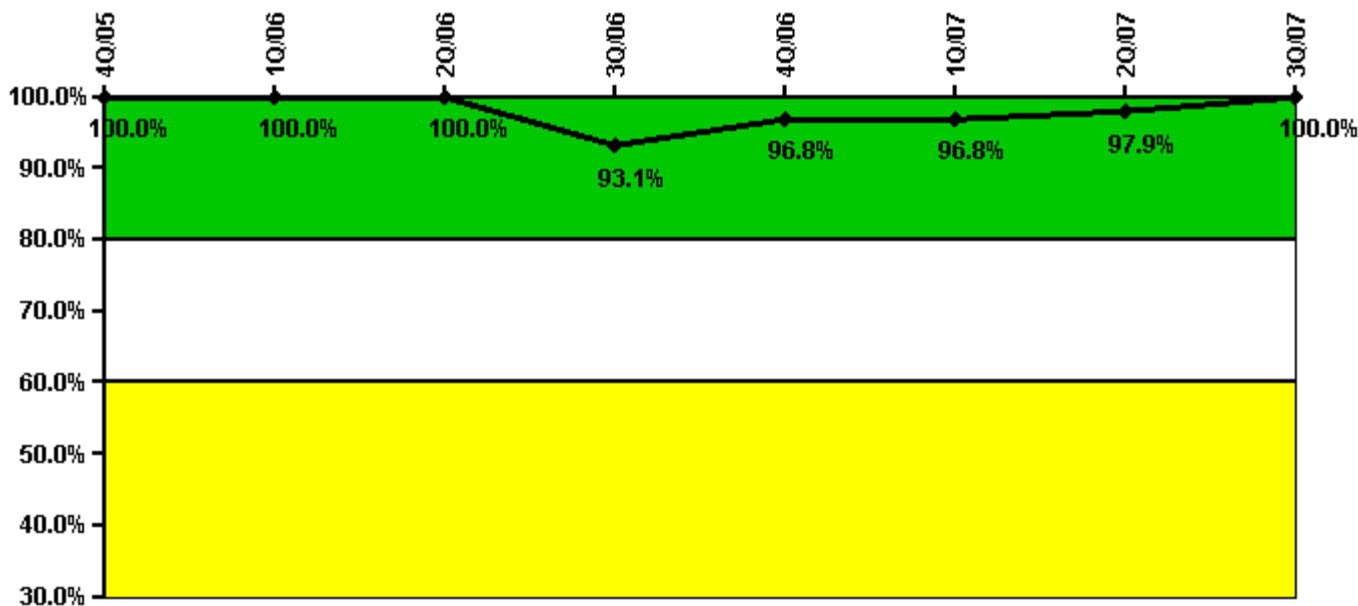
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful opportunities	7.0	19.0	4.0	21.0	43.0	11.0	28.0	24.0
Total opportunities	10.0	20.0	4.0	21.0	45.0	12.0	29.0	24.0
<b>Indicator value</b>	<b>96.6%</b>	<b>96.4%</b>	<b>96.8%</b>	<b>96.8%</b>	<b>96.2%</b>	<b>95.6%</b>	<b>94.8%</b>	<b>95.2%</b>

Licensee Comments: none

# ERO Drill Participation



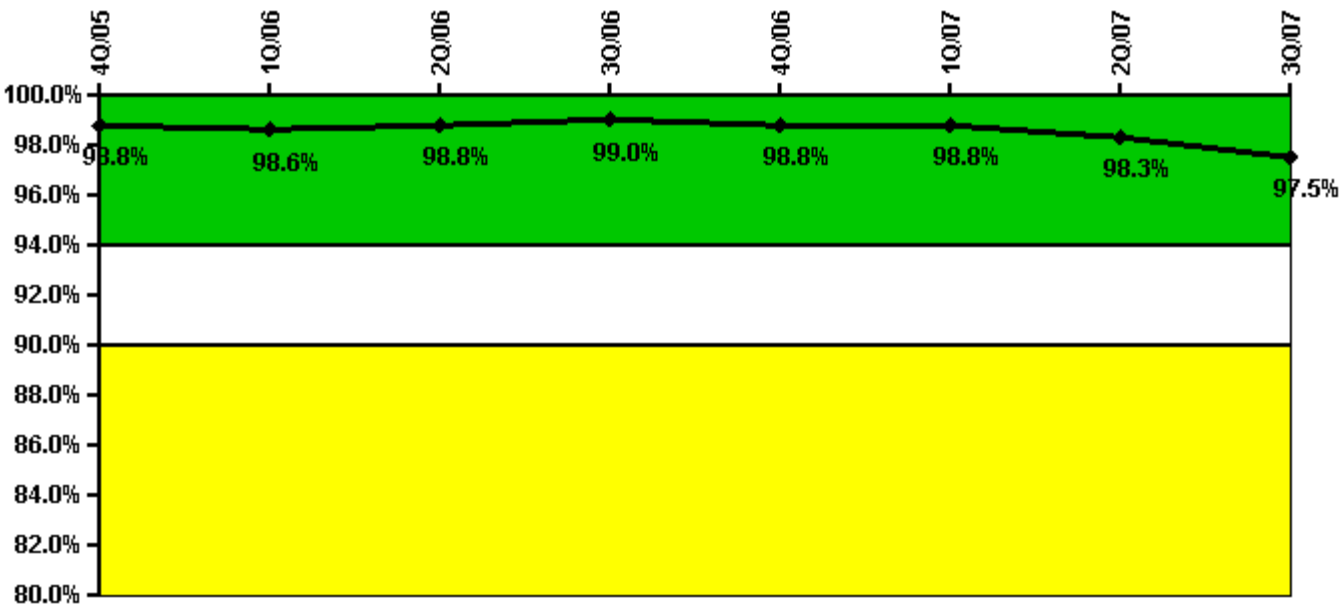
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Participating Key personnel	92.0	92.0	86.0	81.0	90.0	90.0	92.0	90.0
Total Key personnel	92.0	92.0	86.0	87.0	93.0	93.0	94.0	90.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>93.1%</b>	<b>96.8%</b>	<b>96.8%</b>	<b>97.9%</b>	<b>100.0%</b>

Licensee Comments: none

# Alert & Notification System



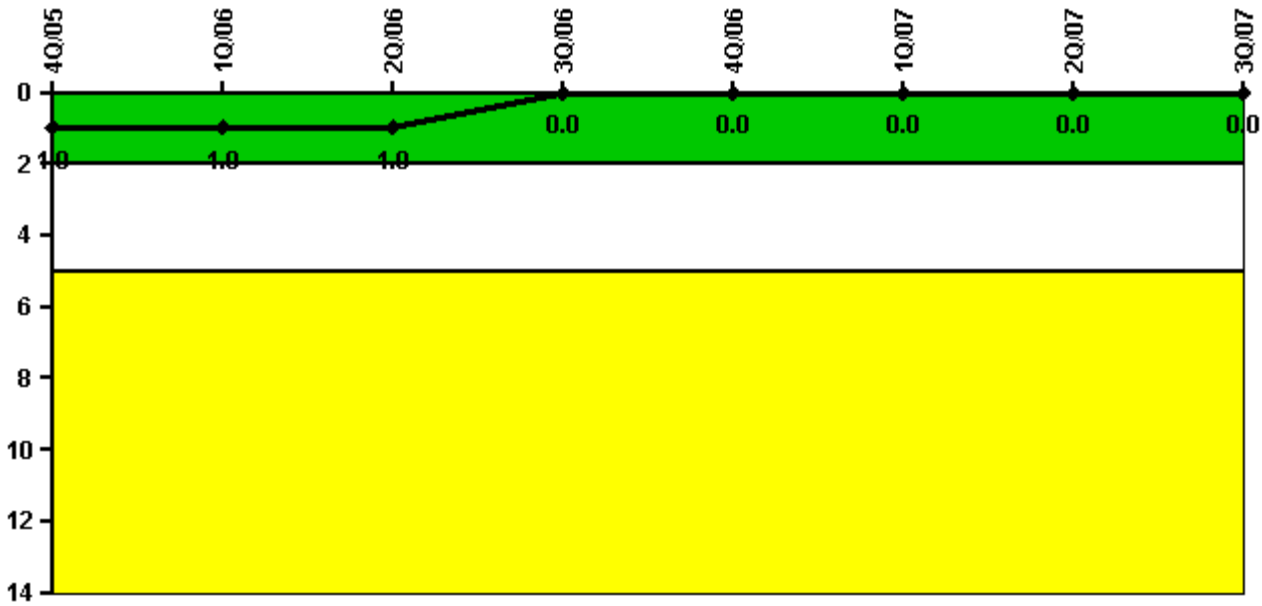
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful siren-tests	127	128	129	127	126	128	126	123
Total sirens-tests	129	129	129	129	129	129	129	129
<b>Indicator value</b>	<b>98.8%</b>	<b>98.6%</b>	<b>98.8%</b>	<b>99.0%</b>	<b>98.8%</b>	<b>98.8%</b>	<b>98.3%</b>	<b>97.5%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



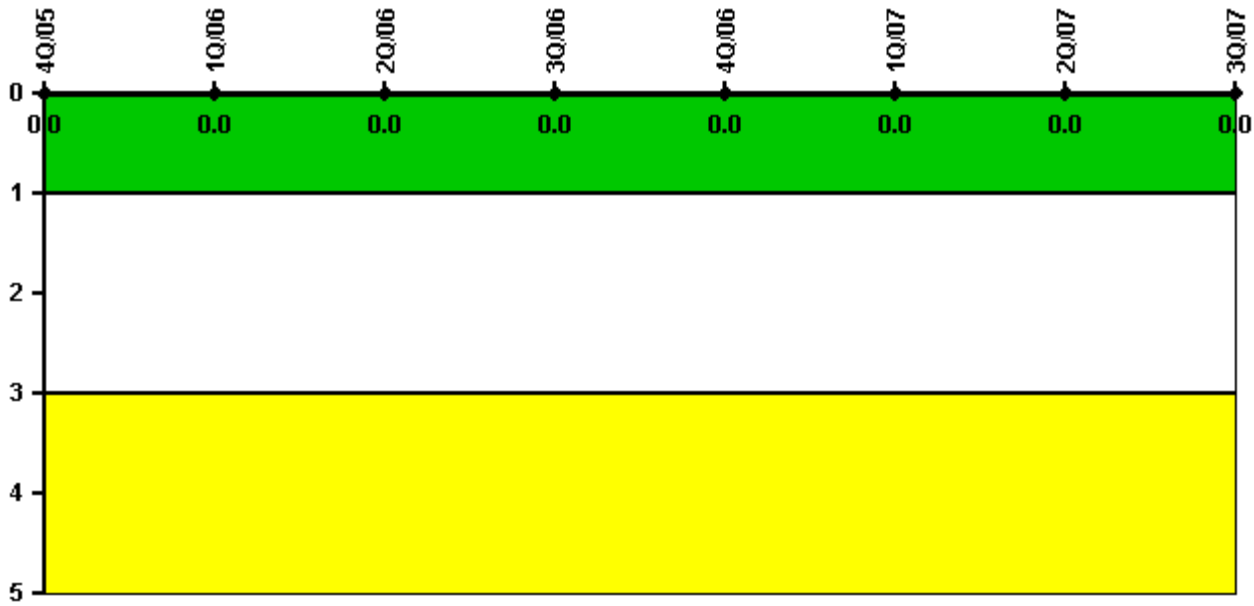
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/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>1</b>	<b>1</b>	<b>1</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	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
RETS/ODCM 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

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

# Grand Gulf 1

## 4Q/2007 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

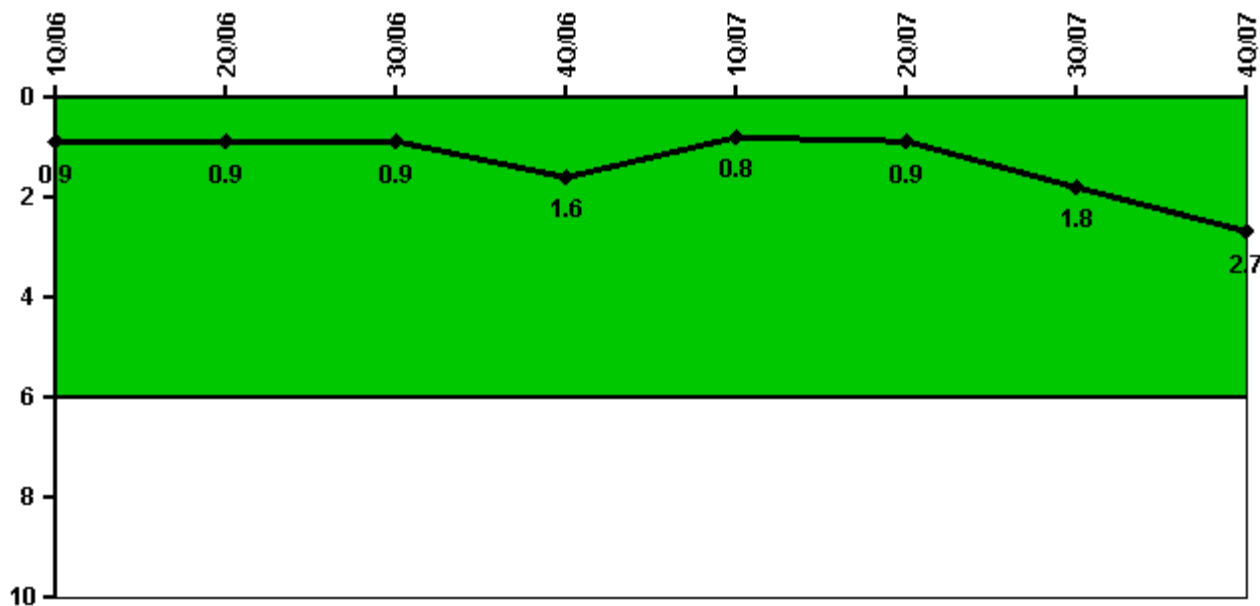
### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	0	0	0	0	0	1.0	1.0	0
Critical hours	2160.0	2016.3	2208.0	2209.0	1843.0	1817.7	1863.9	2209.0
Indicator value	0	0	0	0	0	0.9	1.8	1.8

Licensee Comments: none

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## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

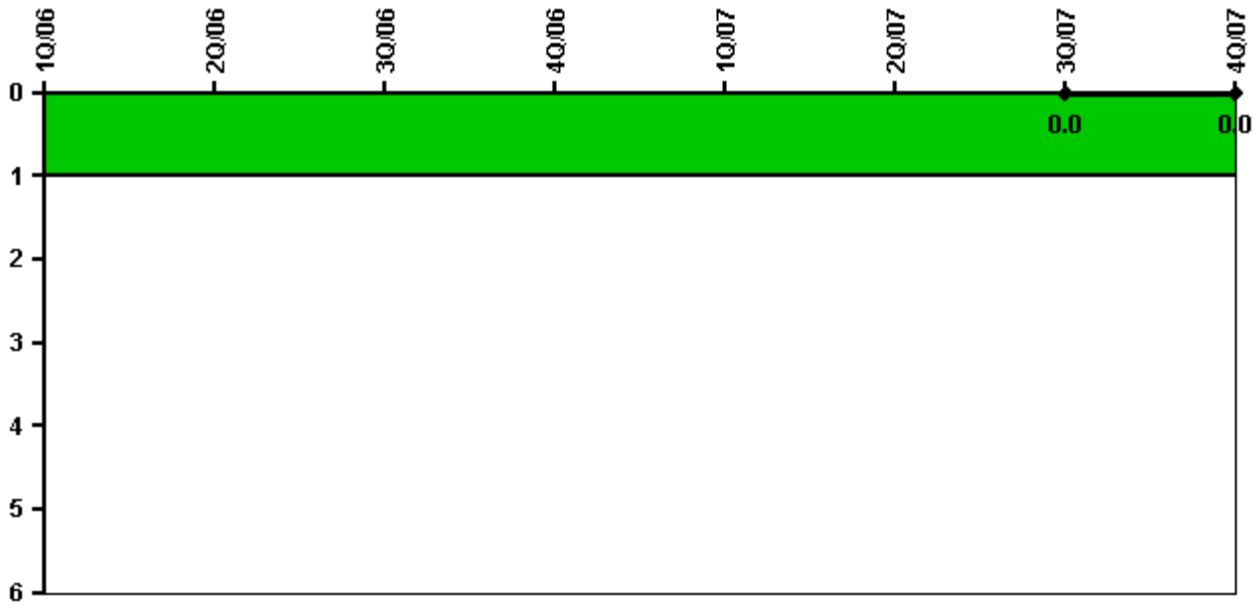
### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	1.0	0	0	1.0	0	0	1.0	2.0
Critical hours	2160.0	2016.3	2208.0	2209.0	1843.0	1817.7	1863.9	2209.0
<b>Indicator value</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>1.8</b>	<b>2.7</b>

Licensee Comments: none



# Unplanned Scrams with Complications



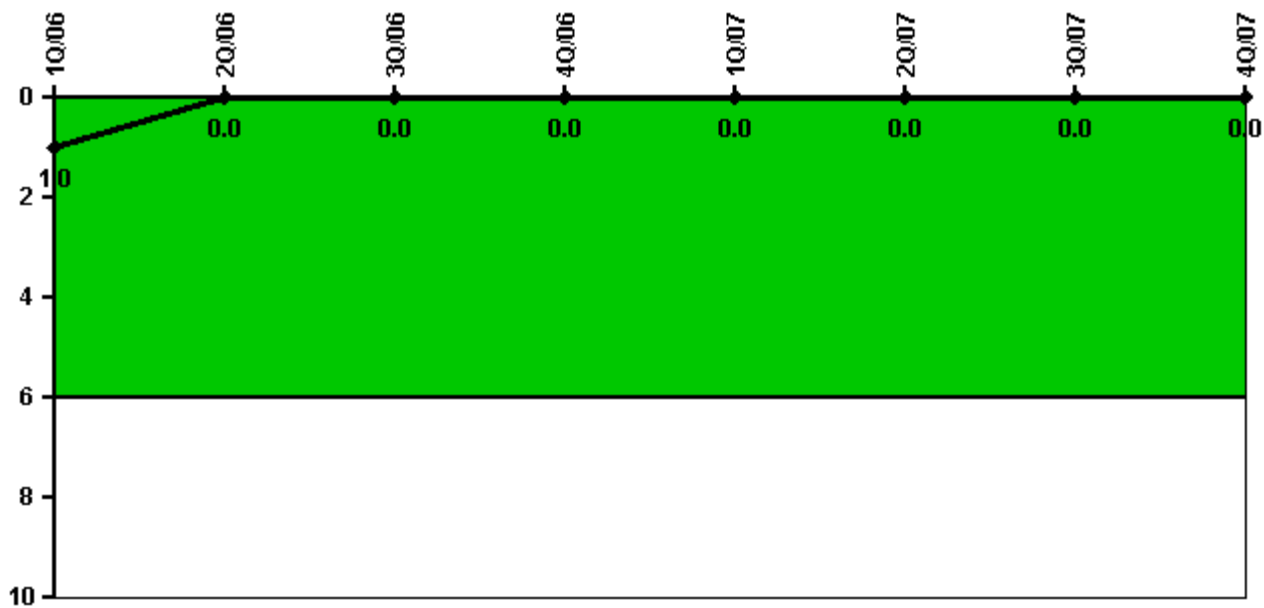
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Scrams with complications				0	0	0	0	0
<b>Indicator value</b>							<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

# Safety System Functional Failures (BWR)



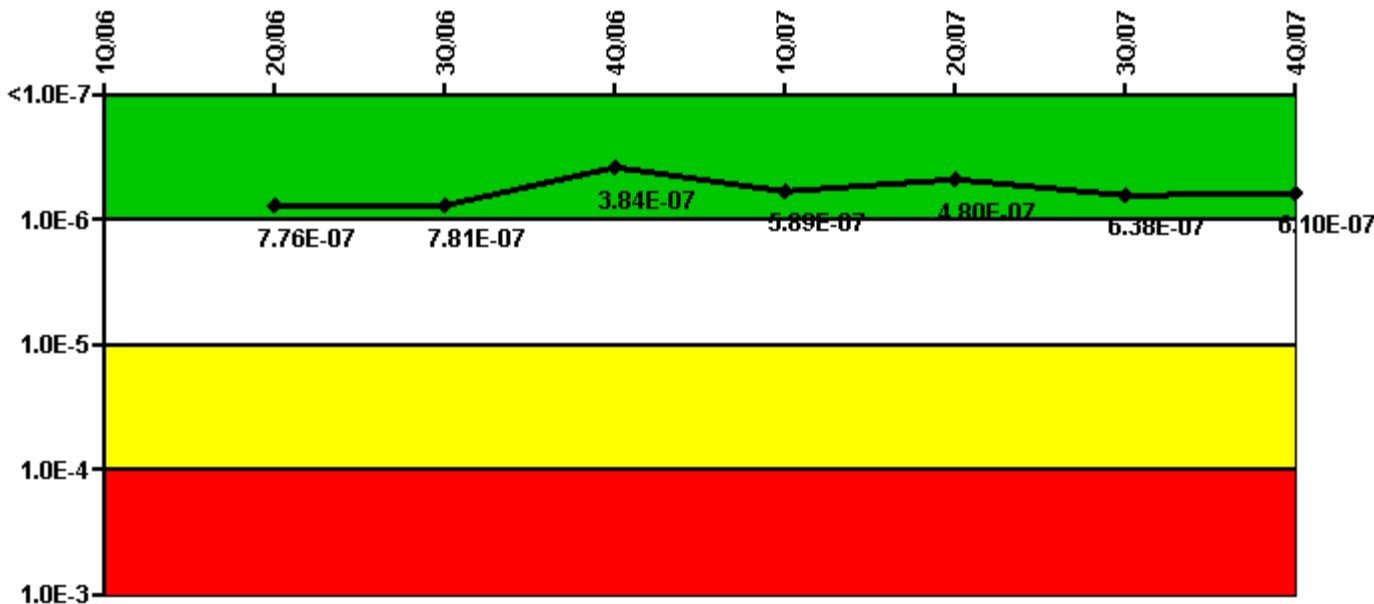
Thresholds: White > 6.0

## Notes

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

# Mitigating Systems Performance Index, Emergency AC Power System



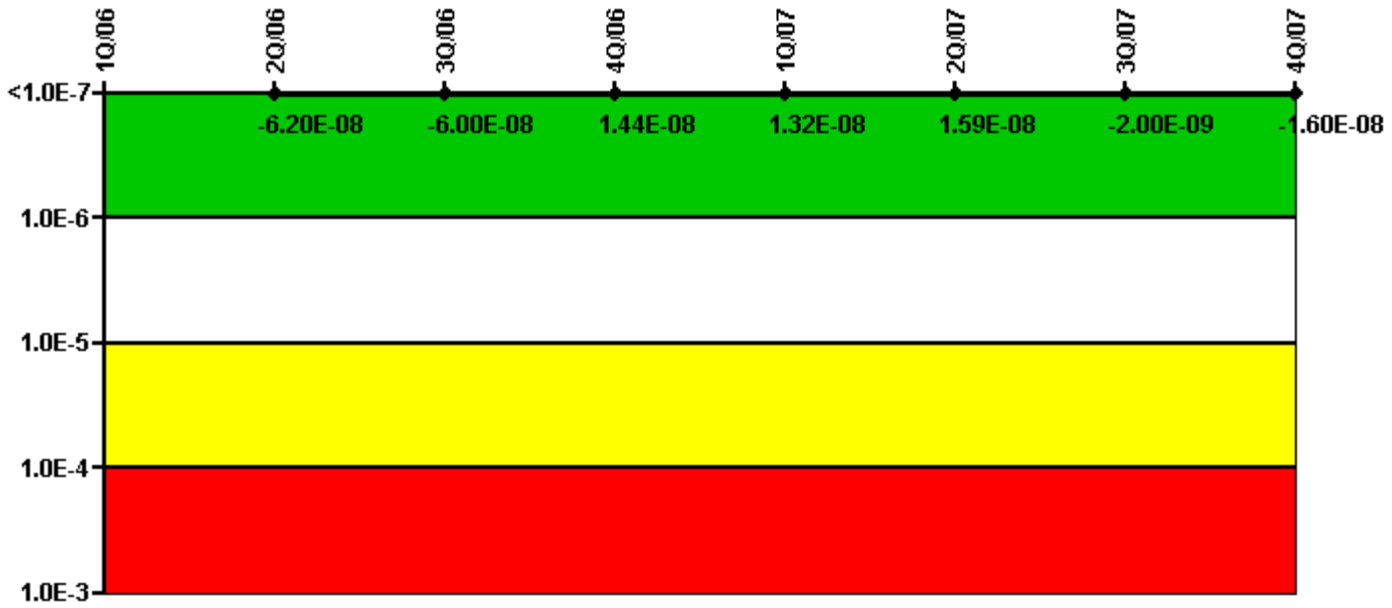
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		5.60E-08	4.10E-08	4.40E-08	5.90E-08	9.00E-08	9.80E-08	1.00E-07
URI ( $\Delta$ CDF)		7.20E-07	7.40E-07	3.40E-07	5.30E-07	3.90E-07	5.40E-07	5.10E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		7.76E-07	7.81E-07	3.84E-07	5.89E-07	4.80E-07	6.38E-07	6.10E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



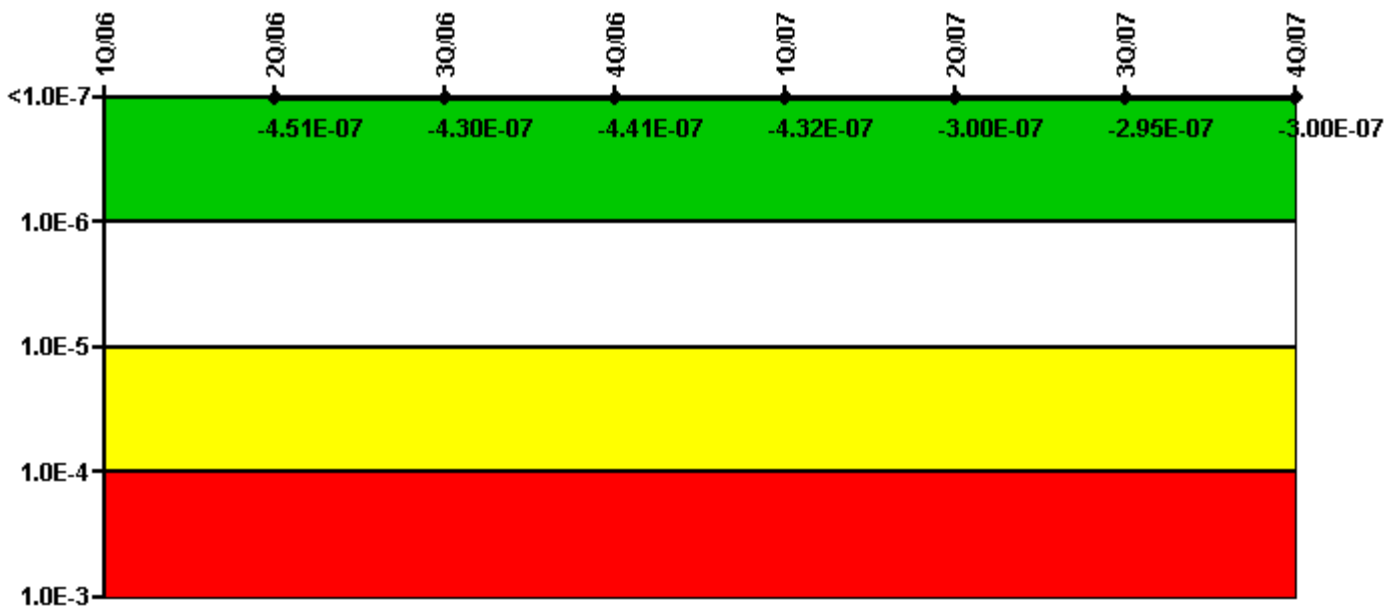
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		-3.40E-08	-3.40E-08	-6.00E-10	5.60E-09	4.90E-09	-2.80E-08	-4.40E-08
URI (ΔCDF)		-2.80E-08	-2.60E-08	1.50E-08	7.60E-09	1.10E-08	2.60E-08	2.80E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-6.20E-08	-6.00E-08	1.44E-08	1.32E-08	1.59E-08	-2.00E-09	-1.60E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



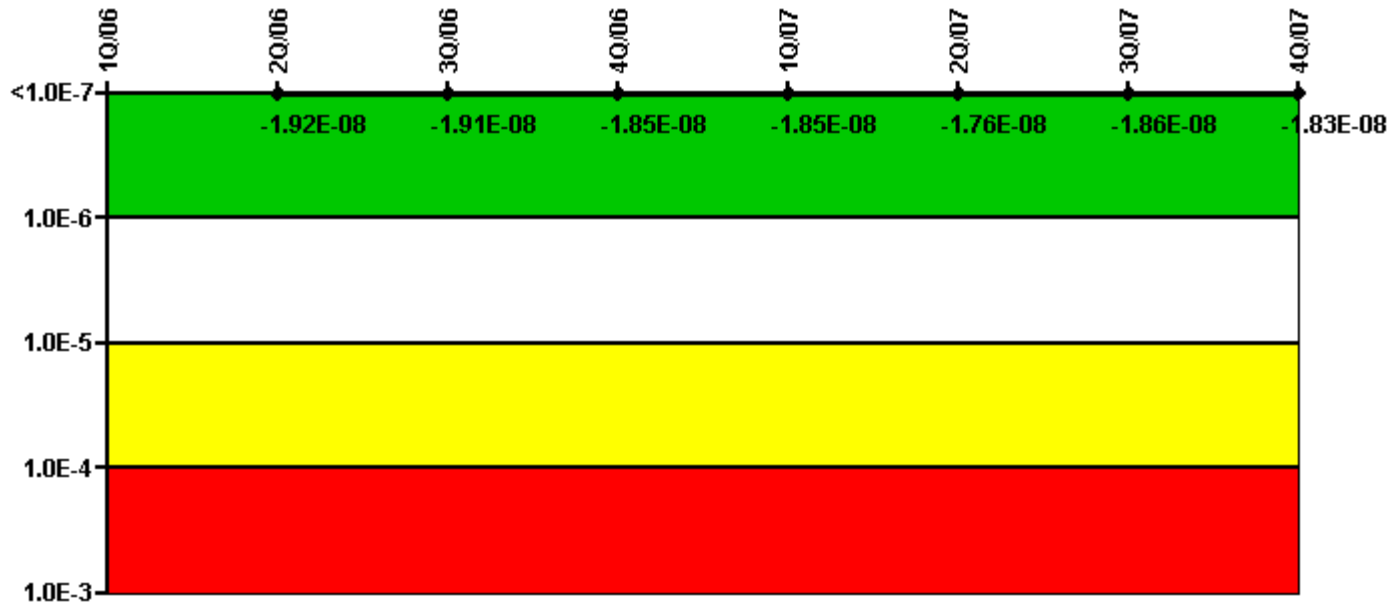
Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		$-5.10E-08$	$-3.00E-08$	$-4.10E-08$	$-4.20E-08$	$1.00E-07$	$9.50E-08$	$9.00E-08$
URI ( $\Delta$ CDF)		$-4.00E-07$	$-4.00E-07$	$-4.00E-07$	$-3.90E-07$	$-4.00E-07$	$-3.90E-07$	$-3.90E-07$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$-4.51E-07$	$-4.30E-07$	$-4.41E-07$	$-4.32E-07$	$-3.00E-07$	$-2.95E-07$	$-3.00E-07$

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



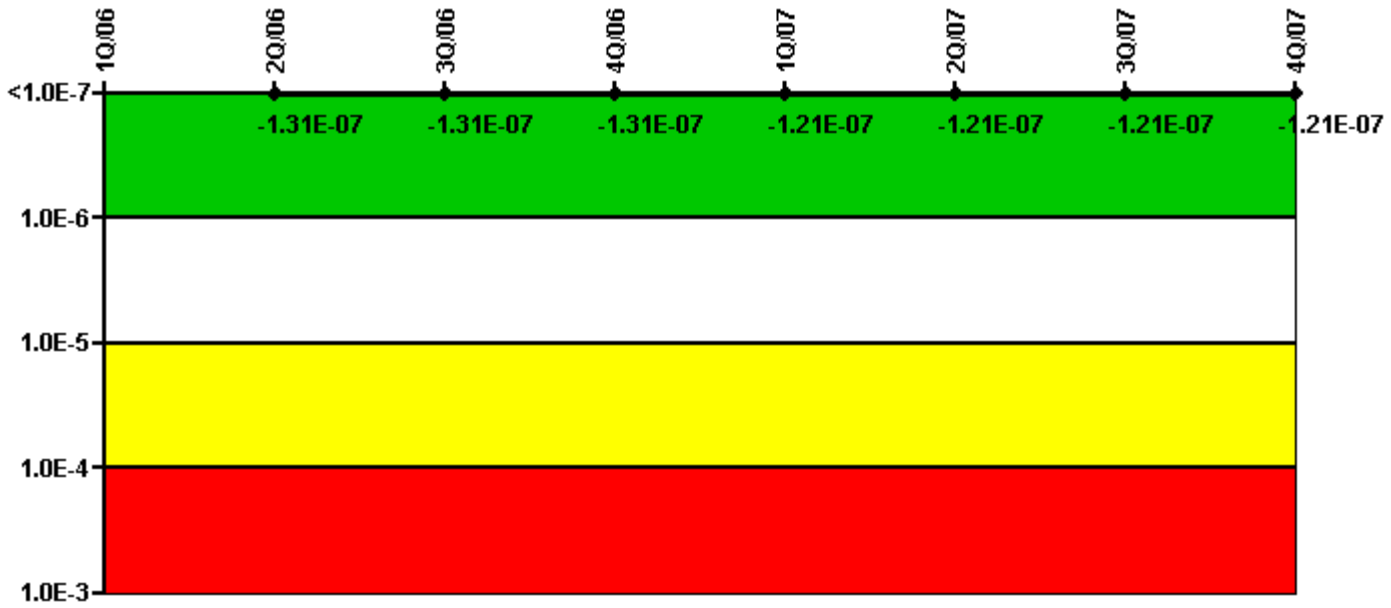
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		-8.20E-09	-8.10E-09	-8.50E-09	-8.50E-09	-7.60E-09	-7.60E-09	-7.30E-09
URI ( $\Delta$ CDF)		-1.10E-08	-1.10E-08	-1.00E-08	-1.00E-08	-1.00E-08	-1.10E-08	-1.10E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-1.92E-08	-1.91E-08	-1.85E-08	-1.85E-08	-1.76E-08	-1.86E-08	-1.83E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



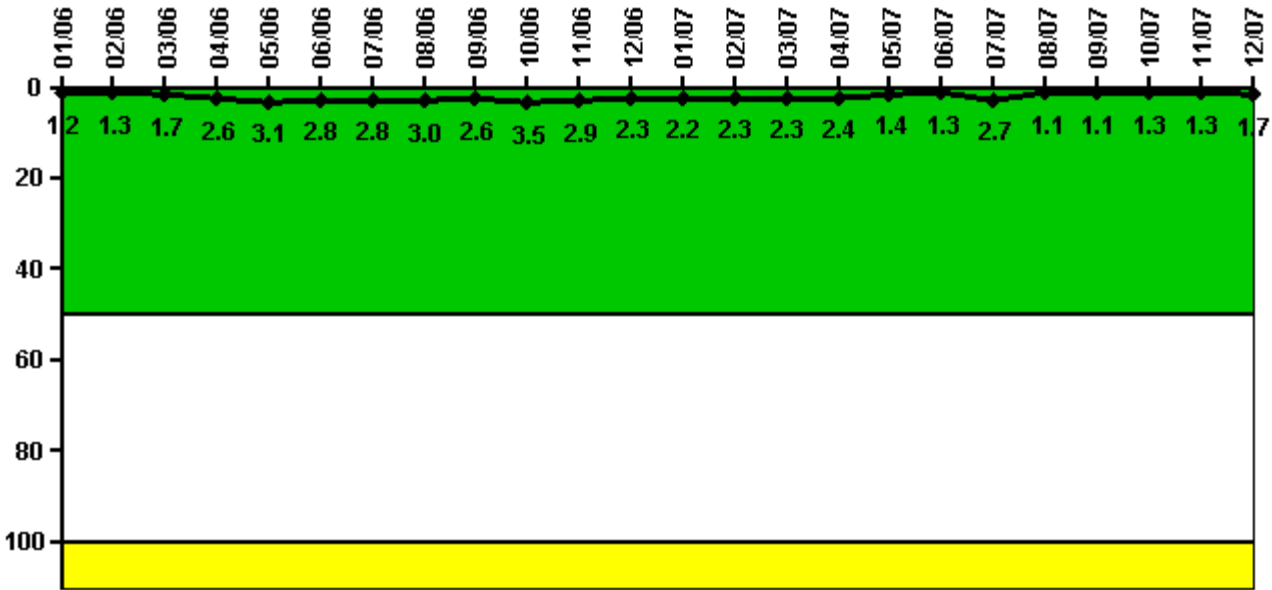
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09
URI ( $\Delta$ CDF)		-1.30E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-1.31E-07	-1.31E-07	-1.31E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

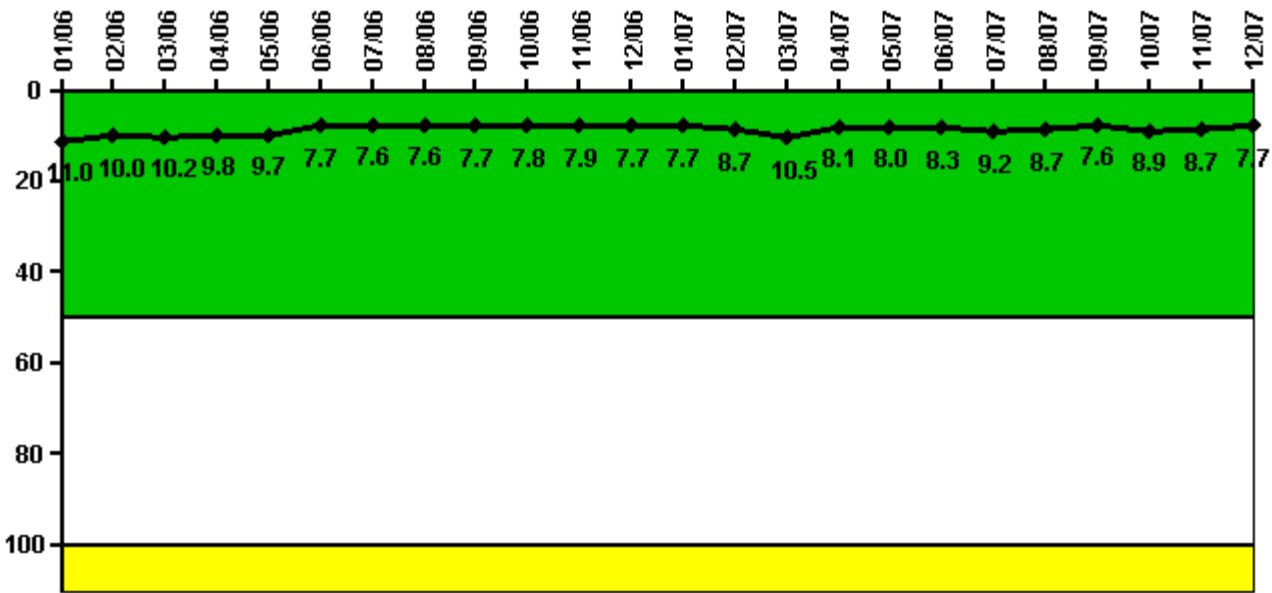
## Notes

Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	0.002400	0.002500	0.003470	0.005100	0.006200	0.005600	0.005510	0.005900	0.005250	0.007000	0.005790	0.004680
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
<b>Indicator value</b>	<b>1.2</b>	<b>1.3</b>	<b>1.7</b>	<b>2.6</b>	<b>3.1</b>	<b>2.8</b>	<b>2.8</b>	<b>3.0</b>	<b>2.6</b>	<b>3.5</b>	<b>2.9</b>	<b>2.3</b>
Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.004440	0.004620	0.004590	0.004790	0.002870	0.002660	0.005360	0.002100	0.002170	0.002670	0.002510	0.003380
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
<b>Indicator value</b>	<b>2.2</b>	<b>2.3</b>	<b>2.3</b>	<b>2.4</b>	<b>1.4</b>	<b>1.3</b>	<b>2.7</b>	<b>1.1</b>	<b>1.1</b>	<b>1.3</b>	<b>1.3</b>	<b>1.7</b>

Licensee Comments: none



# Reactor Coolant System Leakage



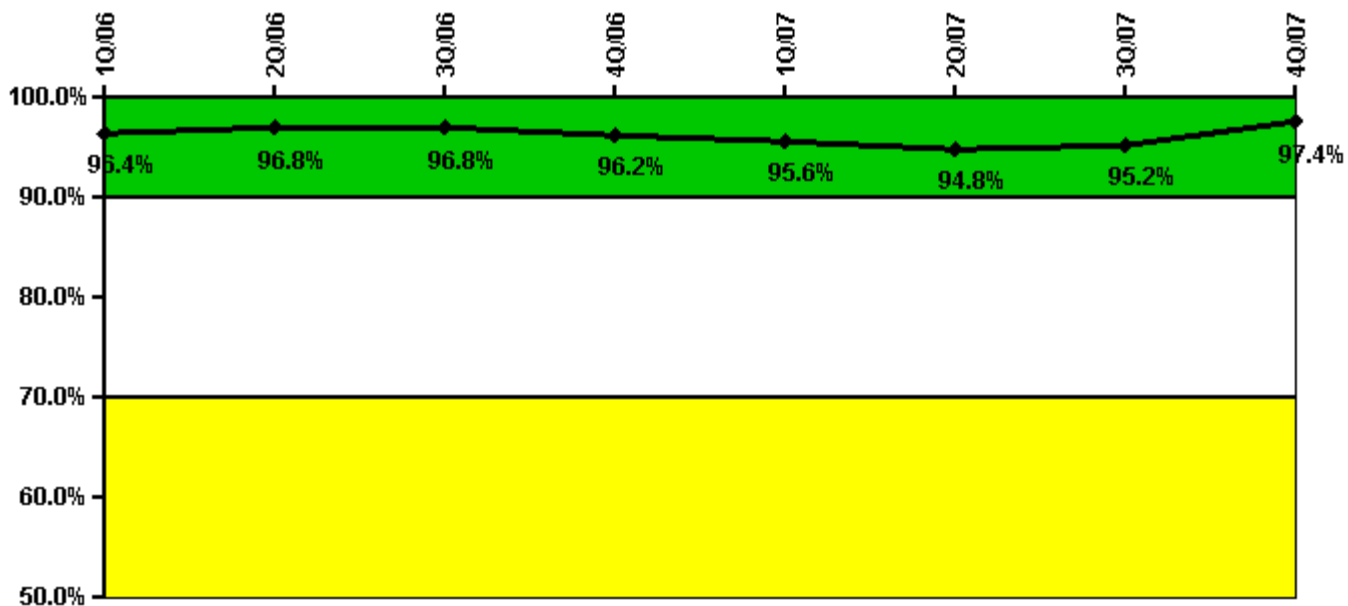
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	3.300	2.990	3.050	2.950	2.920	2.300	2.280	2.290	2.320	2.350	2.380	2.310
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>11.0</b>	<b>10.0</b>	<b>10.2</b>	<b>9.8</b>	<b>9.7</b>	<b>7.7</b>	<b>7.6</b>	<b>7.6</b>	<b>7.7</b>	<b>7.8</b>	<b>7.9</b>	<b>7.7</b>
Reactor Coolant System Leakage	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum leakage	2.300	2.600	3.140	2.420	2.390	2.480	2.770	2.600	2.280	2.680	2.620	2.300
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>7.7</b>	<b>8.7</b>	<b>10.5</b>	<b>8.1</b>	<b>8.0</b>	<b>8.3</b>	<b>9.2</b>	<b>8.7</b>	<b>7.6</b>	<b>8.9</b>	<b>8.7</b>	<b>7.7</b>

Licensee Comments: none

## Drill/Exercise Performance



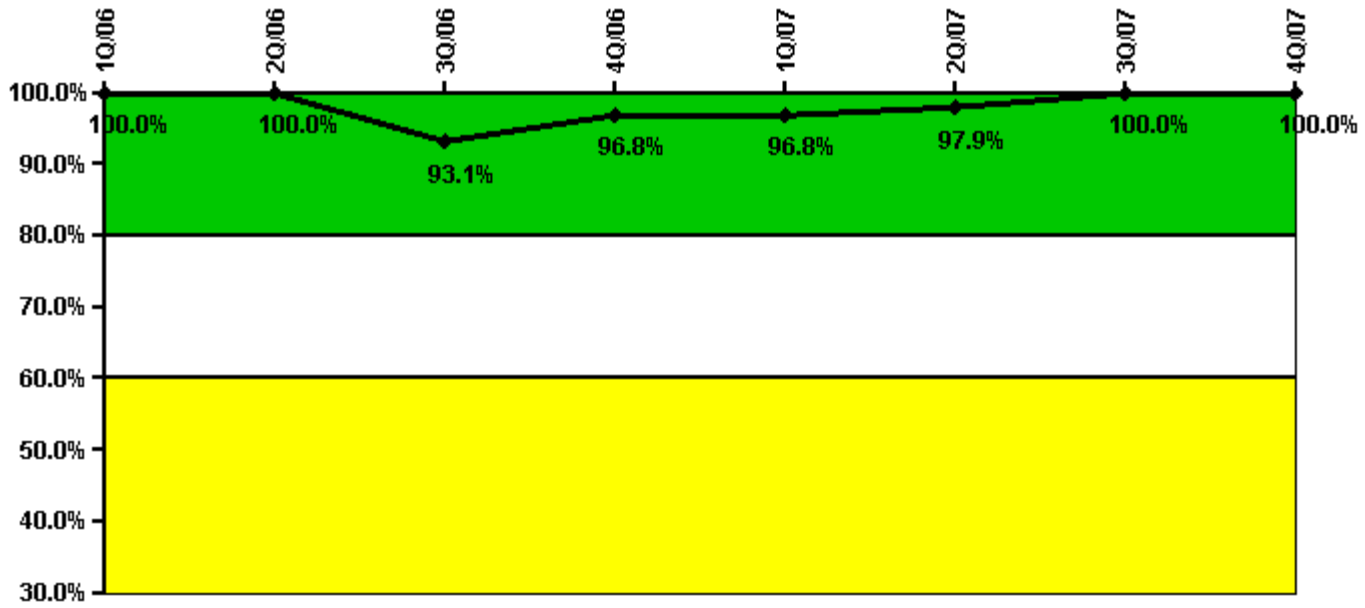
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	19.0	4.0	21.0	43.0	11.0	28.0	24.0	77.0
Total opportunities	20.0	4.0	21.0	45.0	12.0	29.0	24.0	78.0
<b>Indicator value</b>	<b>96.4%</b>	<b>96.8%</b>	<b>96.8%</b>	<b>96.2%</b>	<b>95.6%</b>	<b>94.8%</b>	<b>95.2%</b>	<b>97.4%</b>

Licensee Comments: none

# ERO Drill Participation



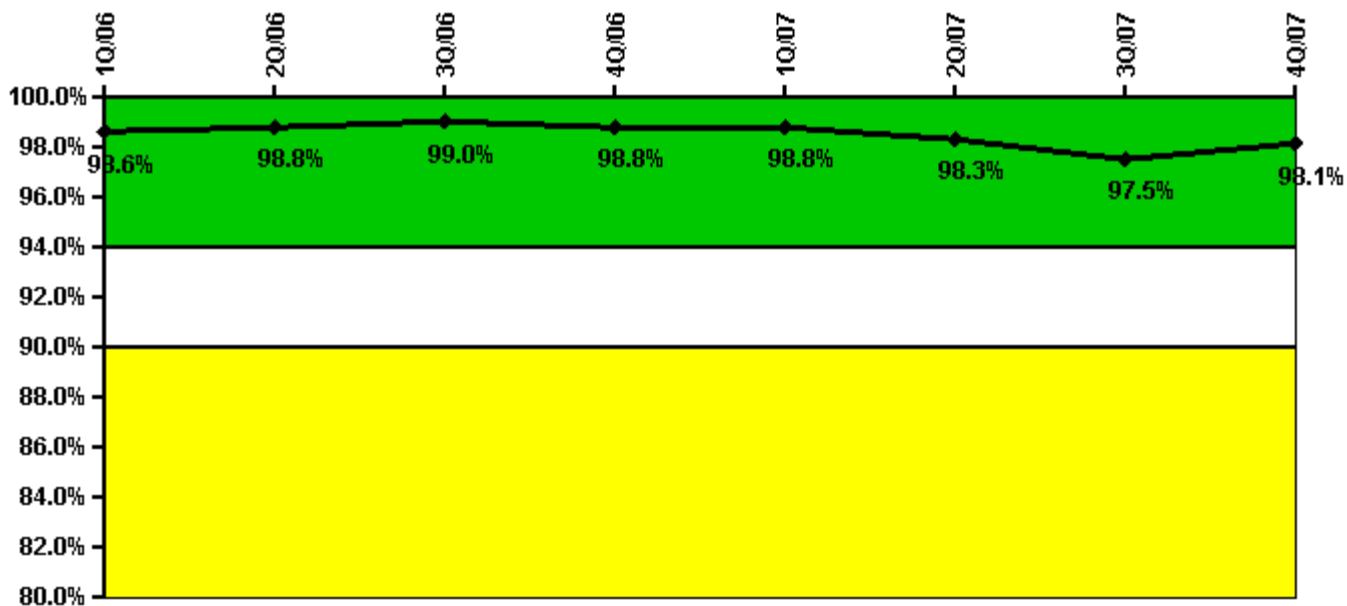
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	92.0	86.0	81.0	90.0	90.0	92.0	90.0	83.0
Total Key personnel	92.0	86.0	87.0	93.0	93.0	94.0	90.0	83.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>93.1%</b>	<b>96.8%</b>	<b>96.8%</b>	<b>97.9%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments: none

# Alert & Notification System



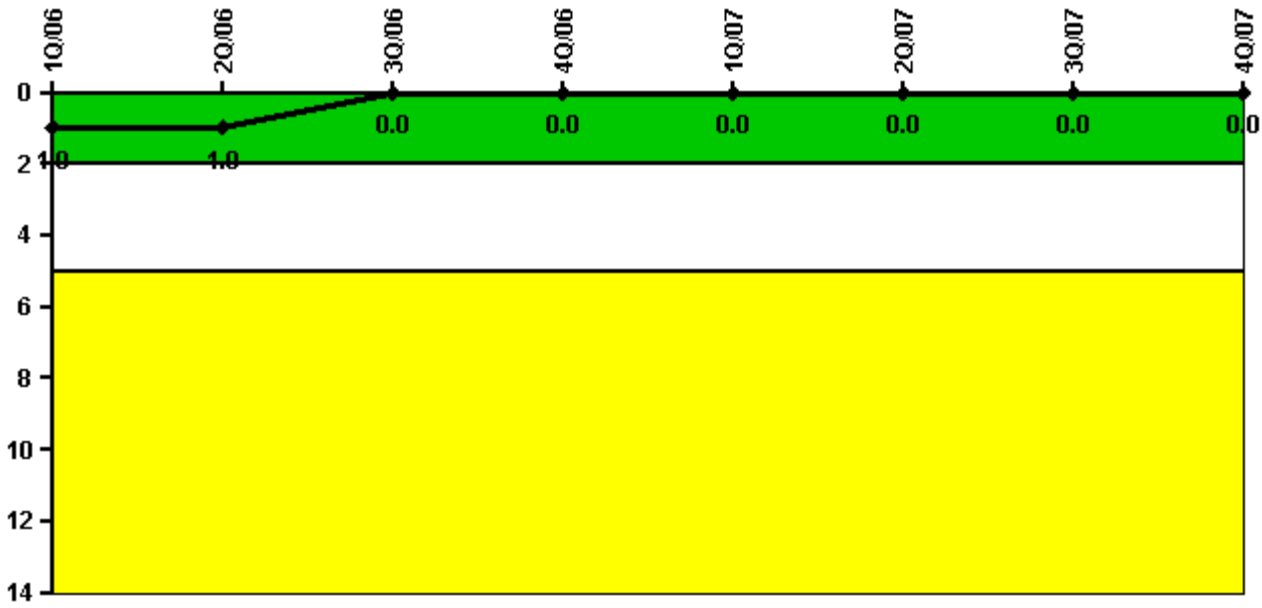
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	128	129	127	126	128	126	123	129
Total sirens-tests	129	129	129	129	129	129	129	129
<b>Indicator value</b>	<b>98.6%</b>	<b>98.8%</b>	<b>99.0%</b>	<b>98.8%</b>	<b>98.8%</b>	<b>98.3%</b>	<b>97.5%</b>	<b>98.1%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



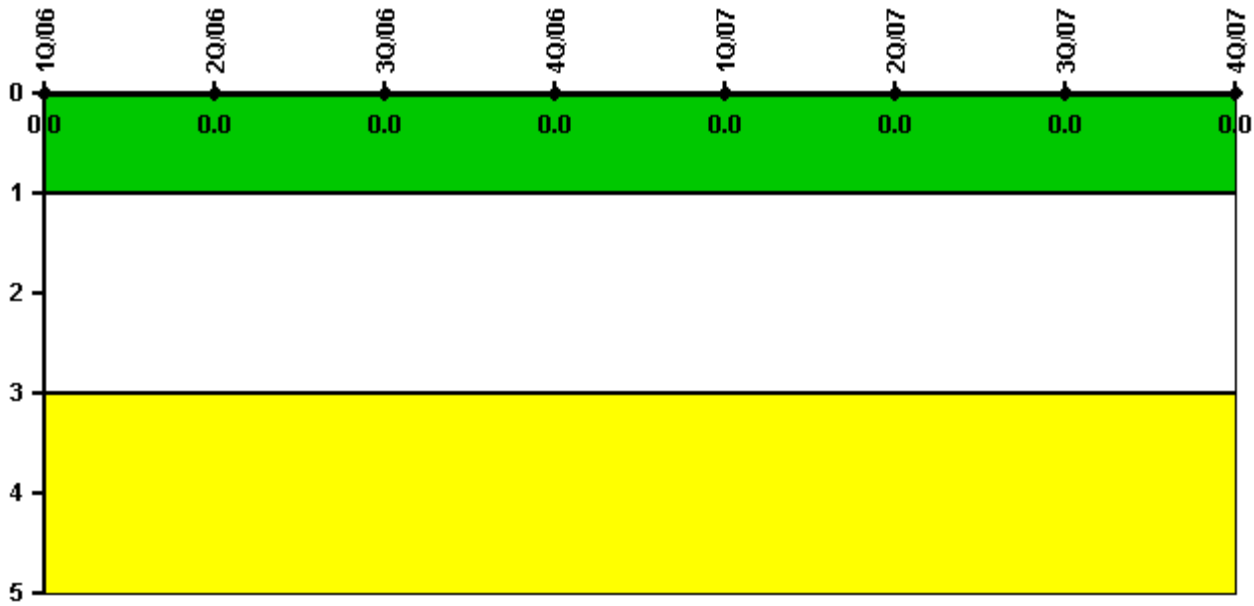
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/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>1</b>	<b>1</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	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
RETS/ODCM 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

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

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

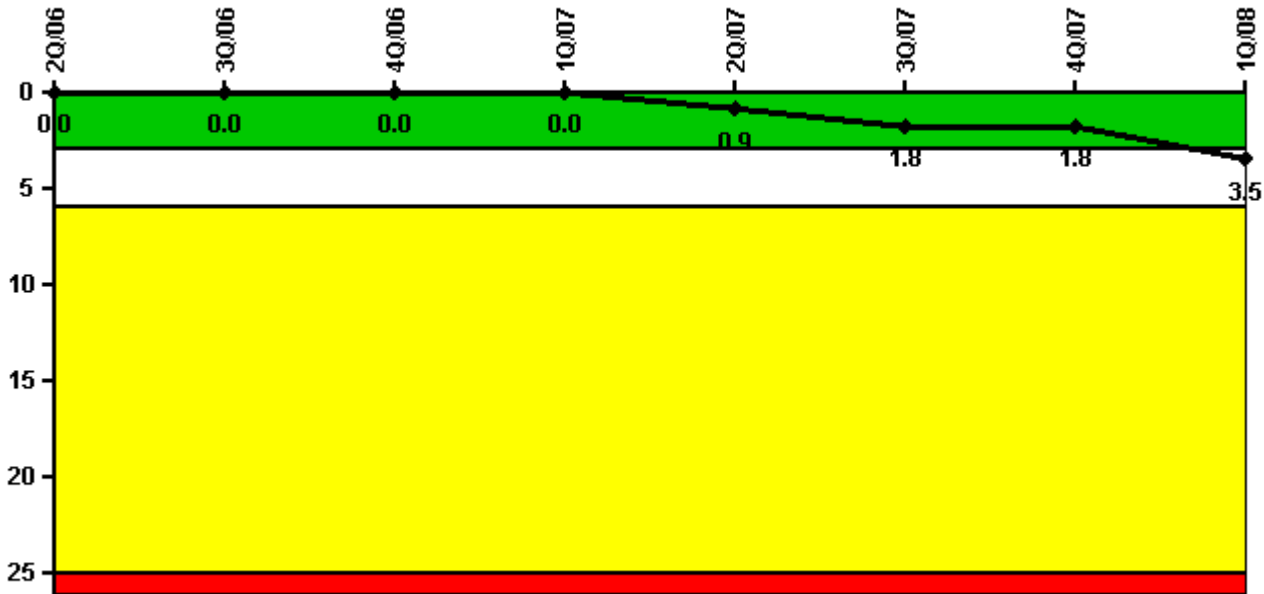
Last Modified: February 4, 2008

# Grand Gulf 1

## 1Q/2008 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



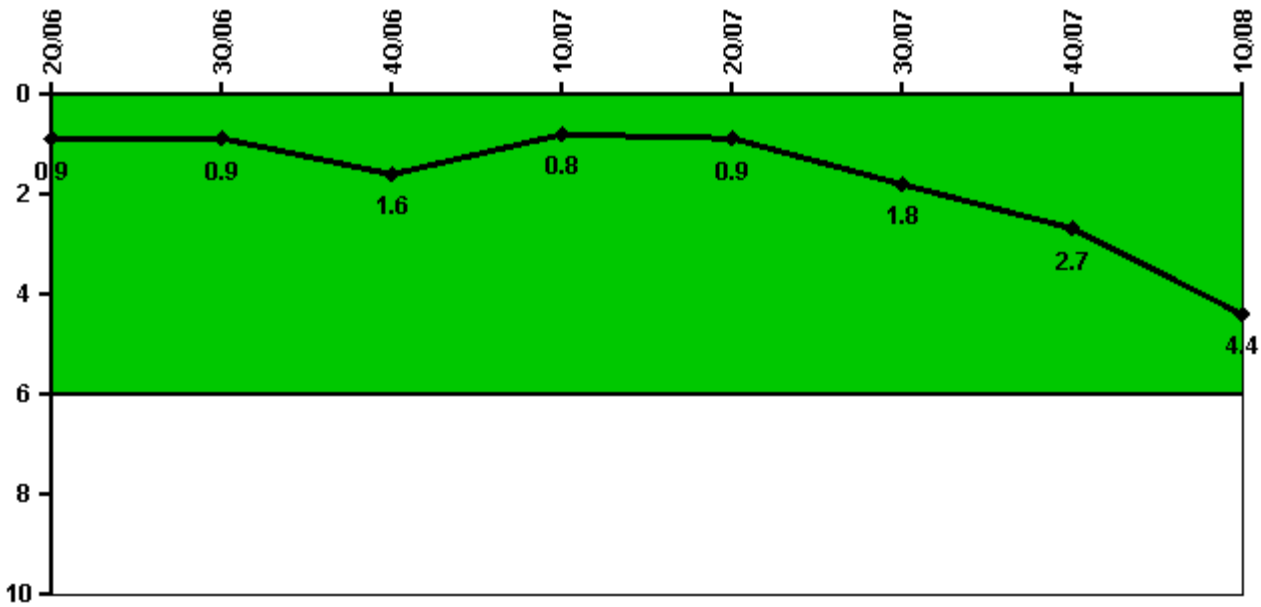
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	0	0	0	1.0	1.0	0	2.0
Critical hours	2016.3	2208.0	2209.0	1843.0	1817.7	1863.9	2209.0	2020.5
Indicator value	0	0	0	0	0.9	1.8	1.8	3.5

Licensee Comments: none

# Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

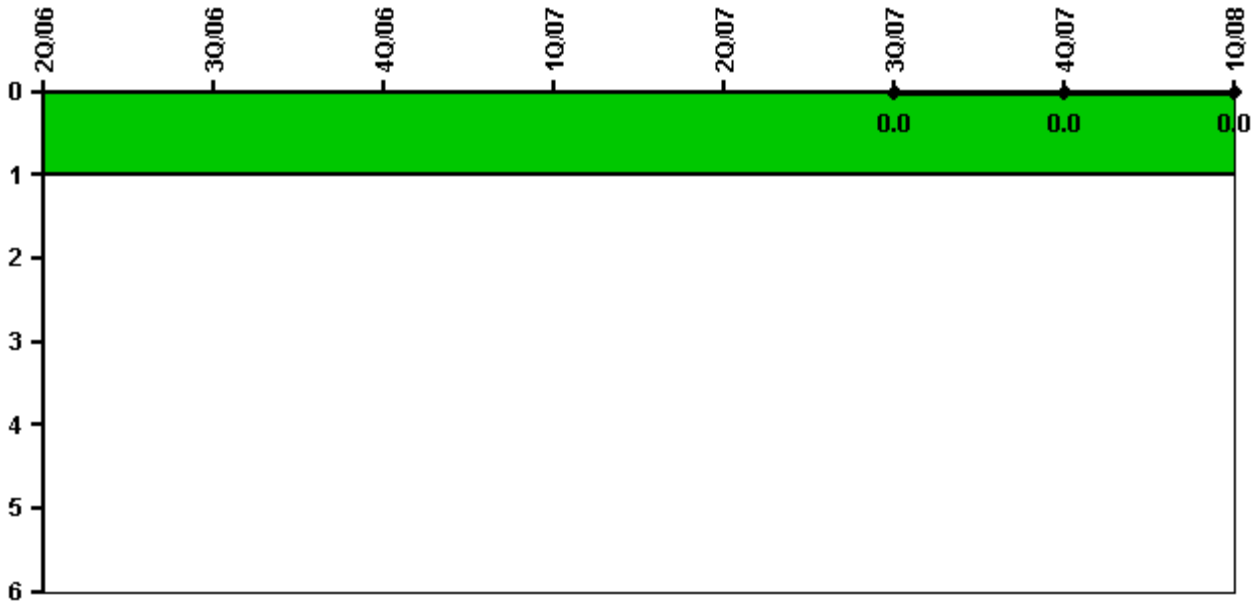
## Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	0	1.0	0	0	1.0	2.0	2.0
Critical hours	2016.3	2208.0	2209.0	1843.0	1817.7	1863.9	2209.0	2020.5
Indicator value	0.9	0.9	1.6	0.8	0.9	1.8	2.7	4.4

Licensee Comments: none



# Unplanned Scrams with Complications



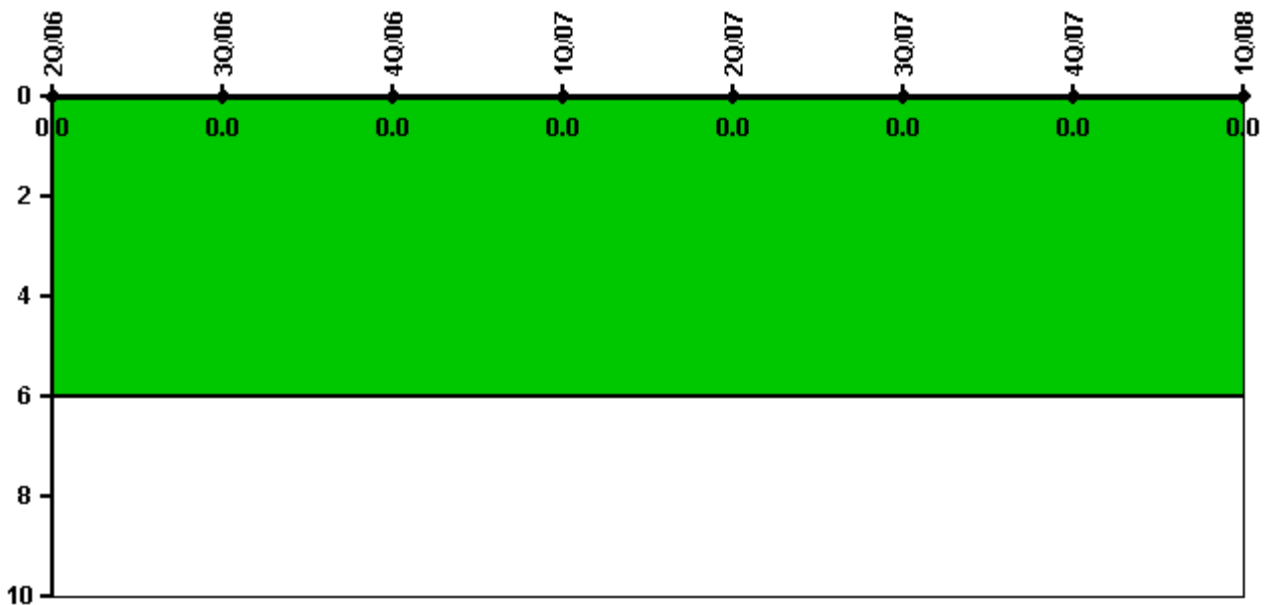
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Scrams with complications			0	0	0	0	0	0
<b>Indicator value</b>						<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

# Safety System Functional Failures (BWR)



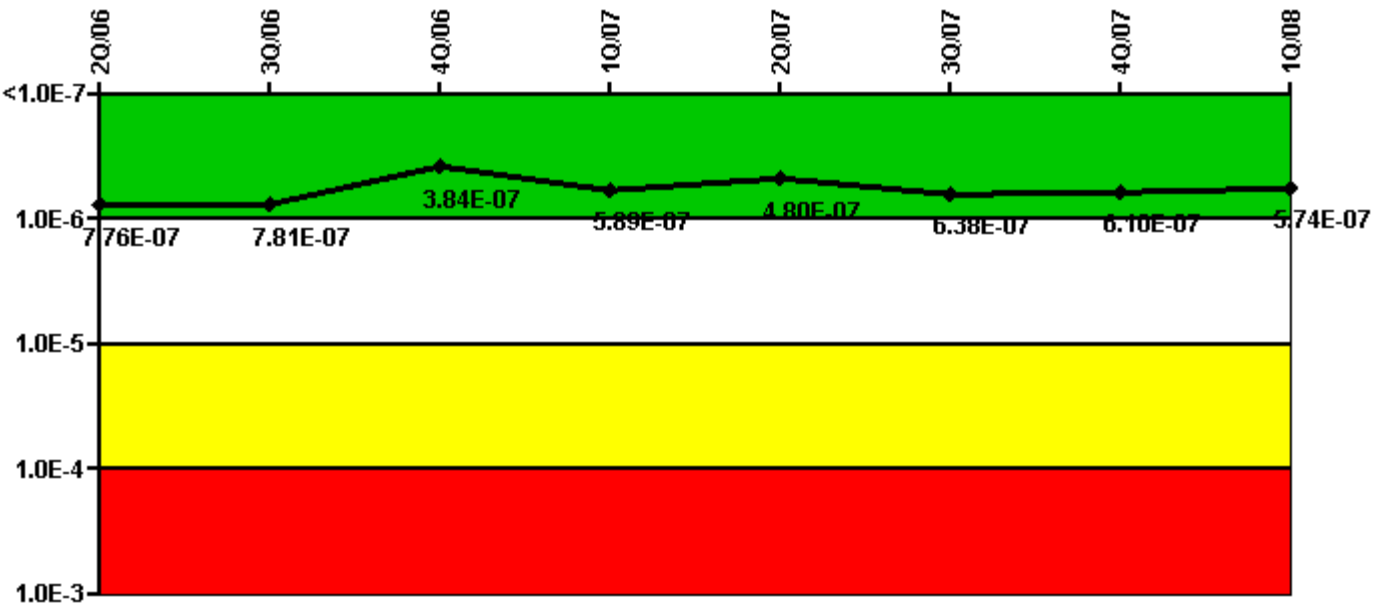
Thresholds: White > 6.0

## Notes

Safety System Functional Failures (BWR)	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Safety System Functional Failures	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

# Mitigating Systems Performance Index, Emergency AC Power System



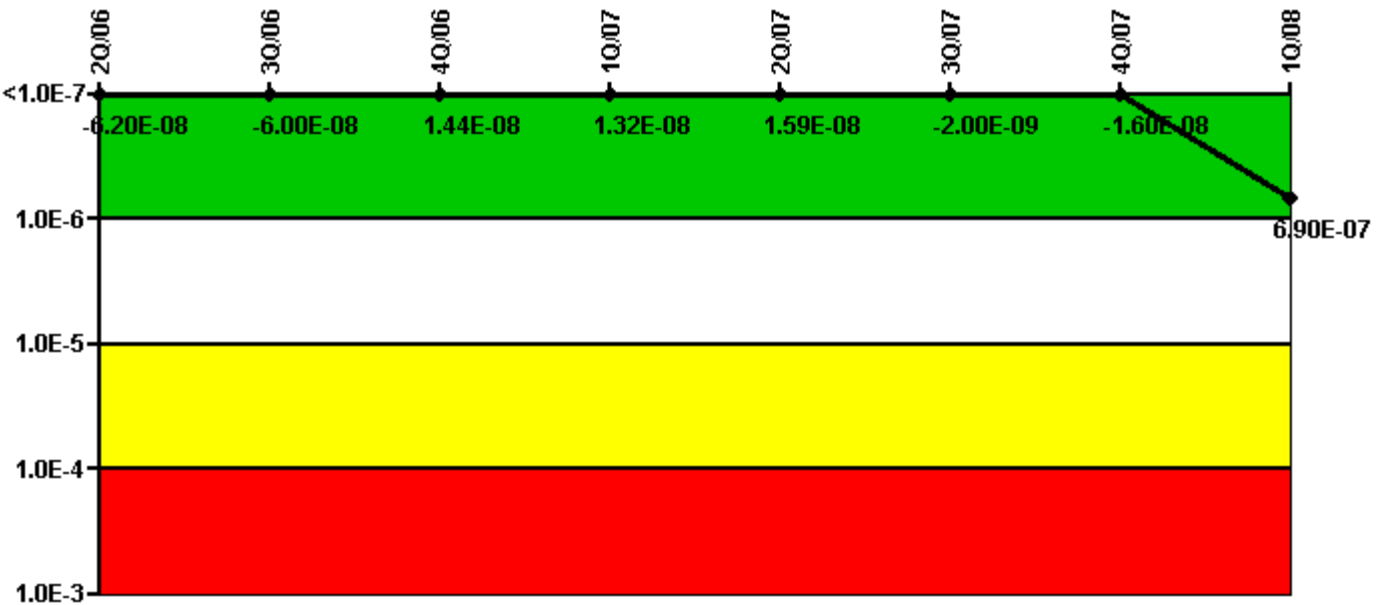
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	5.60E-08	4.10E-08	4.40E-08	5.90E-08	9.00E-08	9.80E-08	1.00E-07	6.40E-08
URI (ΔCDF)	7.20E-07	7.40E-07	3.40E-07	5.30E-07	3.90E-07	5.40E-07	5.10E-07	5.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.76E-07	7.81E-07	3.84E-07	5.89E-07	4.80E-07	6.38E-07	6.10E-07	5.74E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



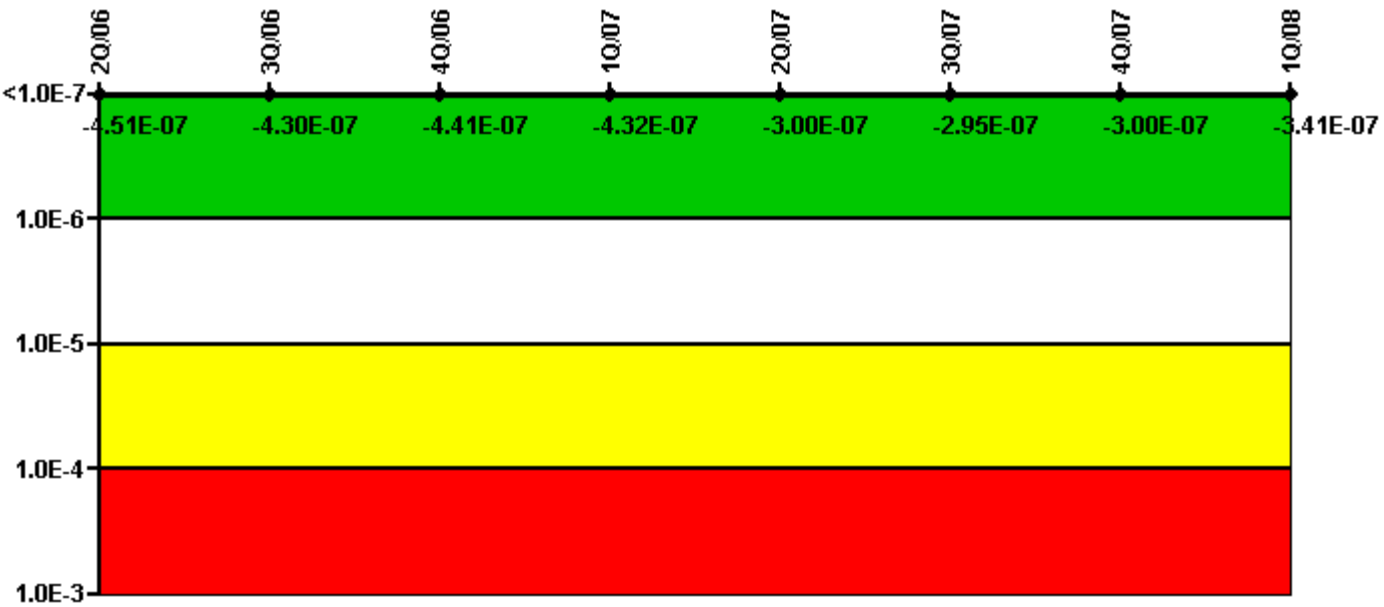
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI ( $\Delta$ CDF)	-3.40E-08	-3.40E-08	-6.00E-10	5.60E-09	4.90E-09	-2.80E-08	-4.40E-08	4.90E-07
URI ( $\Delta$ CDF)	-2.80E-08	-2.60E-08	1.50E-08	7.60E-09	1.10E-08	2.60E-08	2.80E-08	2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.20E-08	-6.00E-08	1.44E-08	1.32E-08	1.59E-08	-2.00E-09	-1.60E-08	6.90E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



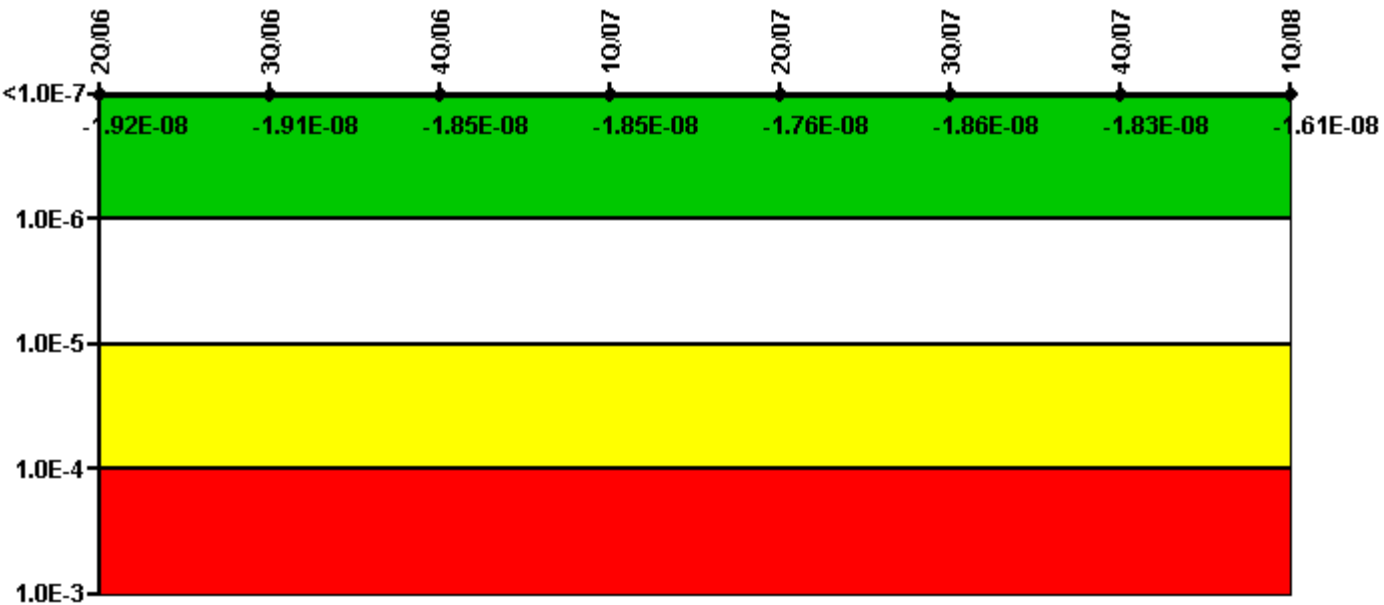
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI ( $\Delta$ CDF)	-5.10E-08	-3.00E-08	-4.10E-08	-4.20E-08	1.00E-07	9.50E-08	9.00E-08	3.90E-08
URI ( $\Delta$ CDF)	-4.00E-07	-4.00E-07	-4.00E-07	-3.90E-07	-4.00E-07	-3.90E-07	-3.90E-07	-3.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.51E-07	-4.30E-07	-4.41E-07	-4.32E-07	-3.00E-07	-2.95E-07	-3.00E-07	-3.41E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



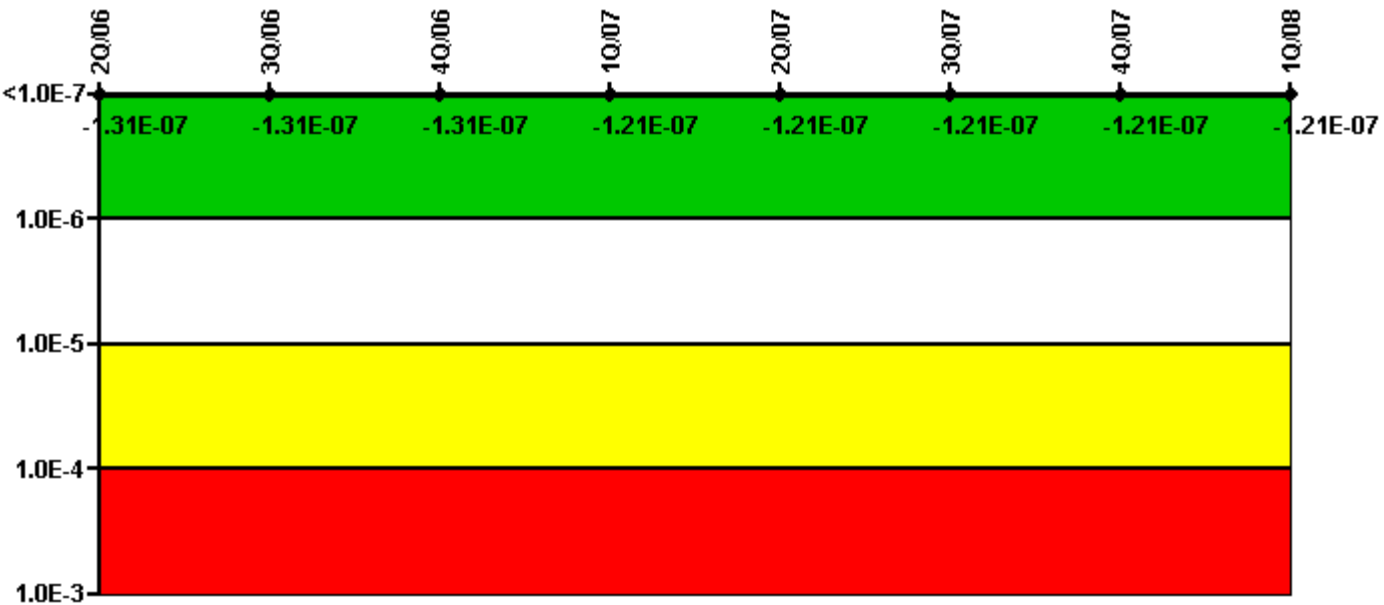
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI ( $\Delta$ CDF)	-8.20E-09	-8.10E-09	-8.50E-09	-8.50E-09	-7.60E-09	-7.60E-09	-7.30E-09	-5.10E-09
URI ( $\Delta$ CDF)	-1.10E-08	-1.10E-08	-1.00E-08	-1.00E-08	-1.00E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.92E-08	-1.91E-08	-1.85E-08	-1.85E-08	-1.76E-08	-1.86E-08	-1.83E-08	-1.61E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



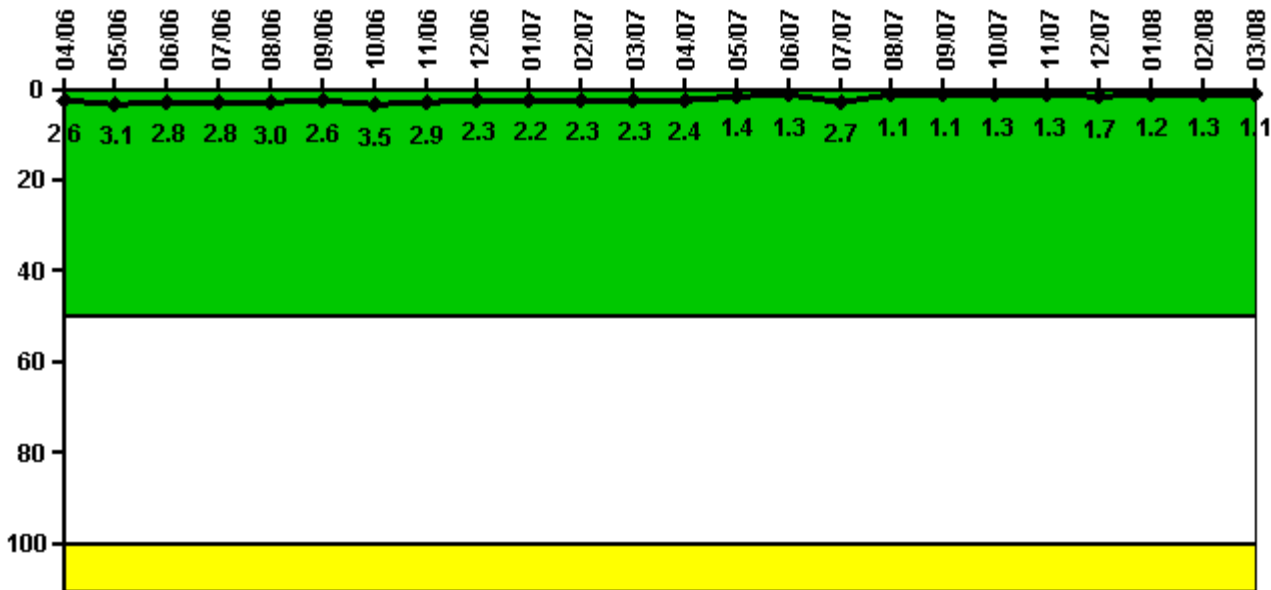
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09
URI (ΔCDF)	-1.30E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.31E-07	-1.31E-07	-1.31E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	0.005100	0.006200	0.005600	0.005510	0.005900	0.005250	0.007000	0.005790	0.004680	0.004440	0.004620	0.004590
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	2.6	3.1	2.8	2.8	3.0	2.6	3.5	2.9	2.3	2.2	2.3	2.3

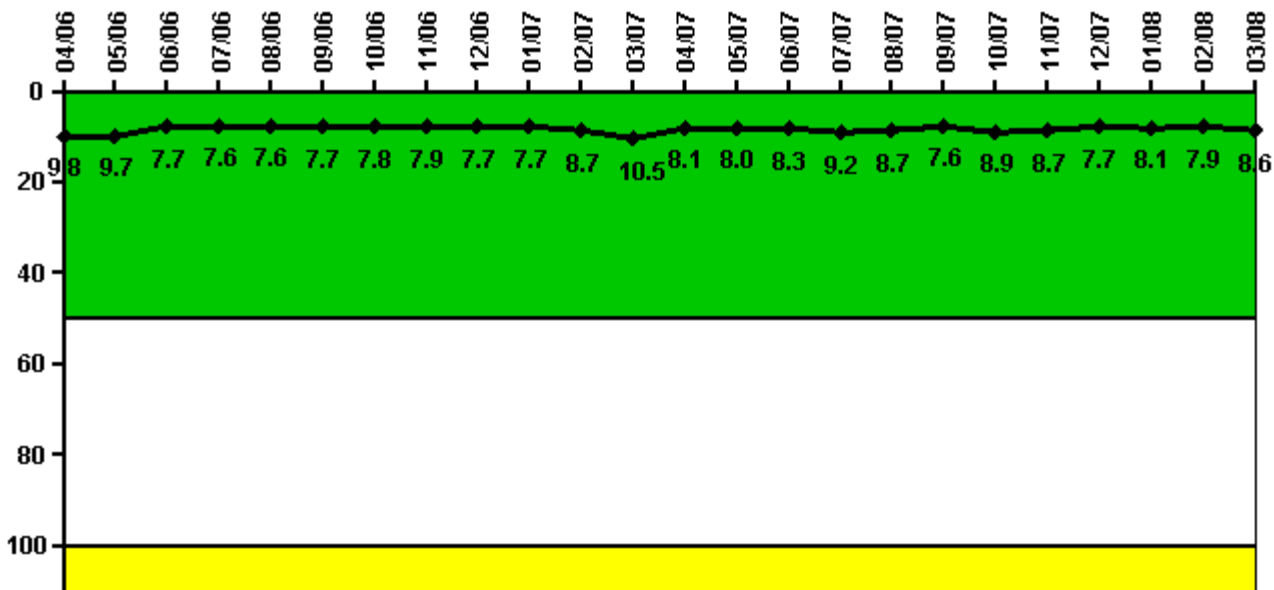
  

Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	0.004790	0.002870	0.002660	0.005360	0.002100	0.002170	0.002670	0.002510	0.003380	0.002370	0.002660	0.002120
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	2.4	1.4	1.3	2.7	1.1	1.1	1.3	1.3	1.7	1.2	1.3	1.1

Licensee Comments: none



# Reactor Coolant System Leakage



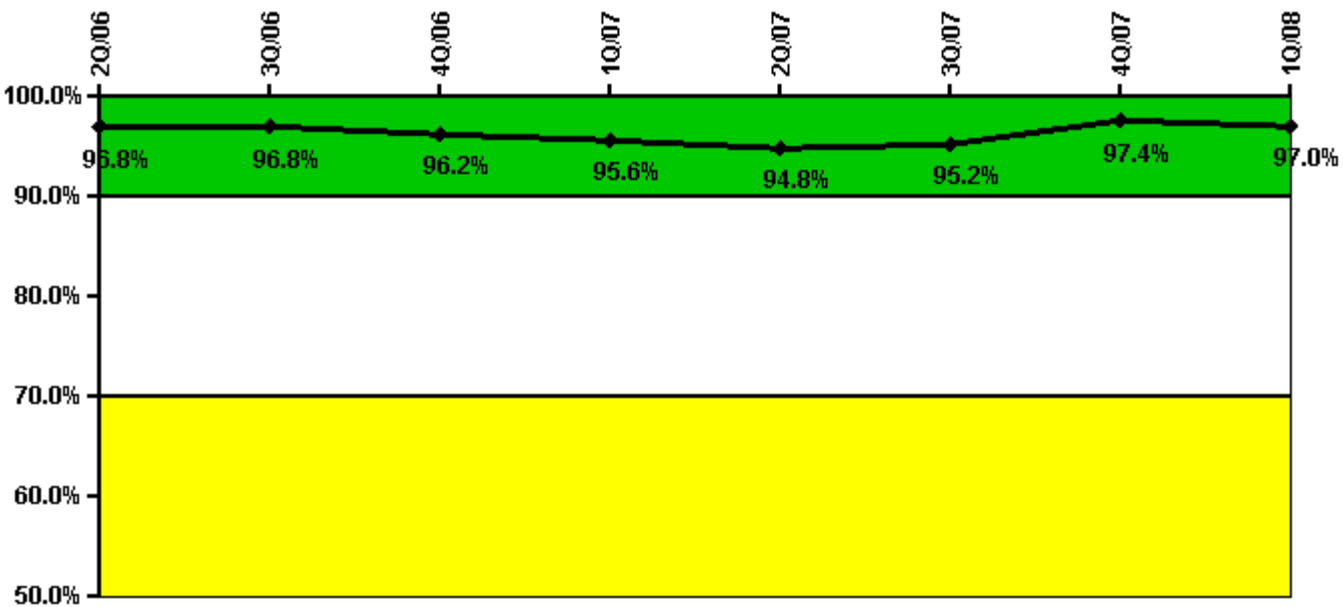
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	2.950	2.920	2.300	2.280	2.290	2.320	2.350	2.380	2.310	2.300	2.600	3.140
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.8	9.7	7.7	7.6	7.6	7.7	7.8	7.9	7.7	7.7	8.7	10.5
Reactor Coolant System Leakage	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum leakage	2.420	2.390	2.480	2.770	2.600	2.280	2.680	2.620	2.300	2.420	2.380	2.570
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.1	8.0	8.3	9.2	8.7	7.6	8.9	8.7	7.7	8.1	7.9	8.6

Licensee Comments: none

# Drill/Exercise Performance



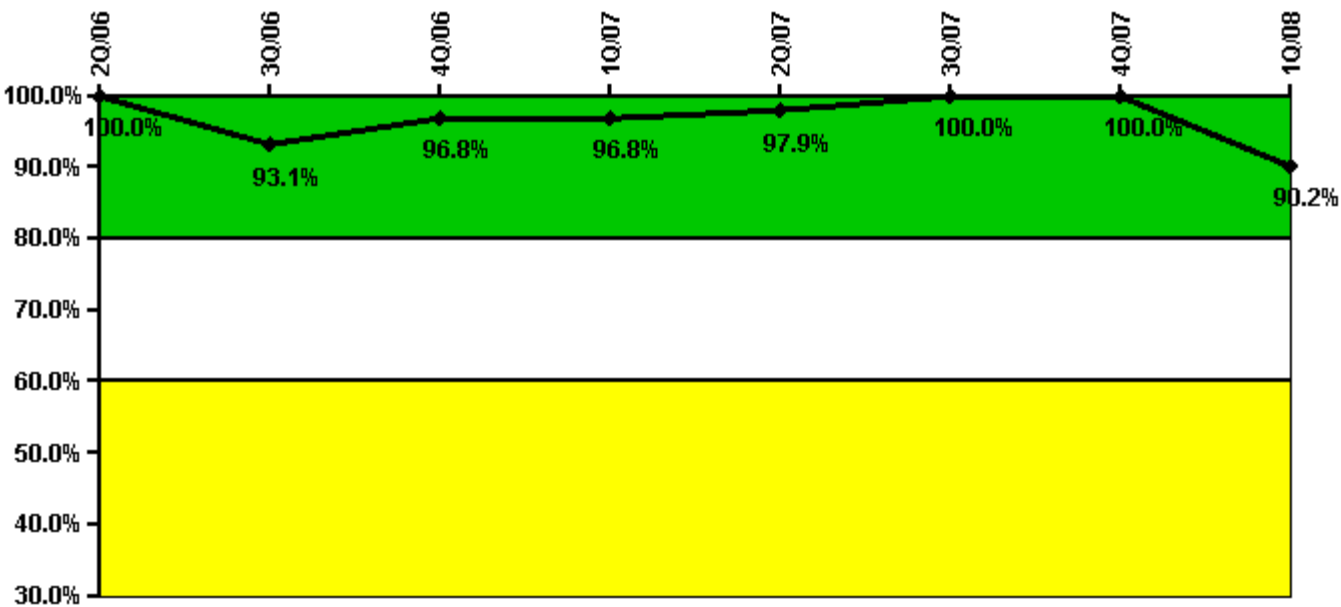
Thresholds: White < 90.0% Yellow < 70.0%

## Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	4.0	21.0	43.0	11.0	28.0	24.0	77.0	20.0
Total opportunities	4.0	21.0	45.0	12.0	29.0	24.0	78.0	22.0
<b>Indicator value</b>	<b>96.8%</b>	<b>96.8%</b>	<b>96.2%</b>	<b>95.6%</b>	<b>94.8%</b>	<b>95.2%</b>	<b>97.4%</b>	<b>97.0%</b>

Licensee Comments: none

# ERO Drill Participation



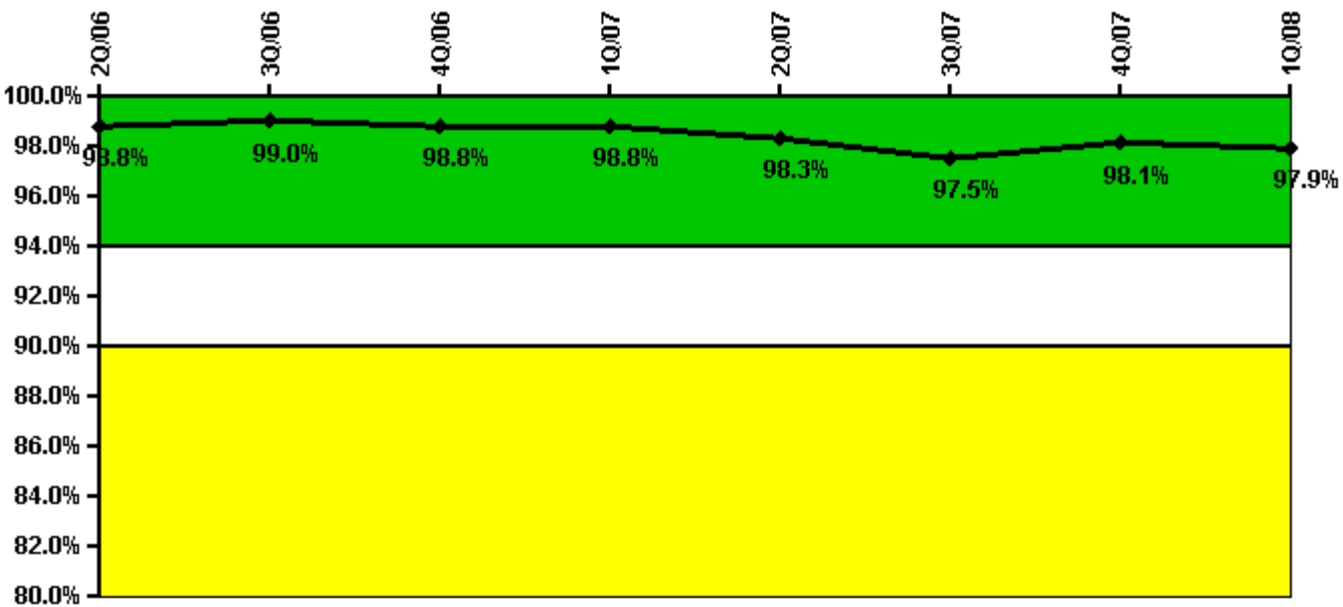
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	86.0	81.0	90.0	90.0	92.0	90.0	83.0	74.0
Total Key personnel	86.0	87.0	93.0	93.0	94.0	90.0	83.0	82.0
Indicator value	100.0%	93.1%	96.8%	96.8%	97.9%	100.0%	100.0%	90.2%

Licensee Comments: none

# Alert & Notification System



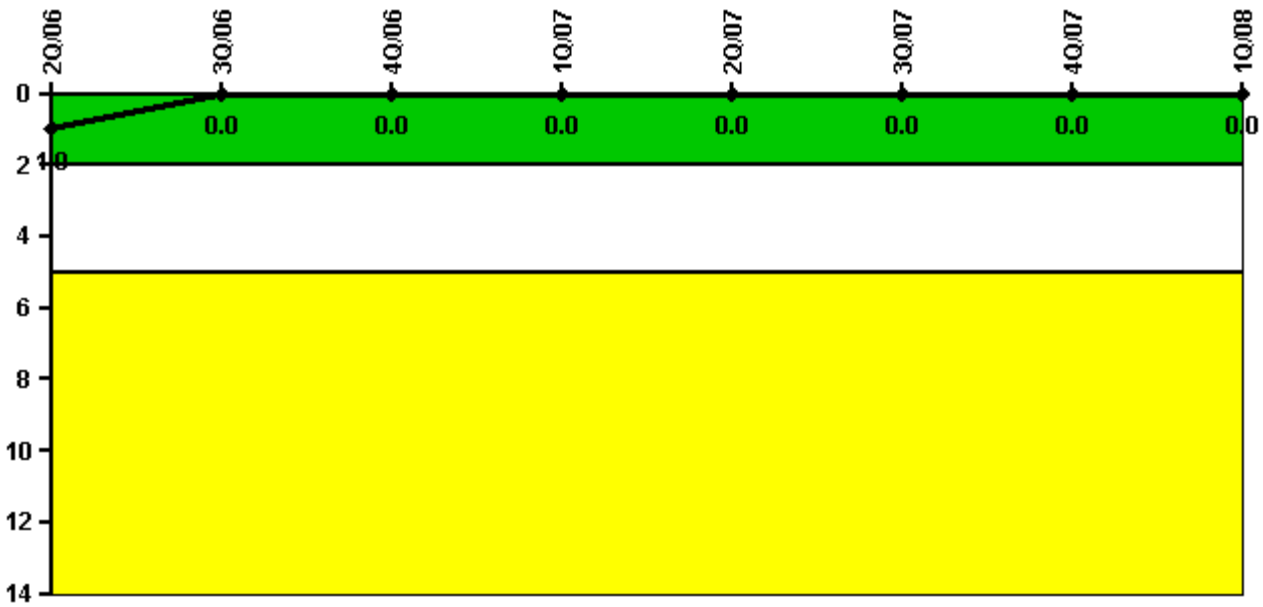
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	129	127	126	128	126	123	129	127
Total sirens-tests	129	129	129	129	129	129	129	129
Indicator value	98.8%	99.0%	98.8%	98.8%	98.3%	97.5%	98.1%	97.9%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



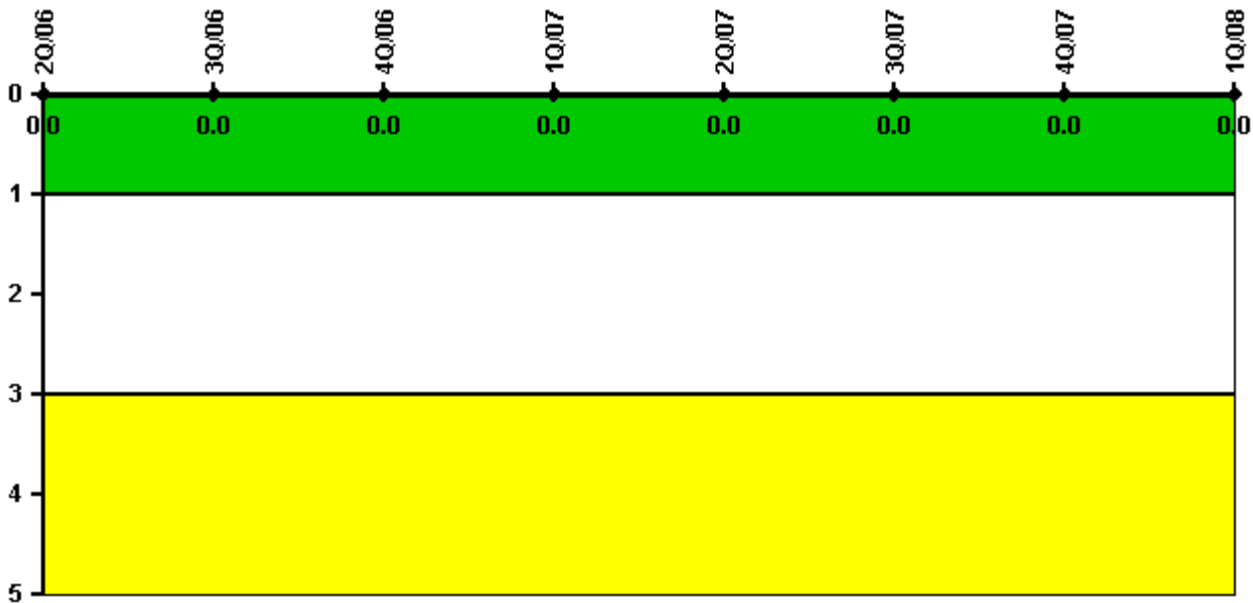
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
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>1</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/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
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](#)

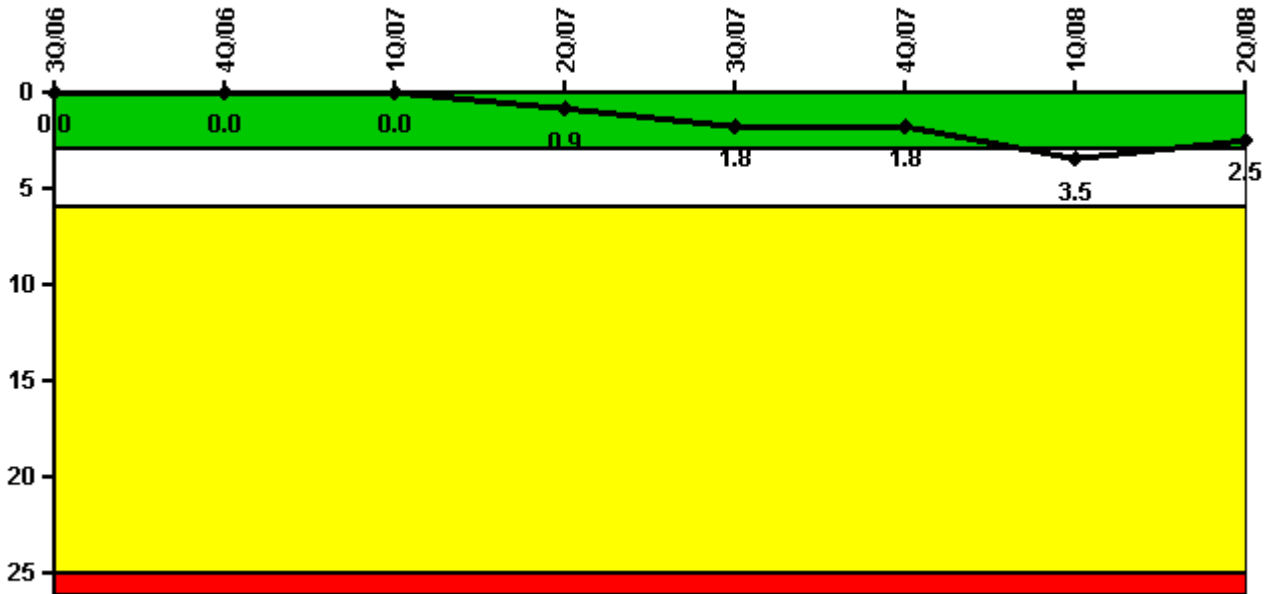
Last Modified: April 30, 2008

# Grand Gulf 1

## 2Q/2008 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



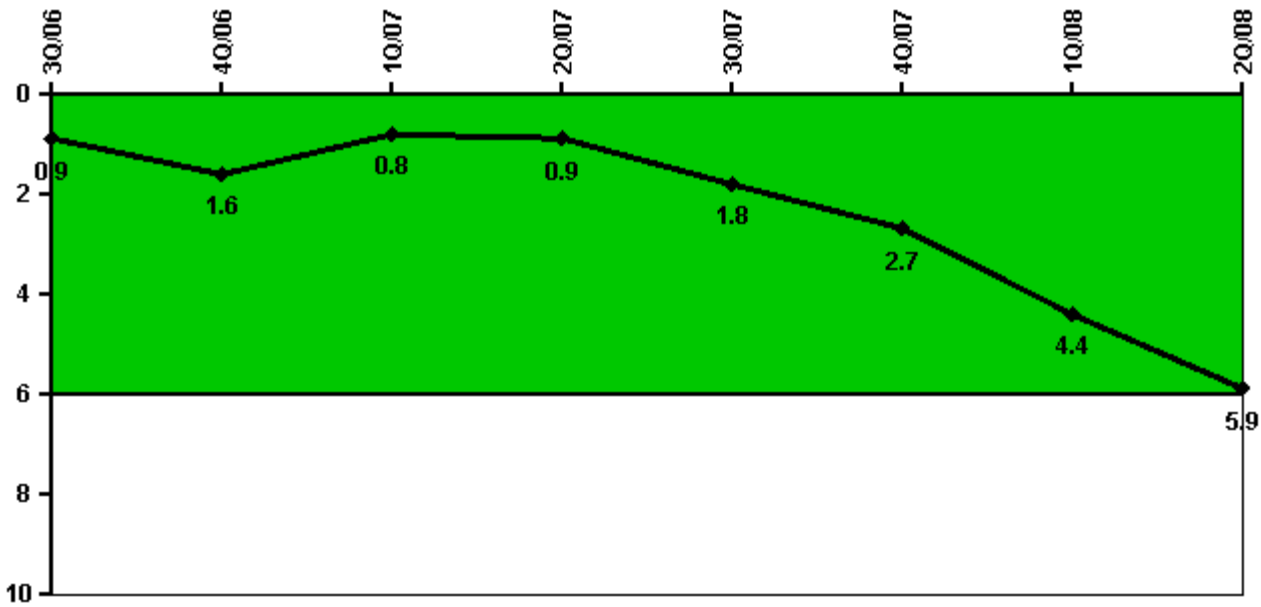
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	0	0	0	1.0	1.0	0	2.0	0
Critical hours	2208.0	2209.0	1843.0	1817.7	1863.9	2209.0	2020.5	2184.0
Indicator value	0	0	0	0.9	1.8	1.8	3.5	2.5

Licensee Comments: none

# Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

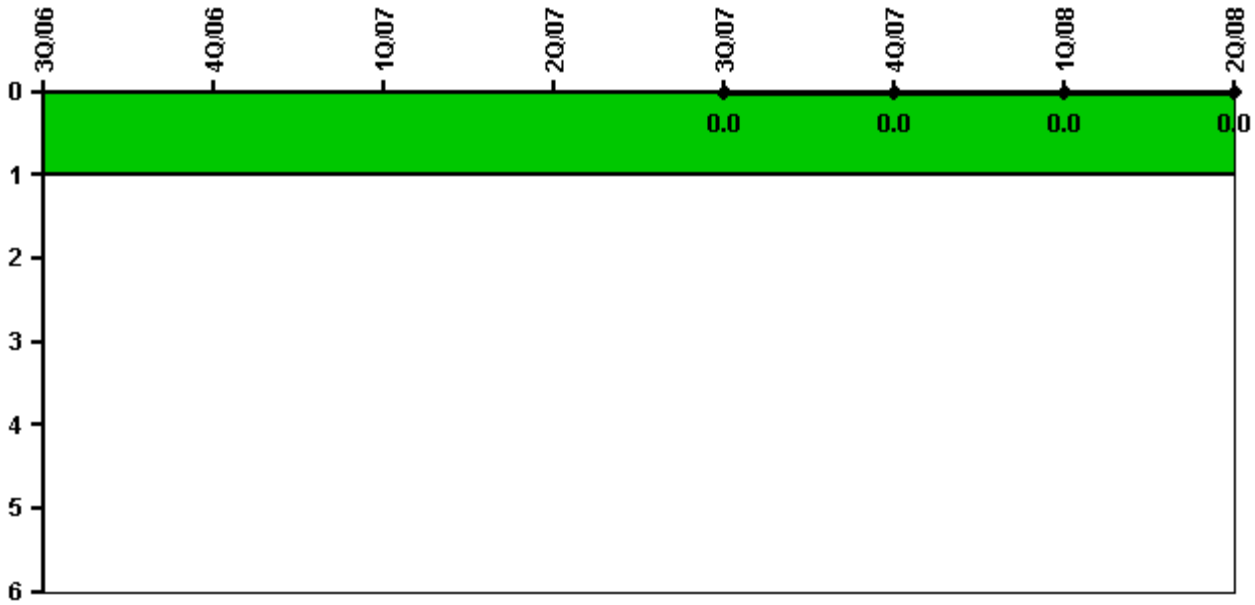
## Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	1.0	0	0	1.0	2.0	2.0	2.0
Critical hours	2208.0	2209.0	1843.0	1817.7	1863.9	2209.0	2020.5	2184.0
Indicator value	0.9	1.6	0.8	0.9	1.8	2.7	4.4	5.9

Licensee Comments: none



# Unplanned Scrams with Complications



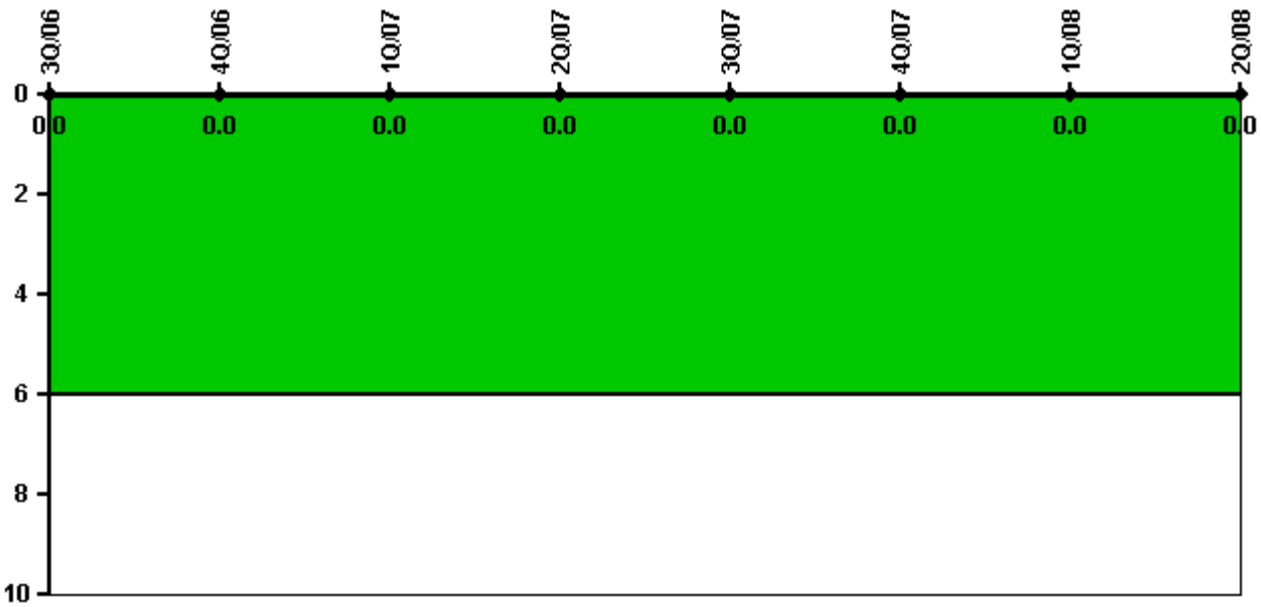
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Scrams with complications		0	0	0	0	0	0	0
<b>Indicator value</b>					<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

# Safety System Functional Failures (BWR)



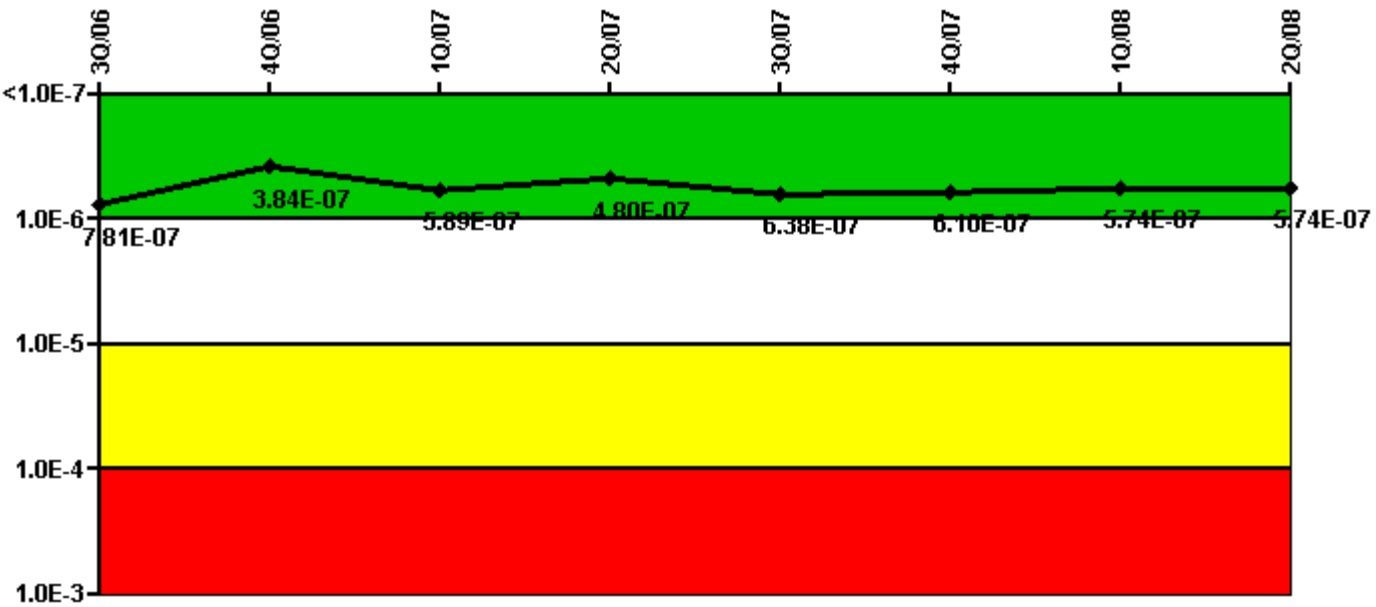
Thresholds: White > 6.0

## Notes

Safety System Functional Failures (BWR)	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Safety System Functional Failures	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

# Mitigating Systems Performance Index, Emergency AC Power System



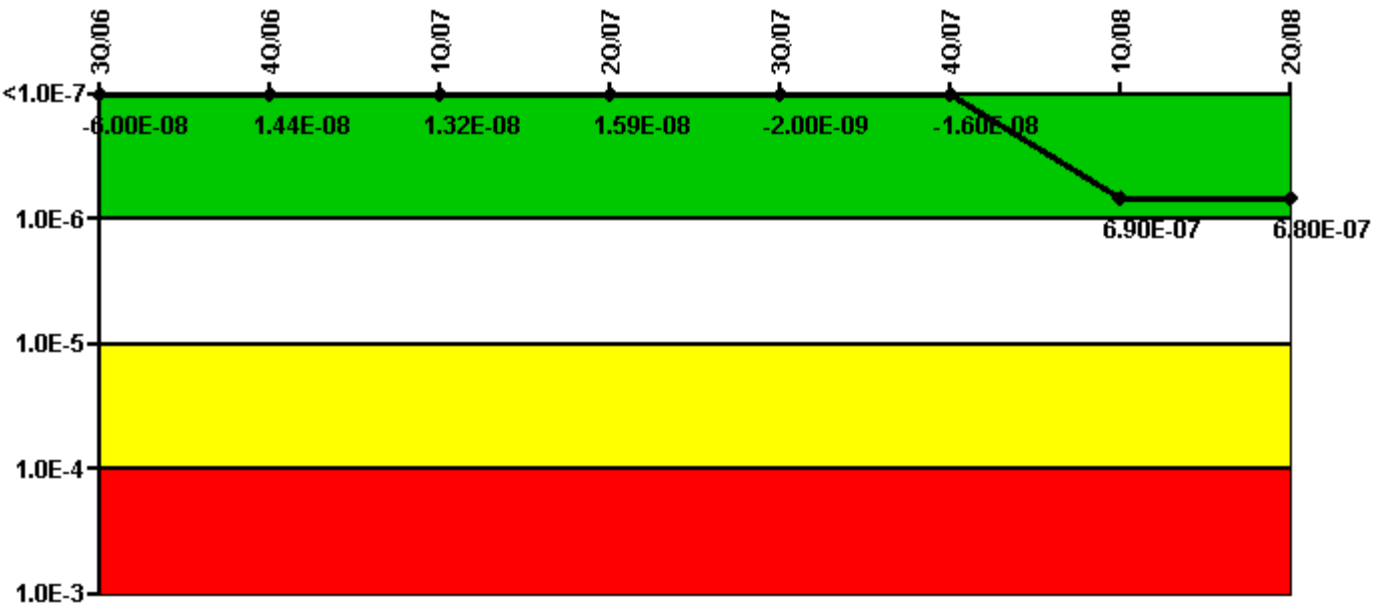
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	4.10E-08	4.40E-08	5.90E-08	9.00E-08	9.80E-08	1.00E-07	6.40E-08	6.40E-08
URI (ΔCDF)	7.40E-07	3.40E-07	5.30E-07	3.90E-07	5.40E-07	5.10E-07	5.10E-07	5.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.81E-07	3.84E-07	5.89E-07	4.80E-07	6.38E-07	6.10E-07	5.74E-07	5.74E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



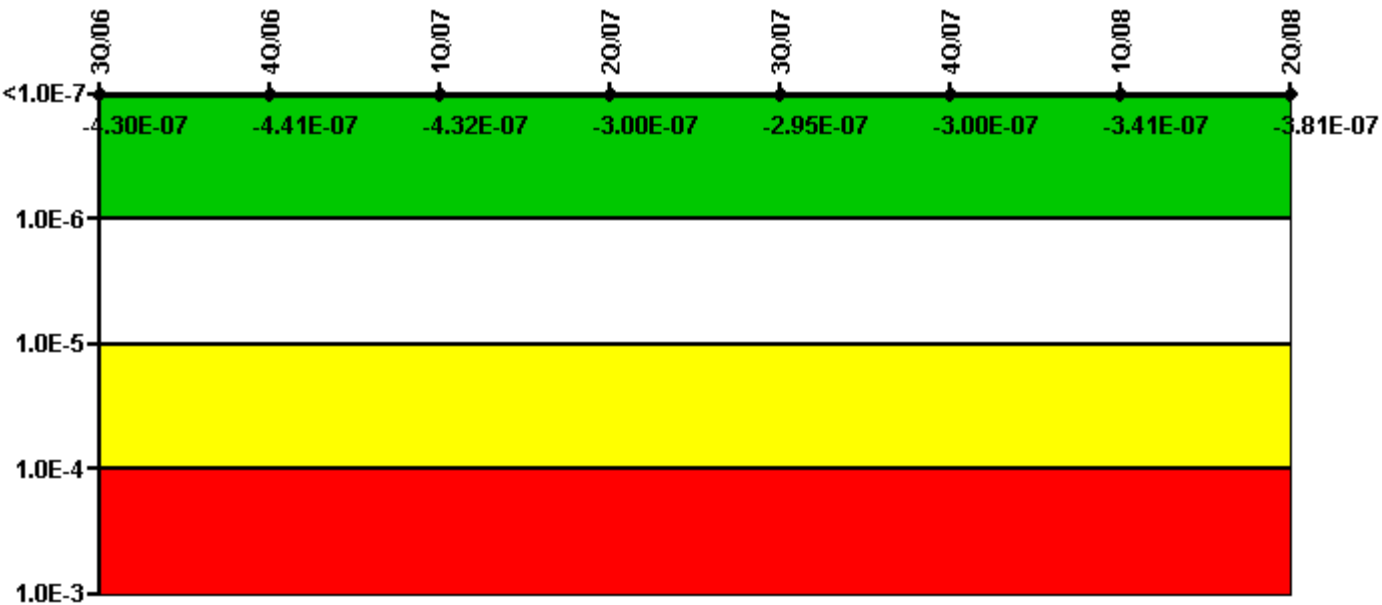
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI ( $\Delta$ CDF)	-3.40E-08	-6.00E-10	5.60E-09	4.90E-09	-2.80E-08	-4.40E-08	4.90E-07	4.90E-07
URI ( $\Delta$ CDF)	-2.60E-08	1.50E-08	7.60E-09	1.10E-08	2.60E-08	2.80E-08	2.00E-07	1.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.00E-08	1.44E-08	1.32E-08	1.59E-08	-2.00E-09	-1.60E-08	6.90E-07	6.80E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



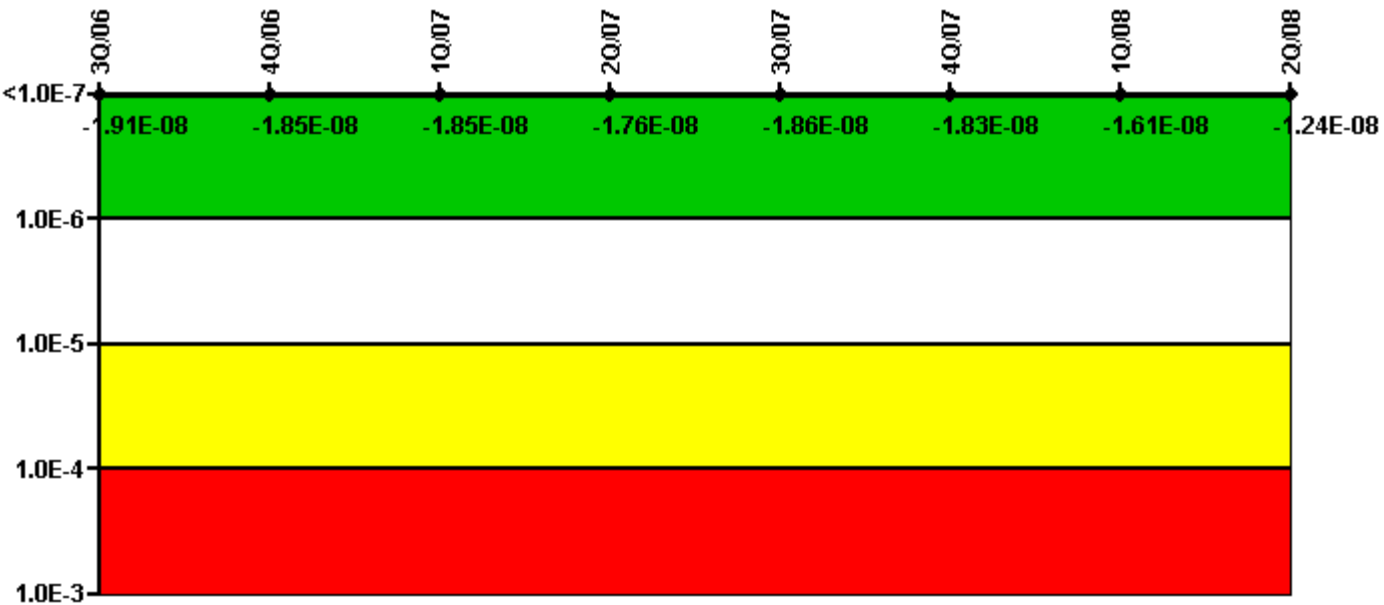
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI ( $\Delta$ CDF)	-3.00E-08	-4.10E-08	-4.20E-08	1.00E-07	9.50E-08	9.00E-08	3.90E-08	9.20E-09
URI ( $\Delta$ CDF)	-4.00E-07	-4.00E-07	-3.90E-07	-4.00E-07	-3.90E-07	-3.90E-07	-3.80E-07	-3.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.30E-07	-4.41E-07	-4.32E-07	-3.00E-07	-2.95E-07	-3.00E-07	-3.41E-07	-3.81E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



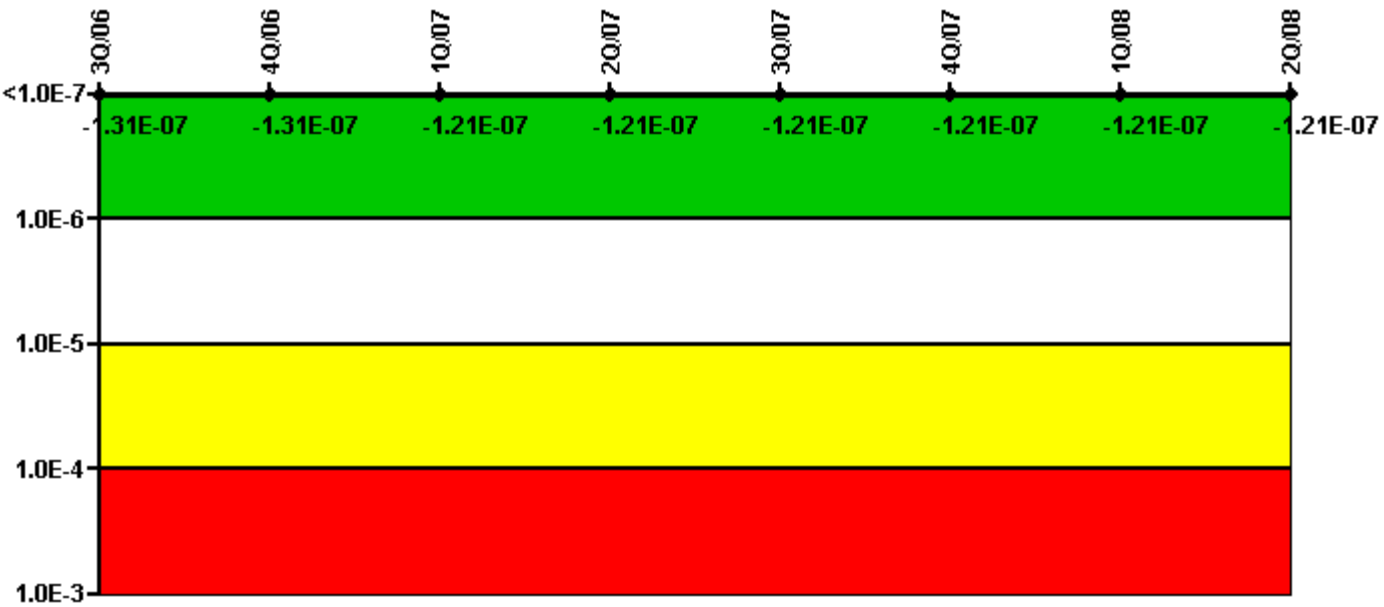
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI ( $\Delta$ CDF)	-8.10E-09	-8.50E-09	-8.50E-09	-7.60E-09	-7.60E-09	-7.30E-09	-5.10E-09	-1.40E-09
URI ( $\Delta$ CDF)	-1.10E-08	-1.00E-08	-1.00E-08	-1.00E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.91E-08	-1.85E-08	-1.85E-08	-1.76E-08	-1.86E-08	-1.83E-08	-1.61E-08	-1.24E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



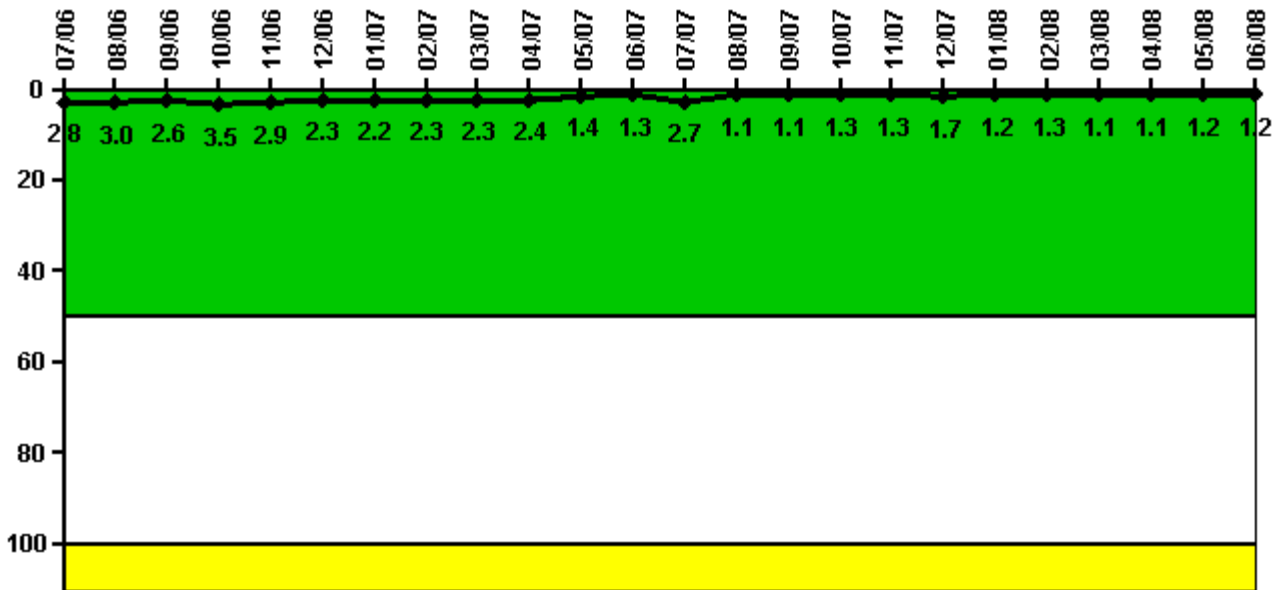
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09
URI (ΔCDF)	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.31E-07	-1.31E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

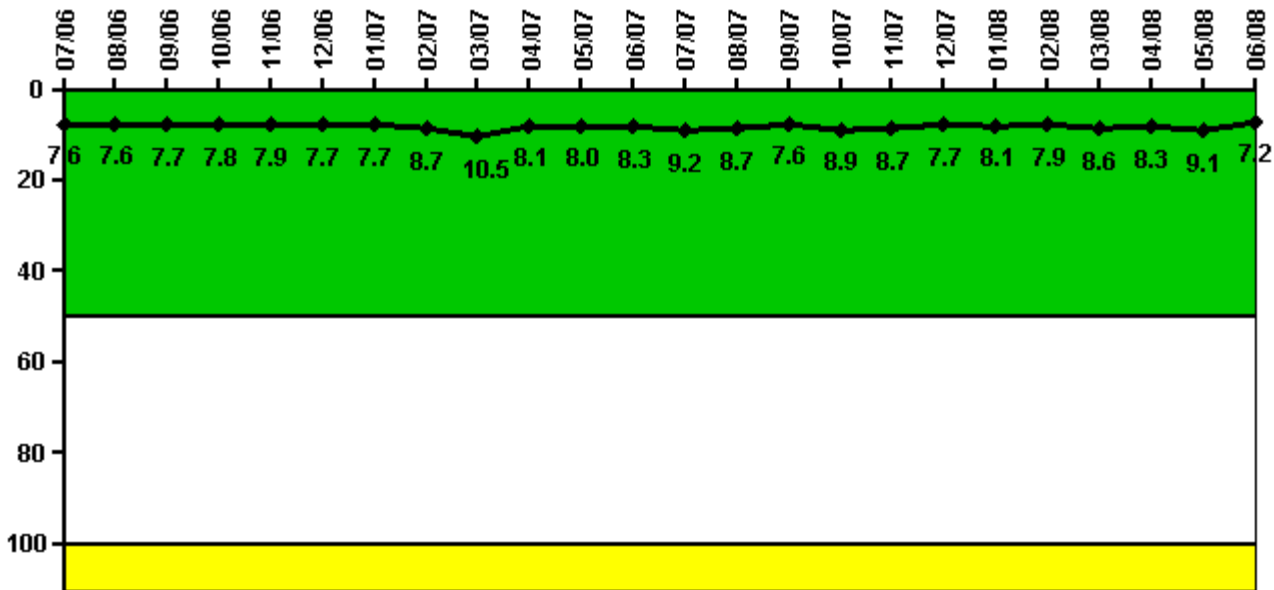
## Notes

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	0.005510	0.005900	0.005250	0.007000	0.005790	0.004680	0.004440	0.004620	0.004590	0.004790	0.002870	0.002660
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	2.8	3.0	2.6	3.5	2.9	2.3	2.2	2.3	2.3	2.4	1.4	1.3
Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.005360	0.002100	0.002170	0.002670	0.002510	0.003380	0.002370	0.002660	0.002120	0.002210	0.002420	0.002430
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	2.7	1.1	1.1	1.3	1.3	1.7	1.2	1.3	1.1	1.1	1.2	1.2

Licensee Comments: none



# Reactor Coolant System Leakage



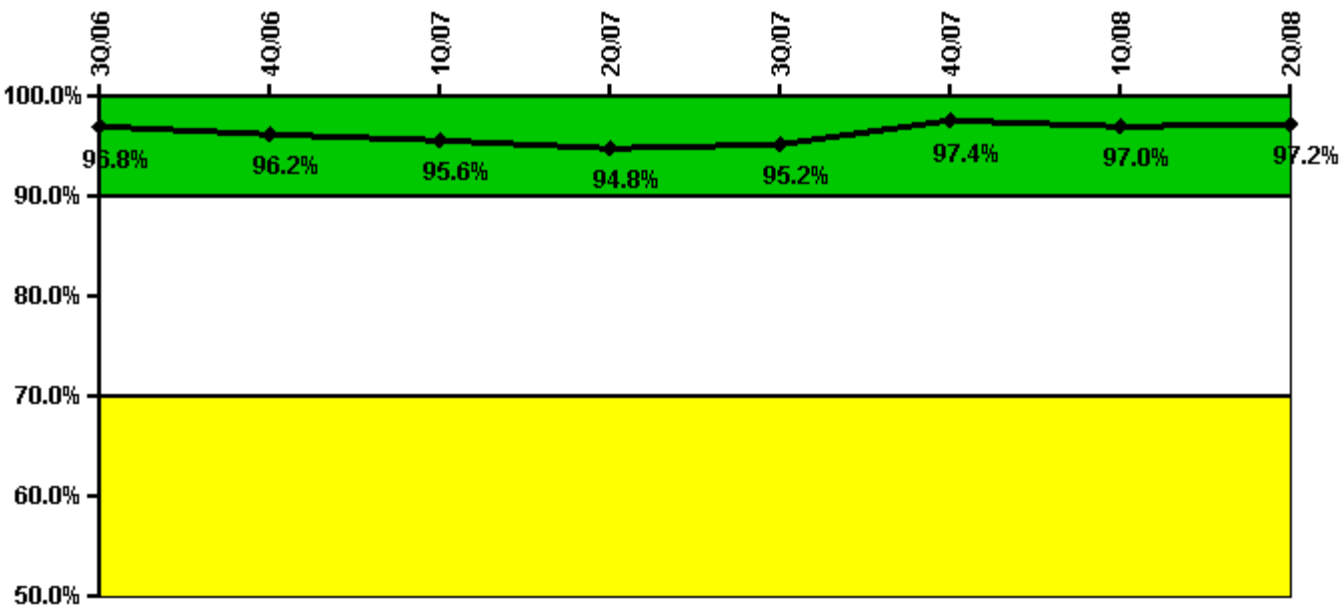
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Leakage	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 leakage	2.280	2.290	2.320	2.350	2.380	2.310	2.300	2.600	3.140	2.420	2.390	2.480
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.6	7.6	7.7	7.8	7.9	7.7	7.7	8.7	10.5	8.1	8.0	8.3
Reactor Coolant System Leakage	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum leakage	2.770	2.600	2.280	2.680	2.620	2.300	2.420	2.380	2.570	2.480	2.730	2.170
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.2	8.7	7.6	8.9	8.7	7.7	8.1	7.9	8.6	8.3	9.1	7.2

Licensee Comments: none

# Drill/Exercise Performance



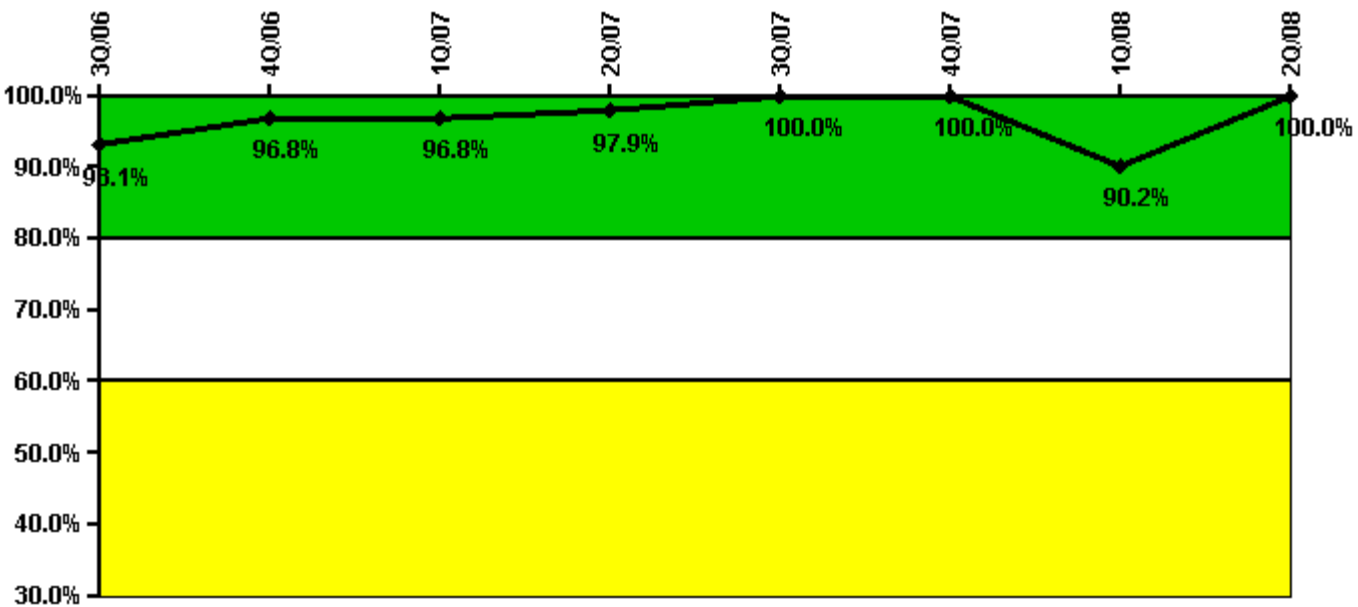
Thresholds: White < 90.0% Yellow < 70.0%

## Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	21.0	43.0	11.0	28.0	24.0	77.0	20.0	56.0
Total opportunities	21.0	45.0	12.0	29.0	24.0	78.0	22.0	57.0
<b>Indicator value</b>	<b>96.8%</b>	<b>96.2%</b>	<b>95.6%</b>	<b>94.8%</b>	<b>95.2%</b>	<b>97.4%</b>	<b>97.0%</b>	<b>97.2%</b>

Licensee Comments: none

# ERO Drill Participation



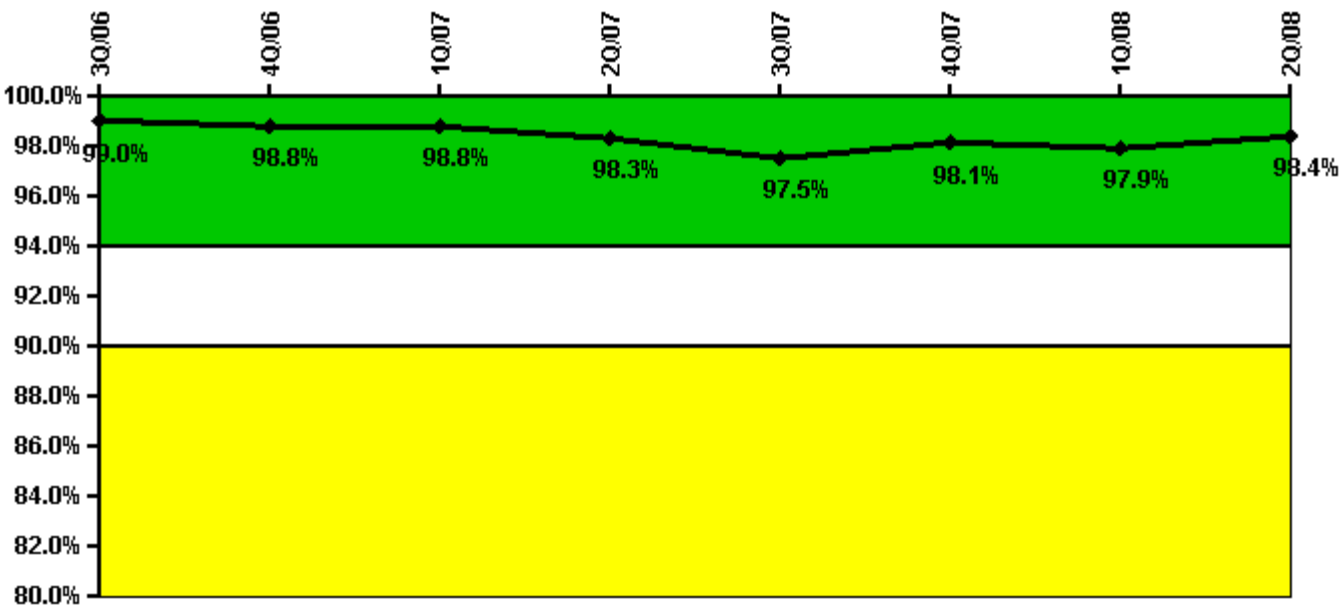
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Participating Key personnel	81.0	90.0	90.0	92.0	90.0	83.0	74.0	80.0
Total Key personnel	87.0	93.0	93.0	94.0	90.0	83.0	82.0	80.0
<b>Indicator value</b>	<b>93.1%</b>	<b>96.8%</b>	<b>96.8%</b>	<b>97.9%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>90.2%</b>	<b>100.0%</b>

Licensee Comments: none

# Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

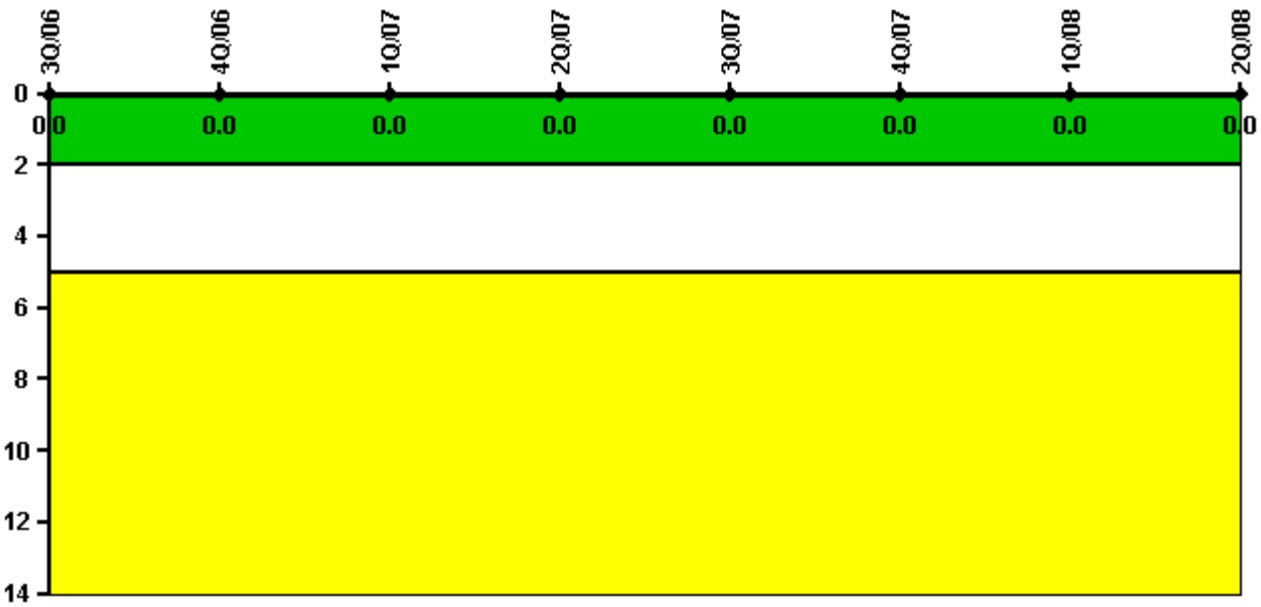
## Notes

Alert & Notification System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful siren-tests	127	126	128	126	123	129	127	125
Total sirens-tests	129	129	129	129	129	129	129	125
<b>Indicator value</b>	<b>99.0%</b>	<b>98.8%</b>	<b>98.8%</b>	<b>98.3%</b>	<b>97.5%</b>	<b>98.1%</b>	<b>97.9%</b>	<b>98.4%</b>

Licensee Comments:

2Q/08: NEI 99-02 Rev 5, Appendix D, Page D-2, applicable to May and June data.

# Occupational Exposure Control Effectiveness



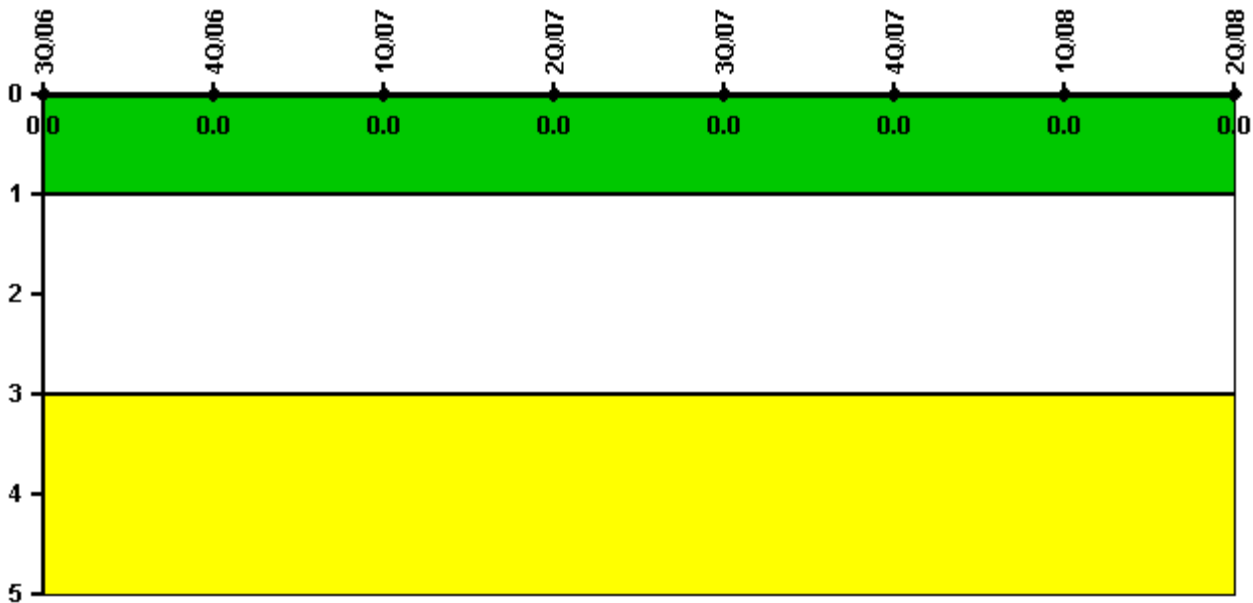
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
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](#)

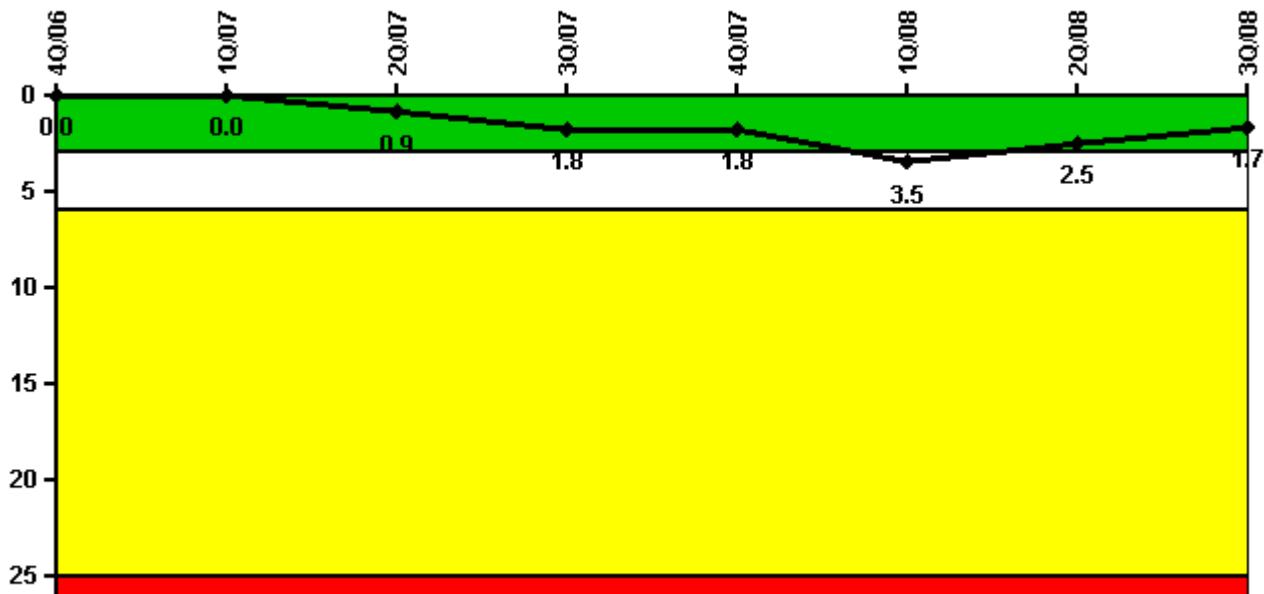
Last Modified: August 4, 2008

# Grand Gulf 1

## 3Q/2008 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



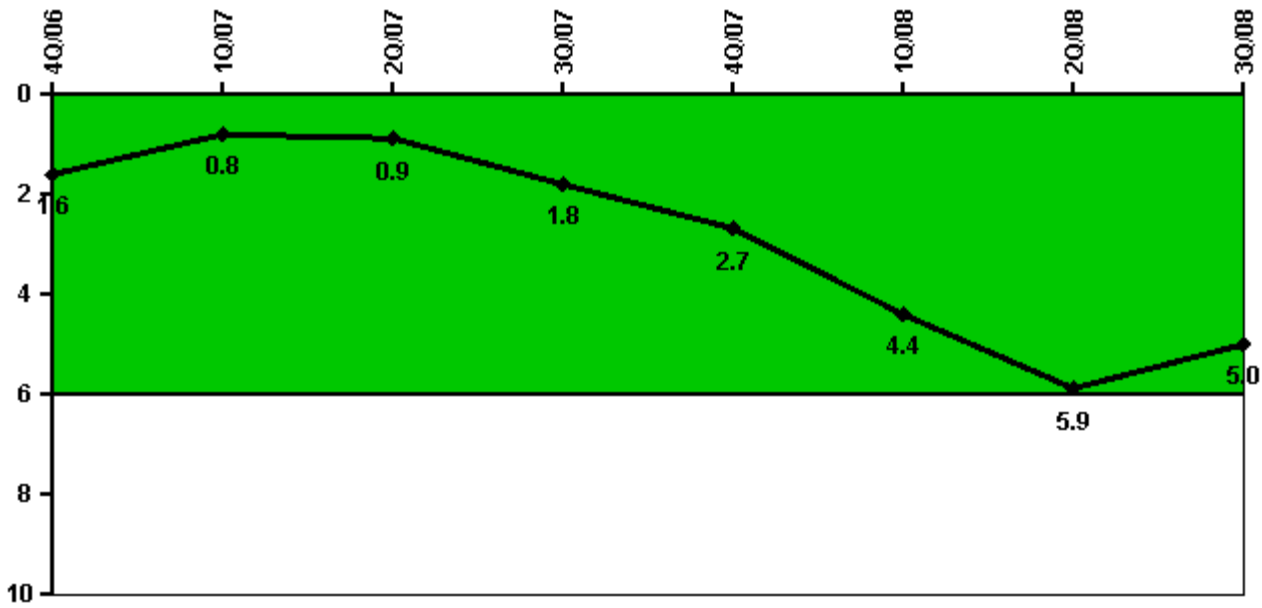
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	0	0	1.0	1.0	0	2.0	0	0
Critical hours	2209.0	1843.0	1817.7	1863.9	2209.0	2020.5	2184.0	1988.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>1.8</b>	<b>1.8</b>	<b>3.5</b>	<b>2.5</b>	<b>1.7</b>

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

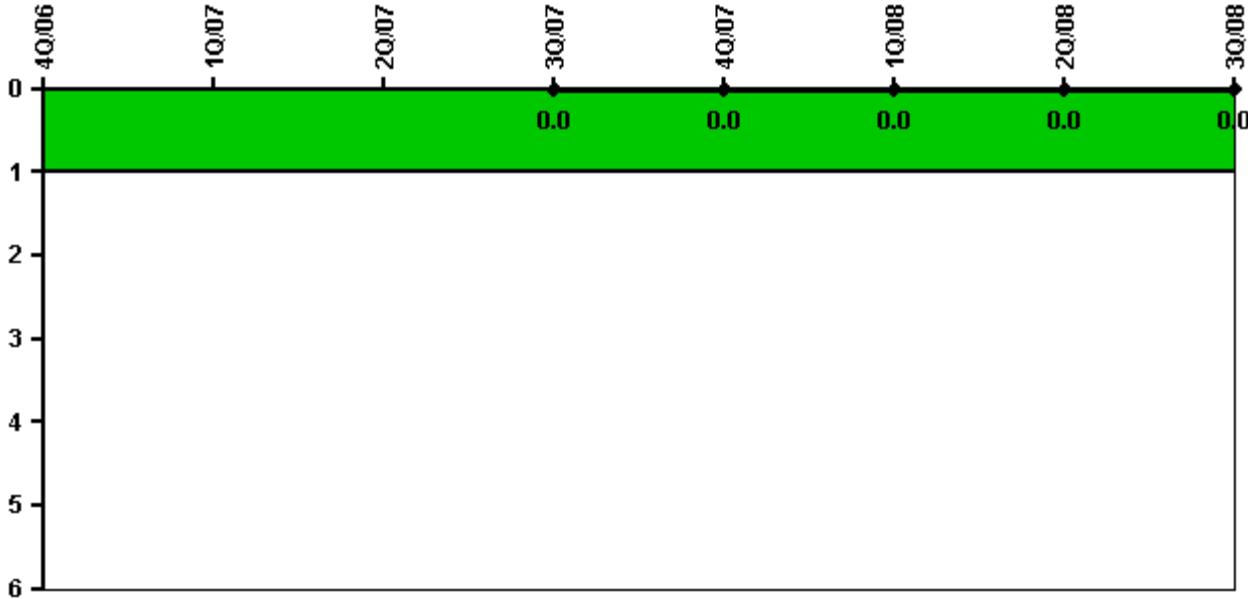
### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	1.0	0	0	1.0	2.0	2.0	2.0	0
Critical hours	2209.0	1843.0	1817.7	1863.9	2209.0	2020.5	2184.0	1988.0
Indicator value	1.6	0.8	0.9	1.8	2.7	4.4	5.9	5.0

Licensee Comments: none



# Unplanned Scrams with Complications



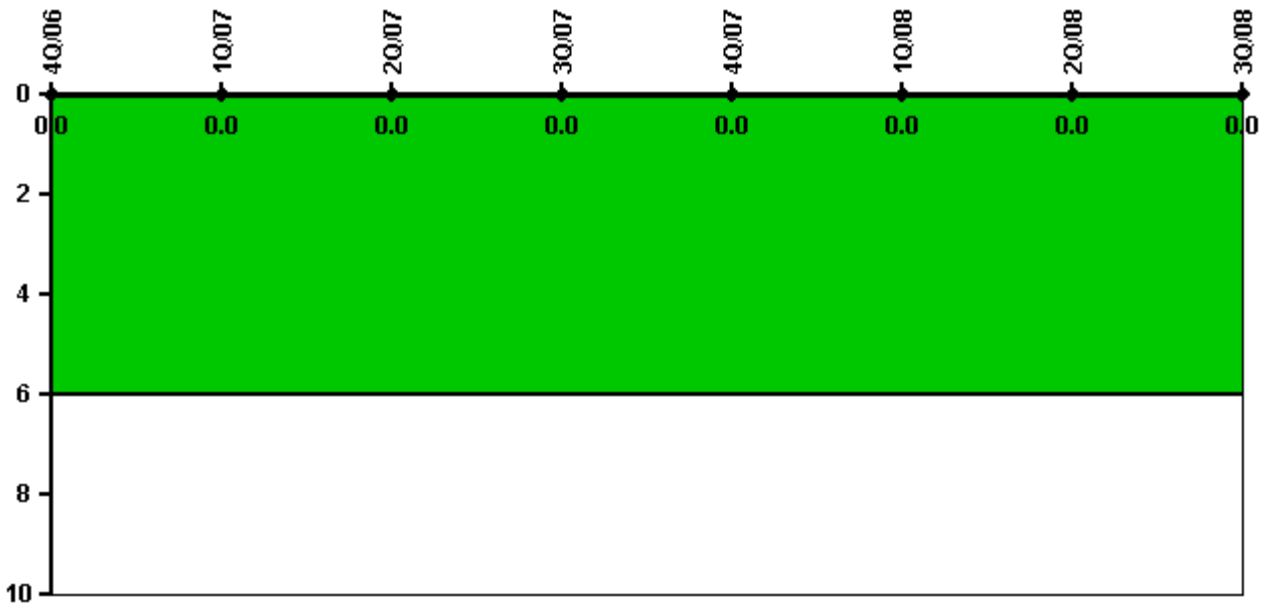
Thresholds: White > 1.0

**Notes**

Unplanned Scrams with Complications	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

## Safety System Functional Failures (BWR)



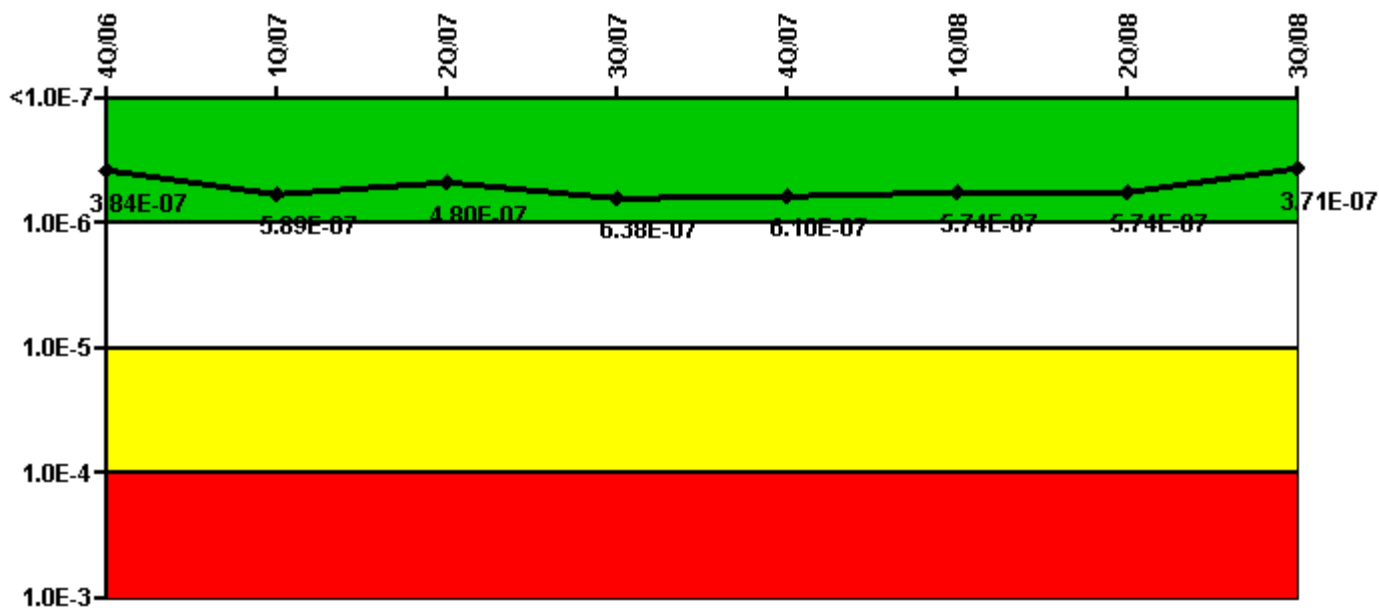
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
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

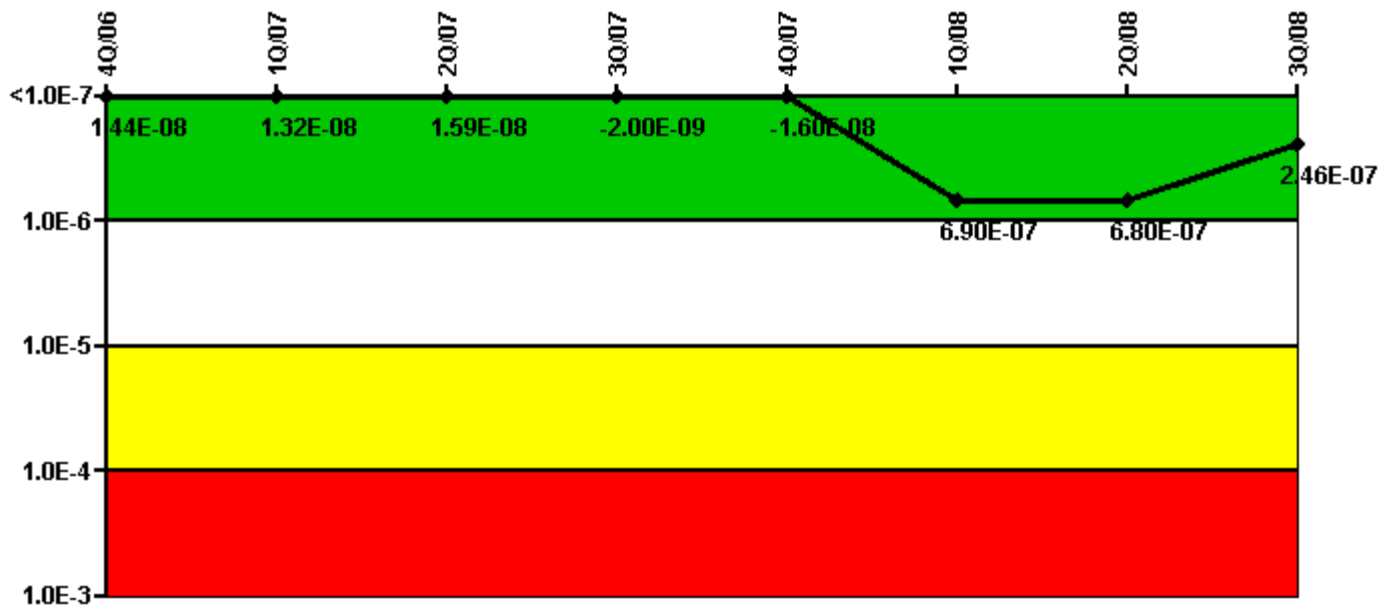
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	4.40E-08	5.90E-08	9.00E-08	9.80E-08	1.00E-07	6.40E-08	6.40E-08	3.10E-08
URI (ΔCDF)	3.40E-07	5.30E-07	3.90E-07	5.40E-07	5.10E-07	5.10E-07	5.10E-07	3.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.84E-07	5.89E-07	4.80E-07	6.38E-07	6.10E-07	5.74E-07	5.74E-07	3.71E-07

Licensee Comments:

3Q/08: Revision 3 of the GGNS PRA was issued on June 30, 2008. Revision 3 was a major update that included the update of plant specific data, initiator frequencies (both plant specific and generic), common cause analyses, human reliability analyses; the addition of several new initiators; and changes to the modeling of offsite power. The revision has resulted in a new overall core damage frequency, changes to the Fussell-Vesely importance of all of the MSPI related basic events and changes to the probability of many of the MSPI related basic events.

# Mitigating Systems Performance Index, High Pressure Injection System



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

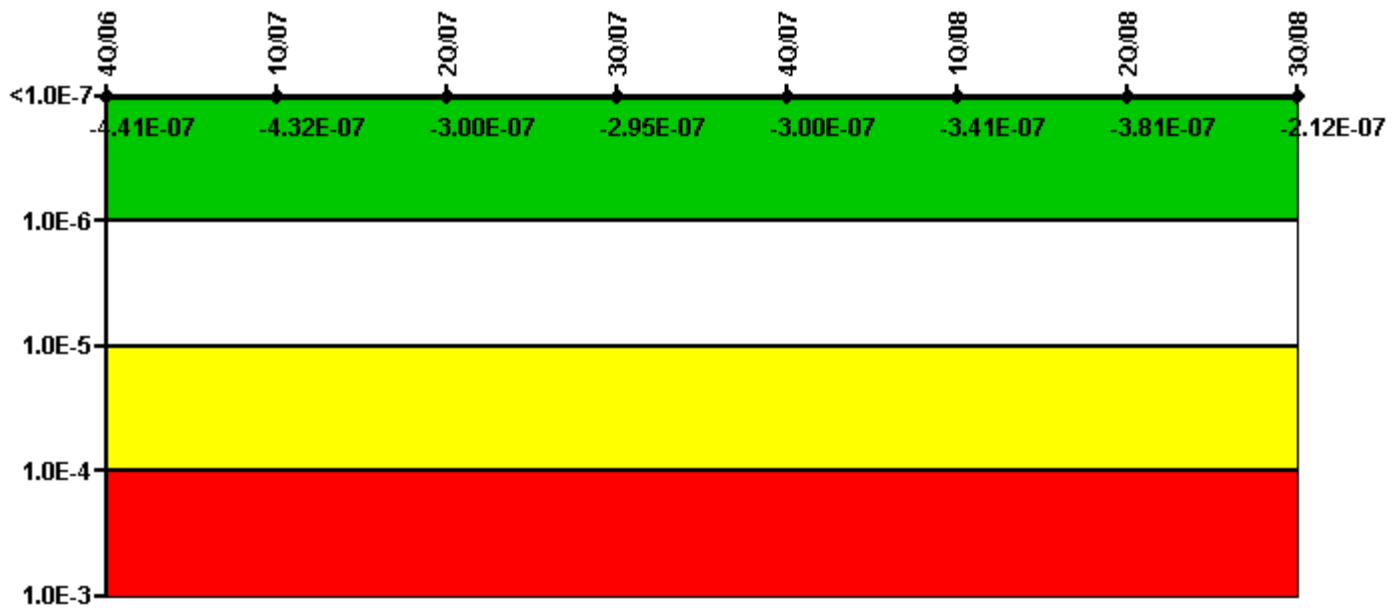
## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI ( $\Delta$ CDF)	-6.00E-10	5.60E-09	4.90E-09	-2.80E-08	-4.40E-08	4.90E-07	4.90E-07	1.80E-07
URI ( $\Delta$ CDF)	1.50E-08	7.60E-09	1.10E-08	2.60E-08	2.80E-08	2.00E-07	1.90E-07	6.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.44E-08	1.32E-08	1.59E-08	-2.00E-09	-1.60E-08	6.90E-07	6.80E-07	2.46E-07

Licensee Comments:

3Q/08: Revision 3 of the GGNS PRA was issued on June 30, 2008. Revision 3 was a major update that included the update of plant specific data, initiator frequencies (both plant specific and generic), common cause analyses, human reliability analyses; the addition of several new initiators; and changes to the modeling of offsite power. The revision has resulted in a new overall core damage frequency, changes to the Fussell-Vesely importance of all of the MSPI related basic events and changes to the probability of many of the MSPI related basic events.

# Mitigating Systems Performance Index, Heat Removal System



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

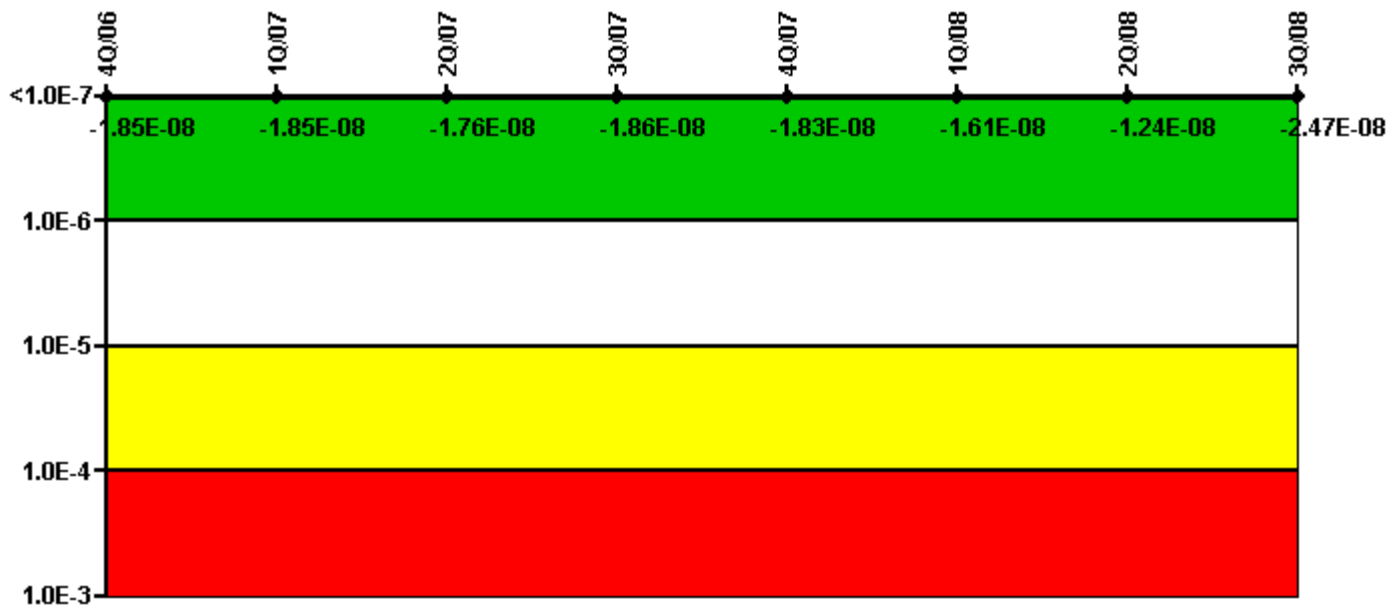
## Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI ( $\Delta$ CDF)	-4.10E-08	-4.20E-08	1.00E-07	9.50E-08	9.00E-08	3.90E-08	9.20E-09	-1.50E-09
URI ( $\Delta$ CDF)	-4.00E-07	-3.90E-07	-4.00E-07	-3.90E-07	-3.90E-07	-3.80E-07	-3.90E-07	-2.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-4.41E-07</b>	<b>-4.32E-07</b>	<b>-3.00E-07</b>	<b>-2.95E-07</b>	<b>-3.00E-07</b>	<b>-3.41E-07</b>	<b>-3.81E-07</b>	<b>-2.12E-07</b>

Licensee Comments:

3Q/08: Revision 3 of the GGNS PRA was issued on June 30, 2008. Revision 3 was a major update that included the update of plant specific data, initiator frequencies (both plant specific and generic), common cause analyses, human reliability analyses; the addition of several new initiators; and changes to the modeling of offsite power. The revision has resulted in a new overall core damage frequency, changes to the Fussell-Vesely importance of all of the MSPI related basic events and changes to the probability of many of the MSPI related basic events.

# Mitigating Systems Performance Index, Residual Heat Removal System



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

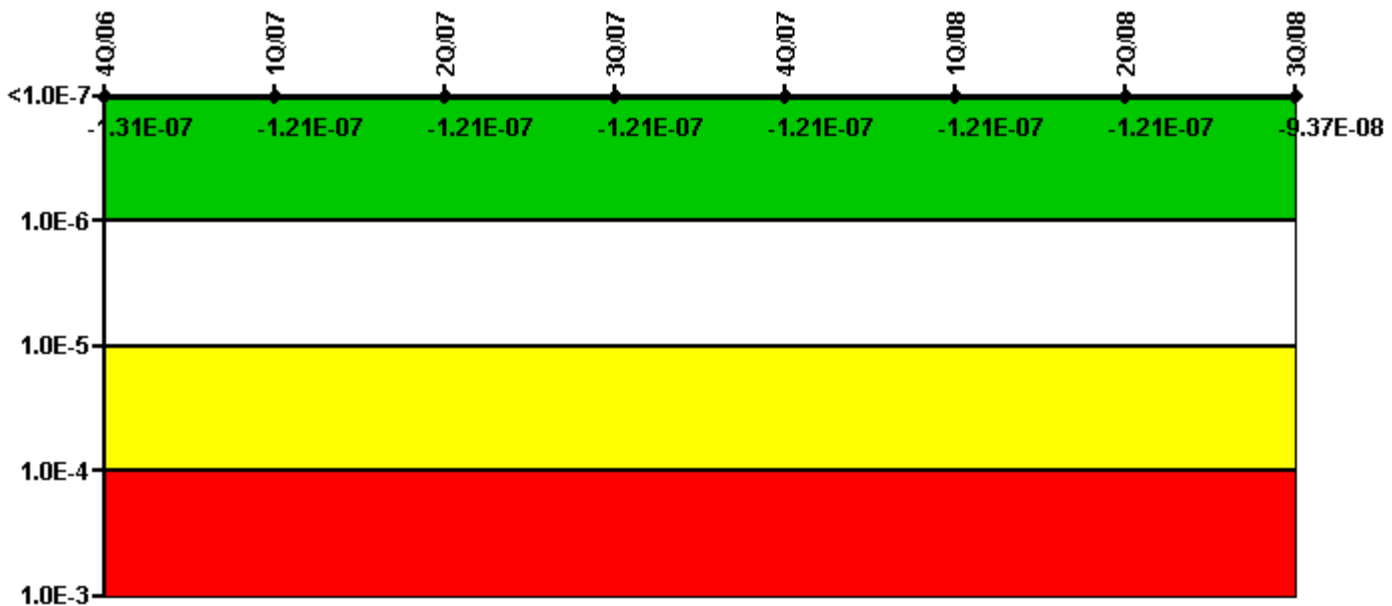
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI ( $\Delta$ CDF)	-8.50E-09	-8.50E-09	-7.60E-09	-7.60E-09	-7.30E-09	-5.10E-09	-1.40E-09	-7.10E-10
URI ( $\Delta$ CDF)	-1.00E-08	-1.00E-08	-1.00E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-2.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.85E-08	-1.85E-08	-1.76E-08	-1.86E-08	-1.83E-08	-1.61E-08	-1.24E-08	-2.47E-08

Licensee Comments:

3Q/08: Revision 3 of the GGNS PRA was issued on June 30, 2008. Revision 3 was a major update that included the update of plant specific data, initiator frequencies (both plant specific and generic), common cause analyses, human reliability analyses; the addition of several new initiators; and changes to the modeling of offsite power. The revision has resulted in a new overall core damage frequency, changes to the Fussell-Vesely importance of all of the MSPI related basic events and changes to the probability of many of the MSPI related basic events.

# Mitigating Systems Performance Index, Cooling Water Systems



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

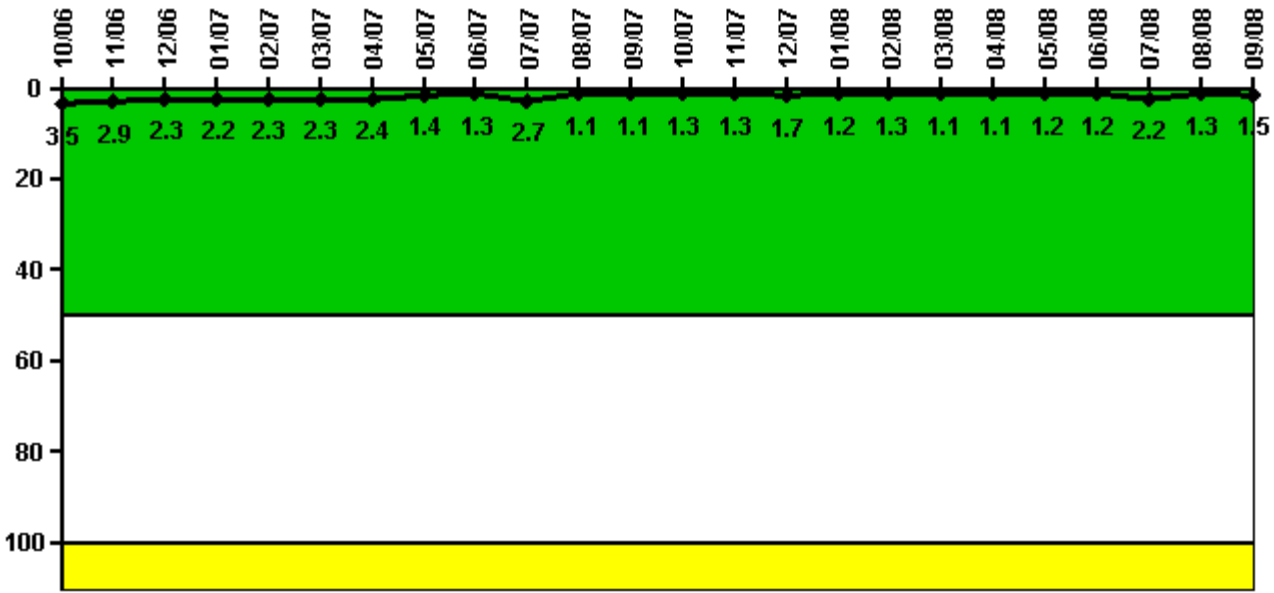
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI ( $\Delta$ CDF)	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.70E-09
URI ( $\Delta$ CDF)	-1.30E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-9.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.31E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-9.37E-08

Licensee Comments:

3Q/08: Revision 3 of the GGNS PRA was issued on June 30, 2008. Revision 3 was a major update that included the update of plant specific data, initiator frequencies (both plant specific and generic), common cause analyses, human reliability analyses; the addition of several new initiators; and changes to the modeling of offsite power. The revision has resulted in a new overall core damage frequency, changes to the Fussell-Vesely importance of all of the MSPI related basic events and changes to the probability of many of the MSPI related basic events.

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

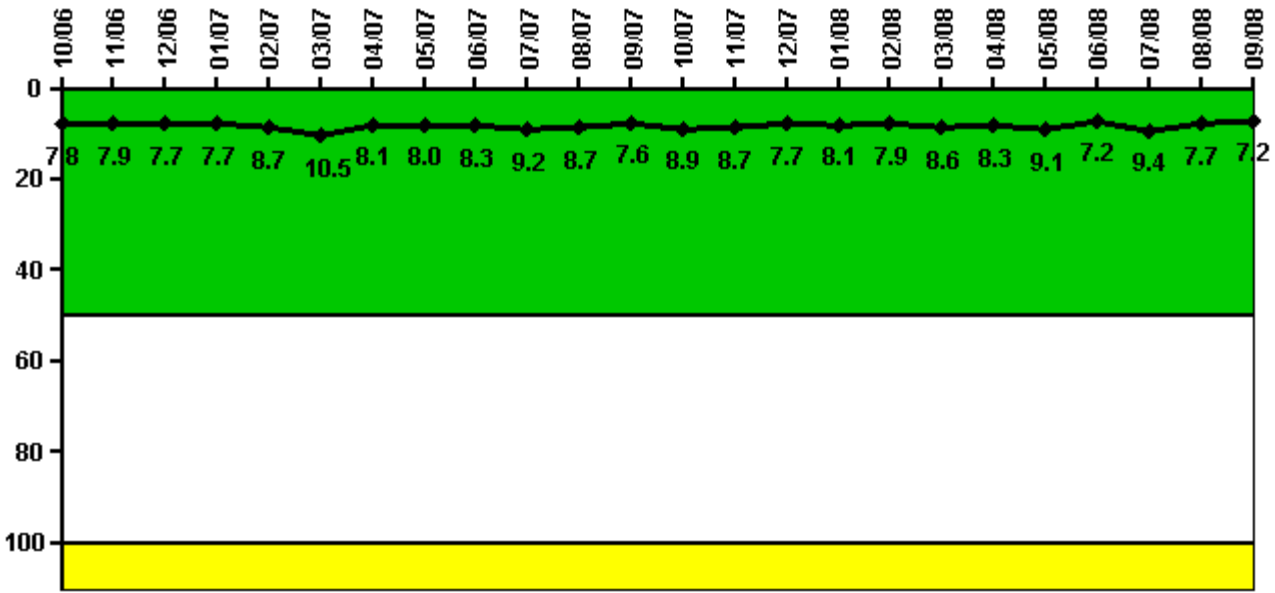
### Notes

Reactor Coolant System Activity	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum activity	0.007000	0.005790	0.004680	0.004440	0.004620	0.004590	0.004790	0.002870	0.002660	0.005360	0.002100	0.002170
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	3.5	2.9	2.3	2.2	2.3	2.3	2.4	1.4	1.3	2.7	1.1	1.1
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	0.002670	0.002510	0.003380	0.002370	0.002660	0.002120	0.002210	0.002420	0.002430	0.004370	0.002590	0.003030
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	1.3	1.3	1.7	1.2	1.3	1.1	1.1	1.2	1.2	2.2	1.3	1.5

Licensee Comments: none



## Reactor Coolant System Leakage



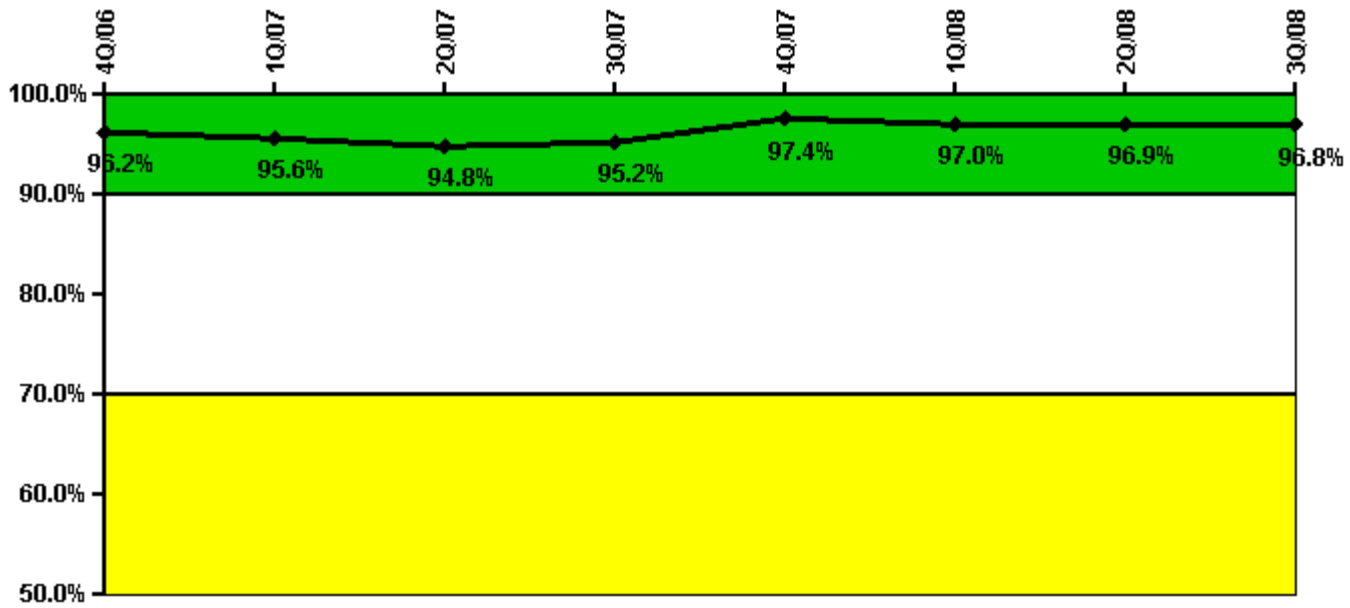
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	2.350	2.380	2.310	2.300	2.600	3.140	2.420	2.390	2.480	2.770	2.600	2.280
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.8	7.9	7.7	7.7	8.7	10.5	8.1	8.0	8.3	9.2	8.7	7.6
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	2.680	2.620	2.300	2.420	2.380	2.570	2.480	2.730	2.170	2.810	2.320	2.170
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.9	8.7	7.7	8.1	7.9	8.6	8.3	9.1	7.2	9.4	7.7	7.2

Licensee Comments: none

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

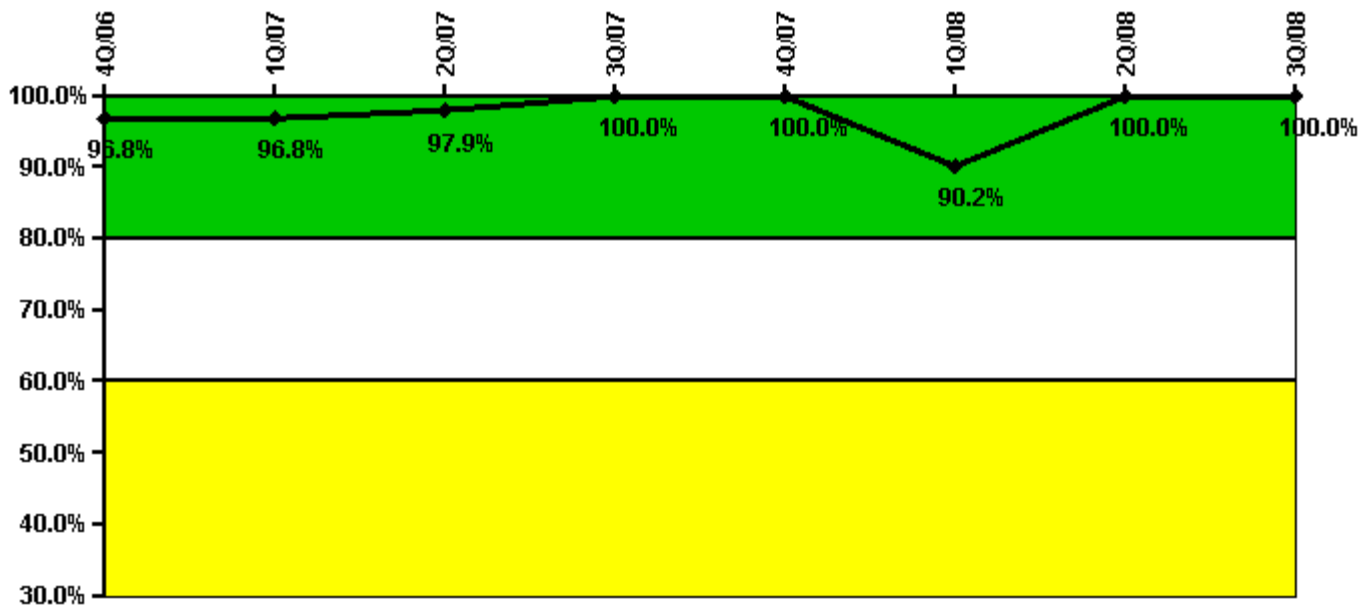
### Notes

Drill/Exercise Performance	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful opportunities	43.0	11.0	28.0	24.0	77.0	20.0	55.0	10.0
Total opportunities	45.0	12.0	29.0	24.0	78.0	22.0	57.0	10.0
Indicator value	96.2%	95.6%	94.8%	95.2%	97.4%	97.0%	96.9%	96.8%

Licensee Comments:

2Q/08: April data corrected to reflect inaccurate notification form (not marked "Drill").

## ERO Drill Participation



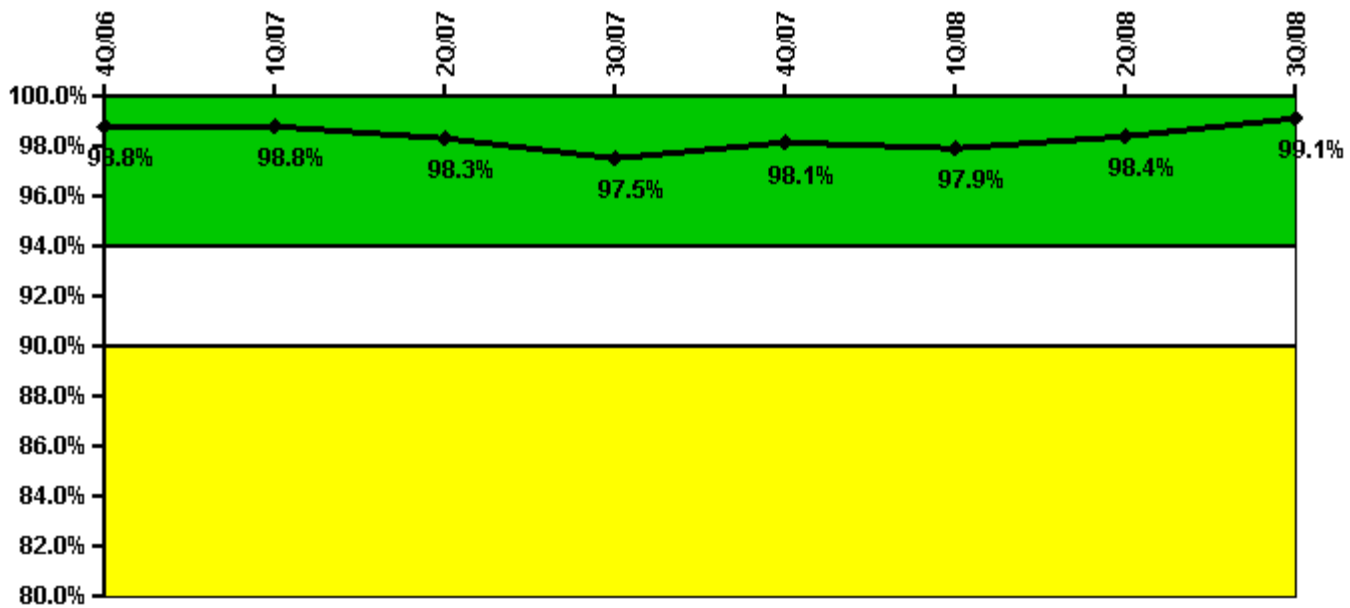
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Participating Key personnel	90.0	90.0	92.0	90.0	83.0	74.0	80.0	84.0
Total Key personnel	93.0	93.0	94.0	90.0	83.0	82.0	80.0	84.0
Indicator value	96.8%	96.8%	97.9%	100.0%	100.0%	90.2%	100.0%	100.0%

Licensee Comments: none

## Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

### Notes

Alert & Notification System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful siren-tests	126	128	126	123	129	127	125	82
Total sirens-tests	129	129	129	129	129	129	125	84
Indicator value	98.8%	98.8%	98.3%	97.5%	98.1%	97.9%	98.4%	99.1%

Licensee Comments:

3Q/08: The September 2008 siren test was cancelled at the discretion of the Tensas Parish Office of Emergency Preparedness Emergency Coordinator (LA) and the Claiborne County Civil Defense Director (MS). The test was cancelled due to agencies responding to the aftermath of hurricane Gustav.

## Occupational Exposure Control Effectiveness



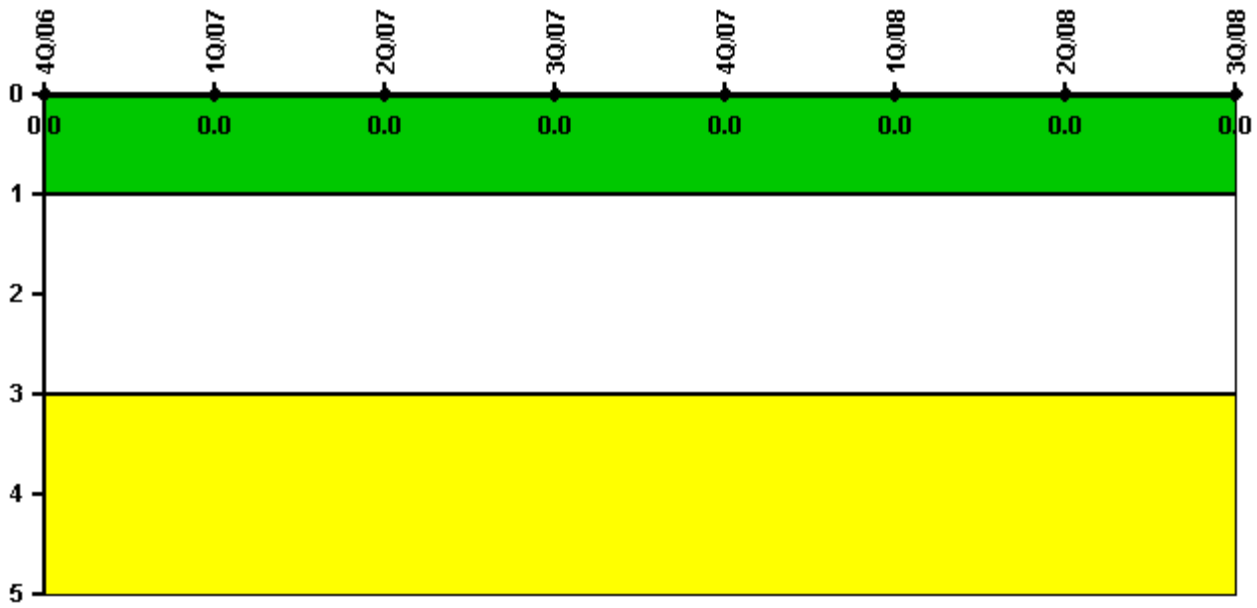
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
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	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

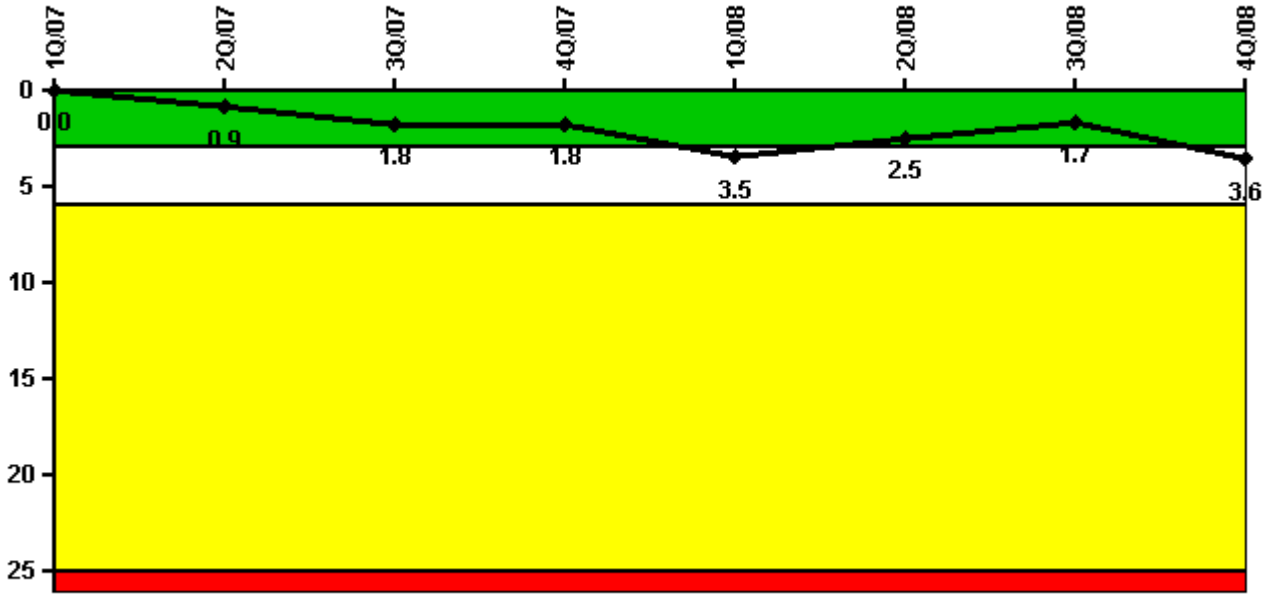
[Security](#) information not publicly available.

# Grand Gulf 1

## 4Q/2008 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



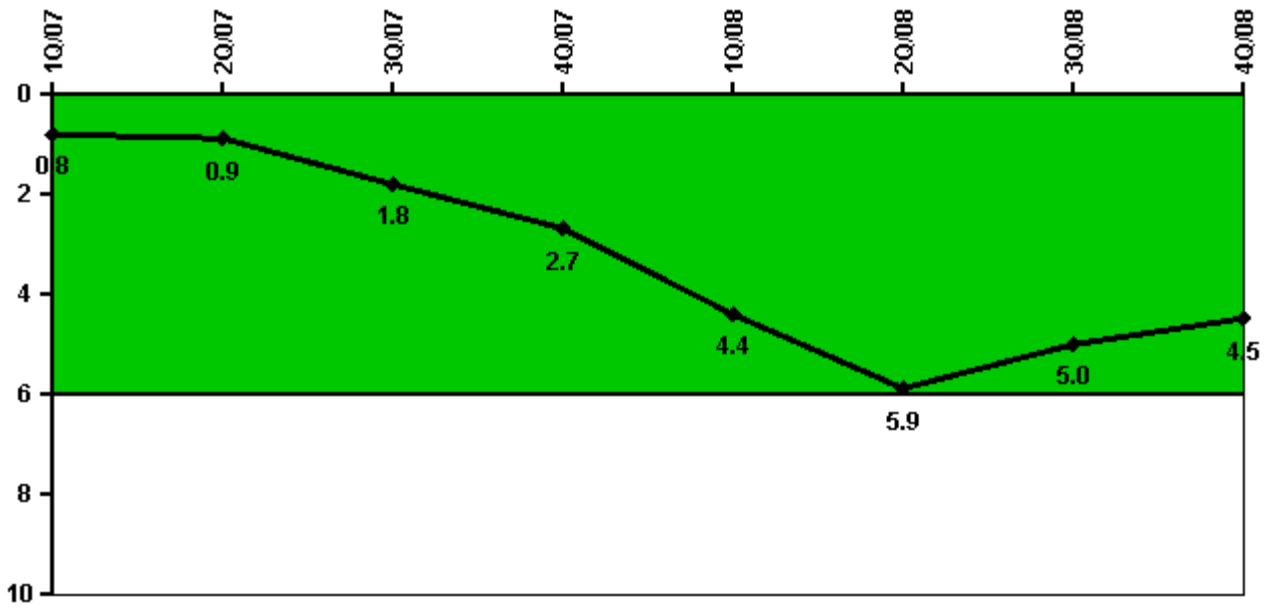
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned scrams	0	1.0	1.0	0	2.0	0	0	2.0
Critical hours	1843.0	1817.7	1863.9	2209.0	2020.5	2184.0	1988.0	1671.7
Indicator value	0	0.9	1.8	1.8	3.5	2.5	1.7	3.6

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

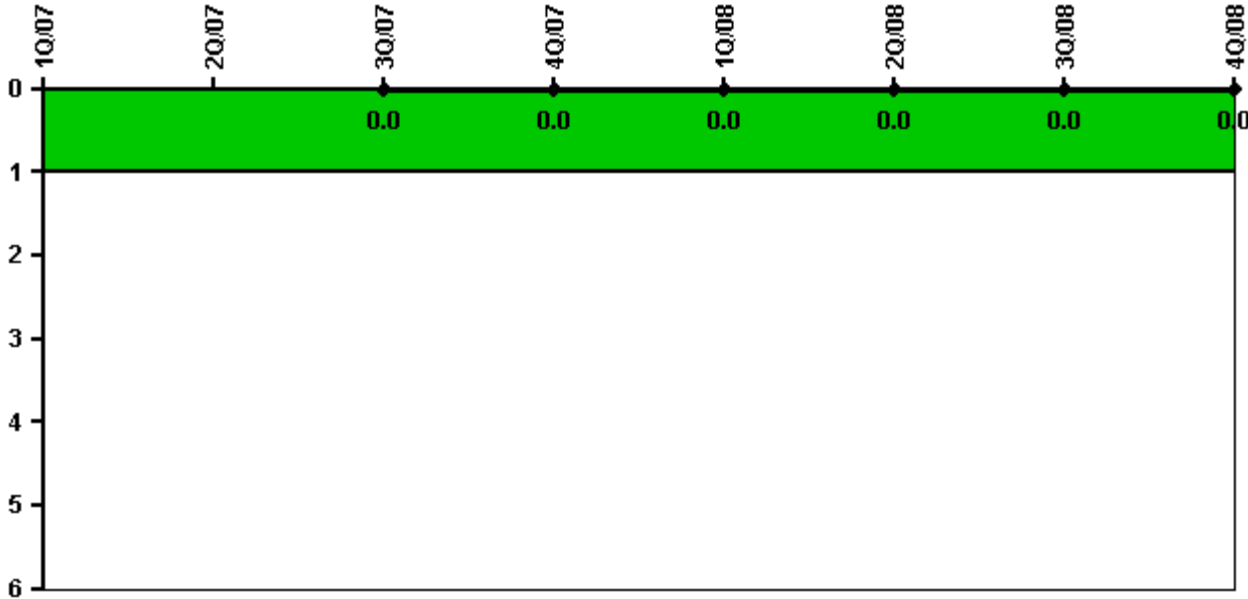
### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	0	0	1.0	2.0	2.0	2.0	0	1.0
Critical hours	1843.0	1817.7	1863.9	2209.0	2020.5	2184.0	1988.0	1671.7
<b>Indicator value</b>	<b>0.8</b>	<b>0.9</b>	<b>1.8</b>	<b>2.7</b>	<b>4.4</b>	<b>5.9</b>	<b>5.0</b>	<b>4.5</b>

Licensee Comments: none



# Unplanned Scrams with Complications



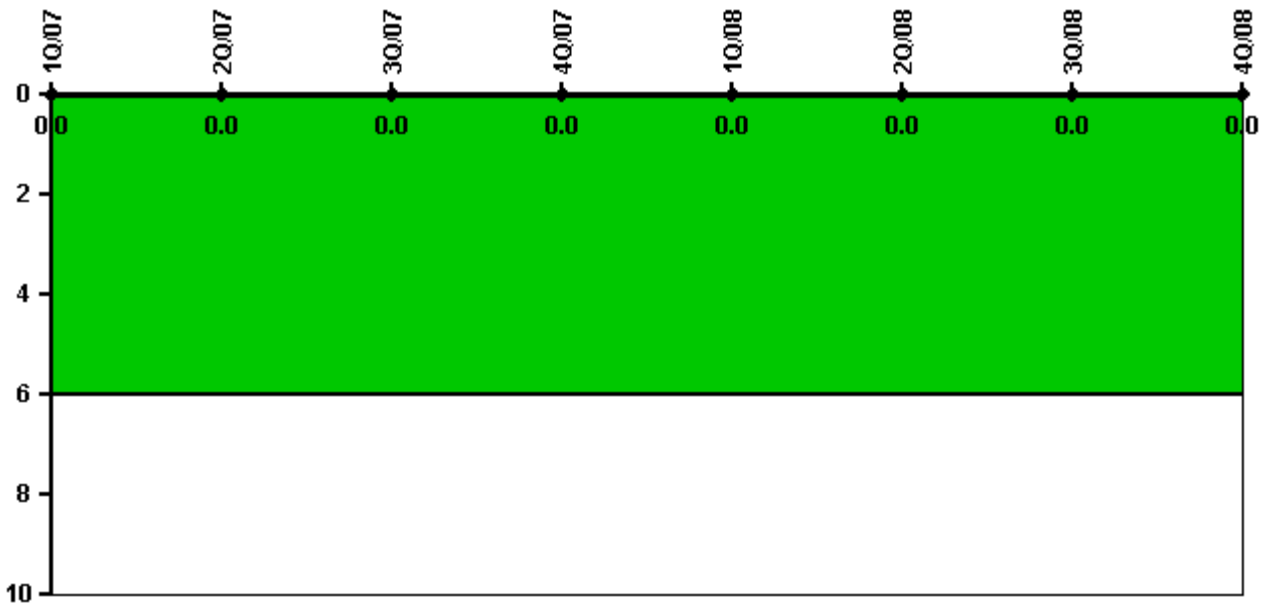
Thresholds: White > 1.0

**Notes**

Unplanned Scrams with Complications	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>			<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

## Safety System Functional Failures (BWR)



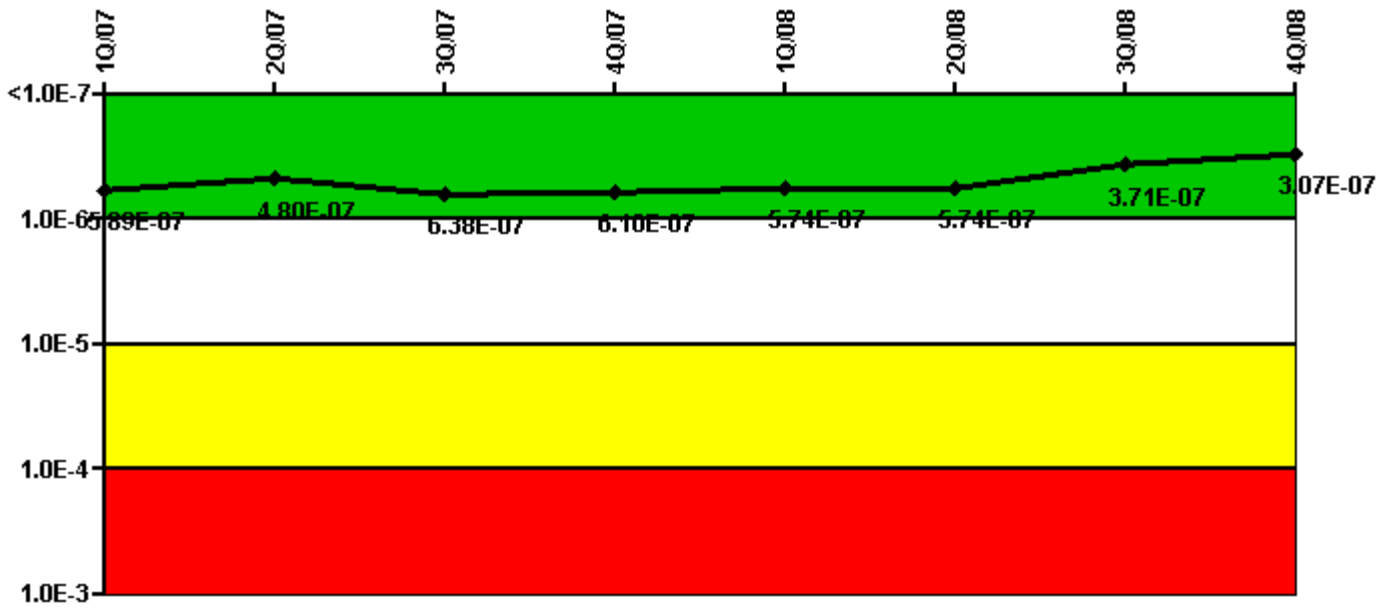
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Safety System Functional Failures	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

# Mitigating Systems Performance Index, Emergency AC Power System



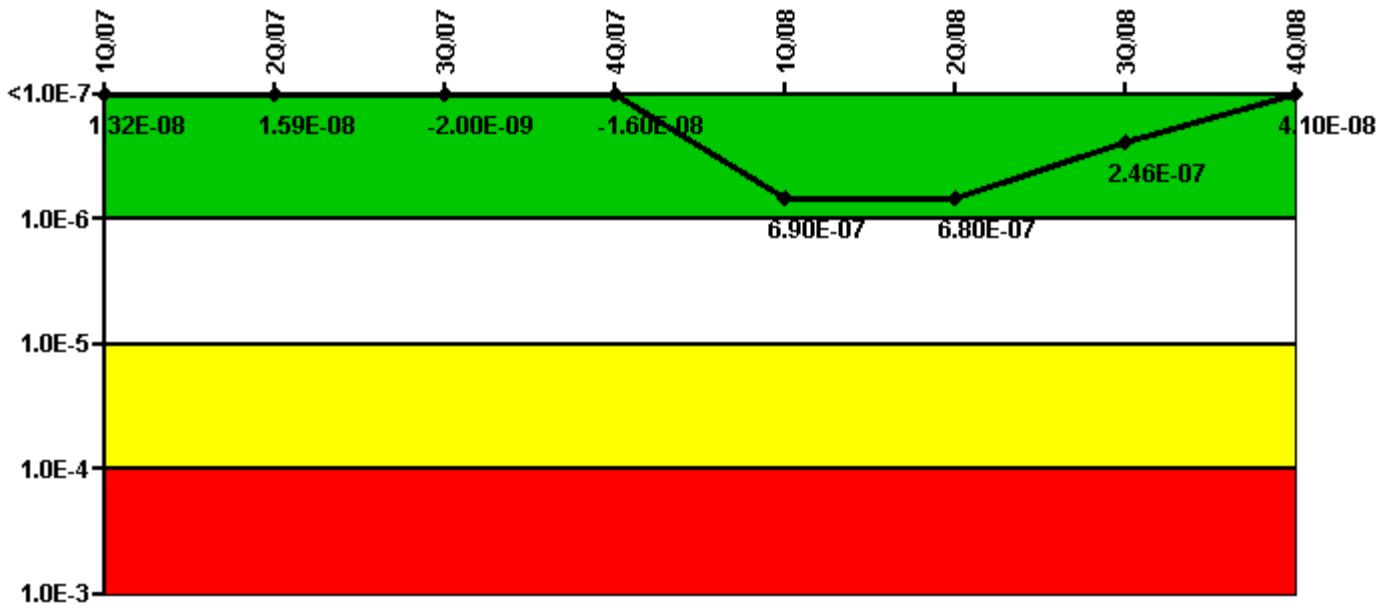
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI ( $\Delta$ CDF)	5.90E-08	9.00E-08	9.80E-08	1.00E-07	6.40E-08	6.40E-08	3.10E-08	2.70E-08
URI ( $\Delta$ CDF)	5.30E-07	3.90E-07	5.40E-07	5.10E-07	5.10E-07	5.10E-07	3.40E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.89E-07	4.80E-07	6.38E-07	6.10E-07	5.74E-07	5.74E-07	3.71E-07	3.07E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



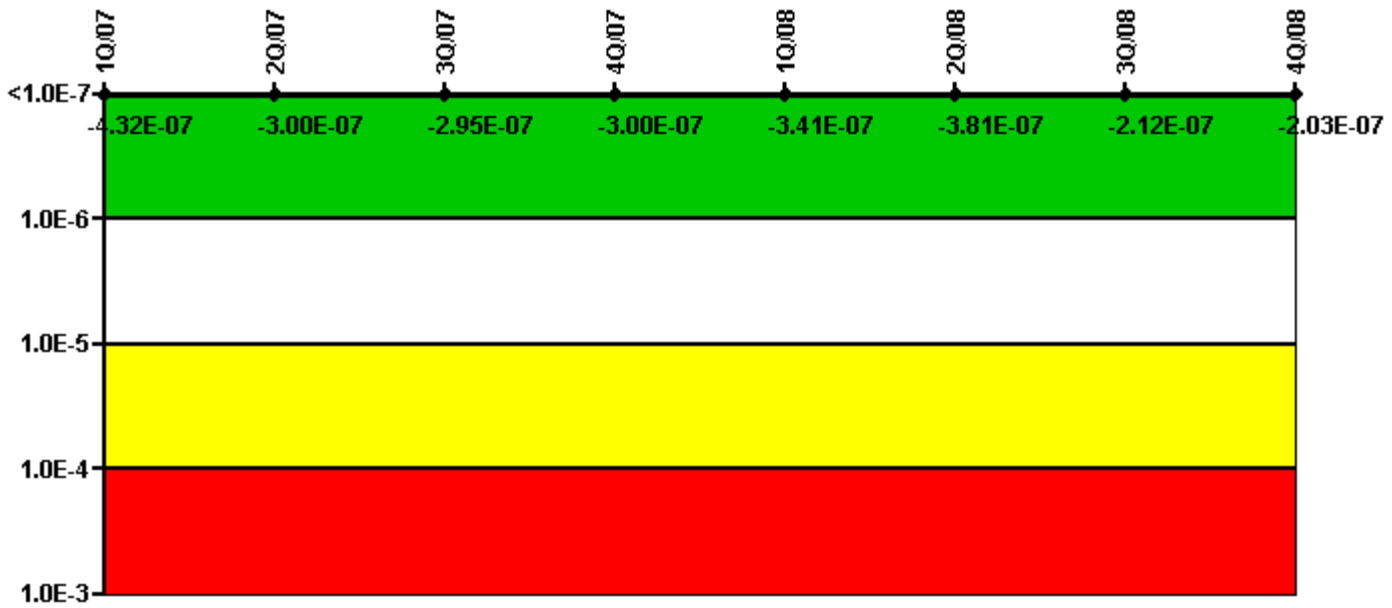
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	5.60E-09	4.90E-09	-2.80E-08	-4.40E-08	4.90E-07	4.90E-07	1.80E-07	9.30E-08
URI (ΔCDF)	7.60E-09	1.10E-08	2.60E-08	2.80E-08	2.00E-07	1.90E-07	6.60E-08	-5.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.32E-08	1.59E-08	-2.00E-09	-1.60E-08	6.90E-07	6.80E-07	2.46E-07	4.10E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



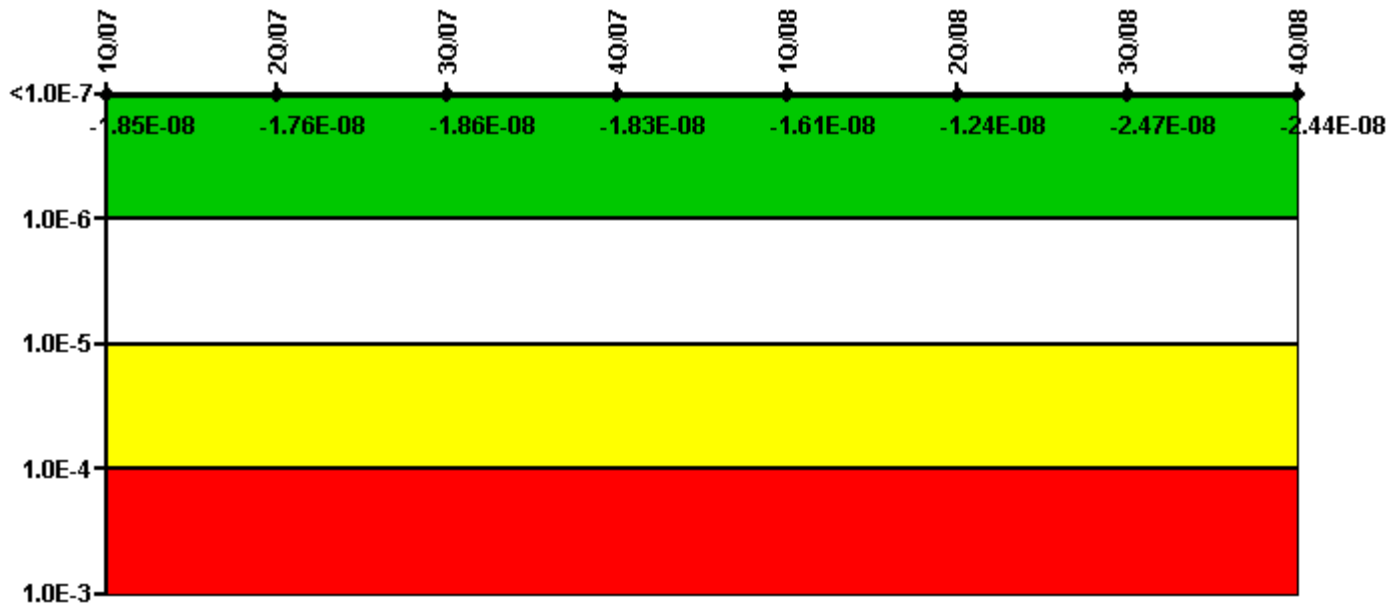
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI ( $\Delta$ CDF)	-4.20E-08	1.00E-07	9.50E-08	9.00E-08	3.90E-08	9.20E-09	-1.50E-09	-2.70E-09
URI ( $\Delta$ CDF)	-3.90E-07	-4.00E-07	-3.90E-07	-3.90E-07	-3.80E-07	-3.90E-07	-2.10E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.32E-07	-3.00E-07	-2.95E-07	-3.00E-07	-3.41E-07	-3.81E-07	-2.12E-07	-2.03E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



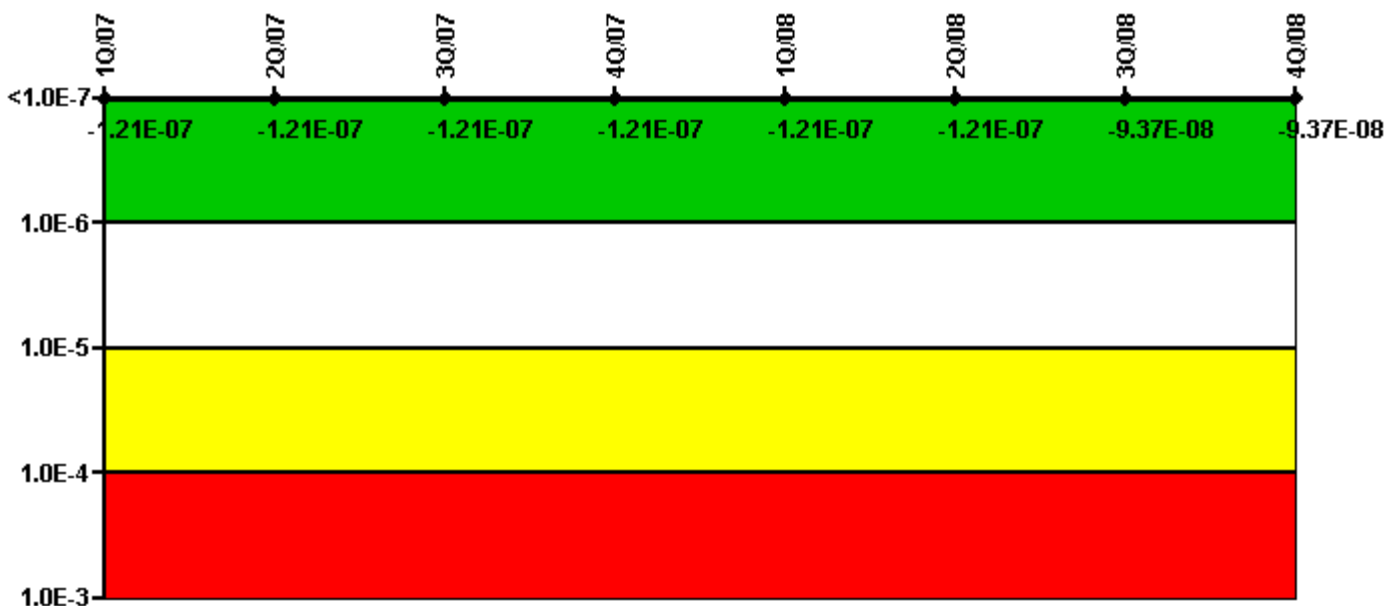
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI ( $\Delta$ CDF)	-8.50E-09	-7.60E-09	-7.60E-09	-7.30E-09	-5.10E-09	-1.40E-09	-7.10E-10	-4.40E-10
URI ( $\Delta$ CDF)	-1.00E-08	-1.00E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-2.40E-08	-2.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.85E-08	-1.76E-08	-1.86E-08	-1.83E-08	-1.61E-08	-1.24E-08	-2.47E-08	-2.44E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



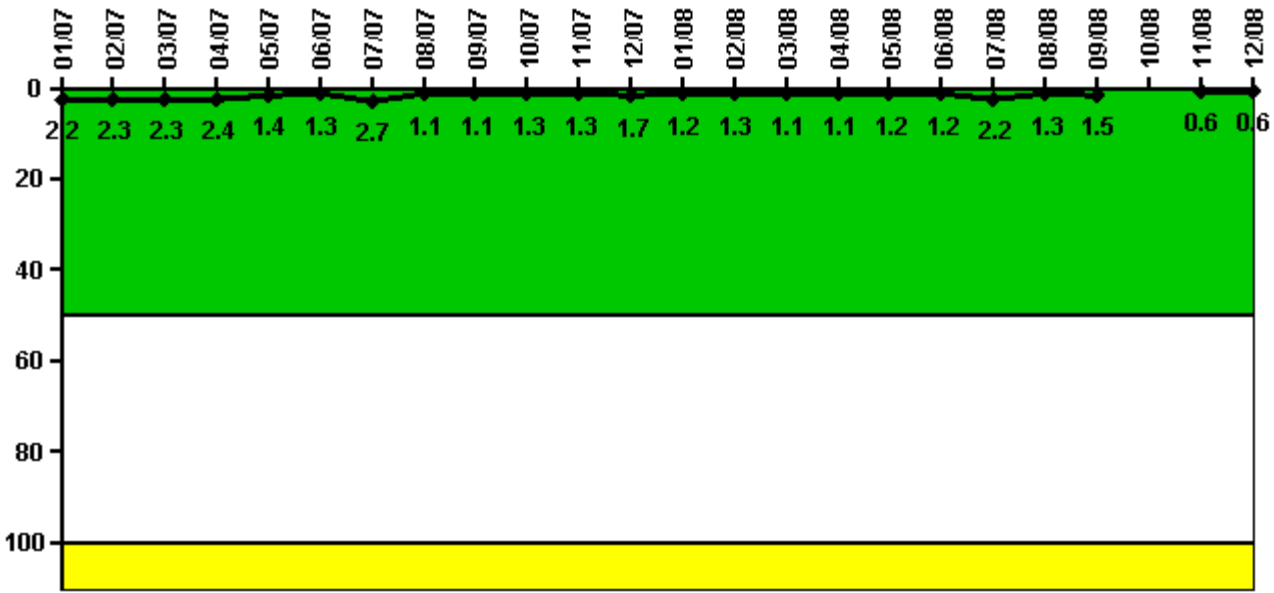
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI ( $\Delta$ CDF)	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.70E-09	-1.70E-09
URI ( $\Delta$ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-9.20E-08	-9.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-9.37E-08	-9.37E-08

Licensee Comments: none

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.004440	0.004620	0.004590	0.004790	0.002870	0.002660	0.005360	0.002100	0.002170	0.002670	0.002510	0.003380
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	2.2	2.3	2.3	2.4	1.4	1.3	2.7	1.1	1.1	1.3	1.3	1.7

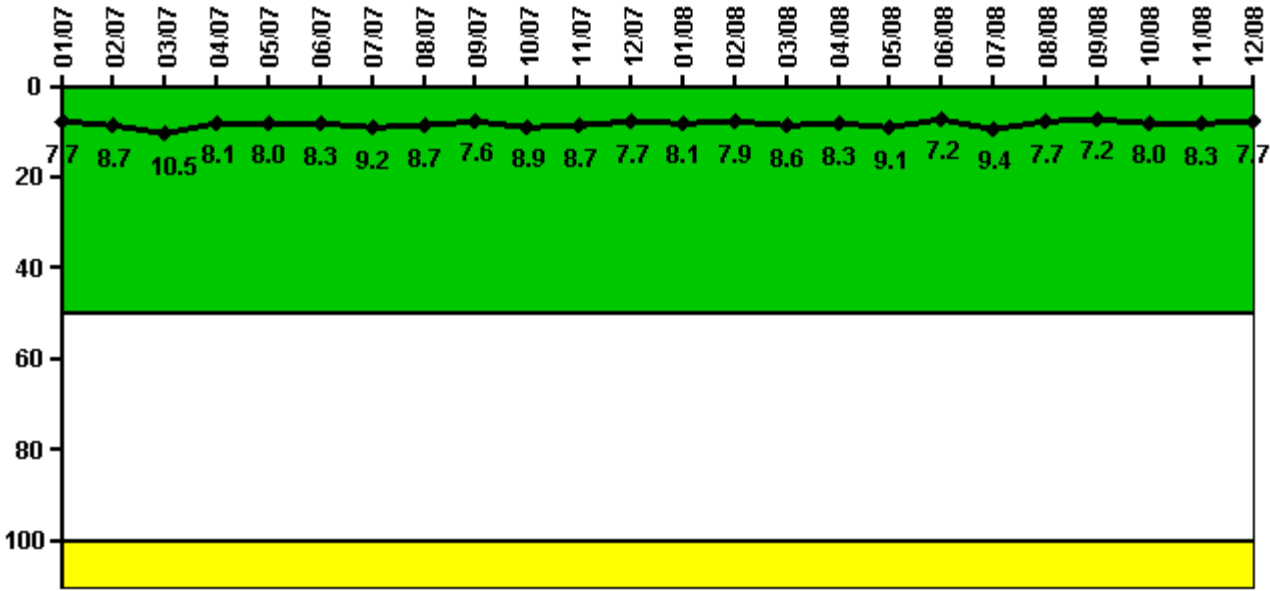
  

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.002370	0.002660	0.002120	0.002210	0.002420	0.002430	0.004370	0.002590	0.003030	N/A	0.001140	0.001250
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	1.2	1.3	1.1	1.1	1.2	1.2	2.2	1.3	1.5	N/A	0.6	0.6

Licensee Comments: none



## Reactor Coolant System Leakage



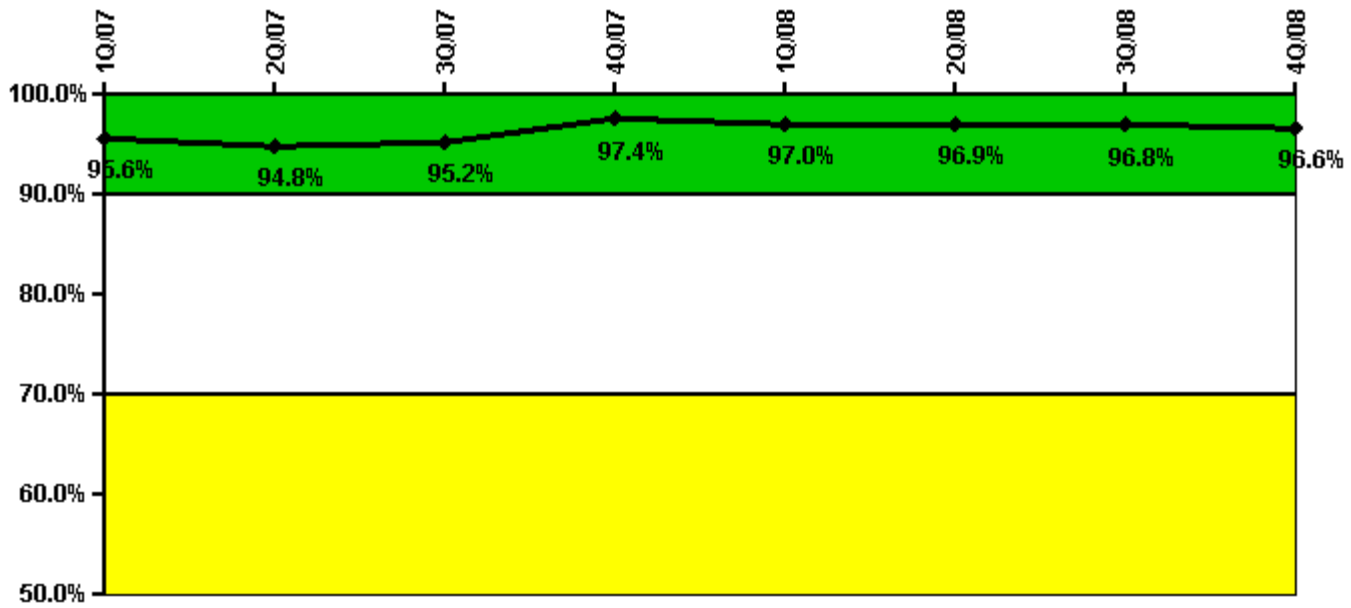
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum leakage	2.300	2.600	3.140	2.420	2.390	2.480	2.770	2.600	2.280	2.680	2.620	2.300
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.7	8.7	10.5	8.1	8.0	8.3	9.2	8.7	7.6	8.9	8.7	7.7
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	2.420	2.380	2.570	2.480	2.730	2.170	2.810	2.320	2.170	2.400	2.480	2.320
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.1	7.9	8.6	8.3	9.1	7.2	9.4	7.7	7.2	8.0	8.3	7.7

Licensee Comments: none

## Drill/Exercise Performance



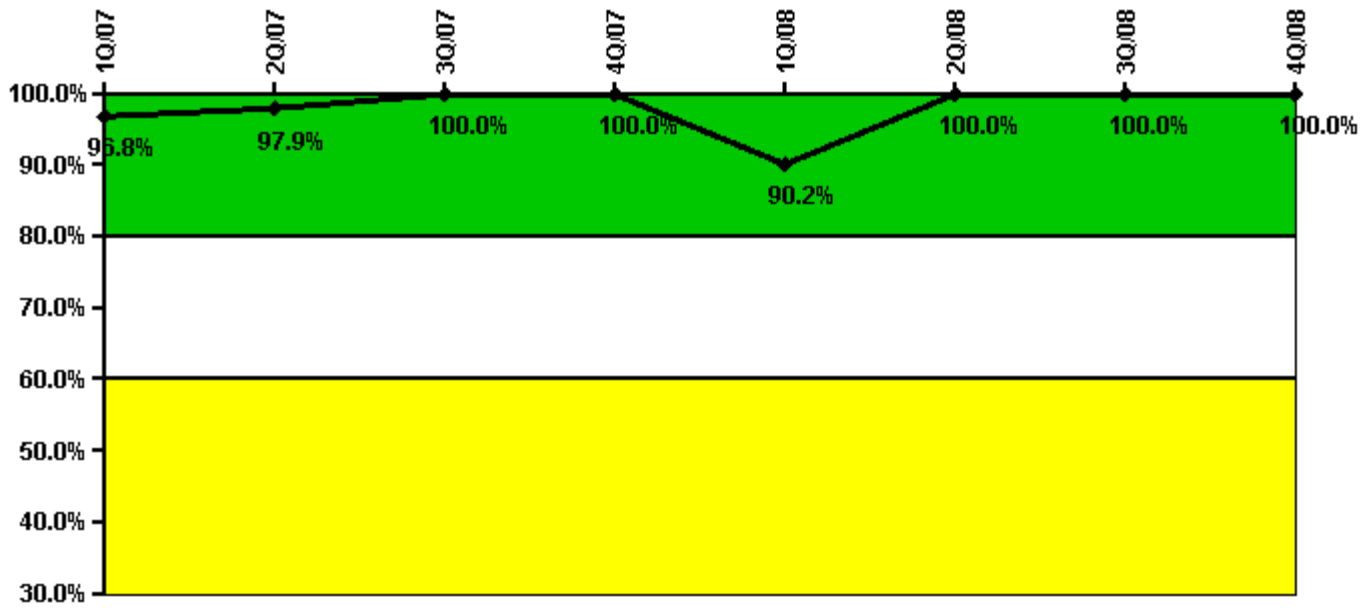
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful opportunities	11.0	28.0	24.0	77.0	20.0	55.0	10.0	1.0
Total opportunities	12.0	29.0	24.0	78.0	22.0	57.0	10.0	2.0
<b>Indicator value</b>	<b>95.6%</b>	<b>94.8%</b>	<b>95.2%</b>	<b>97.4%</b>	<b>97.0%</b>	<b>96.9%</b>	<b>96.8%</b>	<b>96.6%</b>

Licensee Comments: none

## ERO Drill Participation



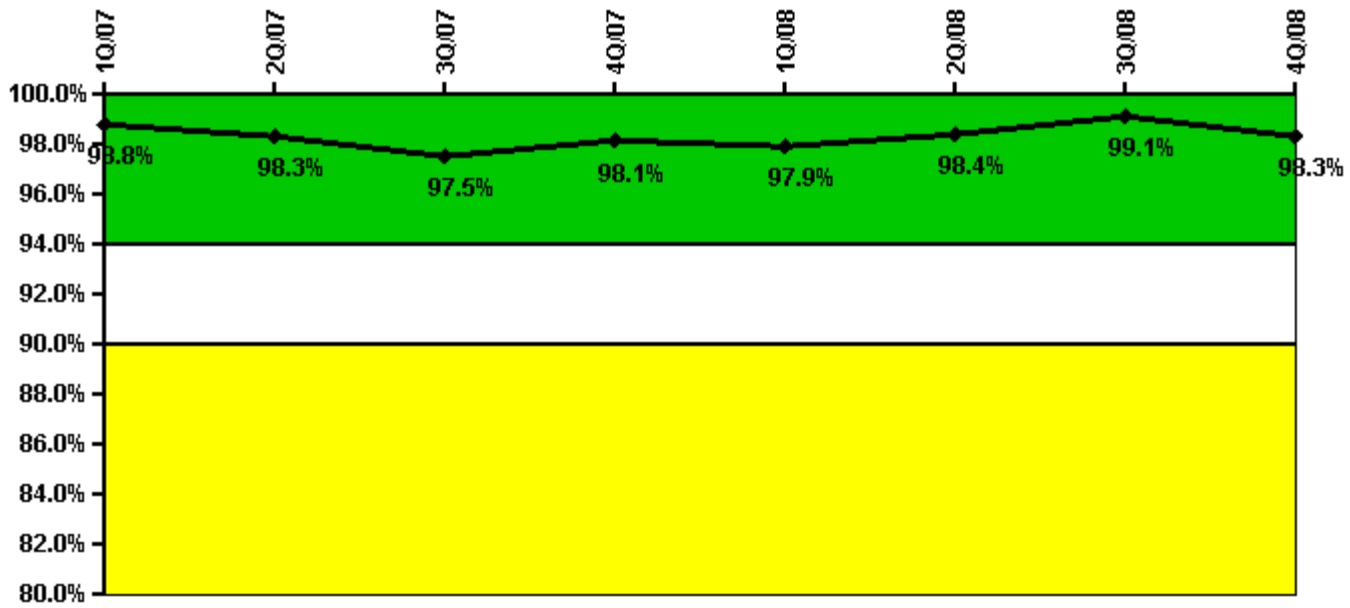
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Participating Key personnel	90.0	92.0	90.0	83.0	74.0	80.0	84.0	82.0
Total Key personnel	93.0	94.0	90.0	83.0	82.0	80.0	84.0	82.0
Indicator value	<b>96.8%</b>	<b>97.9%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>90.2%</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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful siren-tests	128	126	123	129	127	125	82	125
Total sirens-tests	129	129	129	129	129	125	84	129
<b>Indicator value</b>	<b>98.8%</b>	<b>98.3%</b>	<b>97.5%</b>	<b>98.1%</b>	<b>97.9%</b>	<b>98.4%</b>	<b>99.1%</b>	<b>98.3%</b>

Licensee Comments: none

## Occupational Exposure Control Effectiveness



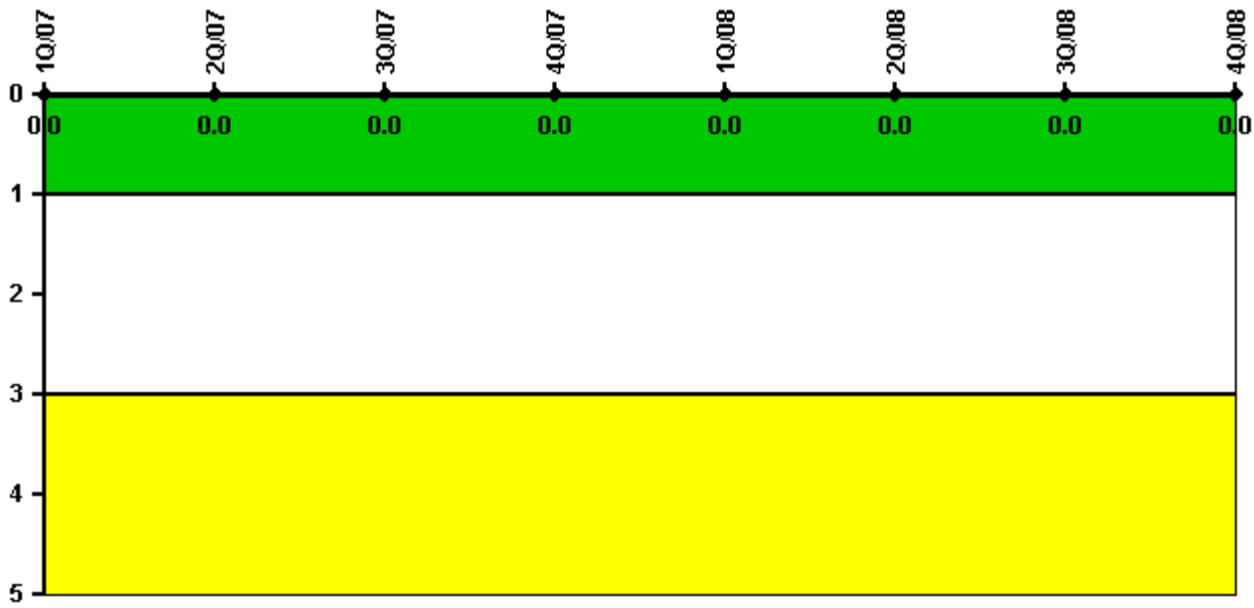
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

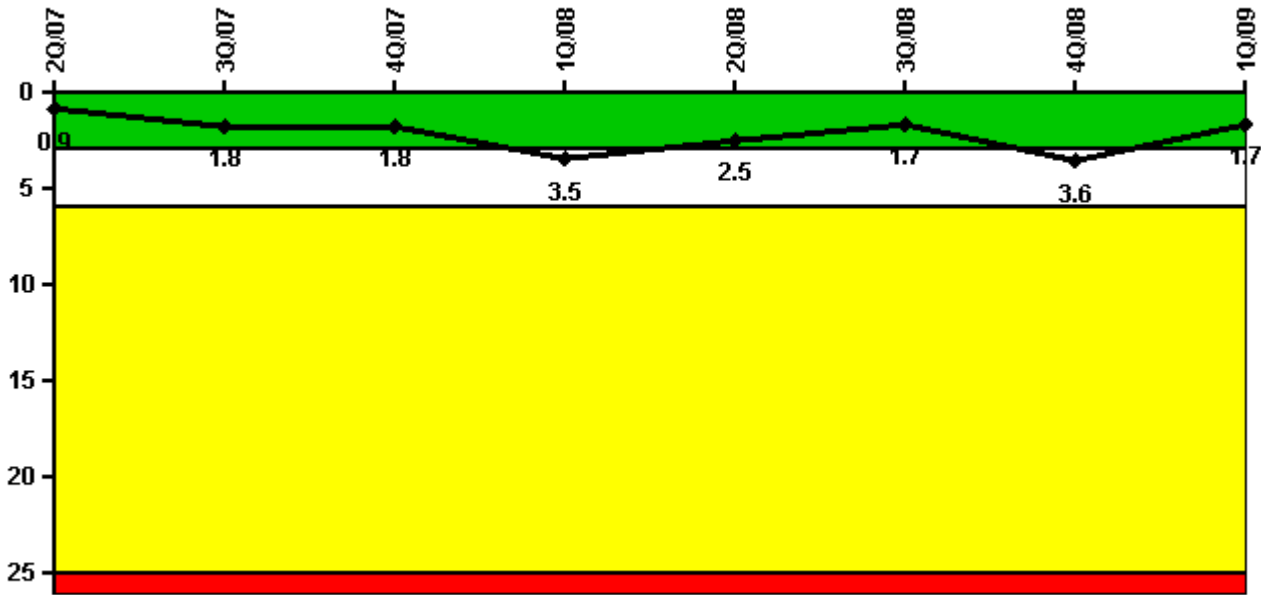
[Security](#) information not publicly available.

# Grand Gulf 1

## 1Q/2009 Performance Indicators

Licensee's General Comments: MS06 and MS08 data base corrections are submitted for the periods 1st Quarter 2007 through 4th Quarter 2008. The performance indicator colors are not affected.

### Unplanned Scrams per 7000 Critical Hrs



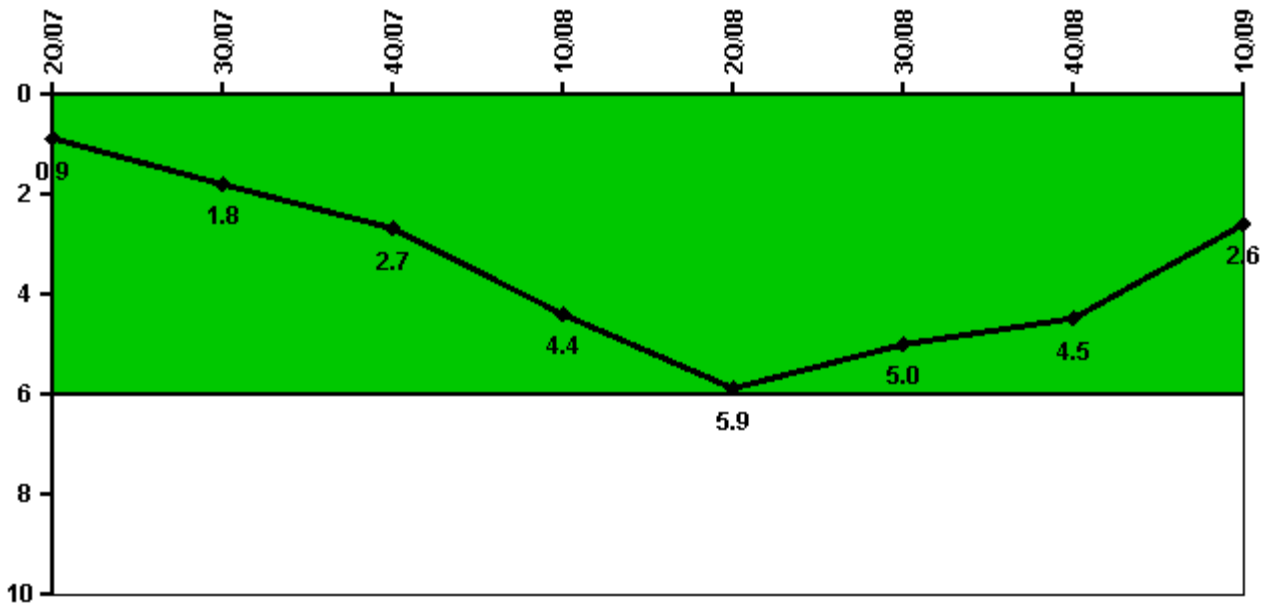
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned scrams	1.0	1.0	0	2.0	0	0	2.0	0
Critical hours	1817.7	1863.9	2209.0	2020.5	2184.0	1988.0	1671.7	2159.0
Indicator value	0.9	1.8	1.8	3.5	2.5	1.7	3.6	1.7

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

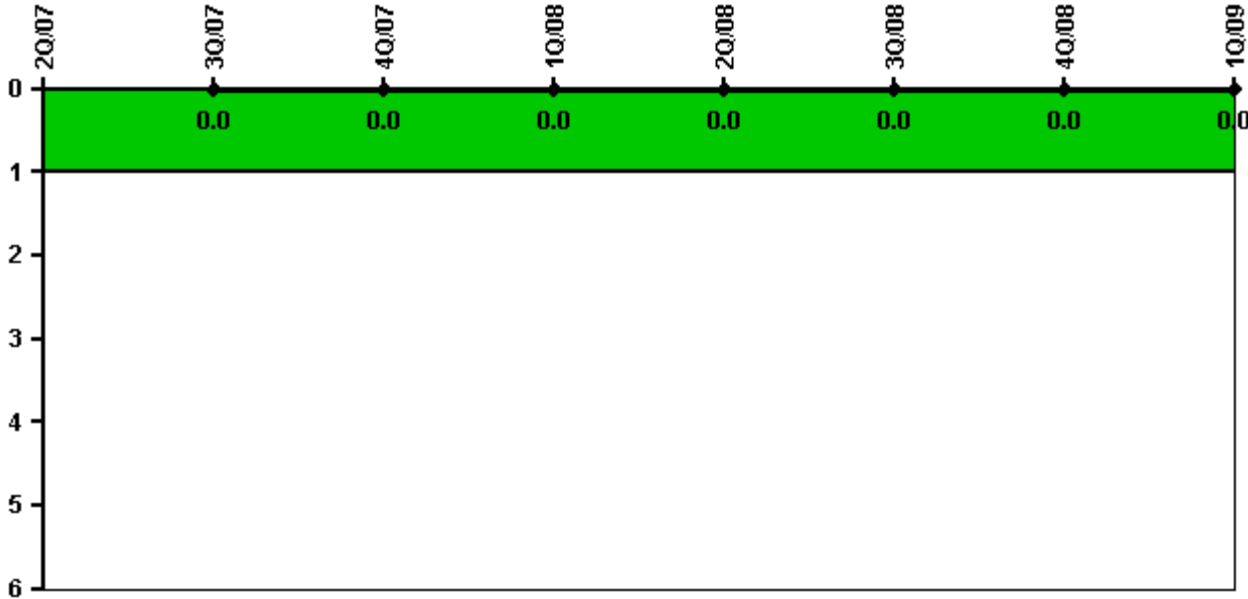
### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	0	1.0	2.0	2.0	2.0	0	1.0	0
Critical hours	1817.7	1863.9	2209.0	2020.5	2184.0	1988.0	1671.7	2159.0
<b>Indicator value</b>	<b>0.9</b>	<b>1.8</b>	<b>2.7</b>	<b>4.4</b>	<b>5.9</b>	<b>5.0</b>	<b>4.5</b>	<b>2.6</b>

Licensee Comments: none



# Unplanned Scrams with Complications



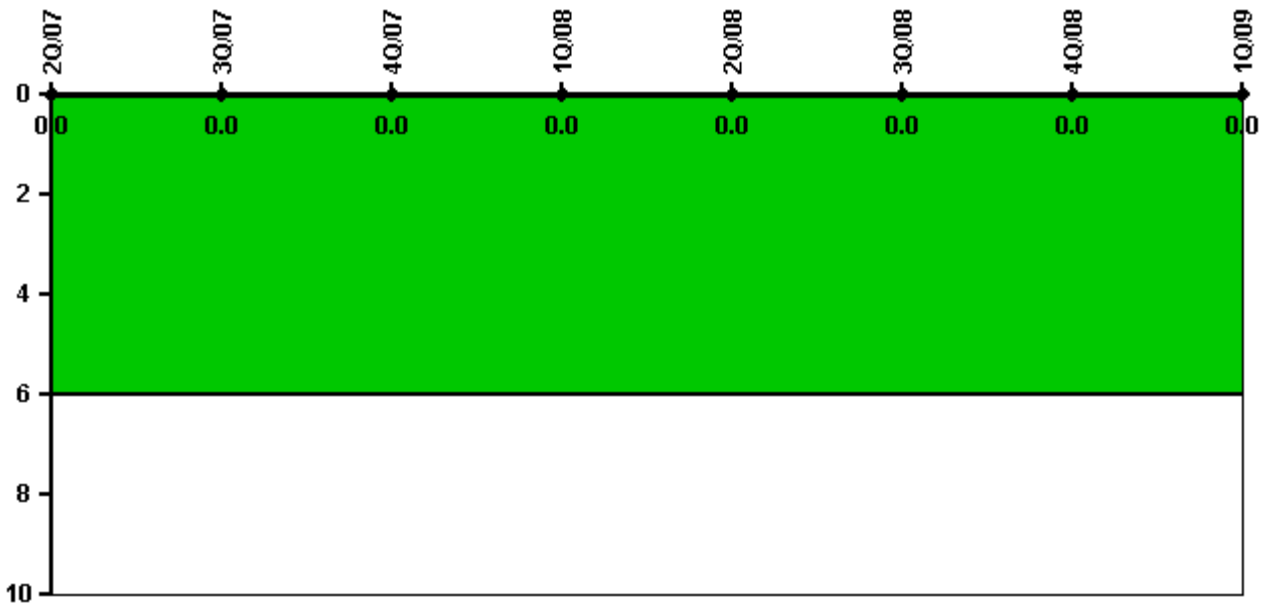
Thresholds: White > 1.0

**Notes**

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

Licensee Comments: none

## Safety System Functional Failures (BWR)



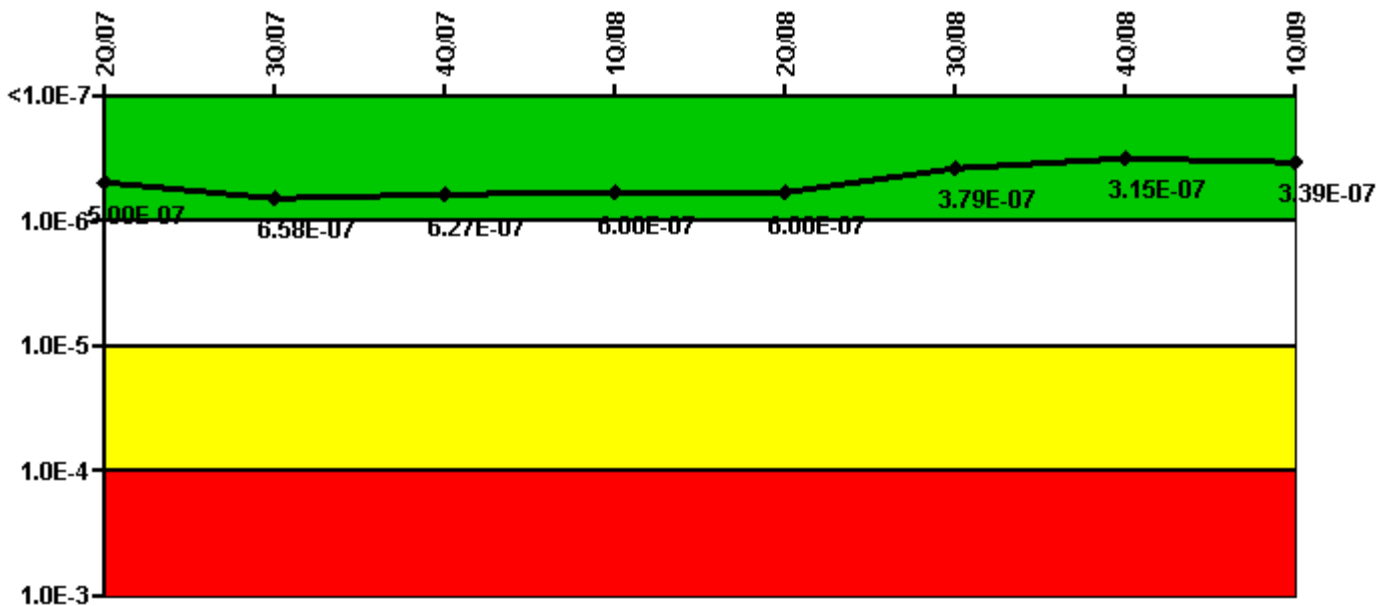
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Safety System Functional Failures	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

# Mitigating Systems Performance Index, Emergency AC Power System



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

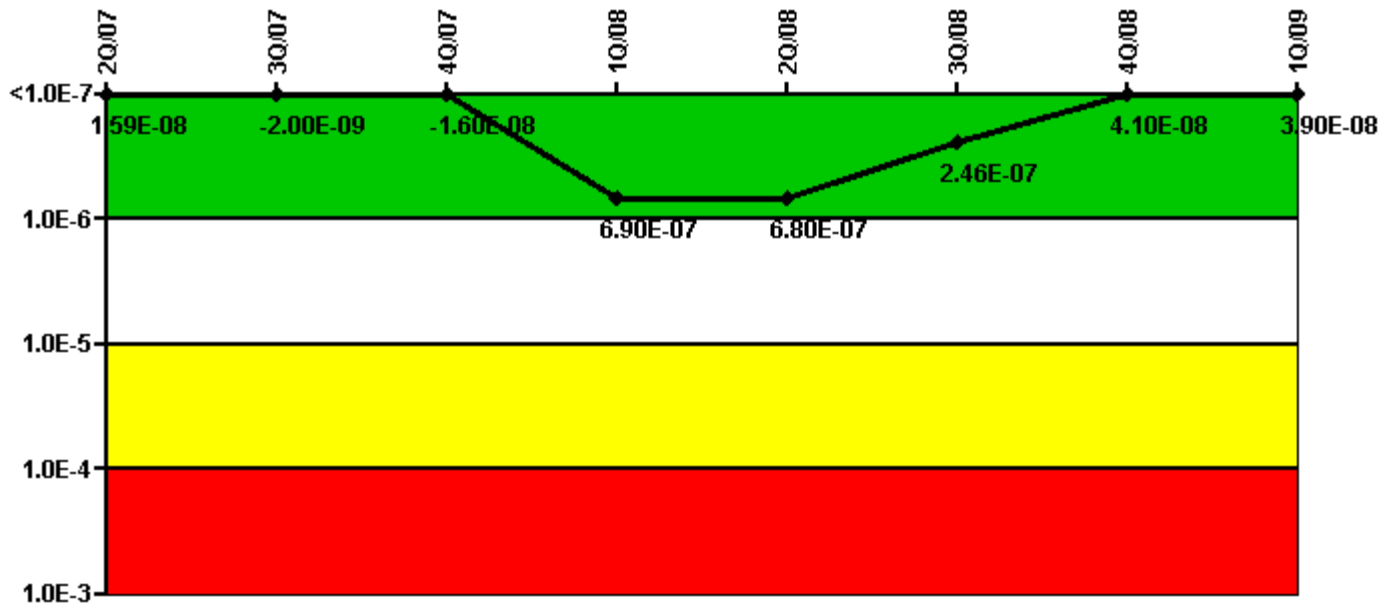
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	9.00E-08	9.80E-08	9.70E-08	6.00E-08	6.00E-08	2.90E-08	2.50E-08	3.90E-08
URI (ΔCDF)	4.10E-07	5.60E-07	5.30E-07	5.40E-07	5.40E-07	3.50E-07	2.90E-07	3.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.00E-07	6.58E-07	6.27E-07	6.00E-07	6.00E-07	3.79E-07	3.15E-07	3.39E-07

Licensee Comments:

3Q/08: Revision 3 of the GGNS PRA was issued on June 30, 2008. Revision 3 was a major update that included the update of plant specific data, initiator frequencies (both plant specific and generic), common cause analyses, human reliability analyses; the addition of several new initiators; and changes to the modeling of offsite power. The revision has resulted in a new overall core damage frequency, changes to the Fussell-Vesely importance of all of the MSPI related basic events and changes to the probability of many of the MSPI related basic events.

# Mitigating Systems Performance Index, High Pressure Injection System



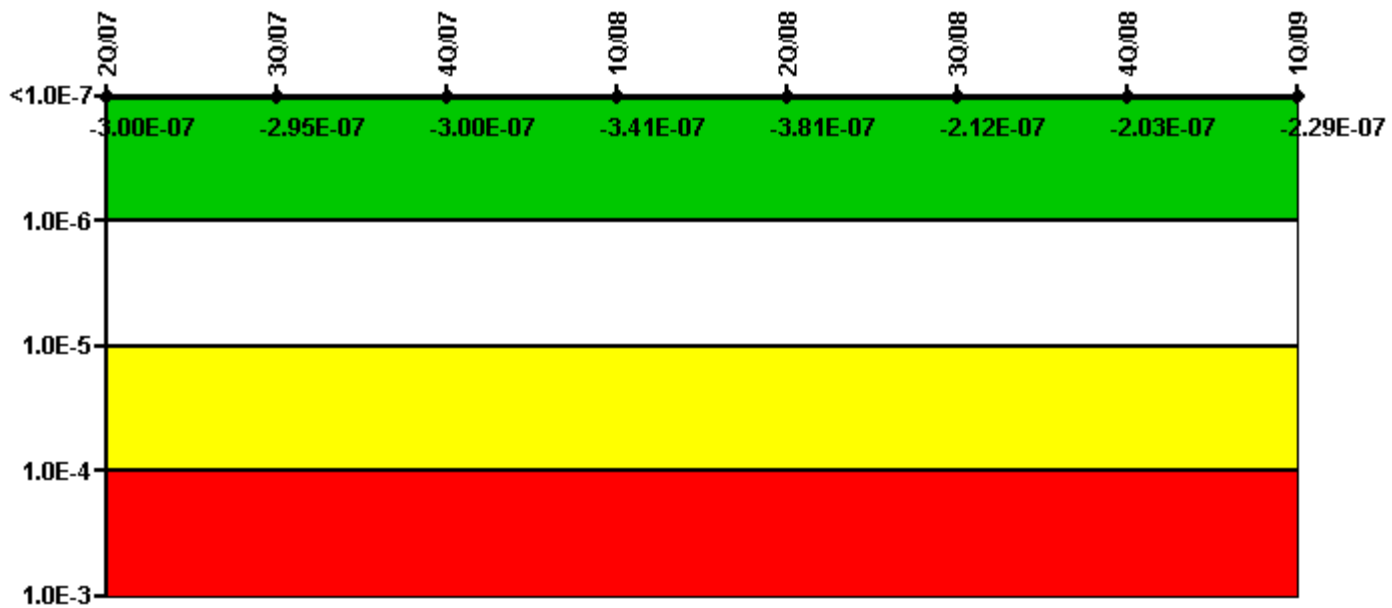
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI ( $\Delta$ CDF)	4.90E-09	-2.80E-08	-4.40E-08	4.90E-07	4.90E-07	1.80E-07	9.30E-08	9.10E-08
URI ( $\Delta$ CDF)	1.10E-08	2.60E-08	2.80E-08	2.00E-07	1.90E-07	6.60E-08	-5.20E-08	-5.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.59E-08	-2.00E-09	-1.60E-08	6.90E-07	6.80E-07	2.46E-07	4.10E-08	3.90E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



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

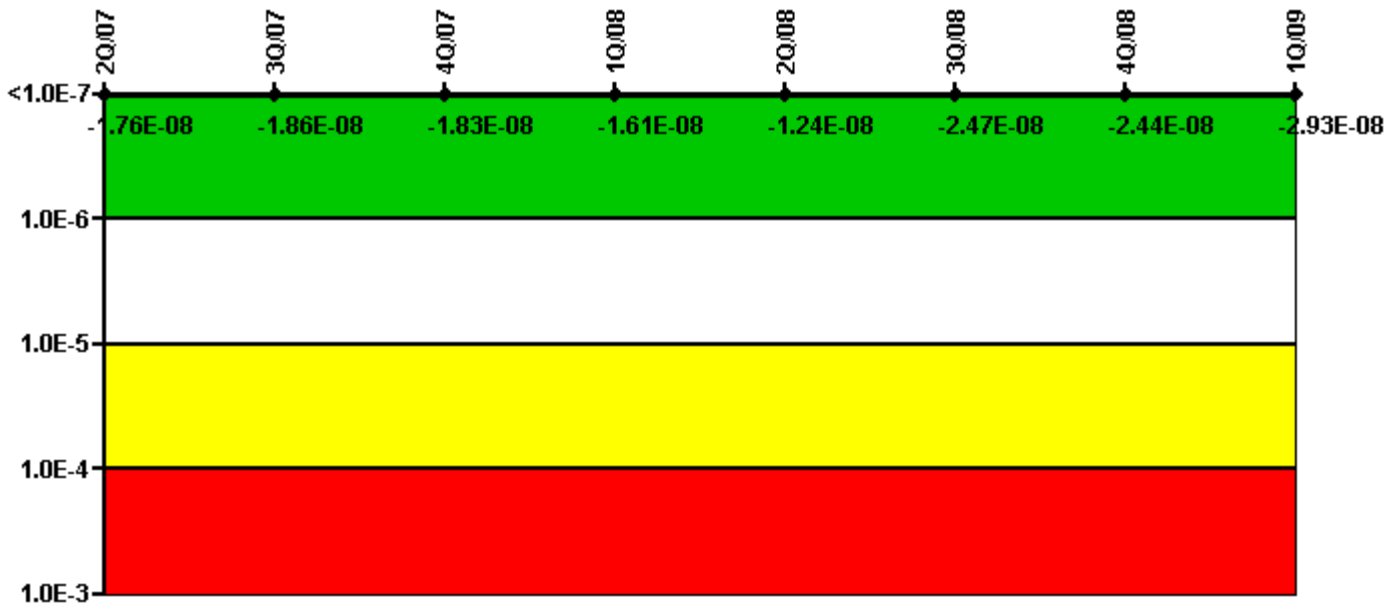
## Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI ( $\Delta$ CDF)	1.00E-07	9.50E-08	9.00E-08	3.90E-08	8.90E-09	-1.70E-09	-2.90E-09	-1.90E-08
URI ( $\Delta$ CDF)	-4.00E-07	-3.90E-07	-3.90E-07	-3.80E-07	-3.90E-07	-2.10E-07	-2.00E-07	-2.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-07	-2.95E-07	-3.00E-07	-3.41E-07	-3.81E-07	-2.12E-07	-2.03E-07	-2.29E-07

Licensee Comments:

3Q/08: Revision 3 of the GGNS PRA was issued on June 30, 2008. Revision 3 was a major update that included the update of plant specific data, initiator frequencies (both plant specific and generic), common cause analyses, human reliability analyses; the addition of several new initiators; and changes to the modeling of offsite power. The revision has resulted in a new overall core damage frequency, changes to the Fussell-Vesely importance of all of the MSPI related basic events and changes to the probability of many of the MSPI related basic events.

# Mitigating Systems Performance Index, Residual Heat Removal System



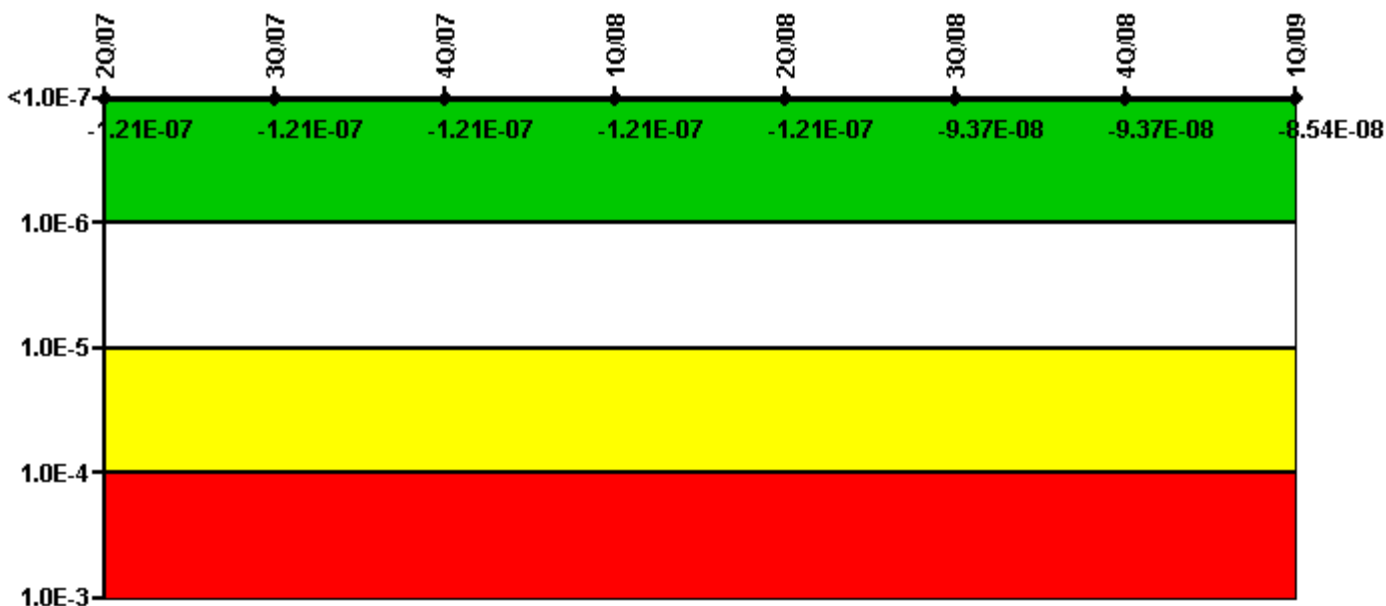
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI ( $\Delta$ CDF)	-7.60E-09	-7.60E-09	-7.30E-09	-5.10E-09	-1.40E-09	-7.10E-10	-4.40E-10	-5.30E-09
URI ( $\Delta$ CDF)	-1.00E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-2.40E-08	-2.40E-08	-2.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.76E-08	-1.86E-08	-1.83E-08	-1.61E-08	-1.24E-08	-2.47E-08	-2.44E-08	-2.93E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



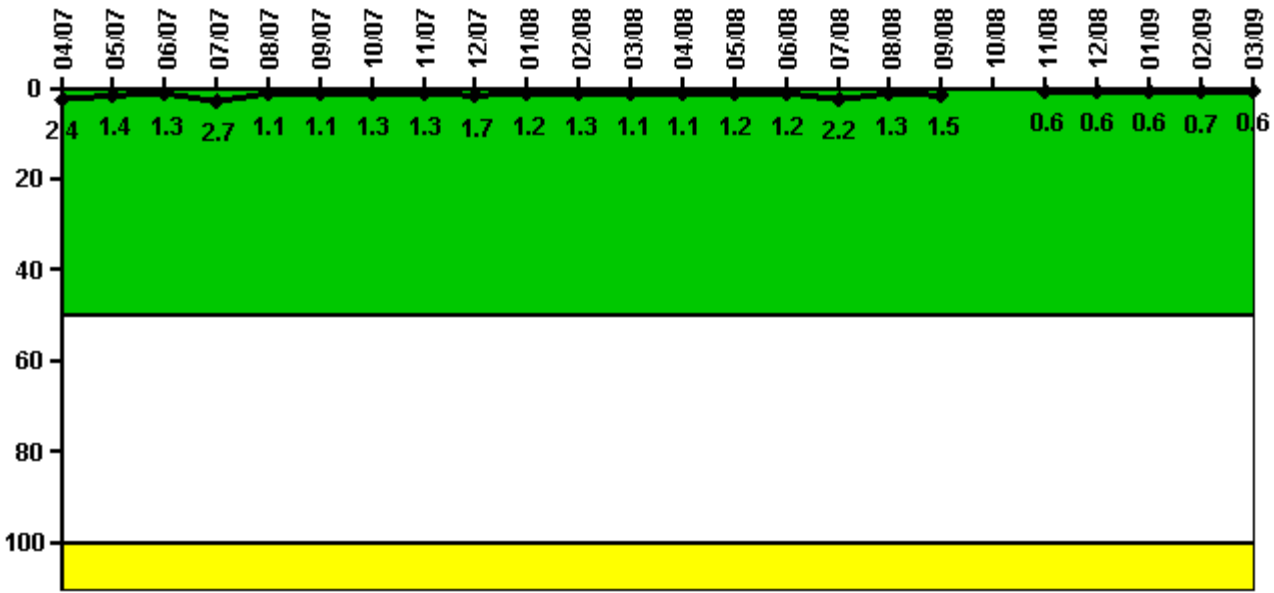
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI ( $\Delta$ CDF)	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.70E-09	-1.70E-09	6.60E-09
URI ( $\Delta$ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-9.20E-08	-9.20E-08	-9.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-9.37E-08	-9.37E-08	-8.54E-08

Licensee Comments: none

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	0.004790	0.002870	0.002660	0.005360	0.002100	0.002170	0.002670	0.002510	0.003380	0.002370	0.002660	0.002120
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	2.4	1.4	1.3	2.7	1.1	1.1	1.3	1.3	1.7	1.2	1.3	1.1

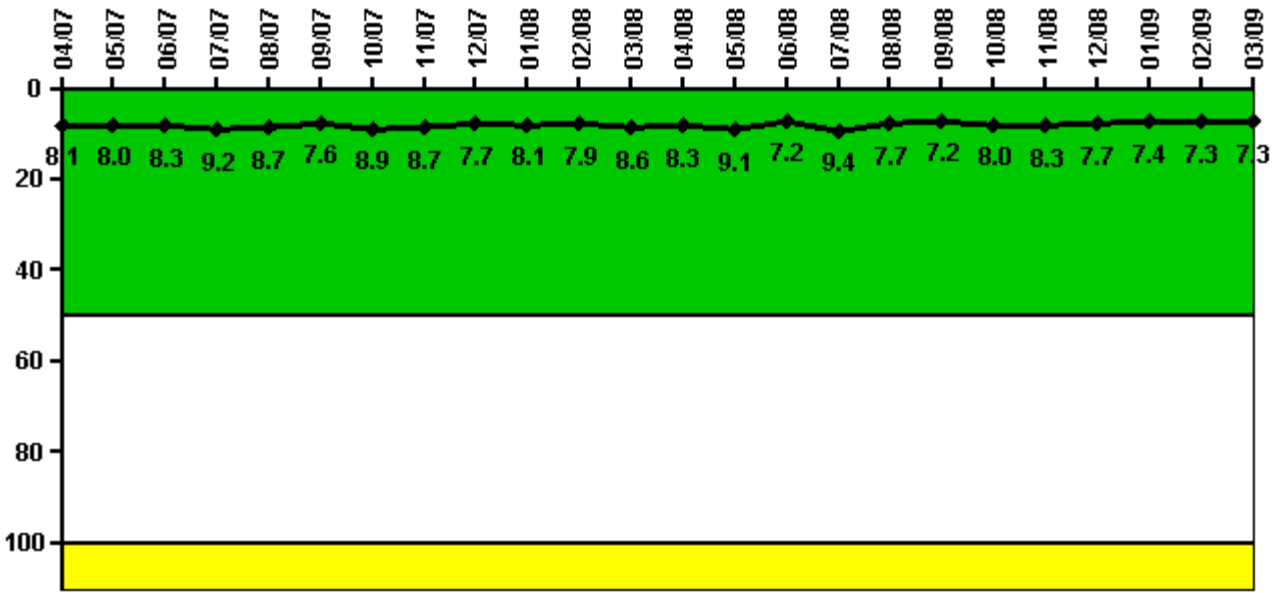
  

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.002210	0.002420	0.002430	0.004370	0.002590	0.003030	N/A	0.001140	0.001250	0.001130	0.001420	0.001160
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	1.1	1.2	1.2	2.2	1.3	1.5	N/A	0.6	0.6	0.6	0.7	0.6

Licensee Comments: none



## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

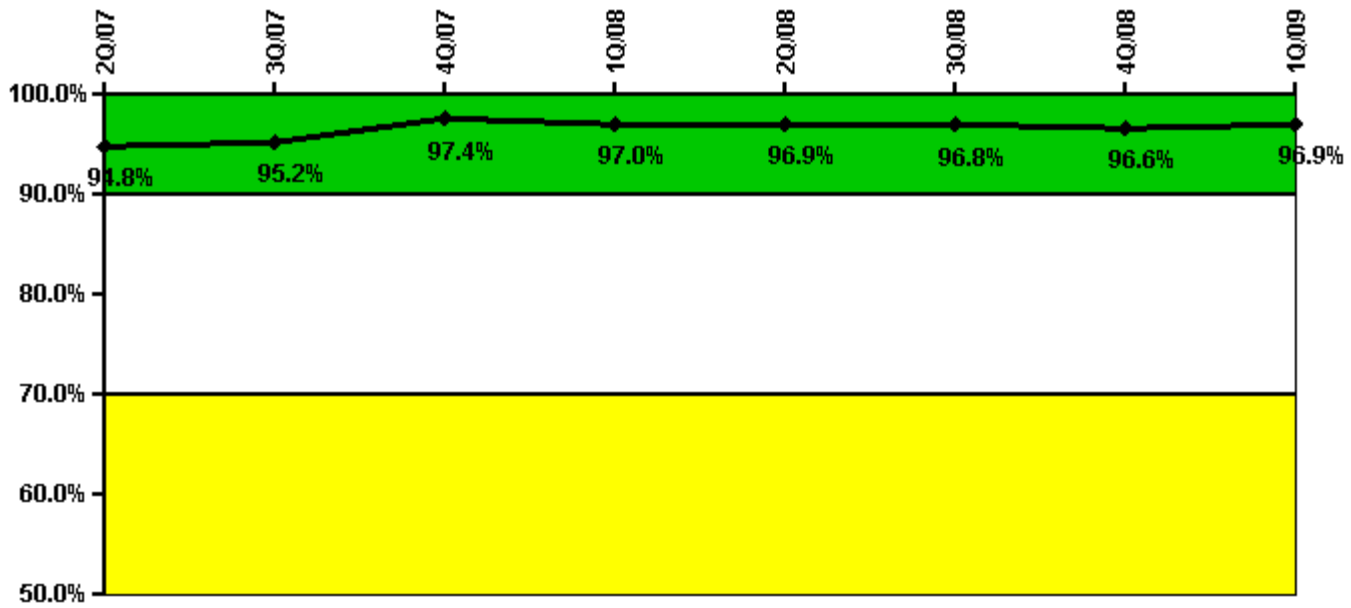
Reactor Coolant System Leakage	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum leakage	2.420	2.390	2.480	2.770	2.600	2.280	2.680	2.620	2.300	2.420	2.380	2.570
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.1	8.0	8.3	9.2	8.7	7.6	8.9	8.7	7.7	8.1	7.9	8.6

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	2.480	2.730	2.170	2.810	2.320	2.170	2.400	2.480	2.320	2.220	2.180	2.190
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.3	9.1	7.2	9.4	7.7	7.2	8.0	8.3	7.7	7.4	7.3	7.3

Licensee Comments: none

## Drill/Exercise Performance



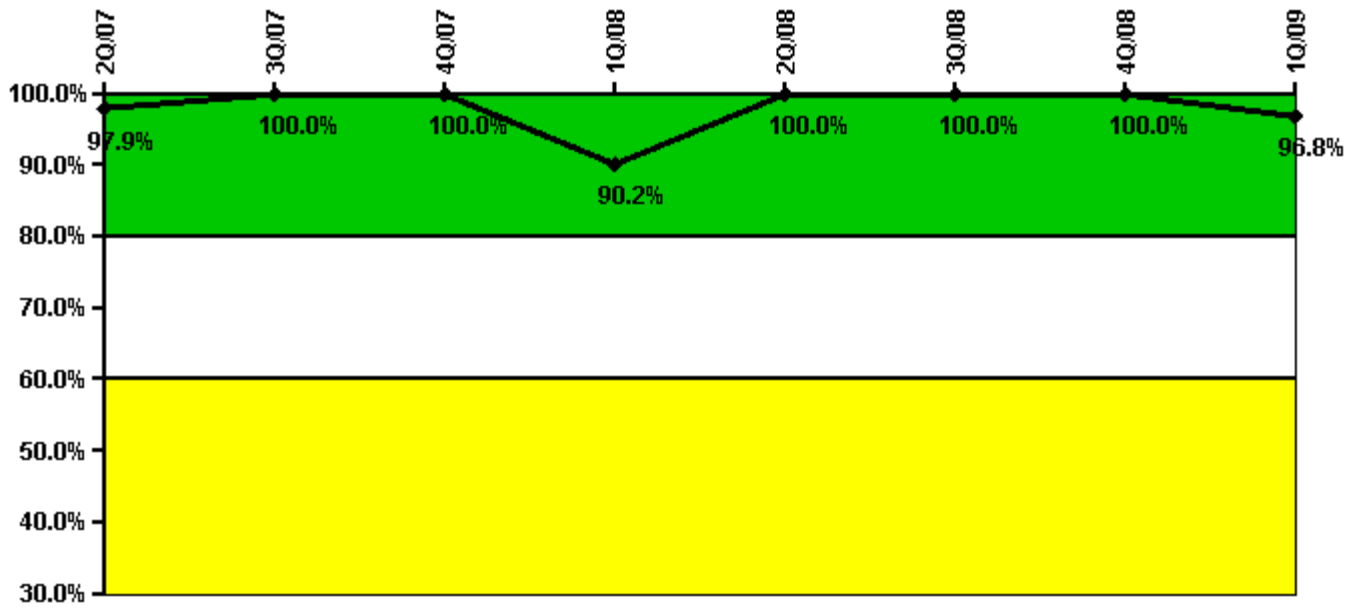
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful opportunities	28.0	24.0	77.0	20.0	55.0	10.0	1.0	2.0
Total opportunities	29.0	24.0	78.0	22.0	57.0	10.0	2.0	2.0
<b>Indicator value</b>	<b>94.8%</b>	<b>95.2%</b>	<b>97.4%</b>	<b>97.0%</b>	<b>96.9%</b>	<b>96.8%</b>	<b>96.6%</b>	<b>96.9%</b>

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

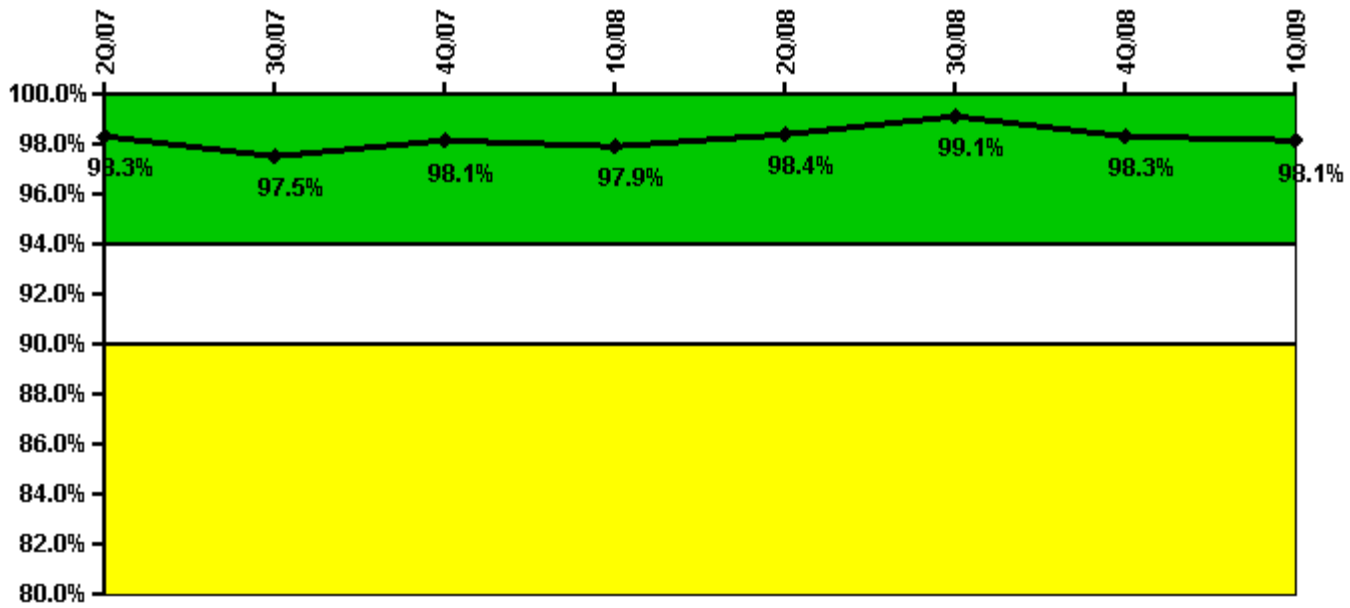
### Notes

ERO Drill Participation	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Participating Key personnel	92.0	90.0	83.0	74.0	80.0	84.0	81.0	61.0
Total Key personnel	94.0	90.0	83.0	82.0	80.0	84.0	81.0	63.0
Indicator value	<b>97.9%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>90.2%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>96.8%</b>

Licensee Comments:

4Q/08: One ERO member that had been removed from the ERO was included in the 4th quarter 2008 PI submittal. The baseline and participation result is revised from 82 to 81. The Performance Indicator color is not affected.

## Alert & Notification System



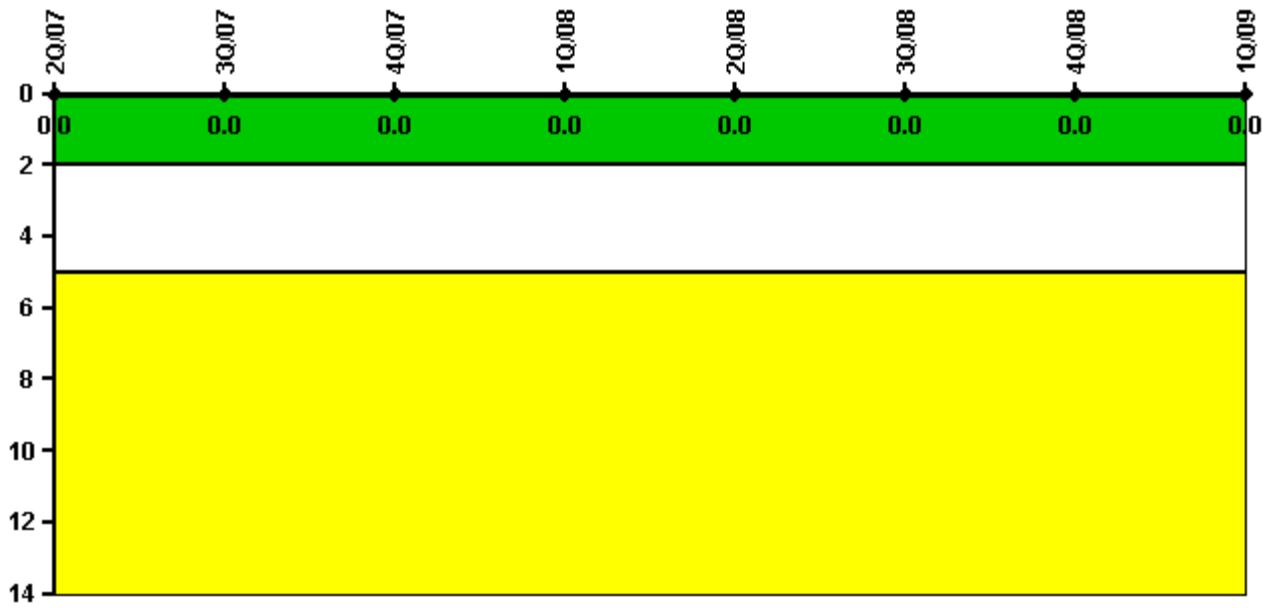
Thresholds: White < 94.0% Yellow < 90.0%

### Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	126	123	129	127	125	82	125	126
Total sirens-tests	129	129	129	129	125	84	129	129
<b>Indicator value</b>	<b>98.3%</b>	<b>97.5%</b>	<b>98.1%</b>	<b>97.9%</b>	<b>98.4%</b>	<b>99.1%</b>	<b>98.3%</b>	<b>98.1%</b>

Licensee Comments: none

## Occupational Exposure Control Effectiveness



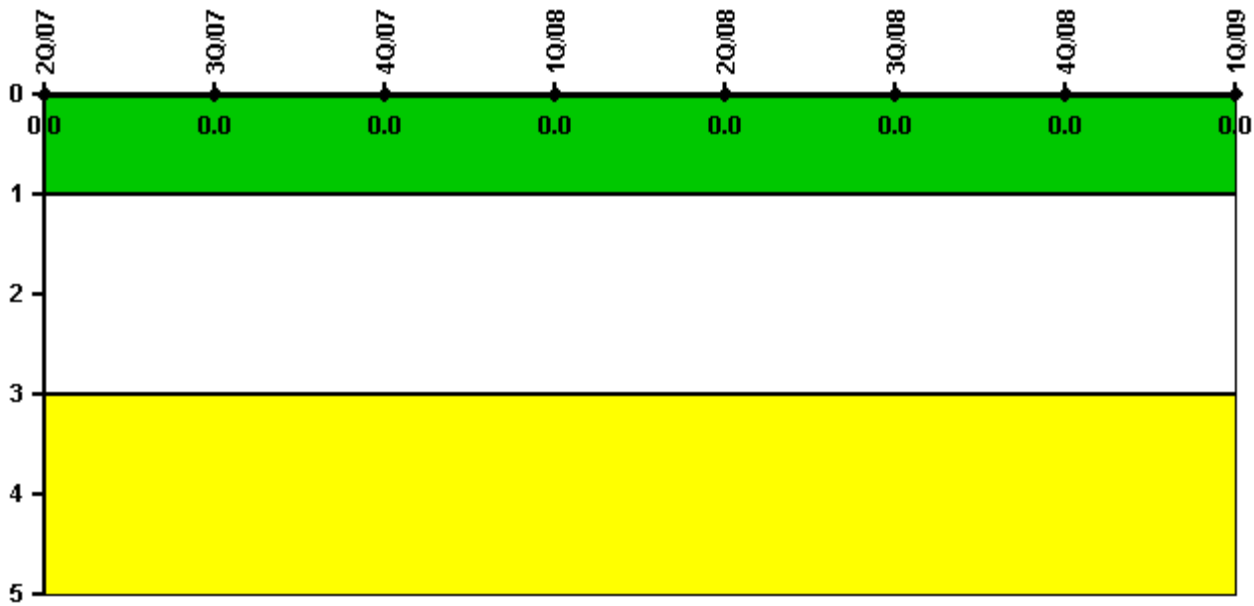
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/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

## RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

### Notes

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

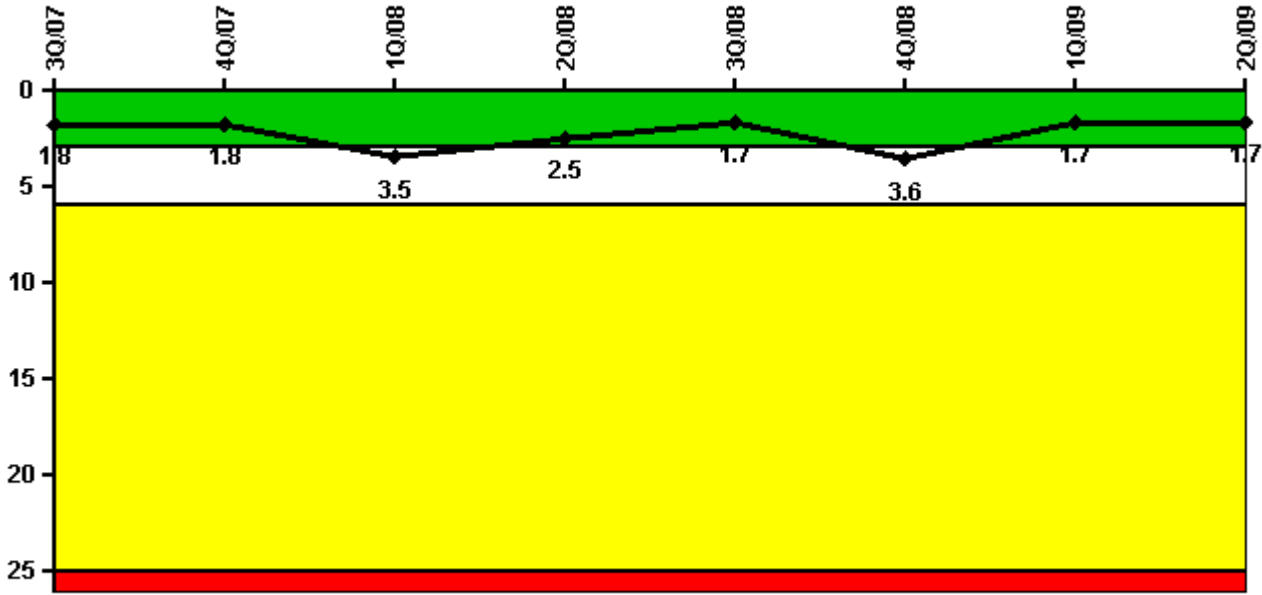
[Security](#) information not publicly available.

# Grand Gulf 1

## 2Q/2009 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



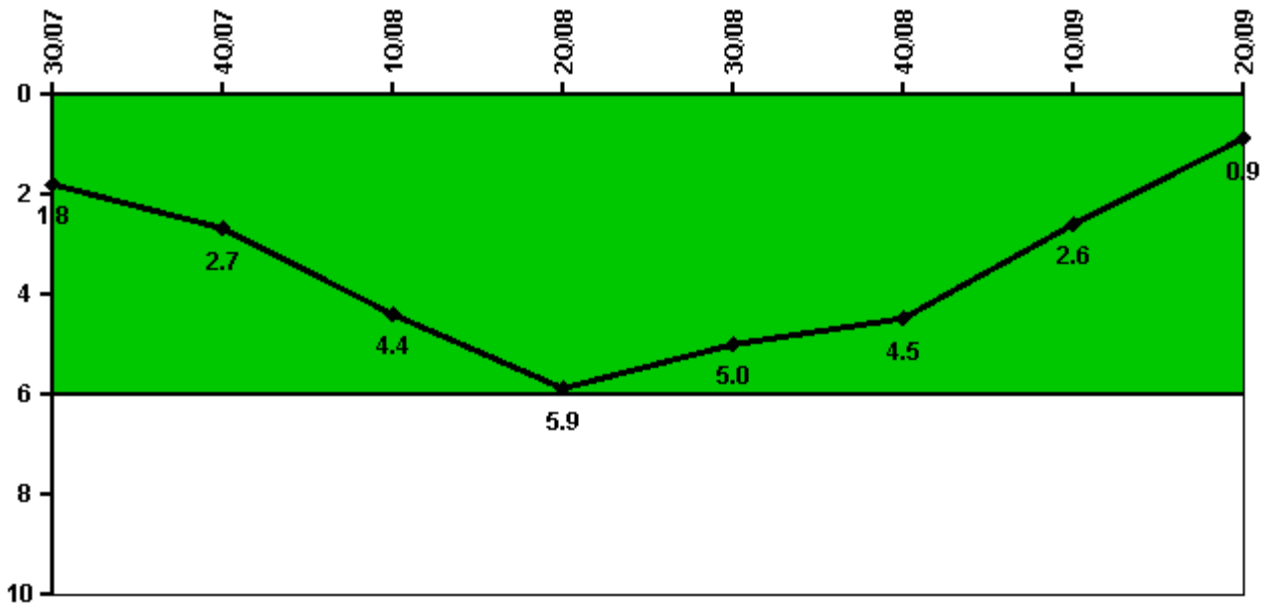
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned scrams	1.0	0	2.0	0	0	2.0	0	0
Critical hours	1863.9	2209.0	2020.5	2184.0	1988.0	1671.7	2159.0	2184.0
Indicator value	1.8	1.8	3.5	2.5	1.7	3.6	1.7	1.7

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

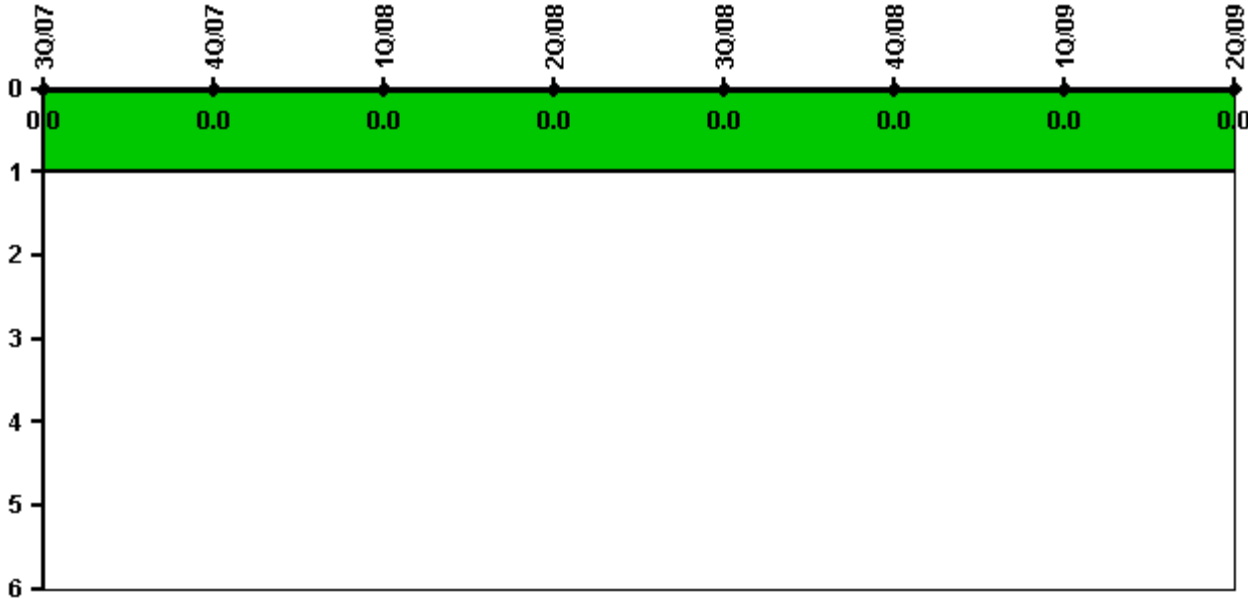
### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	1.0	2.0	2.0	2.0	0	1.0	0	0
Critical hours	1863.9	2209.0	2020.5	2184.0	1988.0	1671.7	2159.0	2184.0
<b>Indicator value</b>	<b>1.8</b>	<b>2.7</b>	<b>4.4</b>	<b>5.9</b>	<b>5.0</b>	<b>4.5</b>	<b>2.6</b>	<b>0.9</b>

Licensee Comments: none



# Unplanned Scrams with Complications



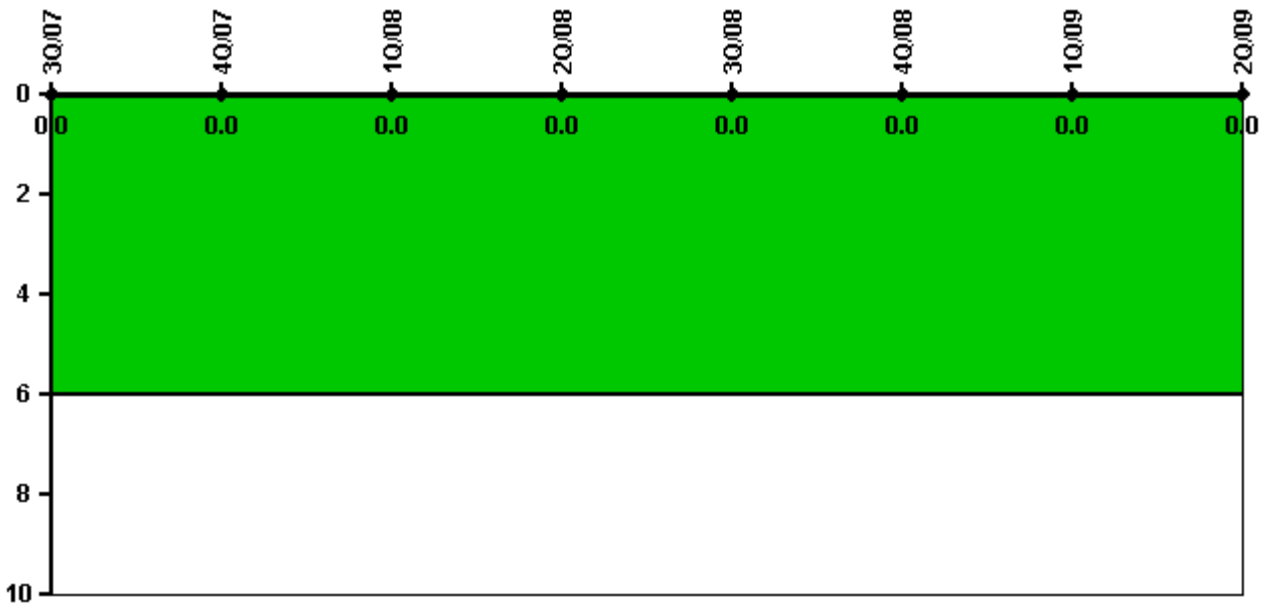
Thresholds: White > 1.0

**Notes**

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

Licensee Comments: none

## Safety System Functional Failures (BWR)



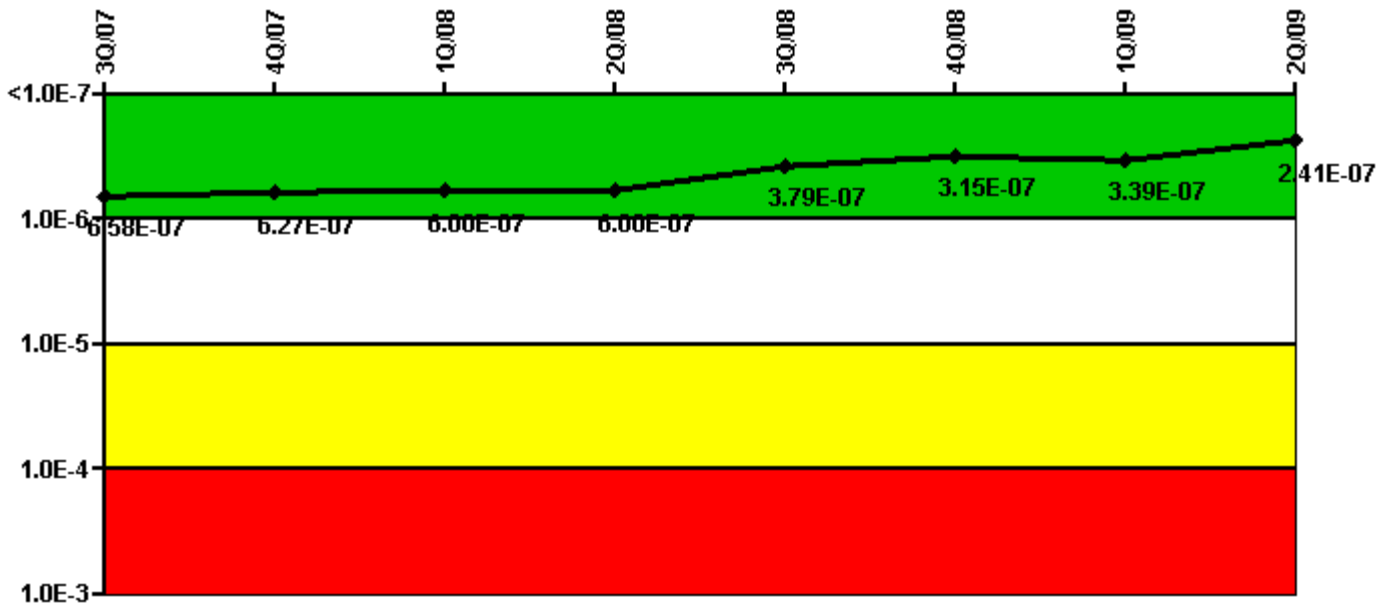
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Safety System Functional Failures	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

# Mitigating Systems Performance Index, Emergency AC Power System



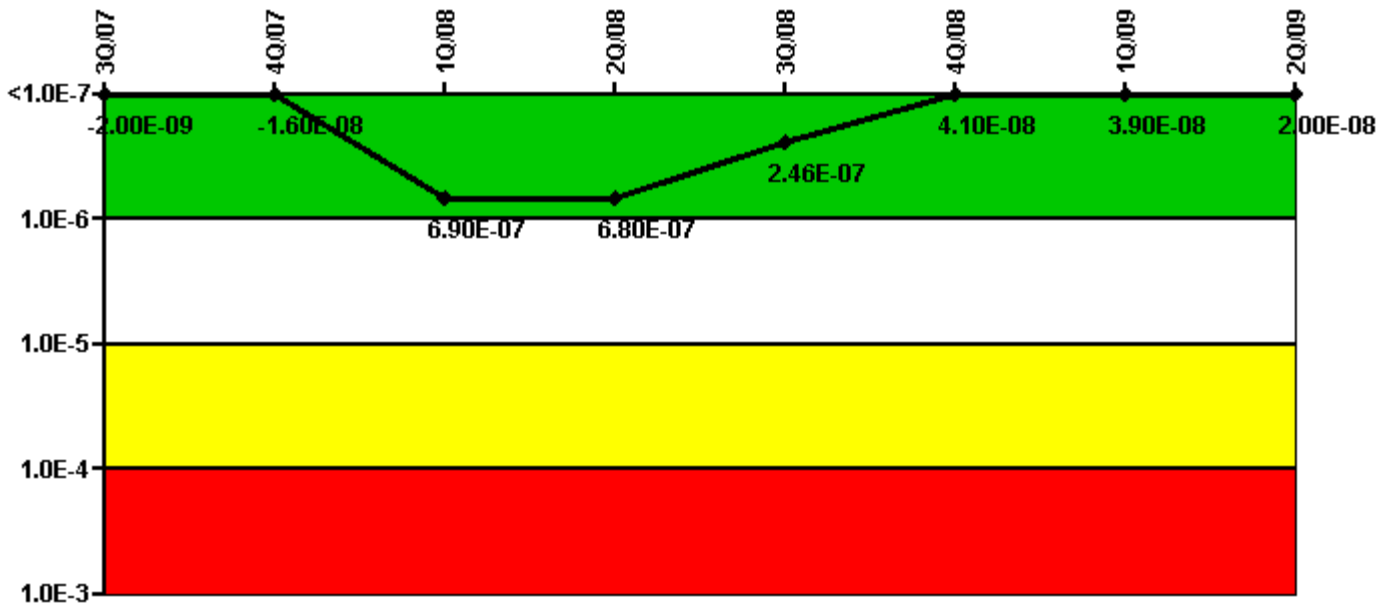
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI ( $\Delta$ CDF)	9.80E-08	9.70E-08	6.00E-08	6.00E-08	2.90E-08	2.50E-08	3.90E-08	2.10E-08
URI ( $\Delta$ CDF)	5.60E-07	5.30E-07	5.40E-07	5.40E-07	3.50E-07	2.90E-07	3.00E-07	2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.58E-07	6.27E-07	6.00E-07	6.00E-07	3.79E-07	3.15E-07	3.39E-07	2.41E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



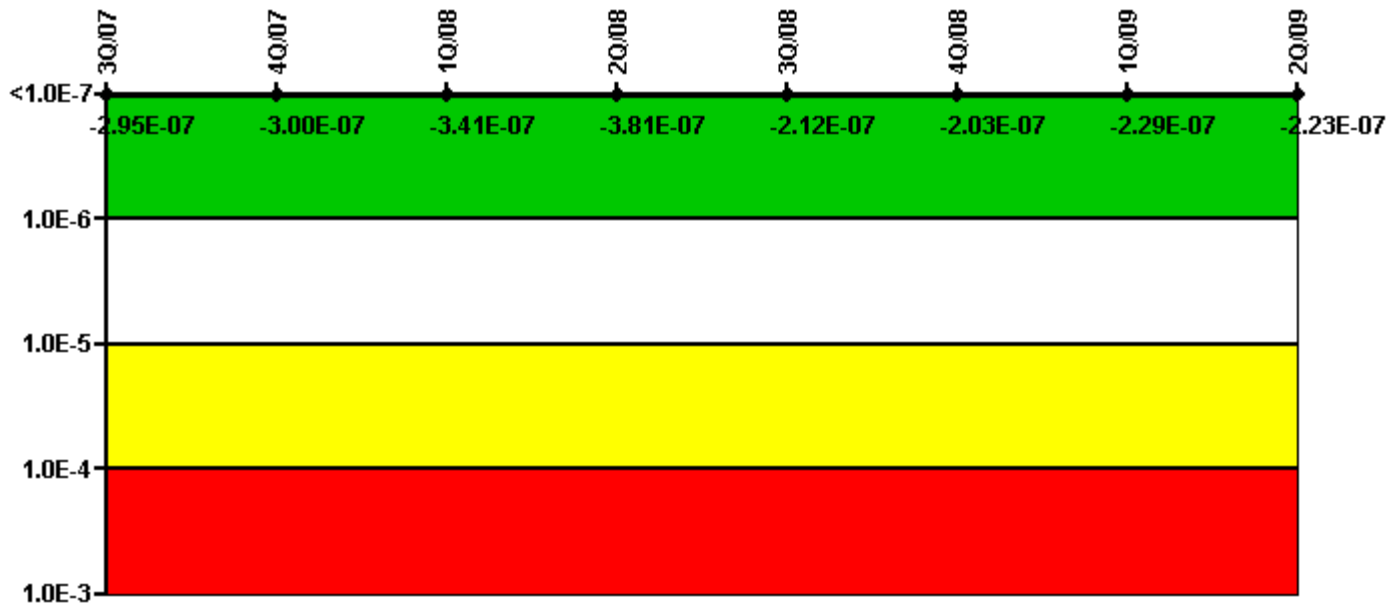
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-2.80E-08	-4.40E-08	4.90E-07	4.90E-07	1.80E-07	9.30E-08	9.10E-08	6.90E-08
URI (ΔCDF)	2.60E-08	2.80E-08	2.00E-07	1.90E-07	6.60E-08	-5.20E-08	-5.20E-08	-4.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-09	-1.60E-08	6.90E-07	6.80E-07	2.46E-07	4.10E-08	3.90E-08	2.00E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



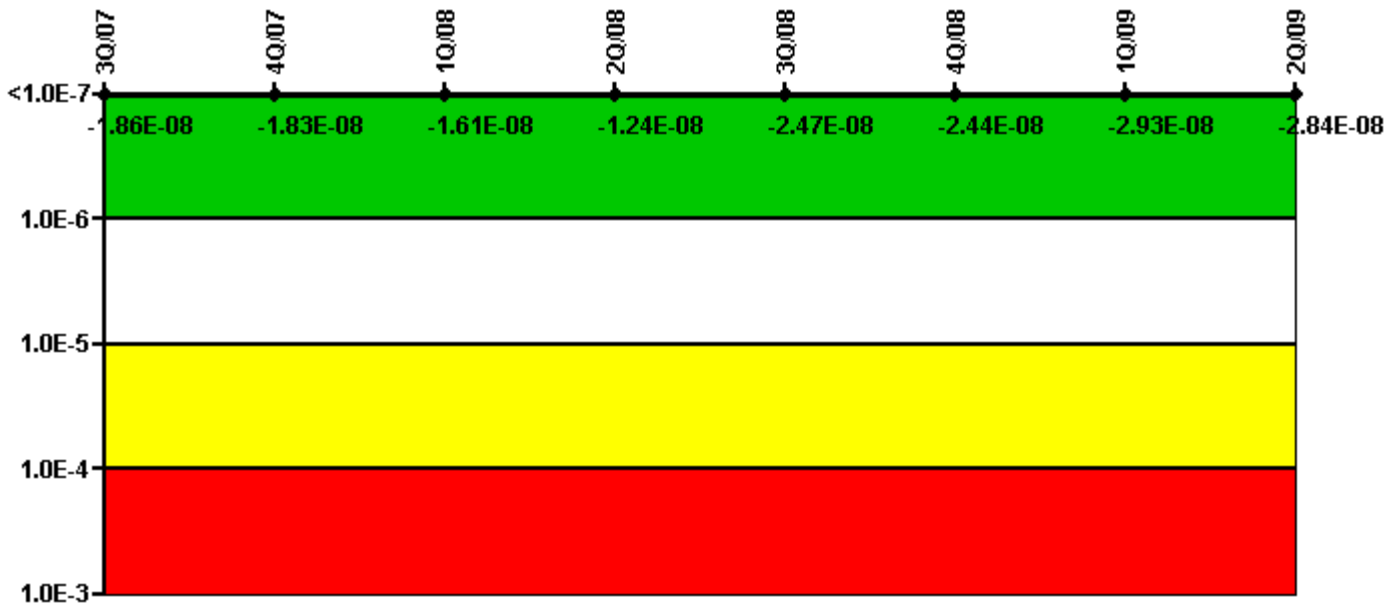
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI ( $\Delta$ CDF)	9.50E-08	9.00E-08	3.90E-08	8.90E-09	-1.70E-09	-2.90E-09	-1.90E-08	-1.30E-08
URI ( $\Delta$ CDF)	-3.90E-07	-3.90E-07	-3.80E-07	-3.90E-07	-2.10E-07	-2.00E-07	-2.10E-07	-2.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.95E-07	-3.00E-07	-3.41E-07	-3.81E-07	-2.12E-07	-2.03E-07	-2.29E-07	-2.23E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



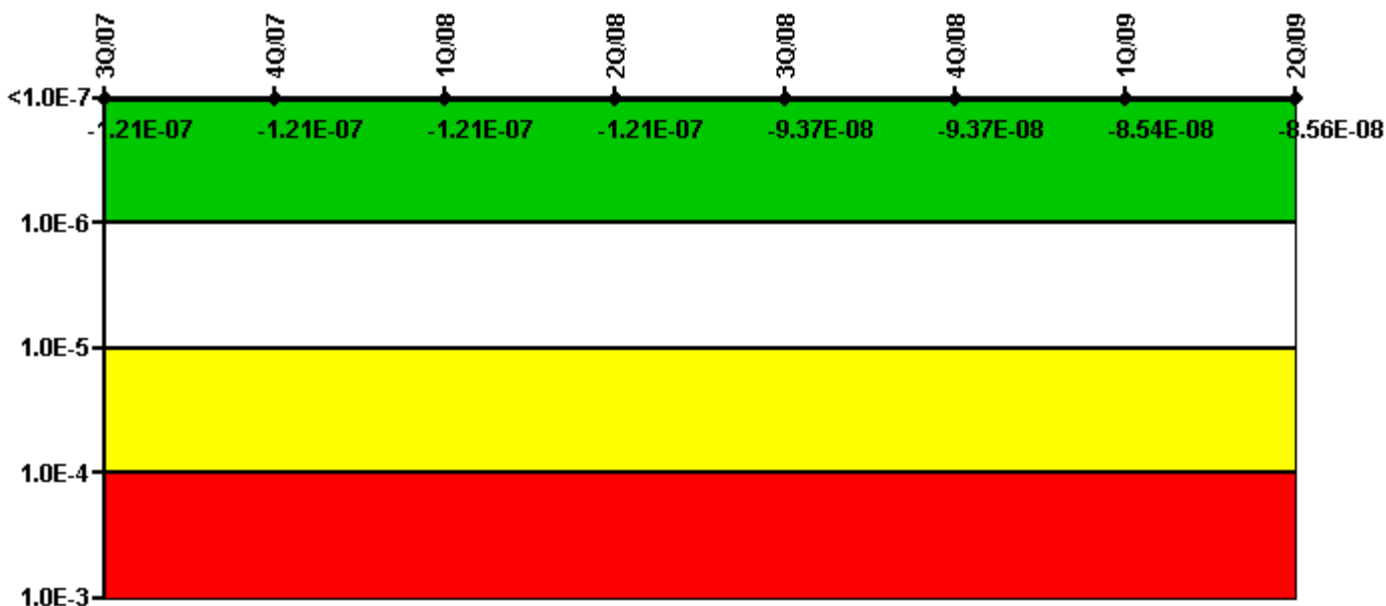
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI ( $\Delta$ CDF)	-7.60E-09	-7.30E-09	-5.10E-09	-1.40E-09	-7.10E-10	-4.40E-10	-5.30E-09	-5.40E-09
URI ( $\Delta$ CDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.86E-08	-1.83E-08	-1.61E-08	-1.24E-08	-2.47E-08	-2.44E-08	-2.93E-08	-2.84E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



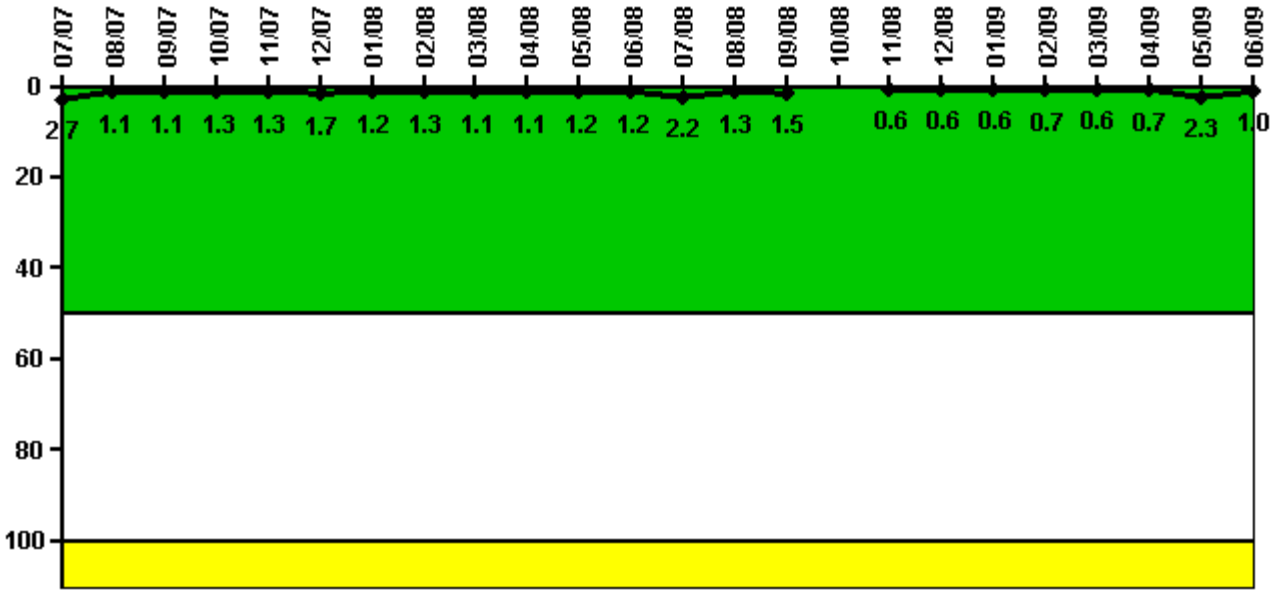
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI ( $\Delta$ CDF)	-1.40E-09	-1.40E-09	-1.40E-09	-1.40E-09	-1.70E-09	-1.70E-09	6.60E-09	6.40E-09
URI ( $\Delta$ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.21E-07	-1.21E-07	-1.21E-07	-1.21E-07	-9.37E-08	-9.37E-08	-8.54E-08	-8.56E-08

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.005360	0.002100	0.002170	0.002670	0.002510	0.003380	0.002370	0.002660	0.002120	0.002210	0.002420	0.002430
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	2.7	1.1	1.1	1.3	1.3	1.7	1.2	1.3	1.1	1.1	1.2	1.2

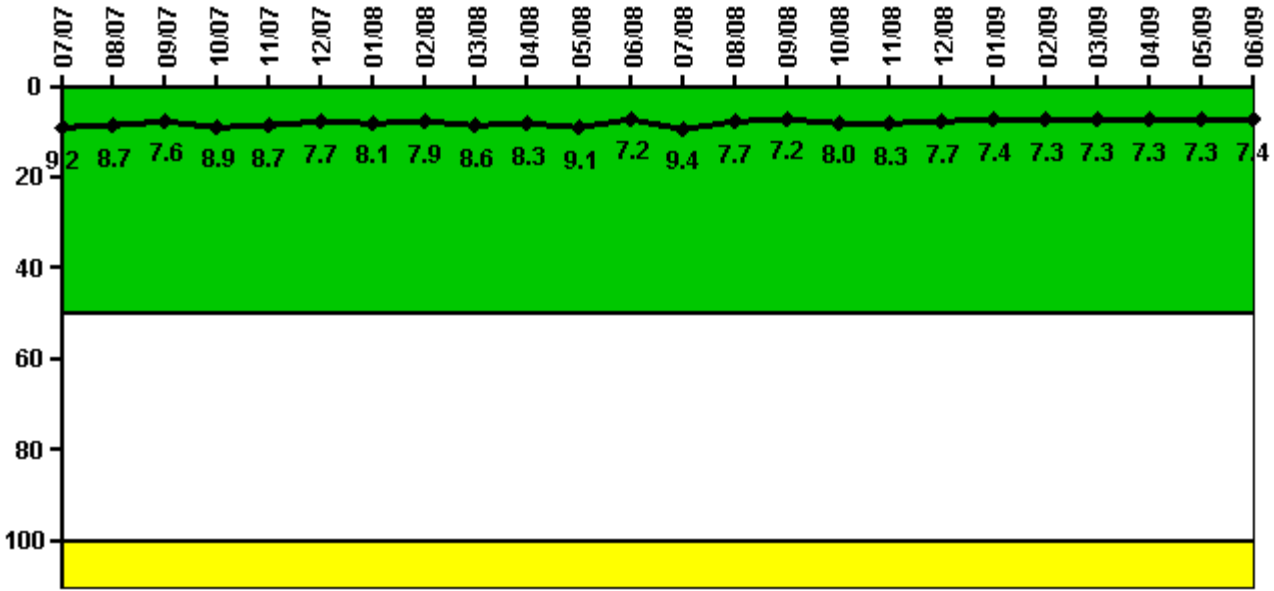
  

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.004370	0.002590	0.003030	N/A	0.001140	0.001250	0.001130	0.001420	0.001160	0.001480	0.004630	0.001950
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	2.2	1.3	1.5	N/A	0.6	0.6	0.6	0.7	0.6	0.7	2.3	1.0

Licensee Comments: none



## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

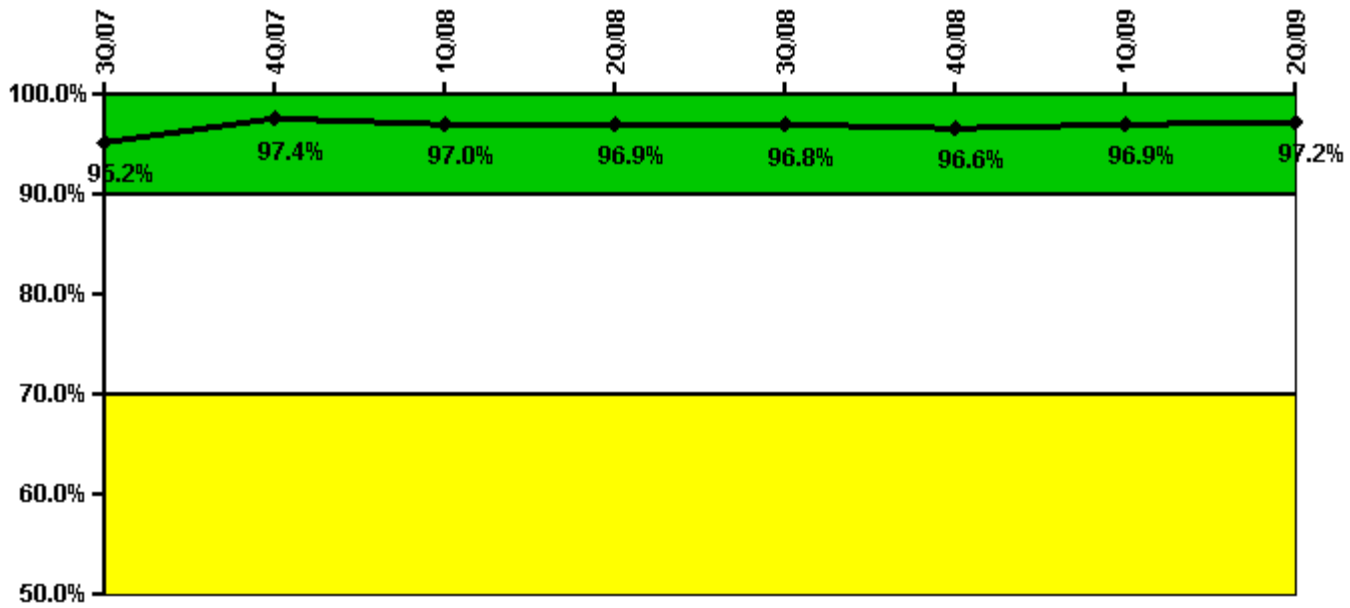
Reactor Coolant System Leakage	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum leakage	2.770	2.600	2.280	2.680	2.620	2.300	2.420	2.380	2.570	2.480	2.730	2.170
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.2	8.7	7.6	8.9	8.7	7.7	8.1	7.9	8.6	8.3	9.1	7.2

Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	2.810	2.320	2.170	2.400	2.480	2.320	2.220	2.180	2.190	2.190	2.190	2.220
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.4	7.7	7.2	8.0	8.3	7.7	7.4	7.3	7.3	7.3	7.3	7.4

Licensee Comments: none

## Drill/Exercise Performance



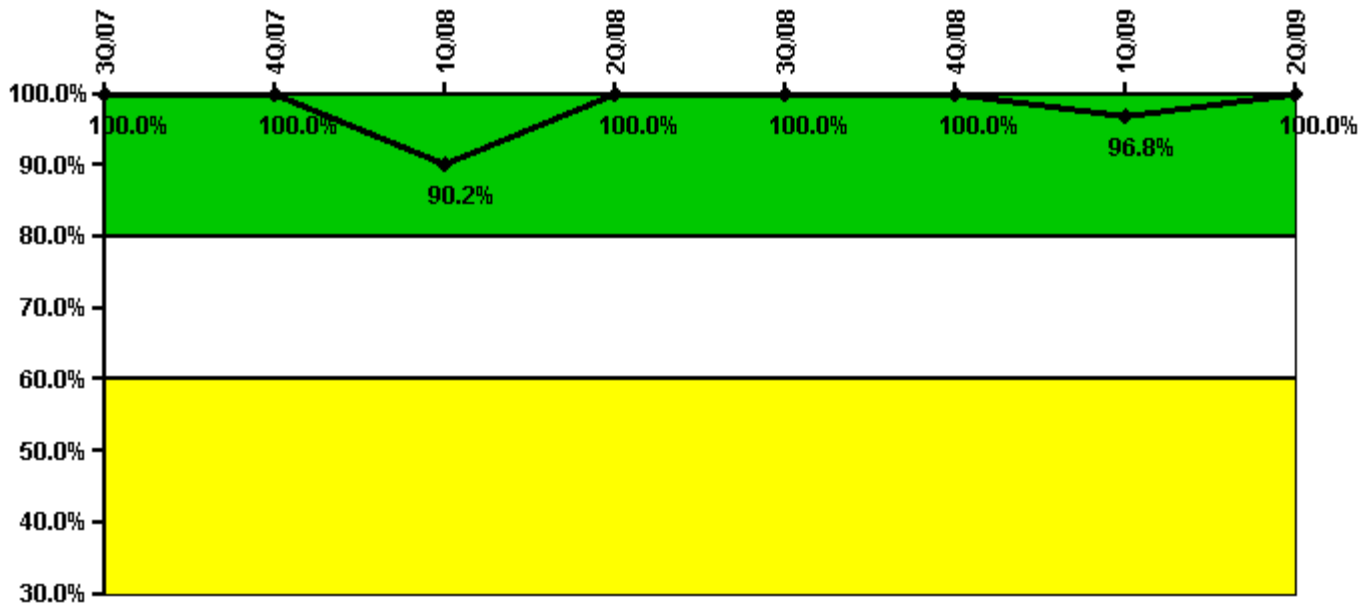
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	24.0	77.0	20.0	55.0	10.0	1.0	2.0	18.0
Total opportunities	24.0	78.0	22.0	57.0	10.0	2.0	2.0	18.0
<b>Indicator value</b>	<b>95.2%</b>	<b>97.4%</b>	<b>97.0%</b>	<b>96.9%</b>	<b>96.8%</b>	<b>96.6%</b>	<b>96.9%</b>	<b>97.2%</b>

Licensee Comments: none

## ERO Drill Participation



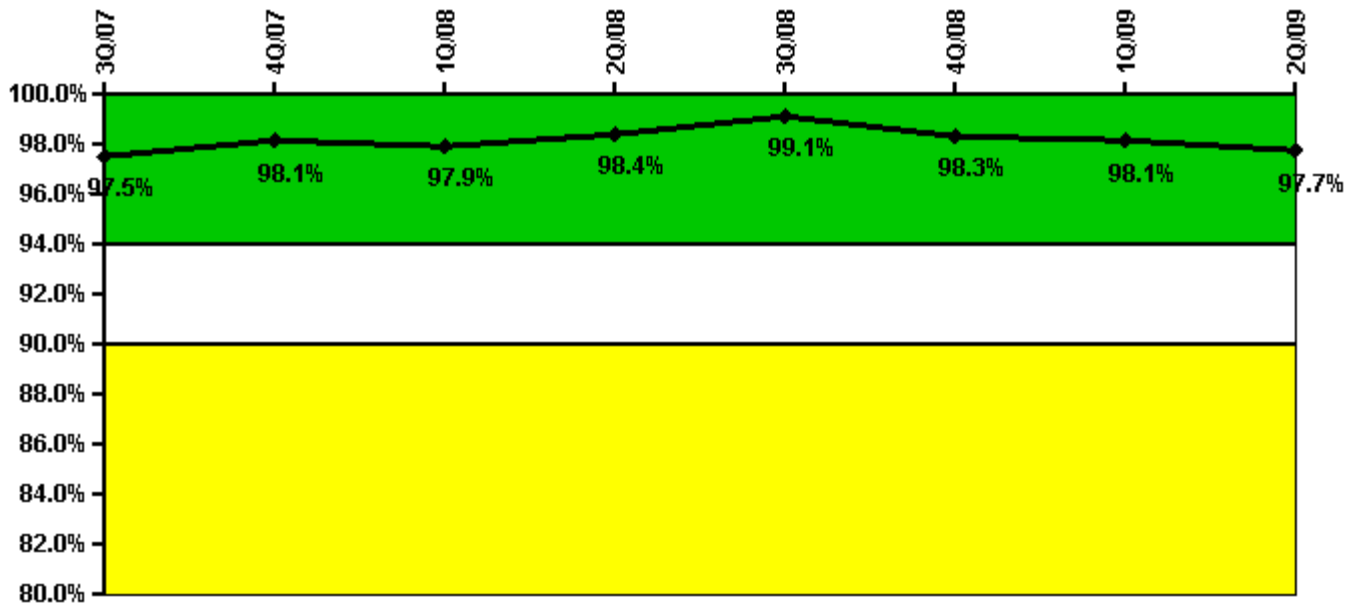
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	90.0	83.0	74.0	80.0	84.0	81.0	61.0	61.0
Total Key personnel	90.0	83.0	82.0	80.0	84.0	81.0	63.0	61.0
Indicator value	100.0%	100.0%	90.2%	100.0%	100.0%	100.0%	96.8%	100.0%

Licensee Comments: none

## Alert & Notification System



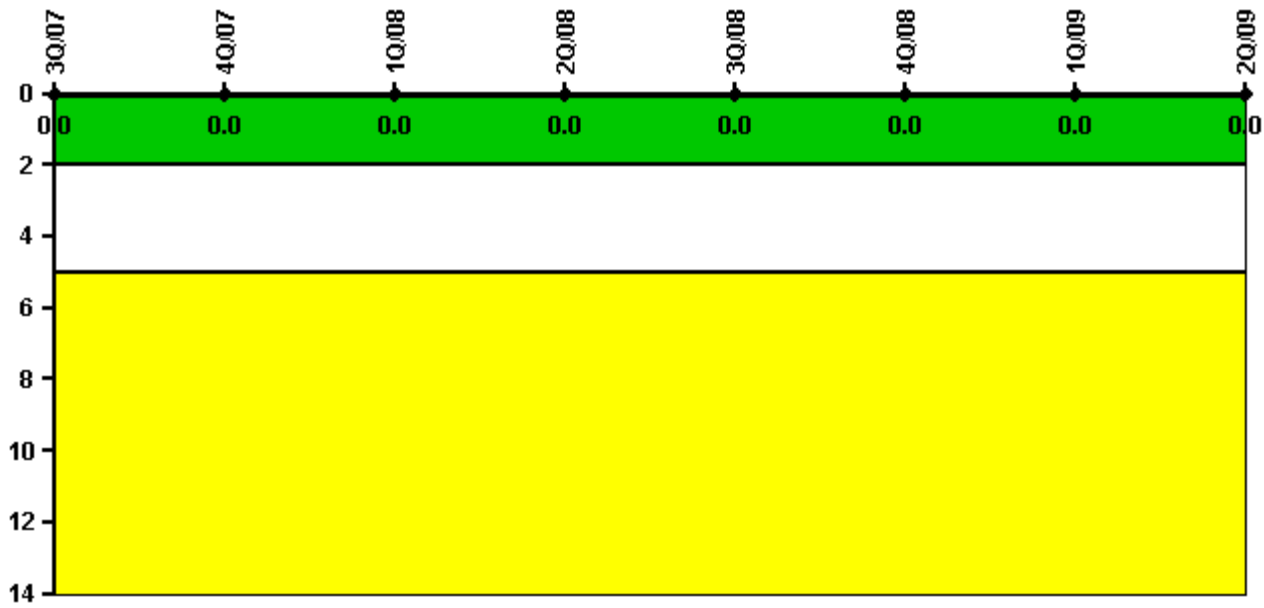
Thresholds: White < 94.0% Yellow < 90.0%

### Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	123	129	127	125	82	125	126	127
Total sirens-tests	129	129	129	125	84	129	129	129
<b>Indicator value</b>	<b>97.5%</b>	<b>98.1%</b>	<b>97.9%</b>	<b>98.4%</b>	<b>99.1%</b>	<b>98.3%</b>	<b>98.1%</b>	<b>97.7%</b>

Licensee Comments: none

## Occupational Exposure Control Effectiveness



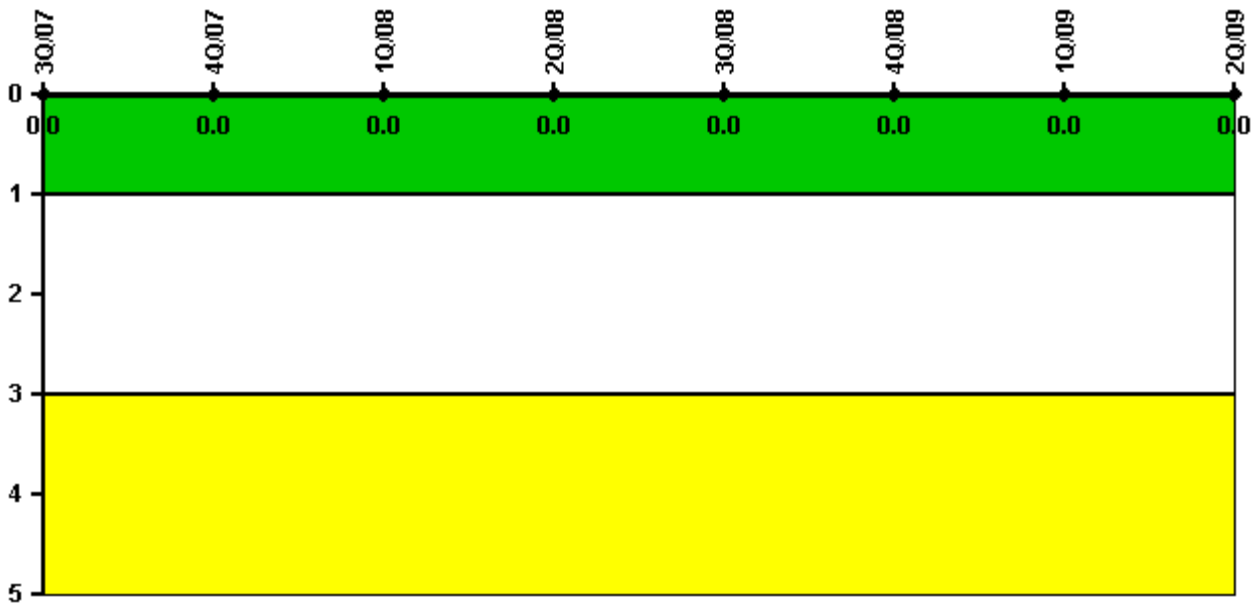
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/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

## RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

### Notes

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

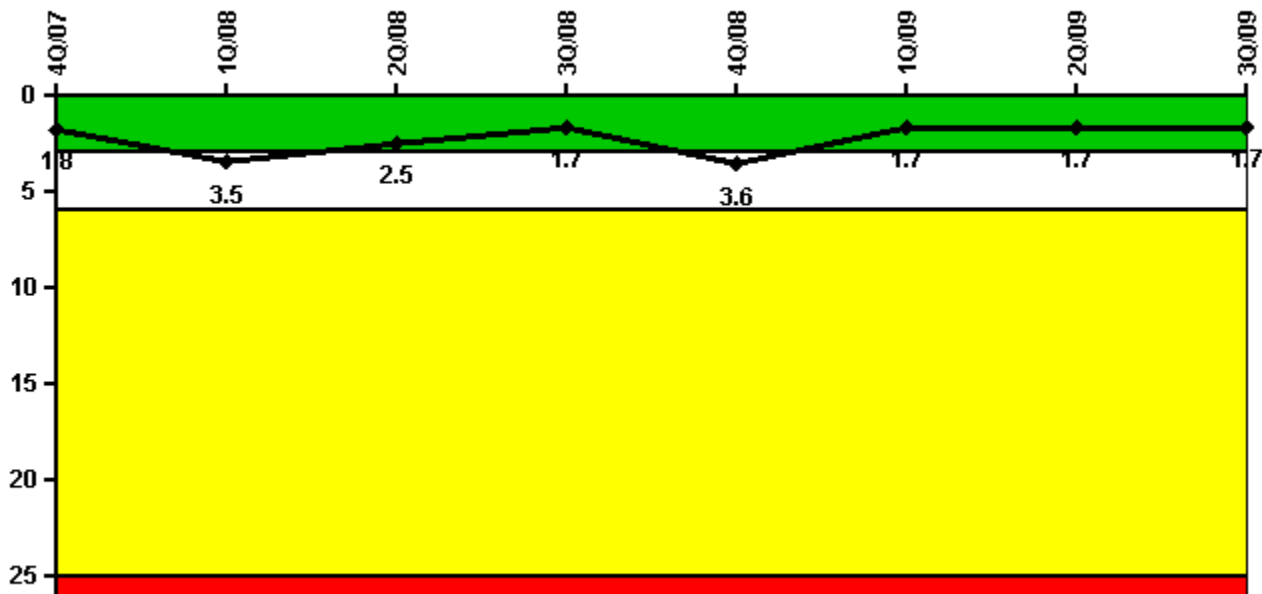
[Security](#) information not publicly available.

# Grand Gulf 1

## 3Q/2009 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



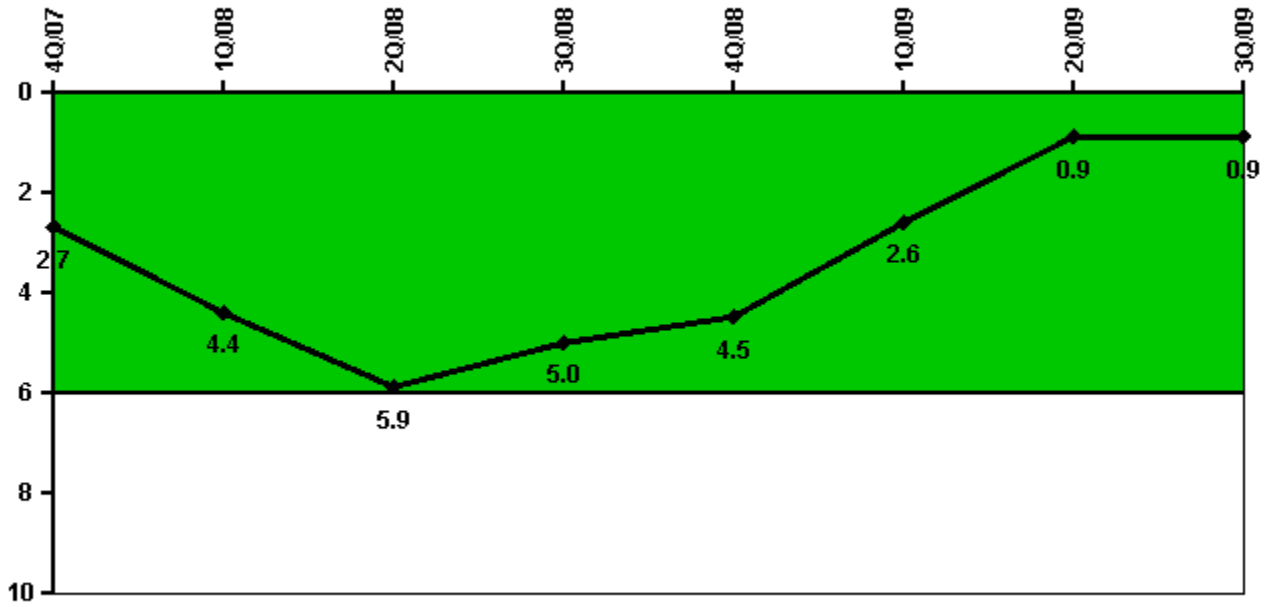
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	2.0	0	0	2.0	0	0	0
Critical hours	2209.0	2020.5	2184.0	1988.0	1671.7	2159.0	2184.0	2208.0
Indicator value	1.8	3.5	2.5	1.7	3.6	1.7	1.7	1.7

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

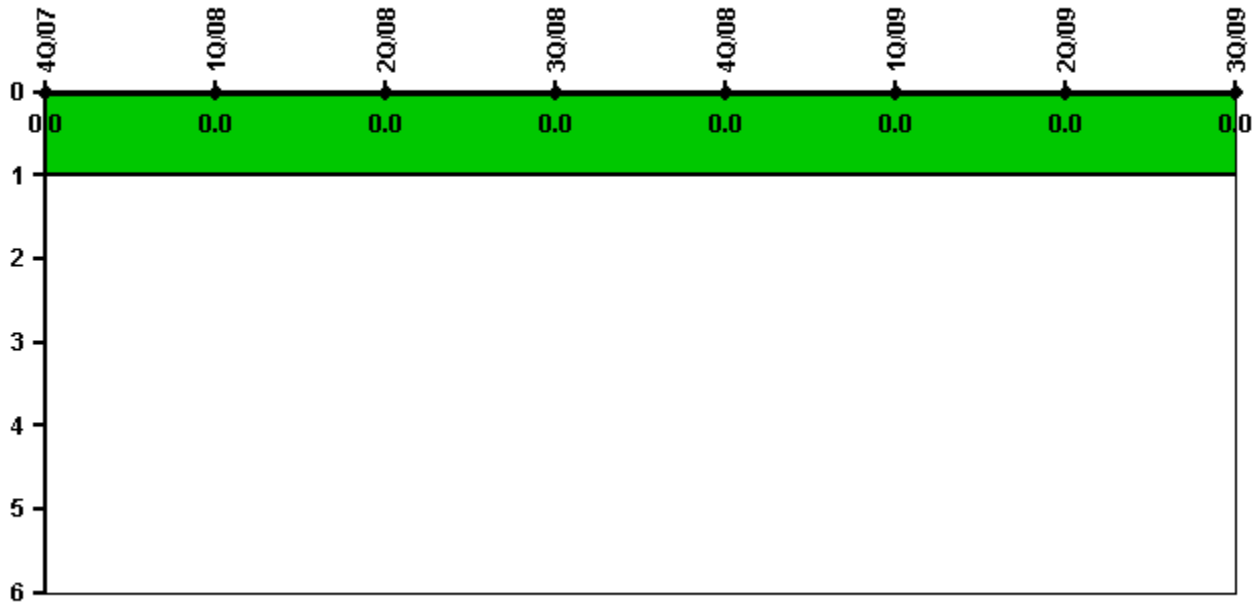
### Notes

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	2.0	2.0	2.0	0	1.0	0	0	0
Critical hours	2209.0	2020.5	2184.0	1988.0	1671.7	2159.0	2184.0	2208.0
Indicator value	2.7	4.4	5.9	5.0	4.5	2.6	0.9	0.9

Licensee Comments: none



## Unplanned Scrams with Complications



Thresholds: White > 1.0

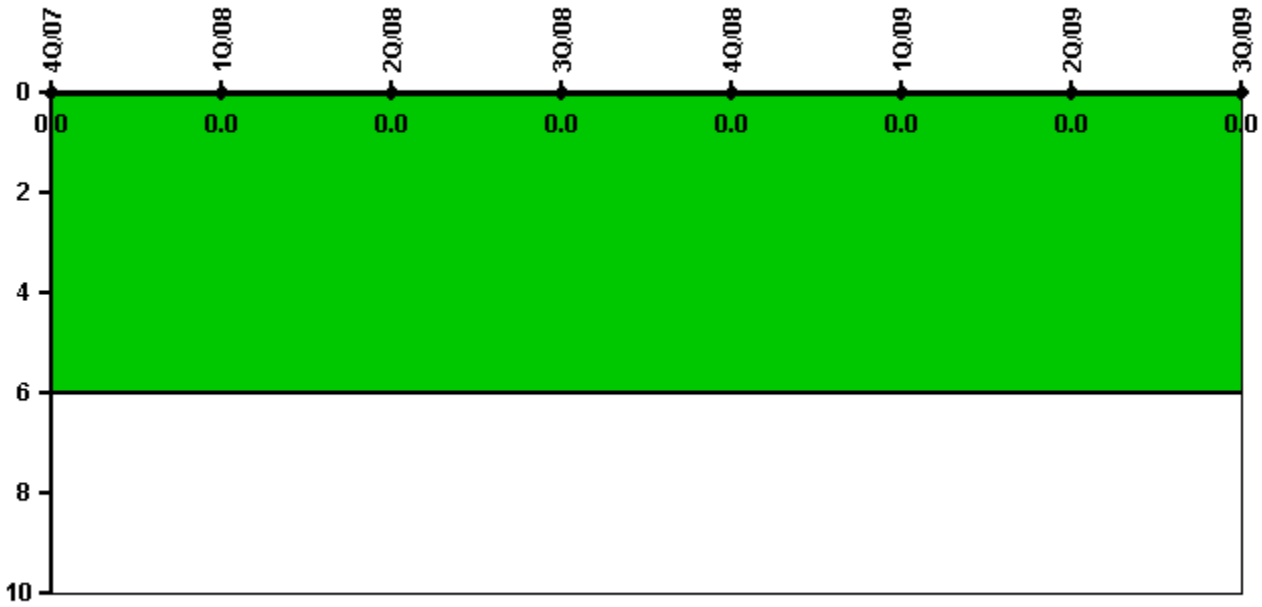
### Notes

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

Licensee Comments: none

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## Safety System Functional Failures (BWR)



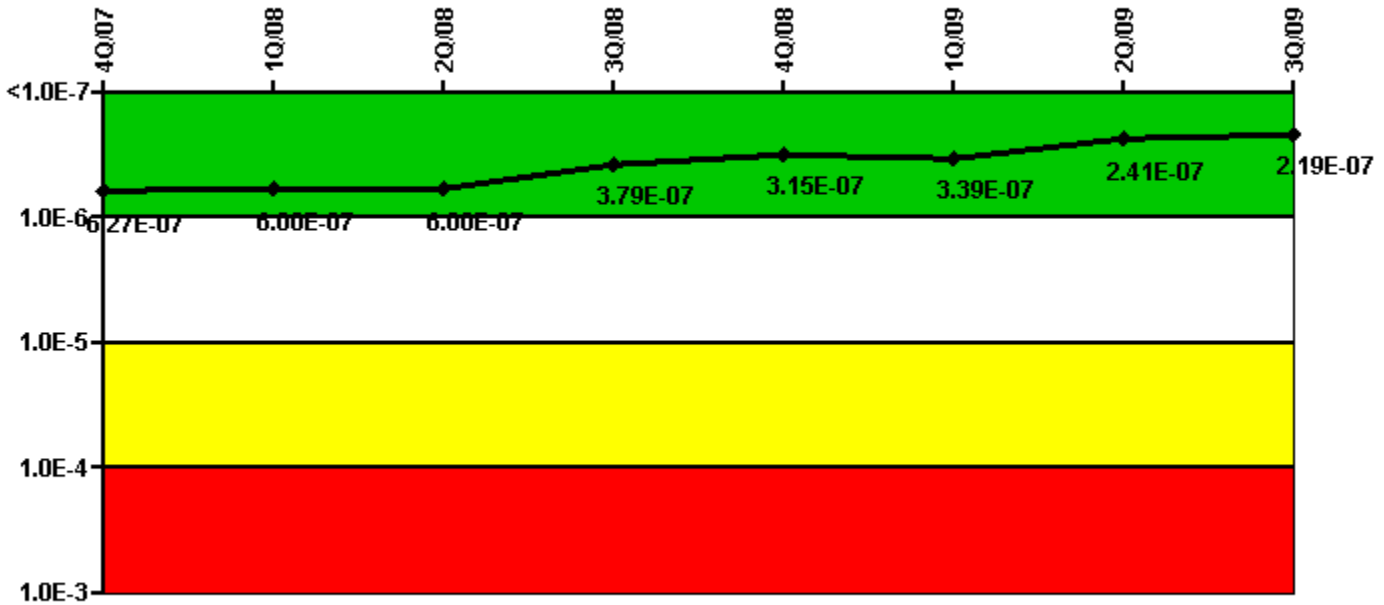
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
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



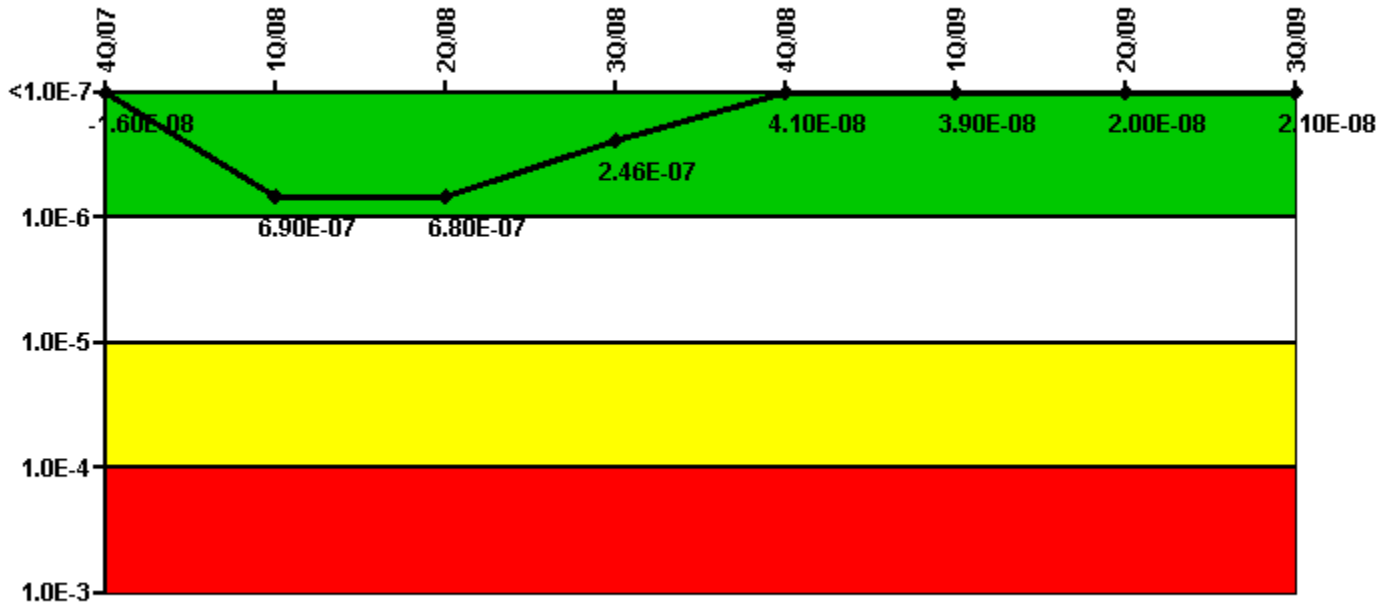
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	9.70E-08	6.00E-08	6.00E-08	2.90E-08	2.50E-08	3.90E-08	2.10E-08	1.90E-08
URI (ΔCDF)	5.30E-07	5.40E-07	5.40E-07	3.50E-07	2.90E-07	3.00E-07	2.20E-07	2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.27E-07	6.00E-07	6.00E-07	3.79E-07	3.15E-07	3.39E-07	2.41E-07	2.19E-07

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



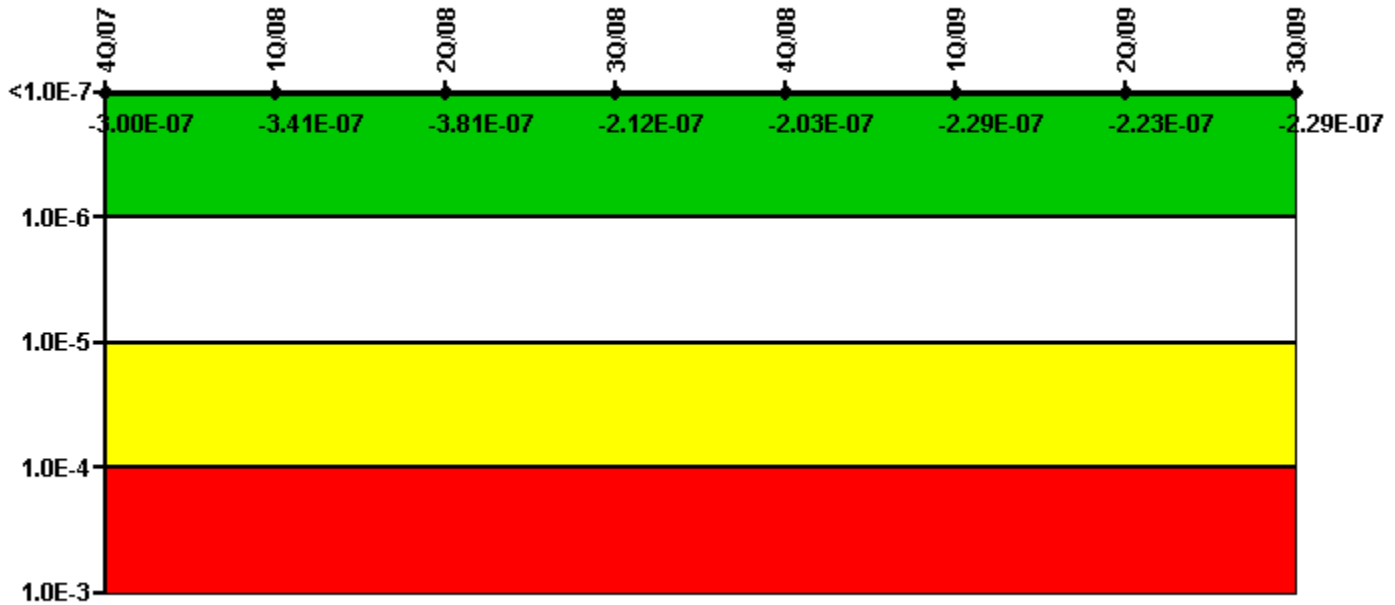
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	-4.40E-08	4.90E-07	4.90E-07	1.80E-07	9.30E-08	9.10E-08	6.90E-08	6.70E-08
URI (ΔCDF)	2.80E-08	2.00E-07	1.90E-07	6.60E-08	-5.20E-08	-5.20E-08	-4.90E-08	-4.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	6.90E-07	6.80E-07	2.46E-07	4.10E-08	3.90E-08	2.00E-08	2.10E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



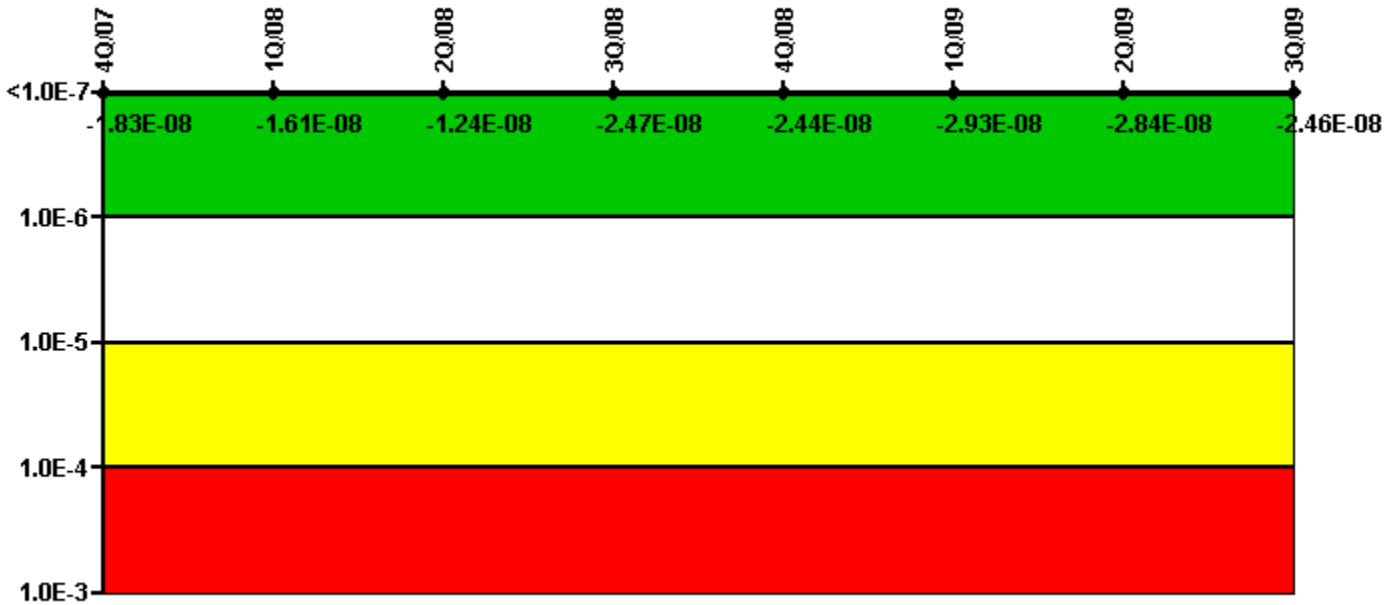
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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)	9.00E-08	3.90E-08	8.90E-09	-1.70E-09	-2.90E-09	-1.90E-08	-1.30E-08	-1.90E-08
URI ( $\Delta$ CDF)	-3.90E-07	-3.80E-07	-3.90E-07	-2.10E-07	-2.00E-07	-2.10E-07	-2.10E-07	-2.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-07	-3.41E-07	-3.81E-07	-2.12E-07	-2.03E-07	-2.29E-07	-2.23E-07	-2.29E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



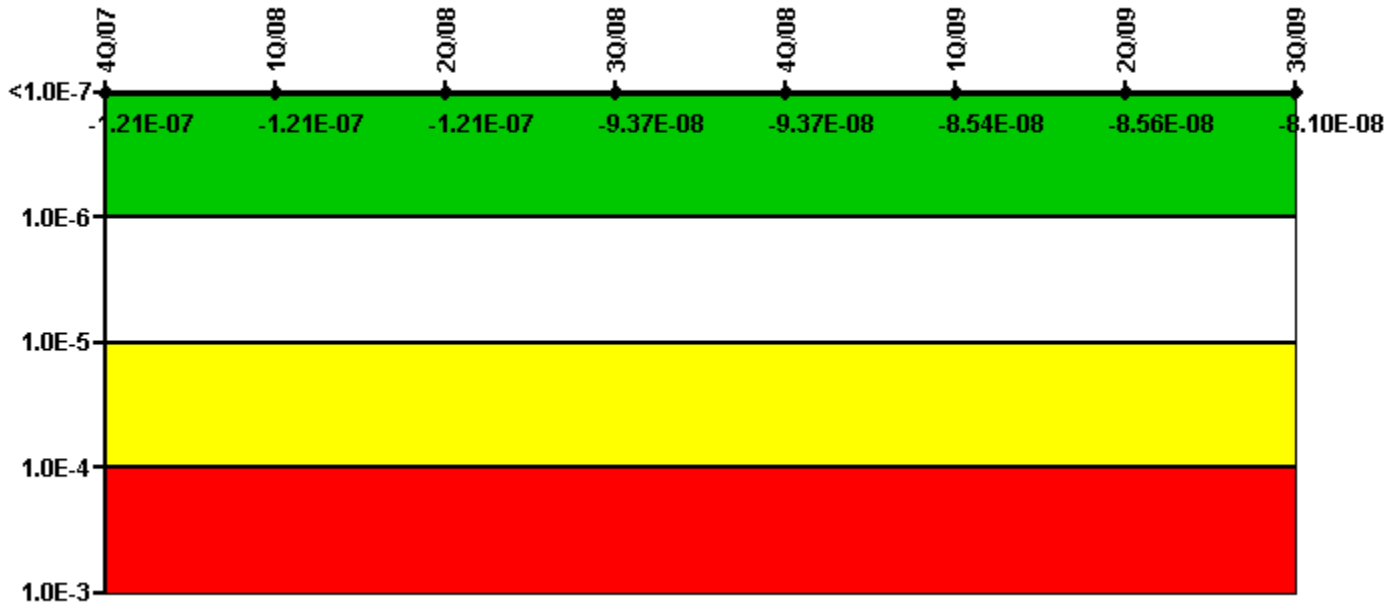
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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)	-7.30E-09	-5.10E-09	-1.40E-09	-7.10E-10	-4.40E-10	-5.30E-09	-5.40E-09	-1.60E-09
URI ( $\Delta$ CDF)	-1.10E-08	-1.10E-08	-1.10E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.83E-08	-1.61E-08	-1.24E-08	-2.47E-08	-2.44E-08	-2.93E-08	-2.84E-08	-2.46E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



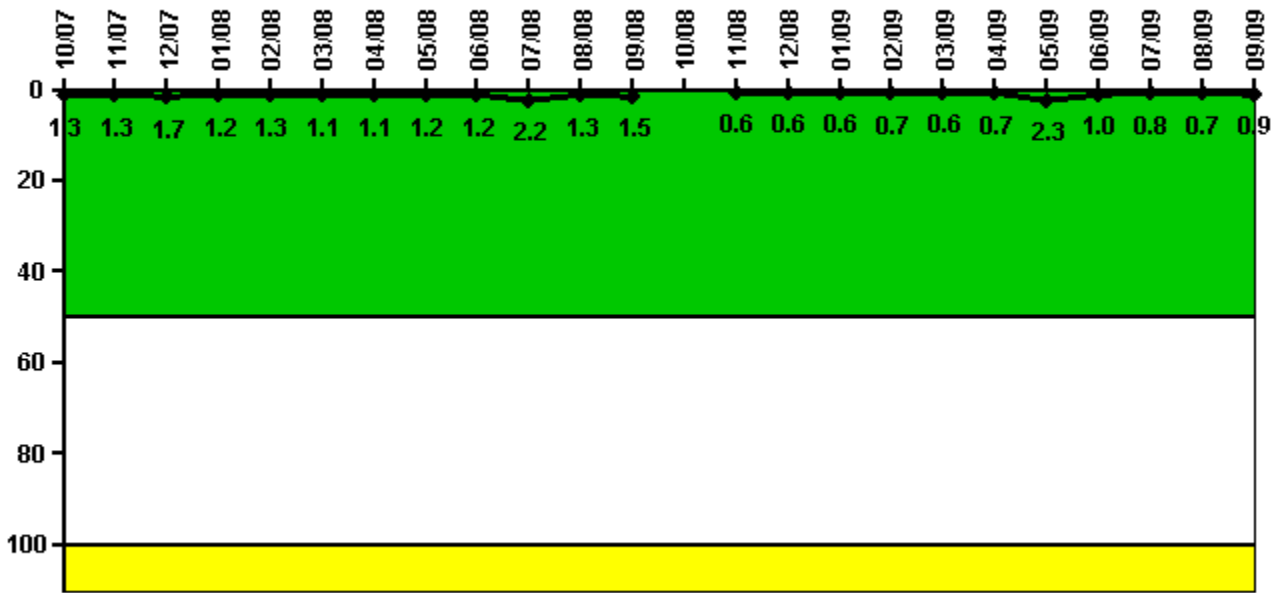
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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)	-1.40E-09	-1.40E-09	-1.40E-09	-1.70E-09	-1.70E-09	6.60E-09	6.40E-09	1.00E-08
URI ( $\Delta$ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.21E-07	-1.21E-07	-1.21E-07	-9.37E-08	-9.37E-08	-8.54E-08	-8.56E-08	-8.10E-08

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

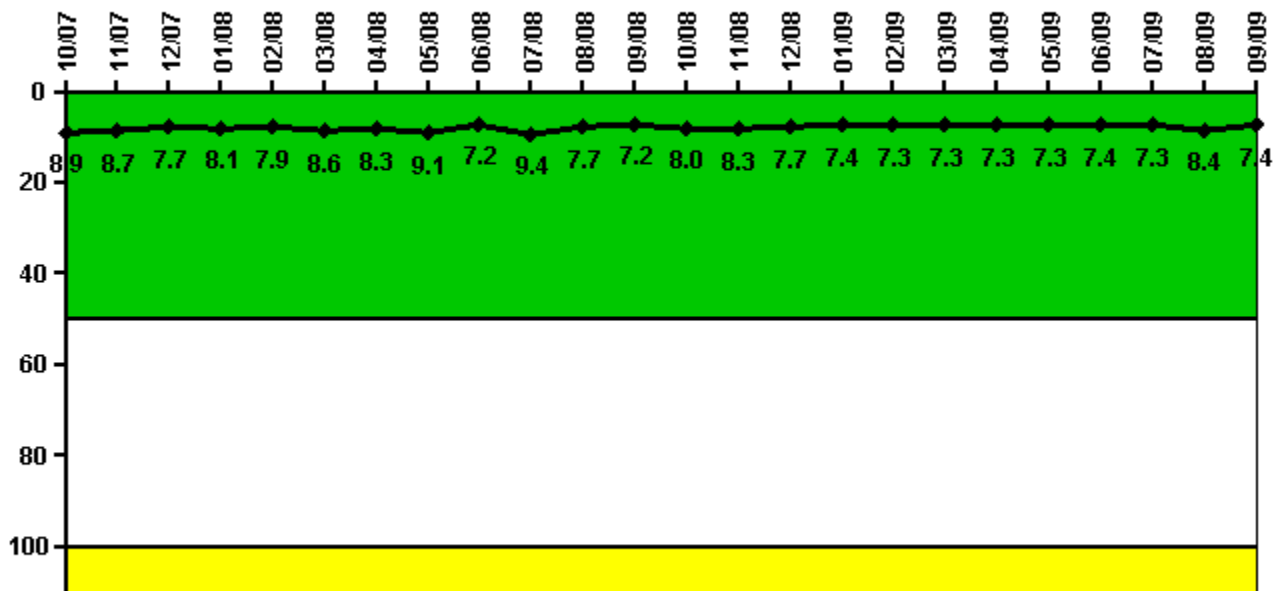
## Notes

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	0.002670	0.002510	0.003380	0.002370	0.002660	0.002120	0.002210	0.002420	0.002430	0.004370	0.002590	0.003030
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	1.3	1.3	1.7	1.2	1.3	1.1	1.1	1.2	1.2	2.2	1.3	1.5
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	N/A	0.001140	0.001250	0.001130	0.001420	0.001160	0.001480	0.004630	0.001950	0.001580	0.001400	0.001700
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	N/A	0.6	0.6	0.6	0.7	0.6	0.7	2.3	1.0	0.8	0.7	0.9

Licensee Comments: none



# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

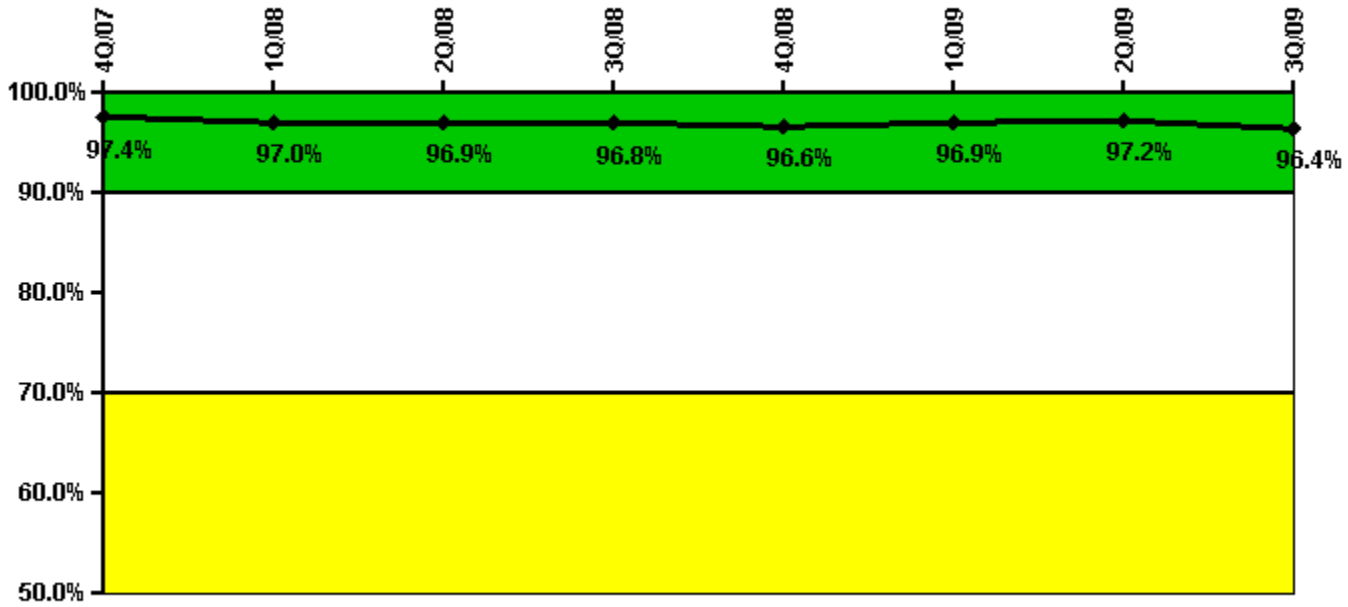
Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	2.680	2.620	2.300	2.420	2.380	2.570	2.480	2.730	2.170	2.810	2.320	2.170
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.9	8.7	7.7	8.1	7.9	8.6	8.3	9.1	7.2	9.4	7.7	7.2

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	2.400	2.480	2.320	2.220	2.180	2.190	2.190	2.190	2.220	2.200	2.520	2.210
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.0	8.3	7.7	7.4	7.3	7.3	7.3	7.3	7.4	7.3	8.4	7.4

Licensee Comments: none

## Drill/Exercise Performance



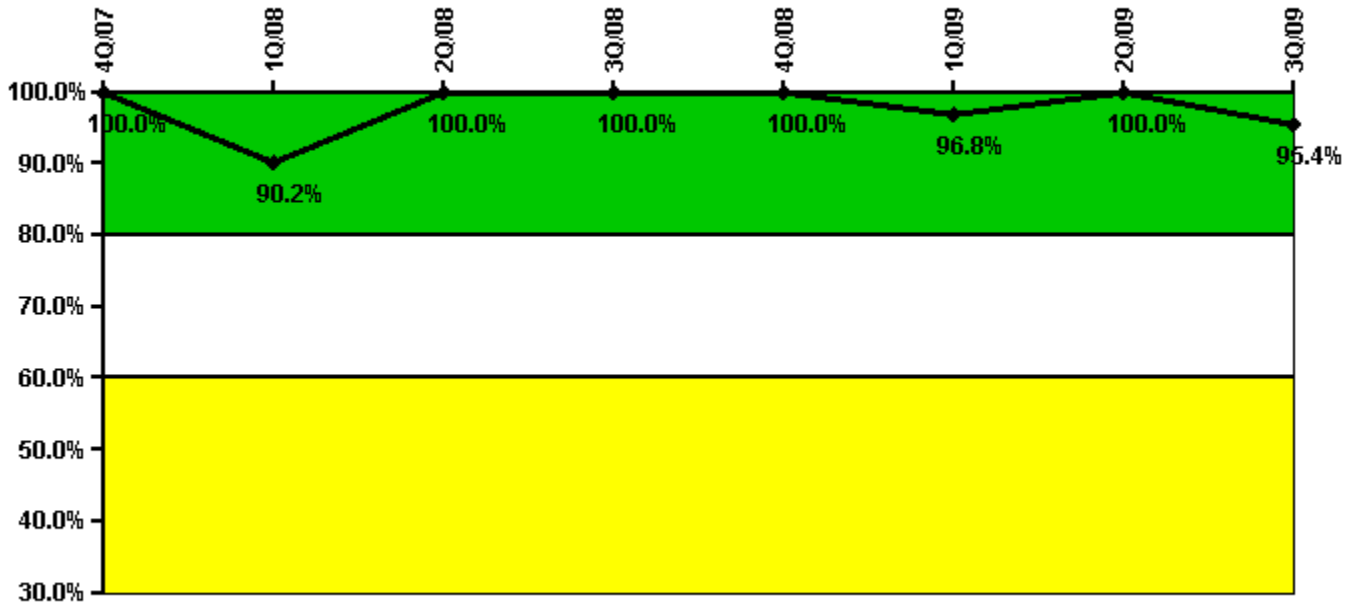
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	77.0	20.0	55.0	10.0	1.0	2.0	18.0	32.0
Total opportunities	78.0	22.0	57.0	10.0	2.0	2.0	18.0	34.0
<b>Indicator value</b>	<b>97.4%</b>	<b>97.0%</b>	<b>96.9%</b>	<b>96.8%</b>	<b>96.6%</b>	<b>96.9%</b>	<b>97.2%</b>	<b>96.4%</b>

Licensee Comments: none

## ERO Drill Participation



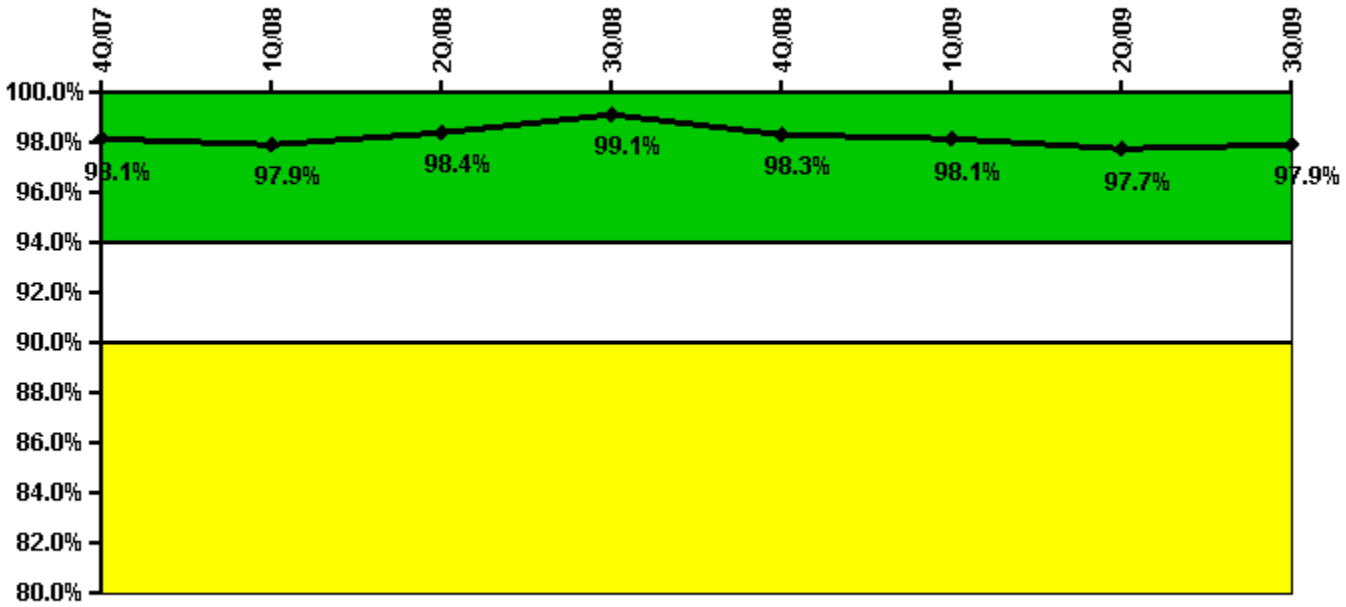
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	83.0	74.0	80.0	84.0	81.0	61.0	61.0	62.0
Total Key personnel	83.0	82.0	80.0	84.0	81.0	63.0	61.0	65.0
<b>Indicator value</b>	<b>100.0%</b>	<b>90.2%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>96.8%</b>	<b>100.0%</b>	<b>95.4%</b>

Licensee Comments: none

# Alert & Notification System



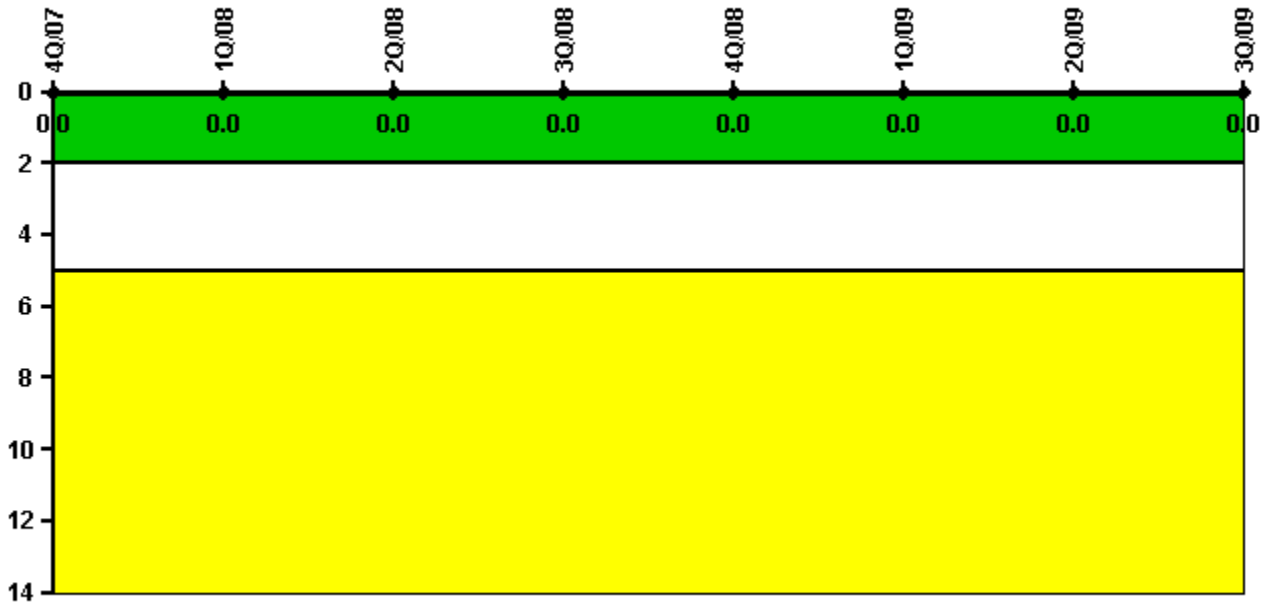
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	129	127	125	82	125	126	127	127
Total sirens-tests	129	129	125	84	129	129	129	129
<b>Indicator value</b>	<b>98.1%</b>	<b>97.9%</b>	<b>98.4%</b>	<b>99.1%</b>	<b>98.3%</b>	<b>98.1%</b>	<b>97.7%</b>	<b>97.9%</b>

Licensee Comments: none

## Occupational Exposure Control Effectiveness



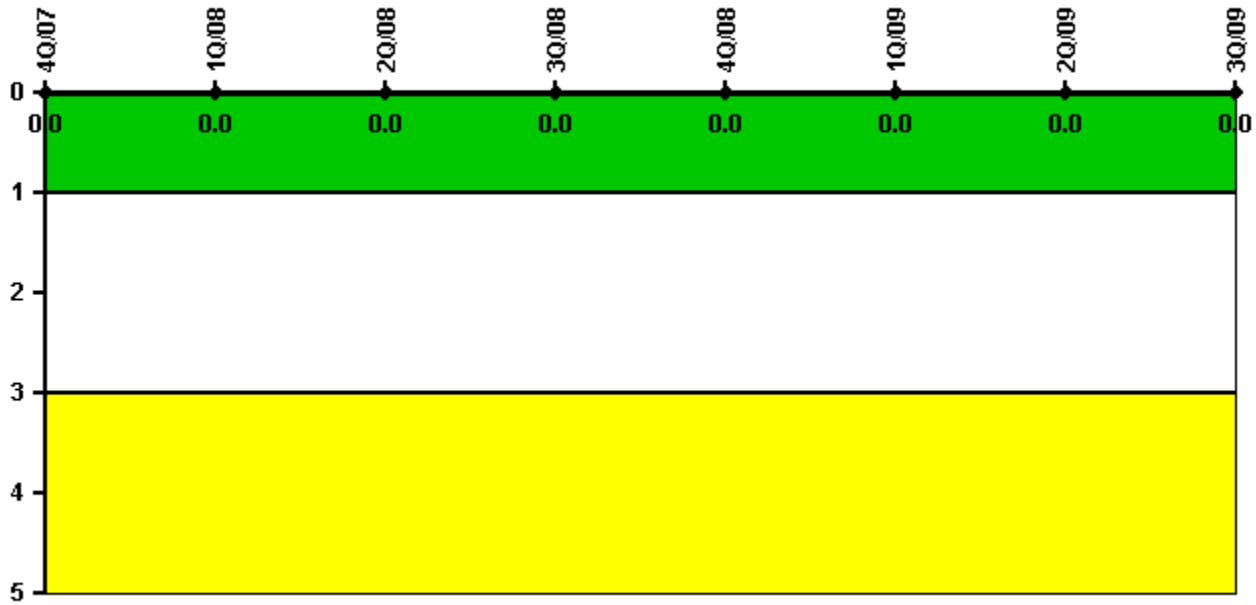
Thresholds: White > 2.0 Yellow > 5.0

### 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	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	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

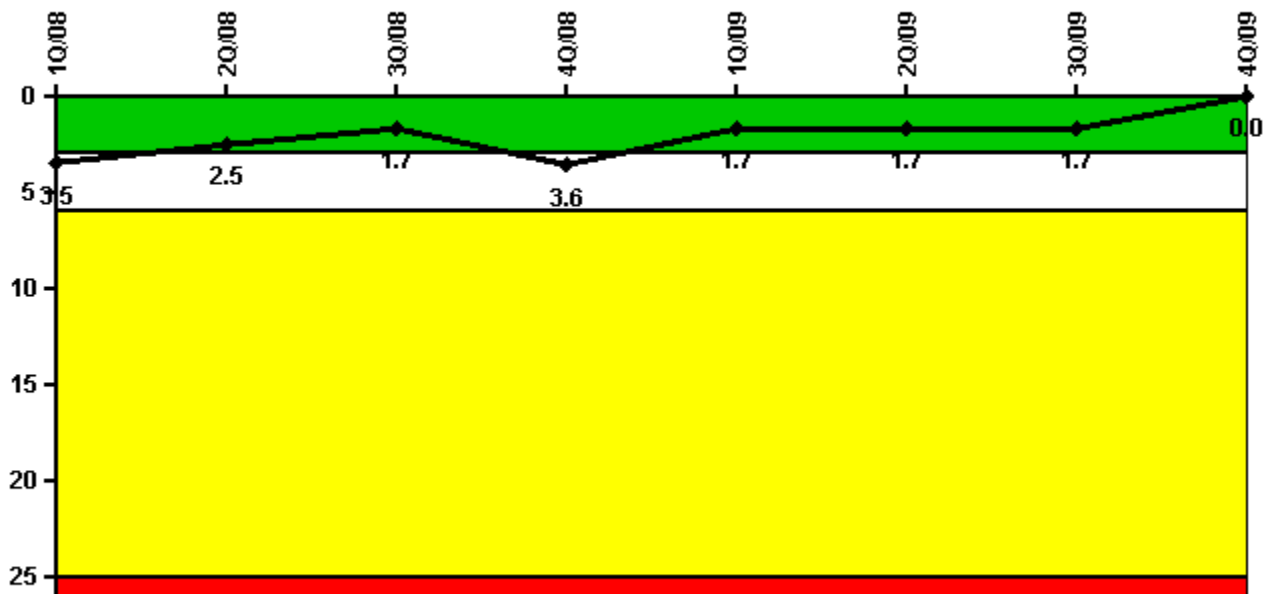
[Security](#) information not publicly available.

# Grand Gulf 1

## 4Q/2009 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



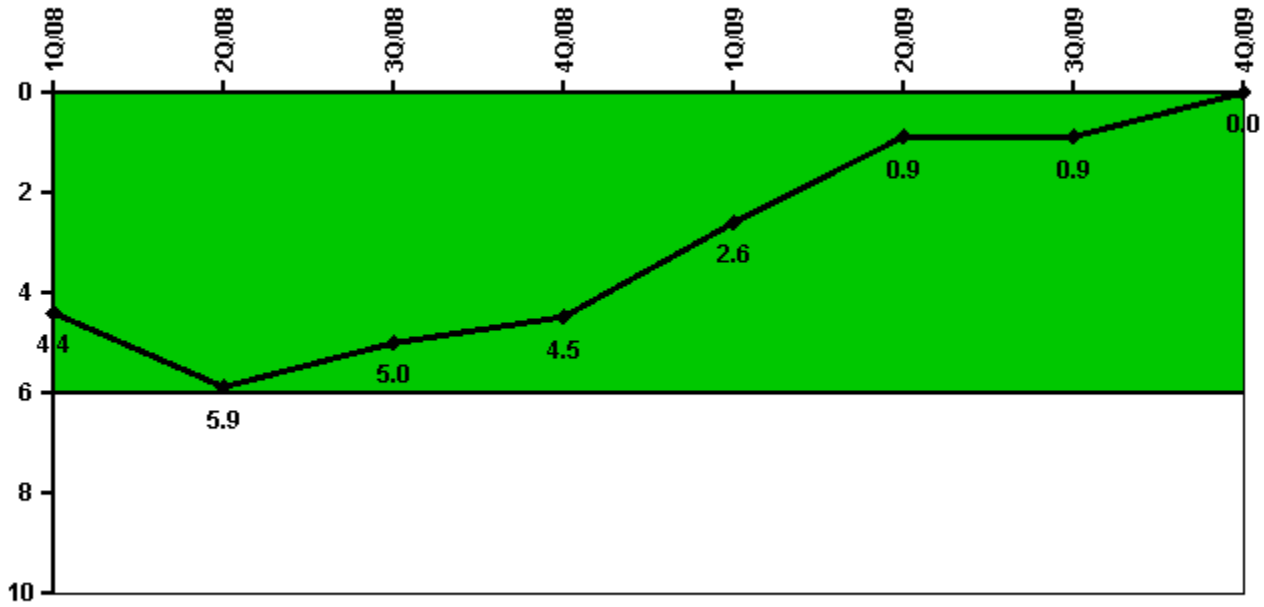
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	2.0	0	0	2.0	0	0	0	0
Critical hours	2020.5	2184.0	1988.0	1671.7	2159.0	2184.0	2208.0	2209.0
Indicator value	3.5	2.5	1.7	3.6	1.7	1.7	1.7	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

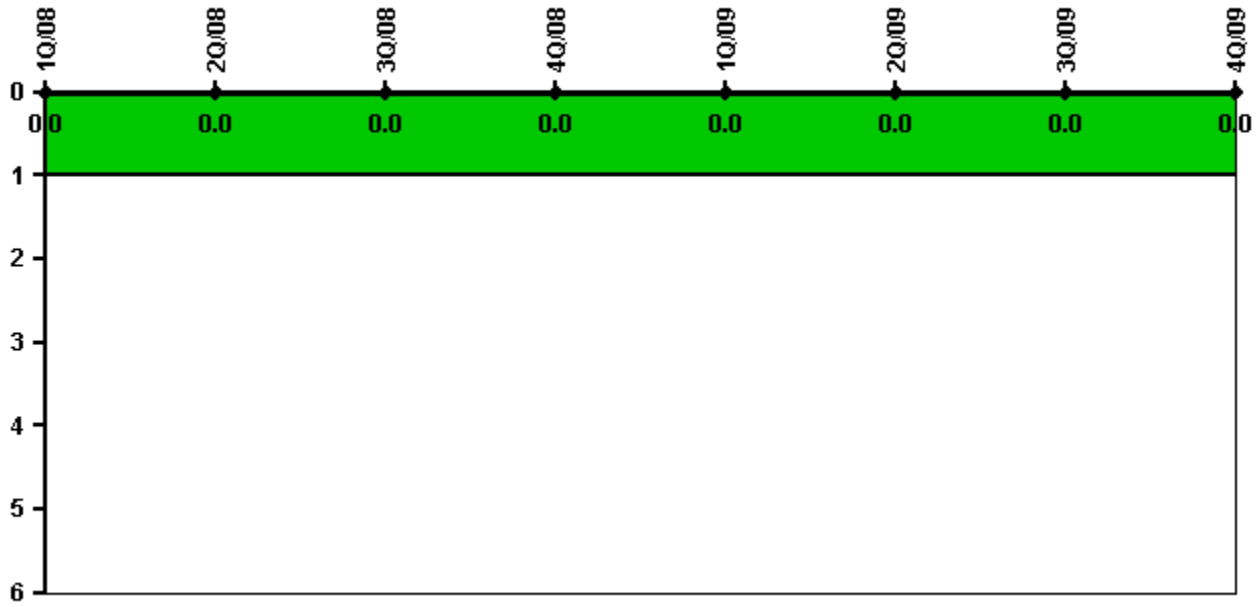
### Notes

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	2.0	2.0	0	1.0	0	0	0	0
Critical hours	2020.5	2184.0	1988.0	1671.7	2159.0	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>4.4</b>	<b>5.9</b>	<b>5.0</b>	<b>4.5</b>	<b>2.6</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>

Licensee Comments: none



# Unplanned Scrams with Complications



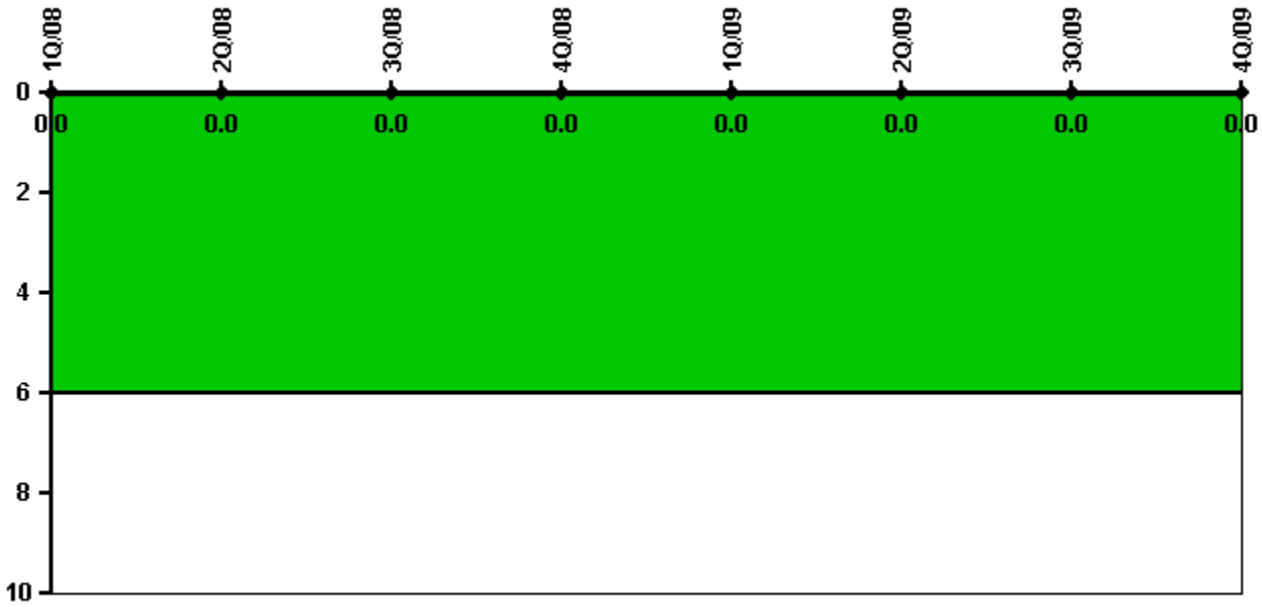
Thresholds: White > 1.0

## 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
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

## Safety System Functional Failures (BWR)



Thresholds: White > 6.0

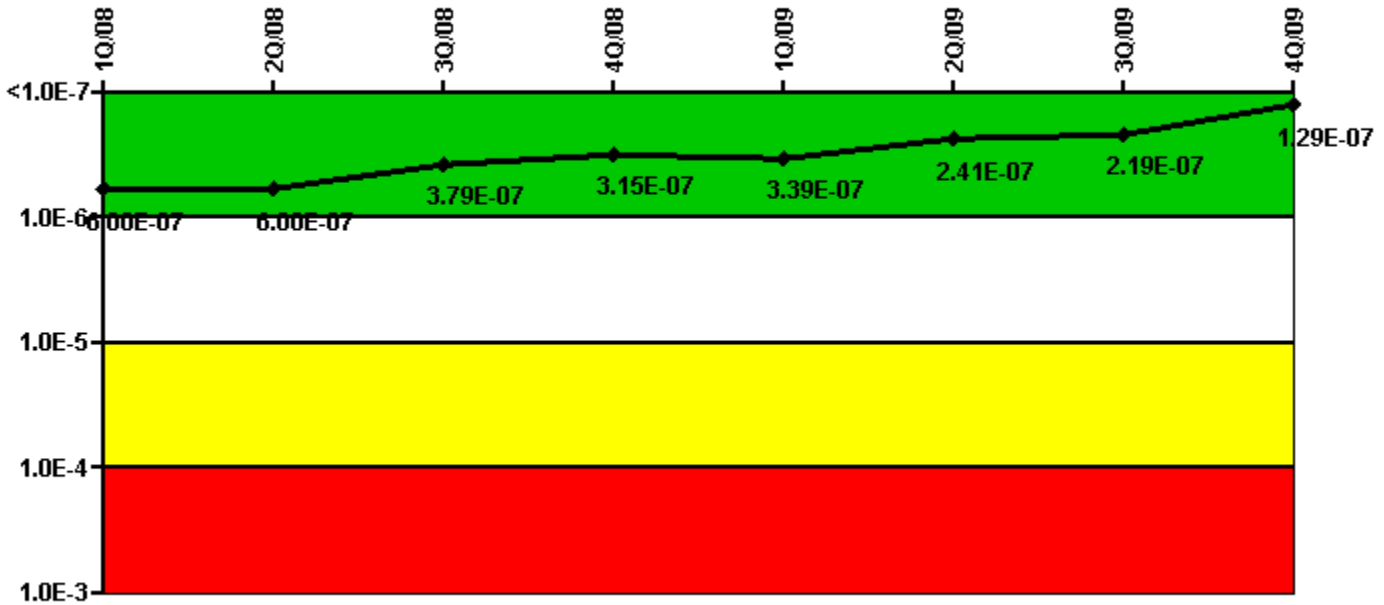
### Notes

Safety System Functional Failures (BWR)	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
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

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# Mitigating Systems Performance Index, Emergency AC Power System



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

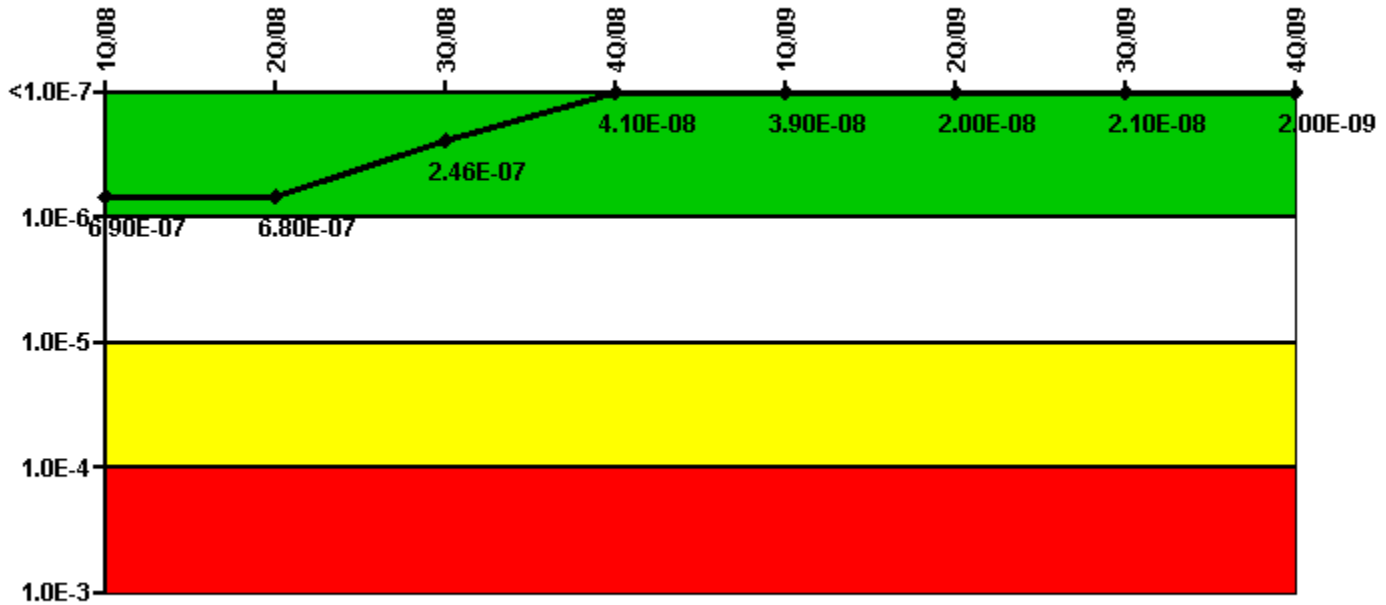
## Notes

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)	6.00E-08	6.00E-08	2.90E-08	2.50E-08	3.90E-08	2.10E-08	1.90E-08	1.90E-08
URI (ΔCDF)	5.40E-07	5.40E-07	3.50E-07	2.90E-07	3.00E-07	2.20E-07	2.00E-07	1.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.00E-07	6.00E-07	3.79E-07	3.15E-07	3.39E-07	2.41E-07	2.19E-07	1.29E-07

## Licensee Comments:

4Q/09: Changed PRA Parameter(s). The Basis Document has been revised to update the PRA parameters used in CDE due to a minor revision of the GGNS PRA (Revision 3a). The Revision 3a PRA included several minor changes including removal of basic events R21-CO-CB-1508-A and R21-CO-CB-1608-B from modules. This change resulted in more accurate FV values for these basic events. In addition, most other MSPI related basic events FV values changed slightly since the overall core damage frequency was reduced by a very small amount but is still rounded to the same value previously used. Also, various minor editorial changes and corrections were also made.

# Mitigating Systems Performance Index, High Pressure Injection System



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

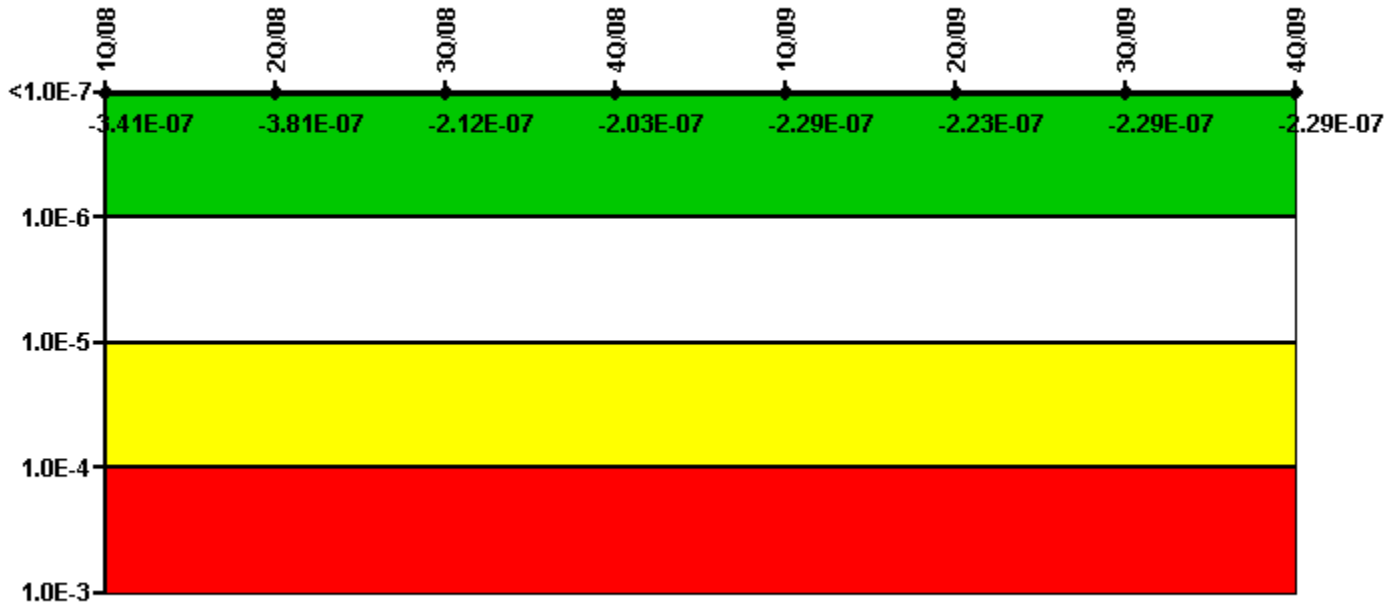
## Notes

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 (ΔCDF)	4.90E-07	4.90E-07	1.80E-07	9.30E-08	9.10E-08	6.90E-08	6.70E-08	5.20E-08
URI (ΔCDF)	2.00E-07	1.90E-07	6.60E-08	-5.20E-08	-5.20E-08	-4.90E-08	-4.60E-08	-5.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.90E-07	6.80E-07	2.46E-07	4.10E-08	3.90E-08	2.00E-08	2.10E-08	2.00E-09

Licensee Comments:

4Q/09: Changed PRA Parameter(s). The Basis Document has been revised to update the PRA parameters used in CDE due to a minor revision of the GGNS PRA (Revision 3a). The Revision 3a PRA included several minor changes including removal of basic events R21-CO-CB-1508-A and R21-CO-CB-1608-B from modules. This change resulted in more accurate FV values for these basic events. In addition, most other MSPI related basic events FV values changed slightly since the overall core damage frequency was reduced by a very small amount but is still rounded to the same value previously used. Also, various minor editorial changes and corrections were also made.

# Mitigating Systems Performance Index, Heat Removal System



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

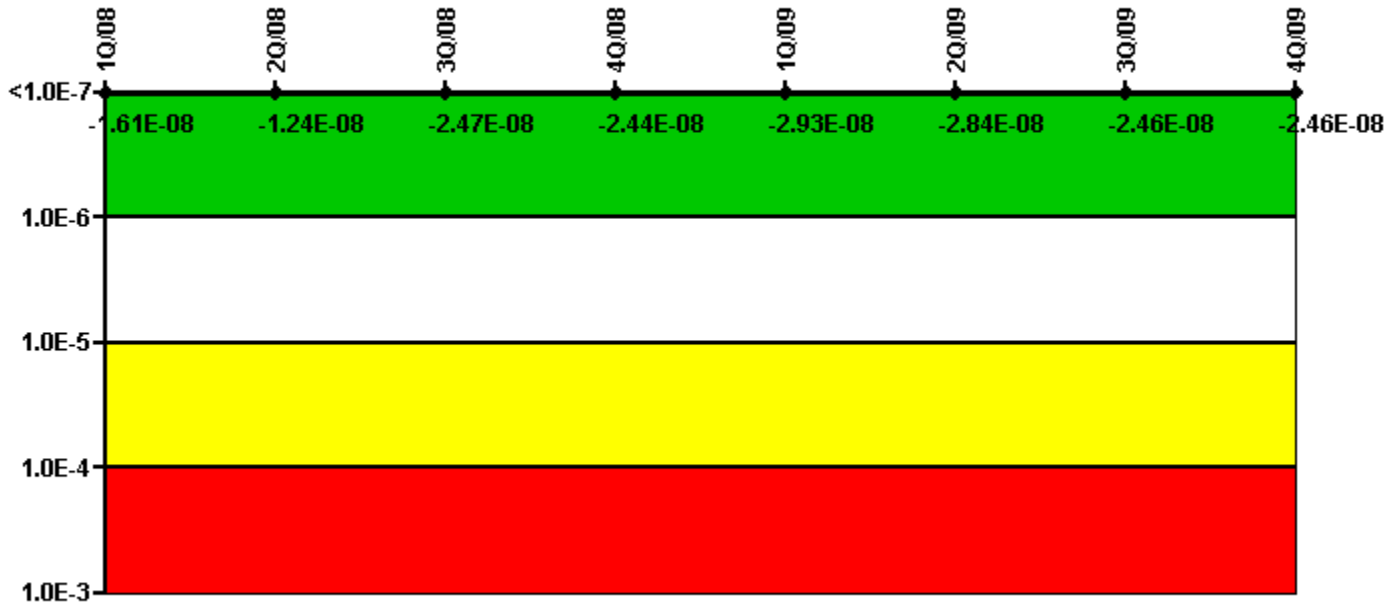
## Notes

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)	3.90E-08	8.90E-09	-1.70E-09	-2.90E-09	-1.90E-08	-1.30E-08	-1.90E-08	-1.90E-08
URI ( $\Delta$ CDF)	-3.80E-07	-3.90E-07	-2.10E-07	-2.00E-07	-2.10E-07	-2.10E-07	-2.10E-07	-2.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.41E-07	-3.81E-07	-2.12E-07	-2.03E-07	-2.29E-07	-2.23E-07	-2.29E-07	-2.29E-07

Licensee Comments:

4Q/09: Changed PRA Parameter(s). The Basis Document has been revised to update the PRA parameters used in CDE due to a minor revision of the GGNS PRA (Revision 3a). The Revision 3a PRA included several minor changes including removal of basic events R21-CO-CB-1508-A and R21-CO-CB-1608-B from modules. This change resulted in more accurate FV values for these basic events. In addition, most other MSPI related basic events FV values changed slightly since the overall core damage frequency was reduced by a very small amount but is still rounded to the same value previously used. Also, various minor editorial changes and corrections were also made.

# 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)	-5.10E-09	-1.40E-09	-7.10E-10	-4.40E-10	-5.30E-09	-5.40E-09	-1.60E-09	-1.60E-09
URI ( $\Delta$ CDF)	-1.10E-08	-1.10E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08	-2.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.61E-08	-1.24E-08	-2.47E-08	-2.44E-08	-2.93E-08	-2.84E-08	-2.46E-08	-2.46E-08

Licensee Comments:

4Q/09: Changed PRA Parameter(s). The Basis Document has been revised to update the PRA parameters used in CDE due to a minor revision of the GGNS PRA (Revision 3a). The Revision 3a PRA included several minor changes including removal of basic events R21-CO-CB-1508-A and R21-CO-CB-1608-B from modules. This change resulted in more accurate FV values for these basic events. In addition, most other MSPI related basic events FV values changed slightly since the overall core damage frequency was reduced by a very small amount but is still rounded to the same value previously used. Also, various minor editorial changes and corrections were also made.

# Mitigating Systems Performance Index, Cooling Water Systems



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

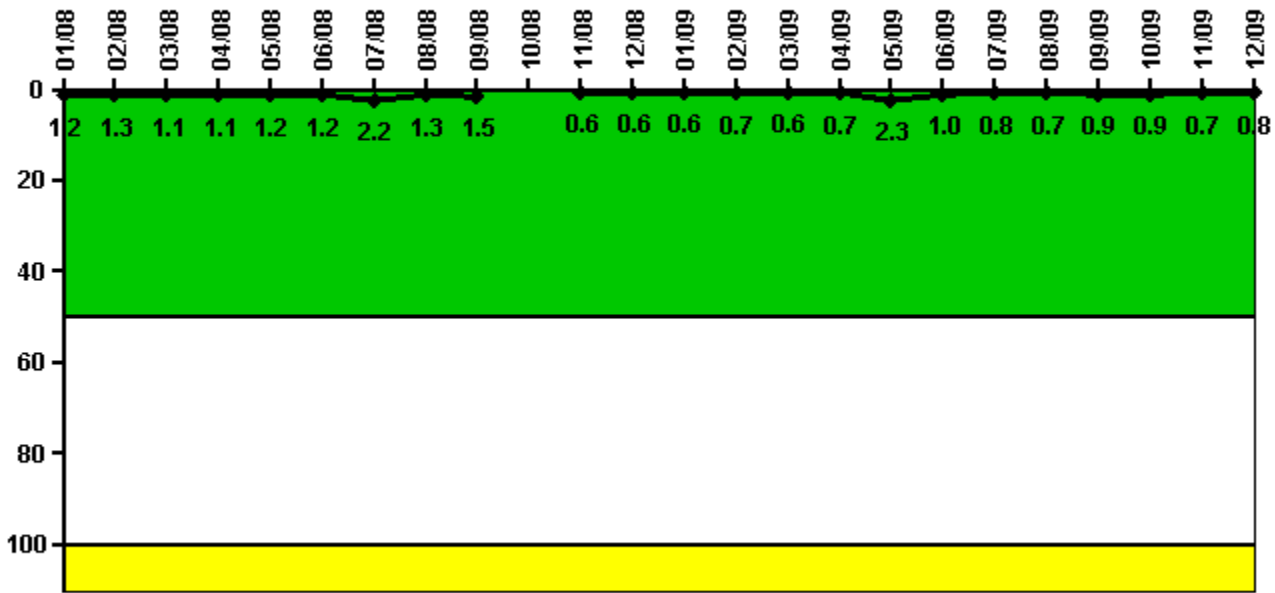
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI ( $\Delta$ CDF)	-1.40E-09	-1.40E-09	-1.70E-09	-1.70E-09	6.60E-09	6.40E-09	1.00E-08	1.00E-08
URI ( $\Delta$ CDF)	-1.20E-07	-1.20E-07	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.10E-08	-9.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.21E-07	-1.21E-07	-9.37E-08	-9.37E-08	-8.54E-08	-8.56E-08	-8.10E-08	-8.10E-08

## Licensee Comments:

4Q/09: Changed PRA Parameter(s). The Basis Document has been revised to update the PRA parameters used in CDE due to a minor revision of the GGNS PRA (Revision 3a). The Revision 3a PRA included several minor changes including removal of basic events R21-CO-CB-1508-A and R21-CO-CB-1608-B from modules. This change resulted in more accurate FV values for these basic events. In addition, most other MSPI related basic events FV values changed slightly since the overall core damage frequency was reduced by a very small amount but is still rounded to the same value previously used. Also, various minor editorial changes and corrections were also made.

# 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	0.002370	0.002660	0.002120	0.002210	0.002420	0.002430	0.004370	0.002590	0.003030	N/A	0.001140	0.001250
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	1.2	1.3	1.1	1.1	1.2	1.2	2.2	1.3	1.5	N/A	0.6	0.6

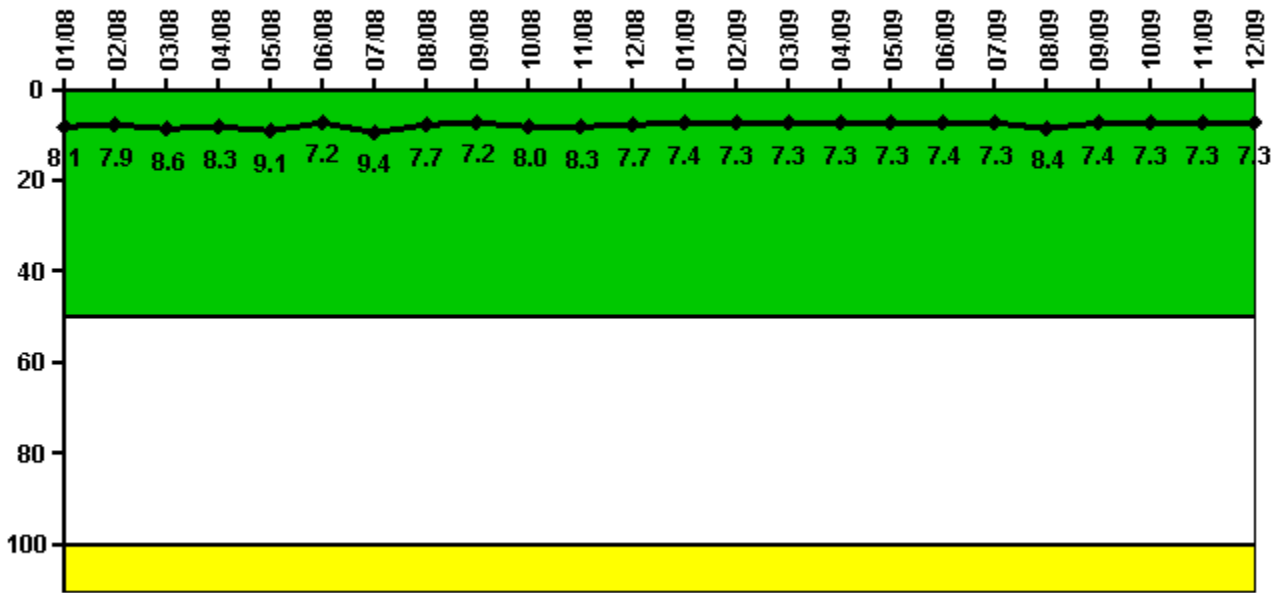
  

Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.001130	0.001420	0.001160	0.001480	0.004630	0.001950	0.001580	0.001400	0.001700	0.001740	0.001450	0.001600
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.6	0.7	0.6	0.7	2.3	1.0	0.8	0.7	0.9	0.9	0.7	0.8

Licensee Comments: none



## Reactor Coolant System Leakage



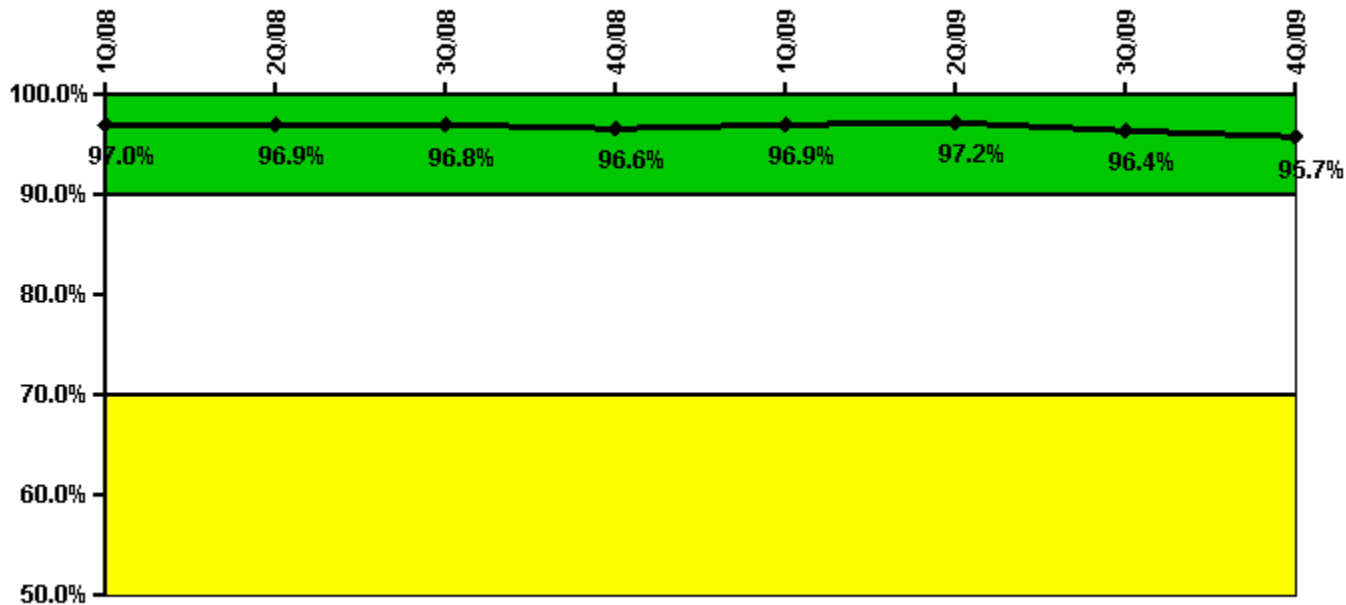
Thresholds: White > 50.0 Yellow > 100.0

### 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	2.420	2.380	2.570	2.480	2.730	2.170	2.810	2.320	2.170	2.400	2.480	2.320
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.1	7.9	8.6	8.3	9.1	7.2	9.4	7.7	7.2	8.0	8.3	7.7
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	2.220	2.180	2.190	2.190	2.190	2.220	2.200	2.520	2.210	2.180	2.190	2.200
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.4	7.3	7.3	7.3	7.3	7.4	7.3	8.4	7.4	7.3	7.3	7.3

Licensee Comments: none

## Drill/Exercise Performance



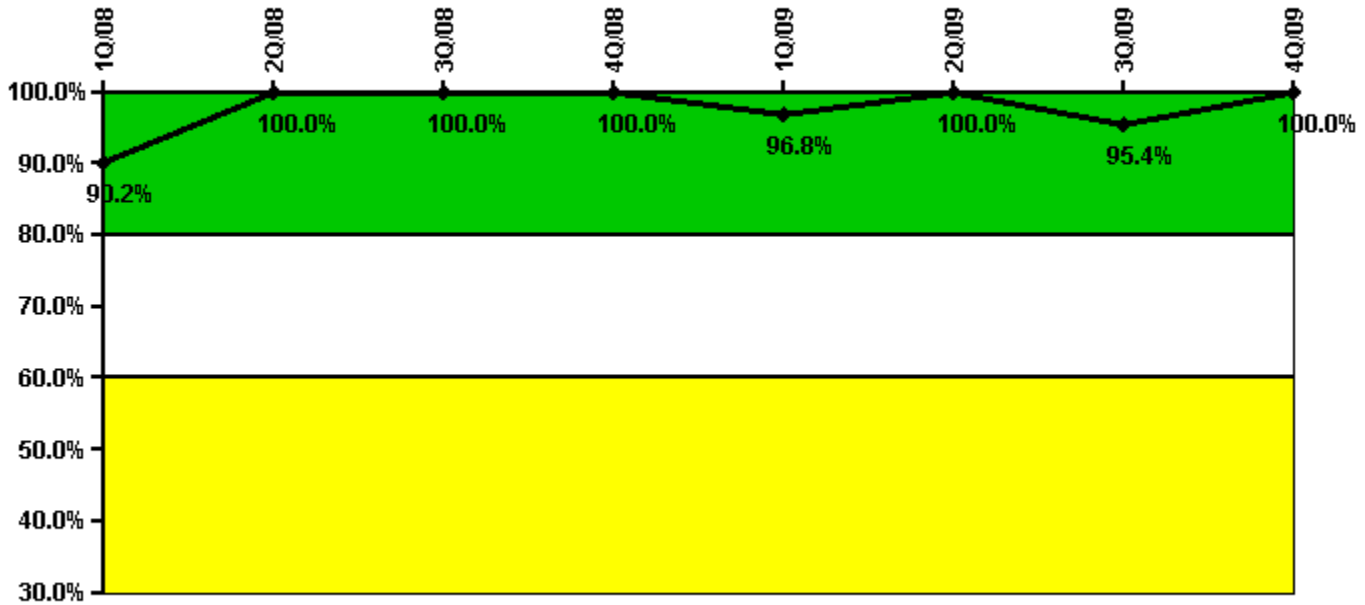
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	20.0	55.0	10.0	1.0	2.0	18.0	32.0	18.0
Total opportunities	22.0	57.0	10.0	2.0	2.0	18.0	34.0	18.0
<b>Indicator value</b>	<b>97.0%</b>	<b>96.9%</b>	<b>96.8%</b>	<b>96.6%</b>	<b>96.9%</b>	<b>97.2%</b>	<b>96.4%</b>	<b>95.7%</b>

Licensee Comments: none

# ERO Drill Participation



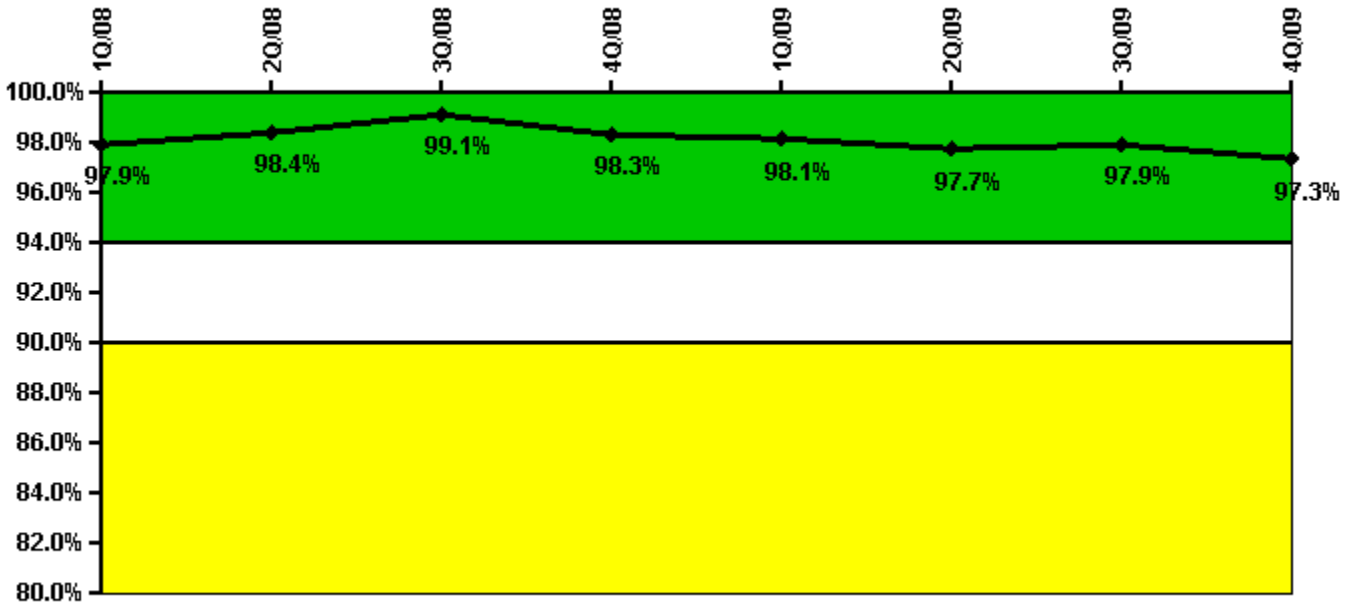
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	74.0	80.0	84.0	81.0	61.0	61.0	62.0	64.0
Total Key personnel	82.0	80.0	84.0	81.0	63.0	61.0	65.0	64.0
<b>Indicator value</b>	<b>90.2%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>96.8%</b>	<b>100.0%</b>	<b>95.4%</b>	<b>100.0%</b>

Licensee Comments: none

# Alert & Notification System



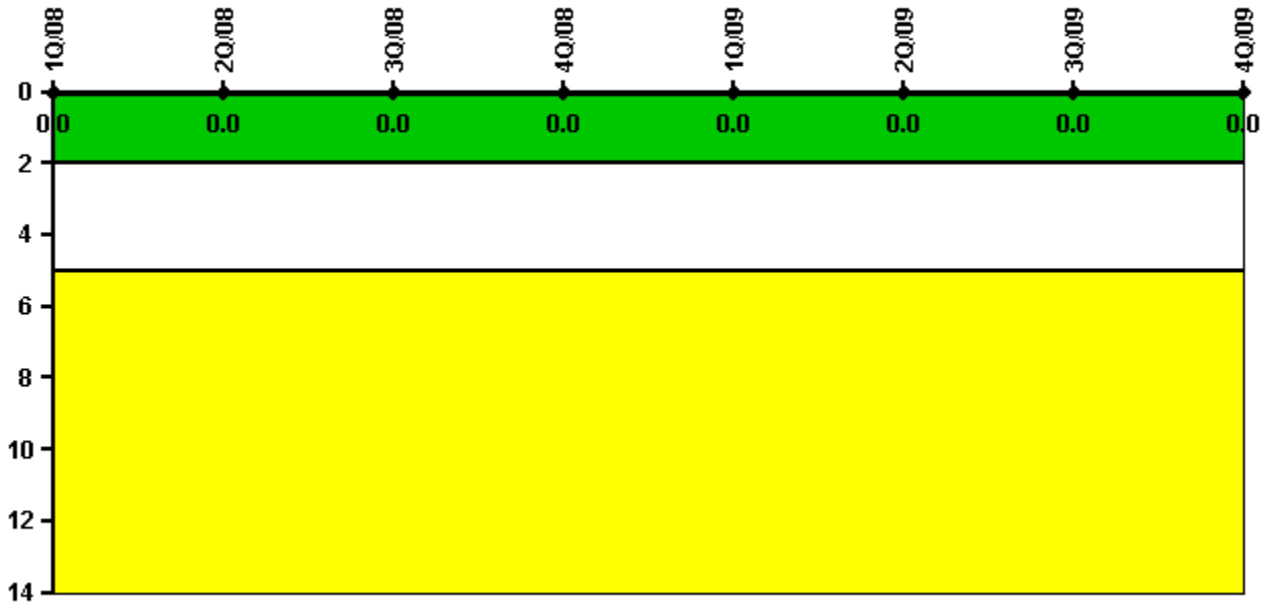
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	127	125	82	125	126	127	127	122
Total sirens-tests	129	125	84	129	129	129	129	129
<b>Indicator value</b>	<b>97.9%</b>	<b>98.4%</b>	<b>99.1%</b>	<b>98.3%</b>	<b>98.1%</b>	<b>97.7%</b>	<b>97.9%</b>	<b>97.3%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



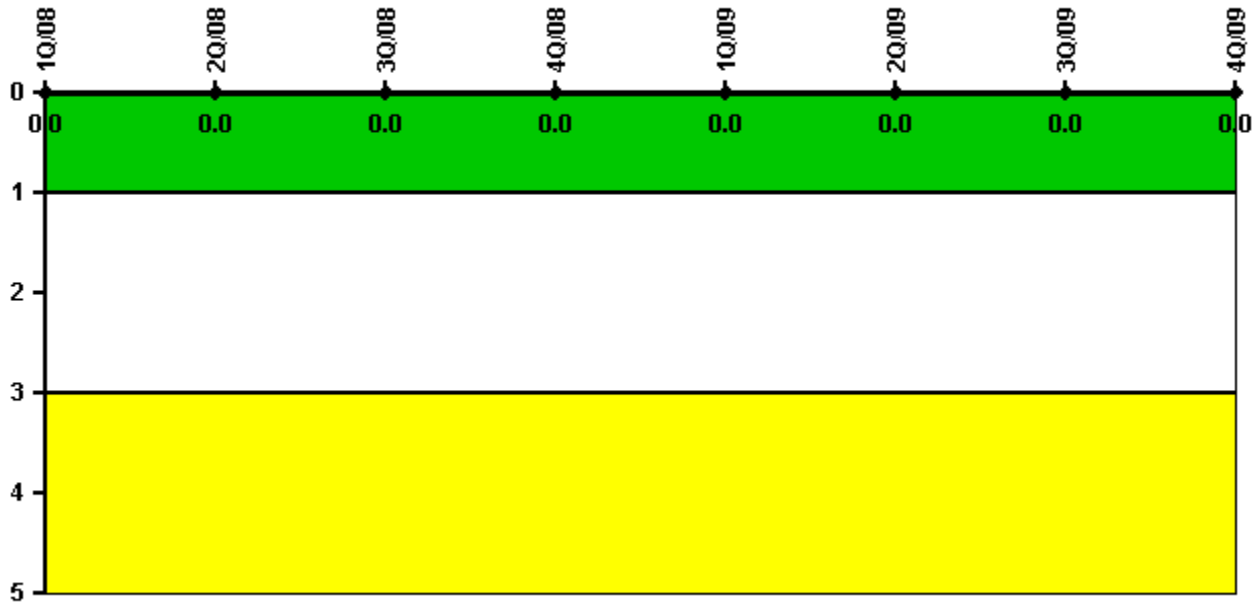
Thresholds: White > 2.0 Yellow > 5.0

## 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

# 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

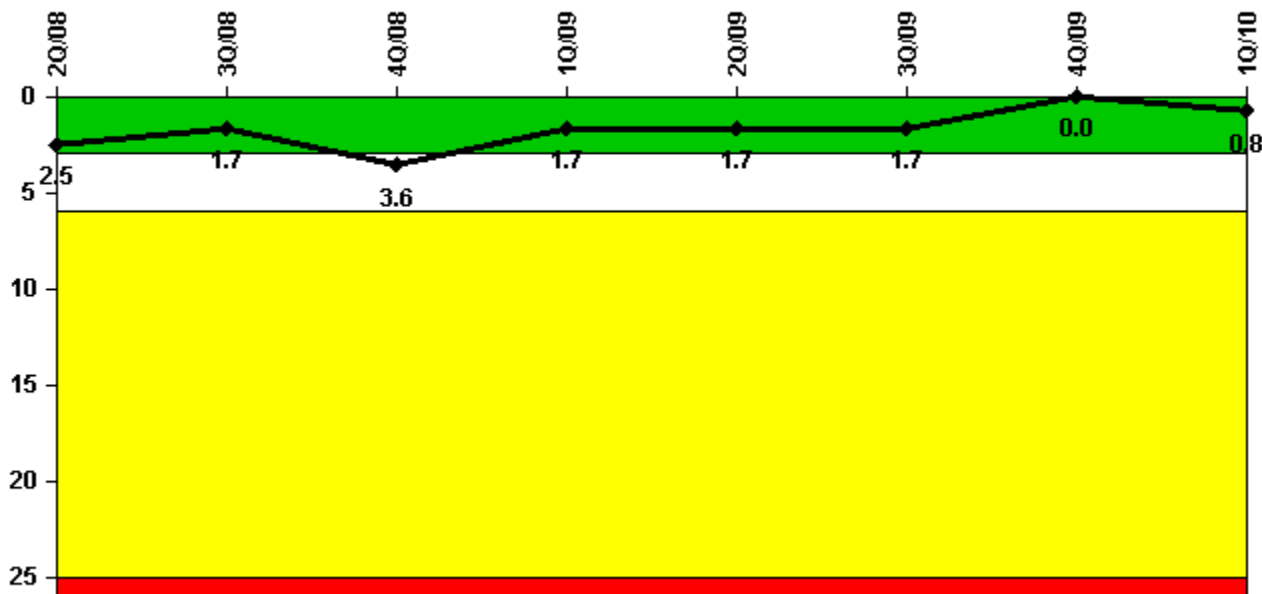
[Security](#) information not publicly available.

# Grand Gulf 1

## 1Q/2010 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



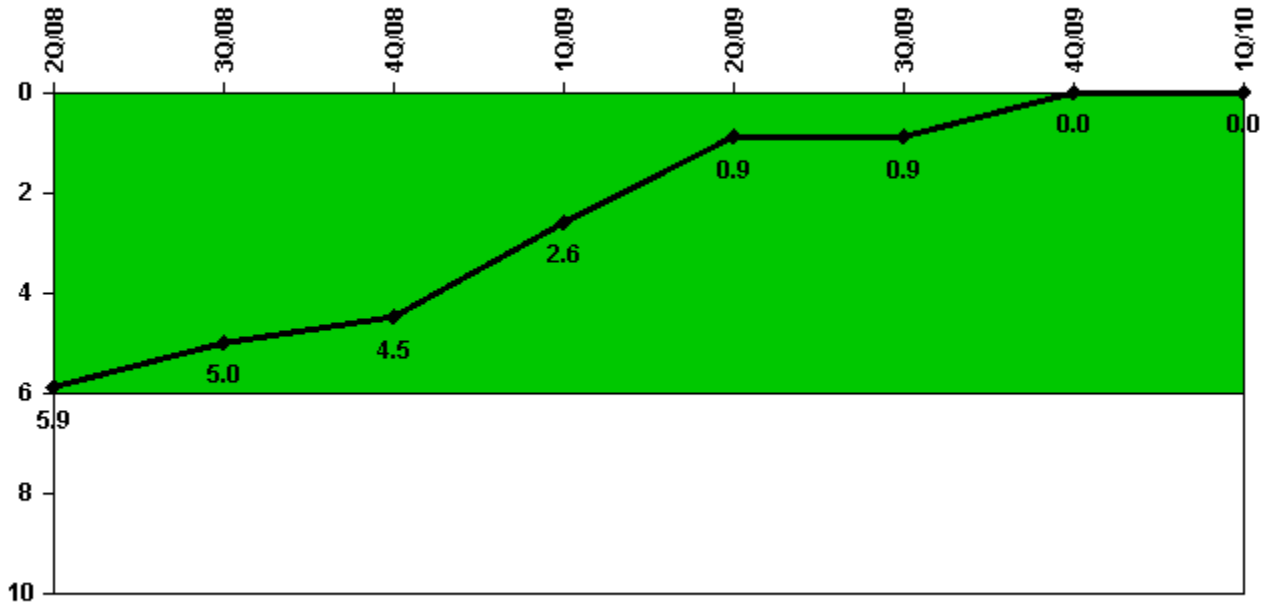
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	0	0	2.0	0	0	0	0	1.0
Critical hours	2184.0	1988.0	1671.7	2159.0	2184.0	2208.0	2209.0	2094.0
Indicator value	2.5	1.7	3.6	1.7	1.7	1.7	0	0.8

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

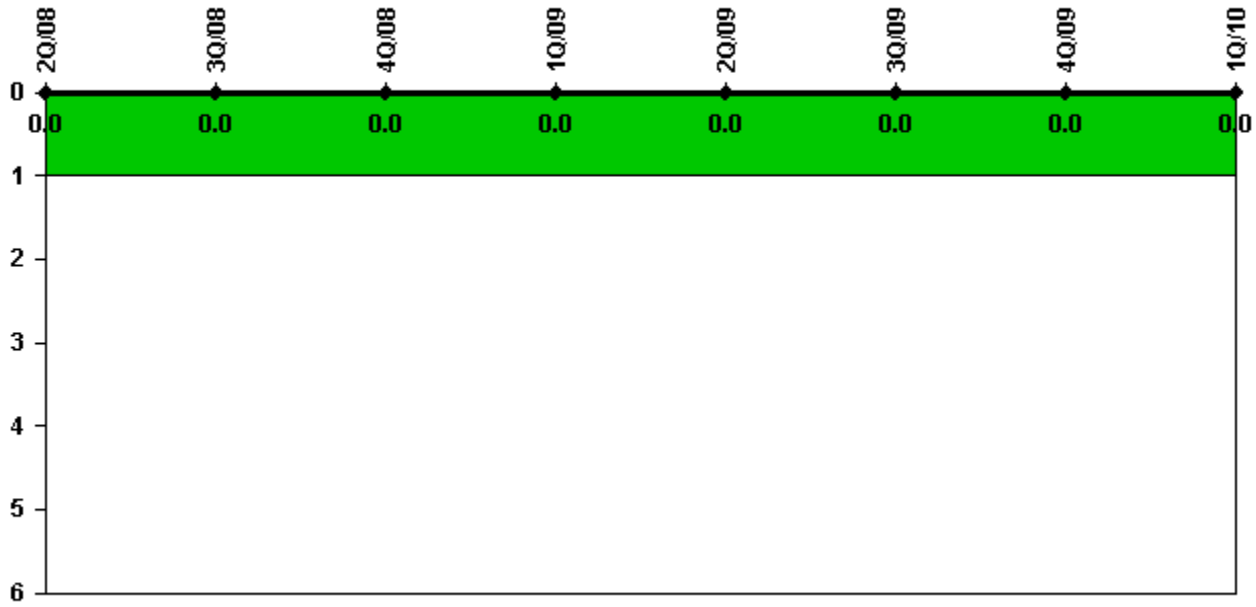
### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	2.0	0	1.0	0	0	0	0	0
Critical hours	2184.0	1988.0	1671.7	2159.0	2184.0	2208.0	2209.0	2094.0
<b>Indicator value</b>	<b>5.9</b>	<b>5.0</b>	<b>4.5</b>	<b>2.6</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>	<b>0</b>

Licensee Comments: none



## Unplanned Scrams with Complications



Thresholds: White > 1.0

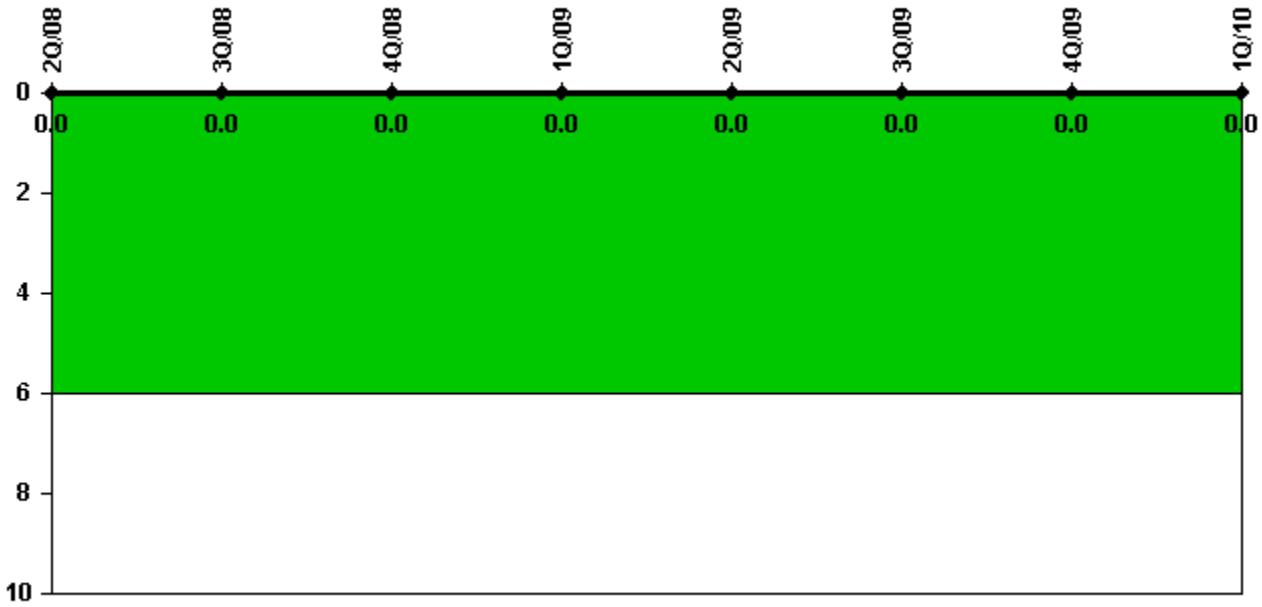
### Notes

Unplanned Scrams with Complications	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

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## Safety System Functional Failures (BWR)



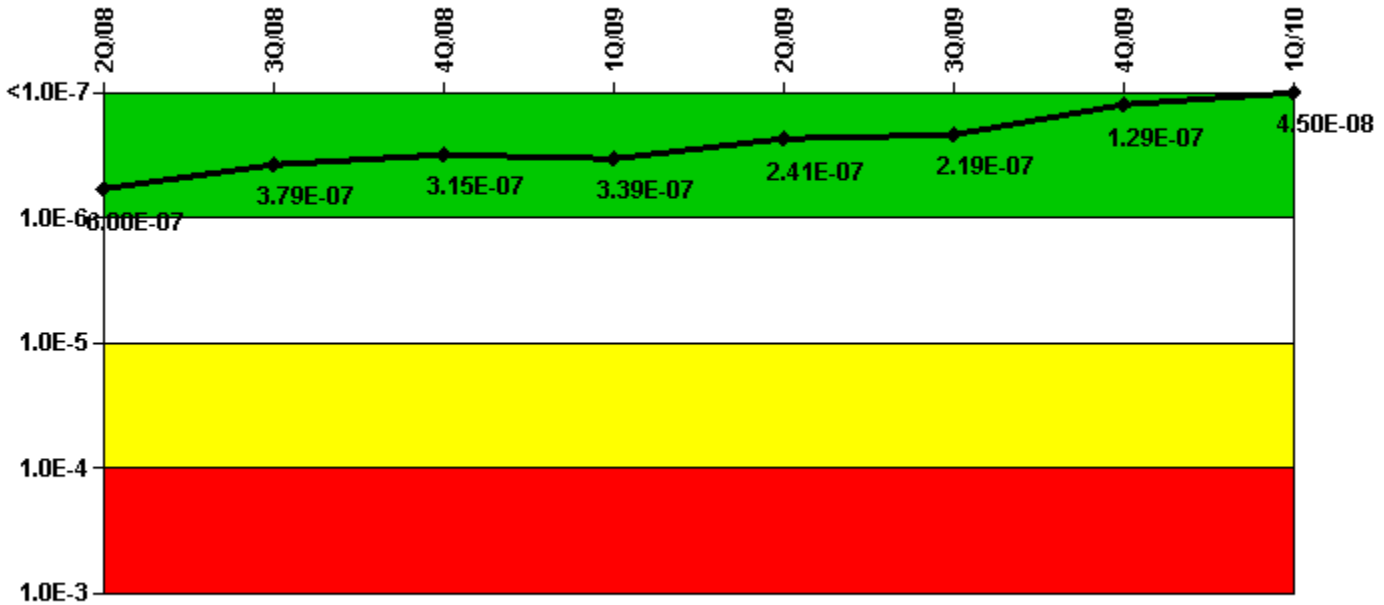
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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



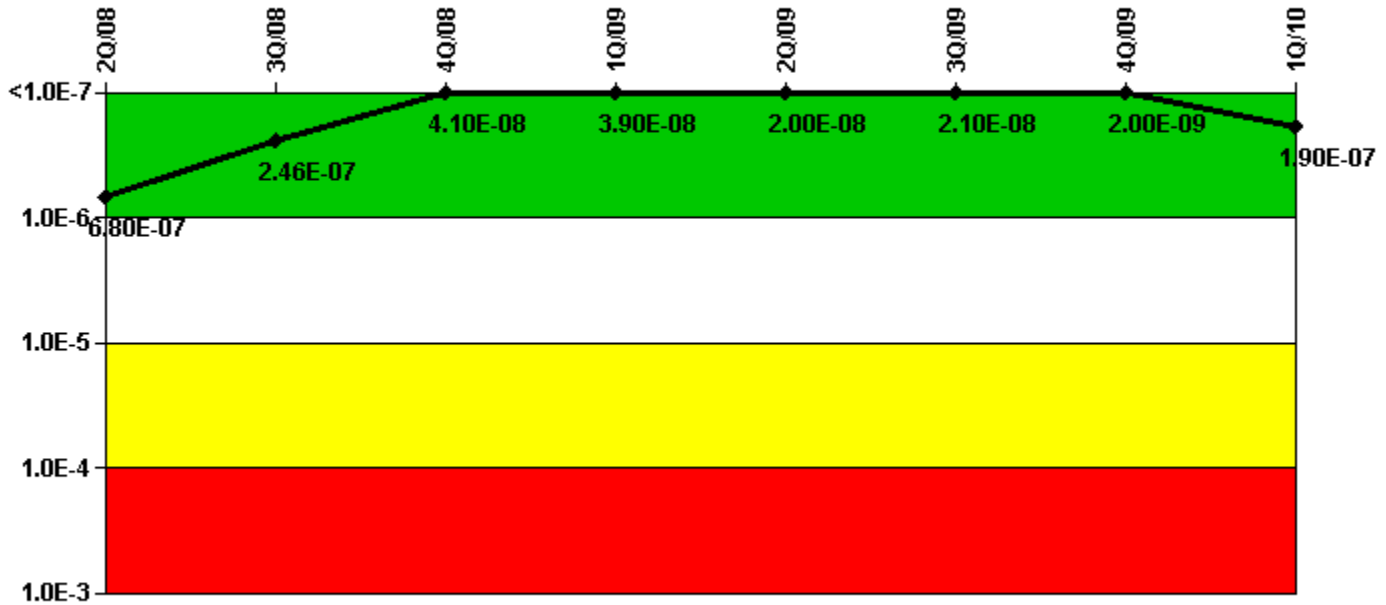
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	6.00E-08	2.90E-08	2.50E-08	3.90E-08	2.10E-08	1.90E-08	1.90E-08	1.36E-08
URI (ΔCDF)	5.40E-07	3.50E-07	2.90E-07	3.00E-07	2.20E-07	2.00E-07	1.10E-07	3.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.00E-07	3.79E-07	3.15E-07	3.39E-07	2.41E-07	2.19E-07	1.29E-07	4.50E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



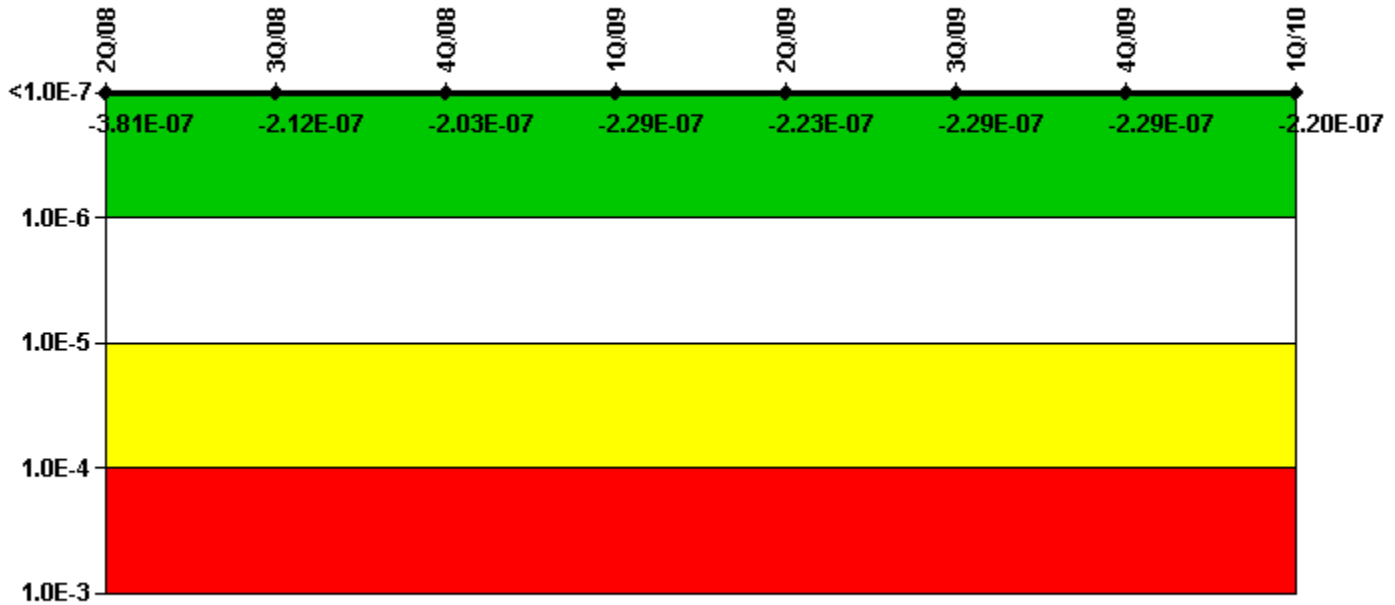
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	4.90E-07	1.80E-07	9.30E-08	9.10E-08	6.90E-08	6.70E-08	5.20E-08	2.47E-07
URI (ΔCDF)	1.90E-07	6.60E-08	-5.20E-08	-5.20E-08	-4.90E-08	-4.60E-08	-5.00E-08	-5.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.80E-07	2.46E-07	4.10E-08	3.90E-08	2.00E-08	2.10E-08	2.00E-09	1.90E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



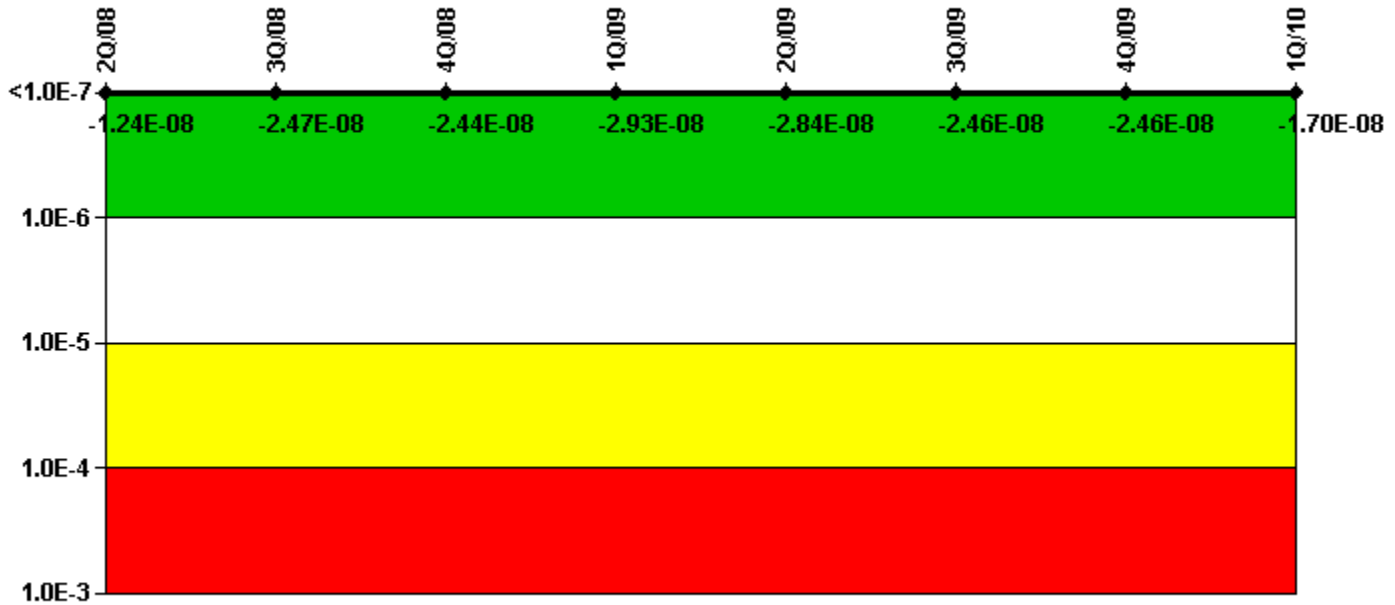
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI ( $\Delta$ CDF)	8.90E-09	-1.70E-09	-2.90E-09	-1.90E-08	-1.30E-08	-1.90E-08	-1.90E-08	-1.99E-08
URI ( $\Delta$ CDF)	-3.90E-07	-2.10E-07	-2.00E-07	-2.10E-07	-2.10E-07	-2.10E-07	-2.10E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.81E-07	-2.12E-07	-2.03E-07	-2.29E-07	-2.23E-07	-2.29E-07	-2.29E-07	-2.20E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



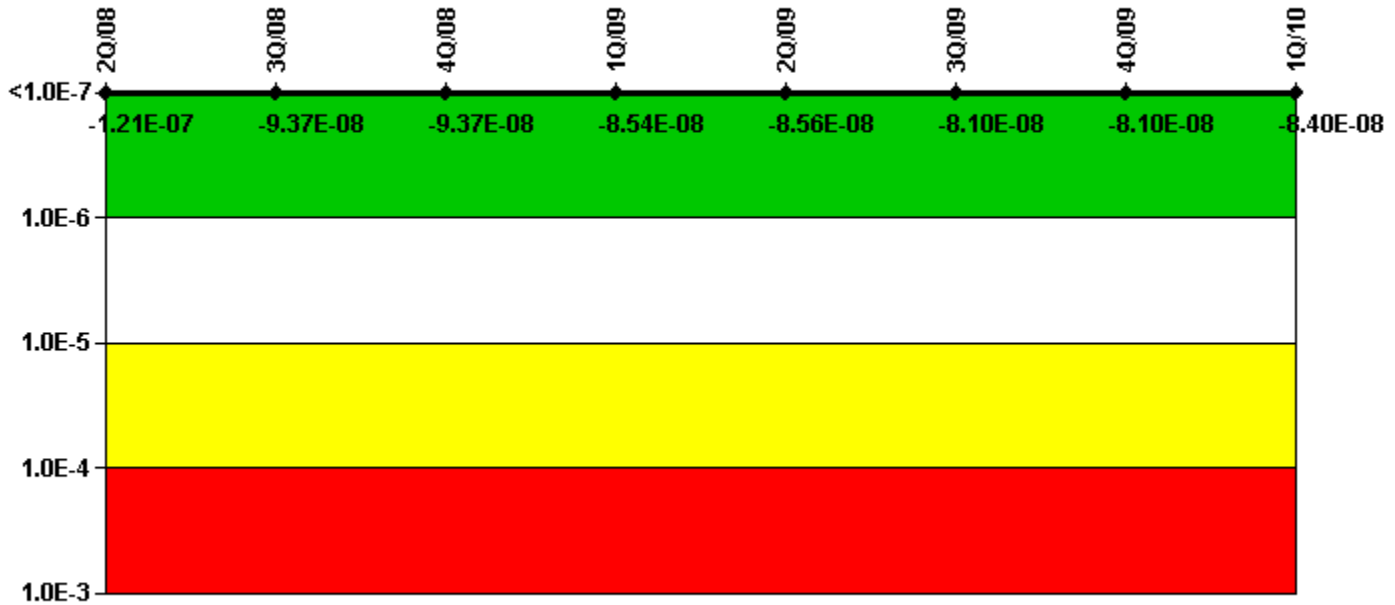
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI ( $\Delta$ CDF)	-1.40E-09	-7.10E-10	-4.40E-10	-5.30E-09	-5.40E-09	-1.60E-09	-1.60E-09	4.20E-09
URI ( $\Delta$ CDF)	-1.10E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.14E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.24E-08	-2.47E-08	-2.44E-08	-2.93E-08	-2.84E-08	-2.46E-08	-2.46E-08	-1.70E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



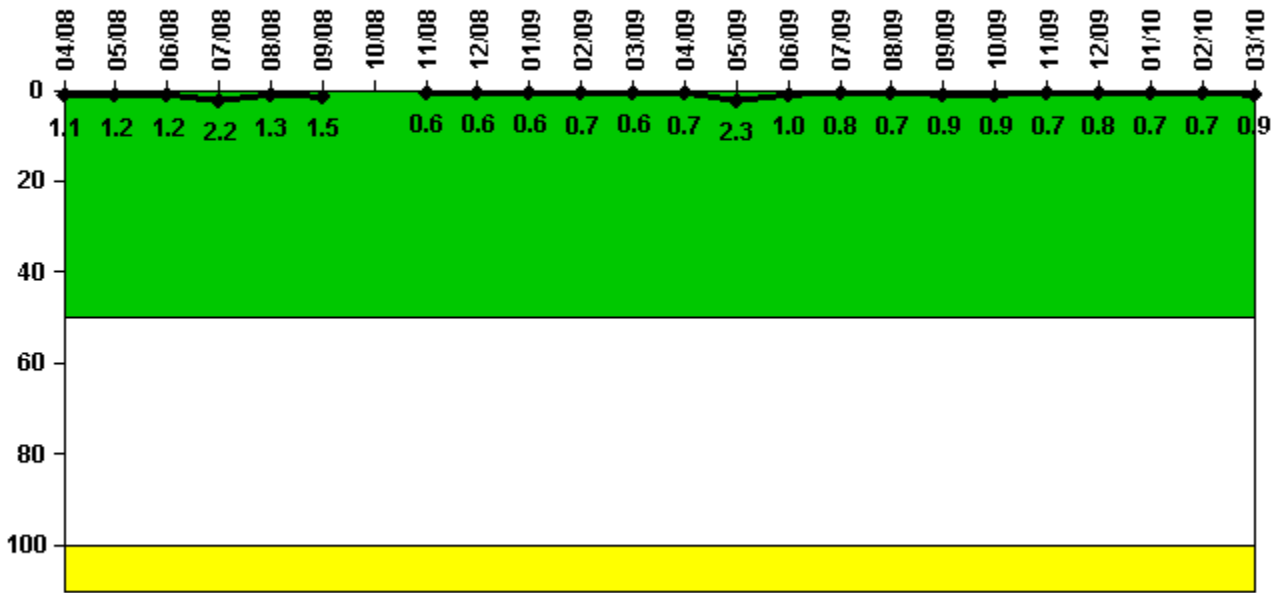
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI ( $\Delta$ CDF)	-1.40E-09	-1.70E-09	-1.70E-09	6.60E-09	6.40E-09	1.00E-08	1.00E-08	5.65E-09
URI ( $\Delta$ CDF)	-1.20E-07	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.10E-08	-9.10E-08	-8.99E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.21E-07	-9.37E-08	-9.37E-08	-8.54E-08	-8.56E-08	-8.10E-08	-8.10E-08	-8.40E-08

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.002210	0.002420	0.002430	0.004370	0.002590	0.003030	N/A	0.001140	0.001250	0.001130	0.001420	0.001160
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	1.1	1.2	1.2	2.2	1.3	1.5	N/A	0.6	0.6	0.6	0.7	0.6

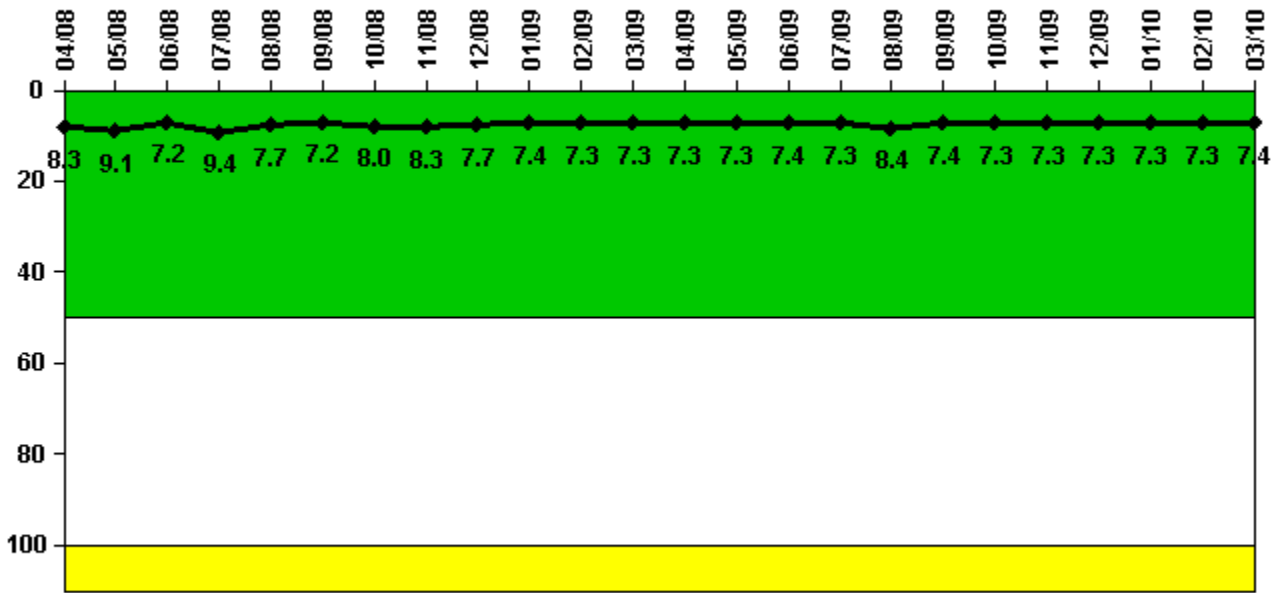
  

Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.001480	0.004630	0.001950	0.001580	0.001400	0.001700	0.001740	0.001450	0.001600	0.001440	0.001440	0.001710
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.7	2.3	1.0	0.8	0.7	0.9	0.9	0.7	0.8	0.7	0.7	0.9

Licensee Comments: none



## Reactor Coolant System Leakage



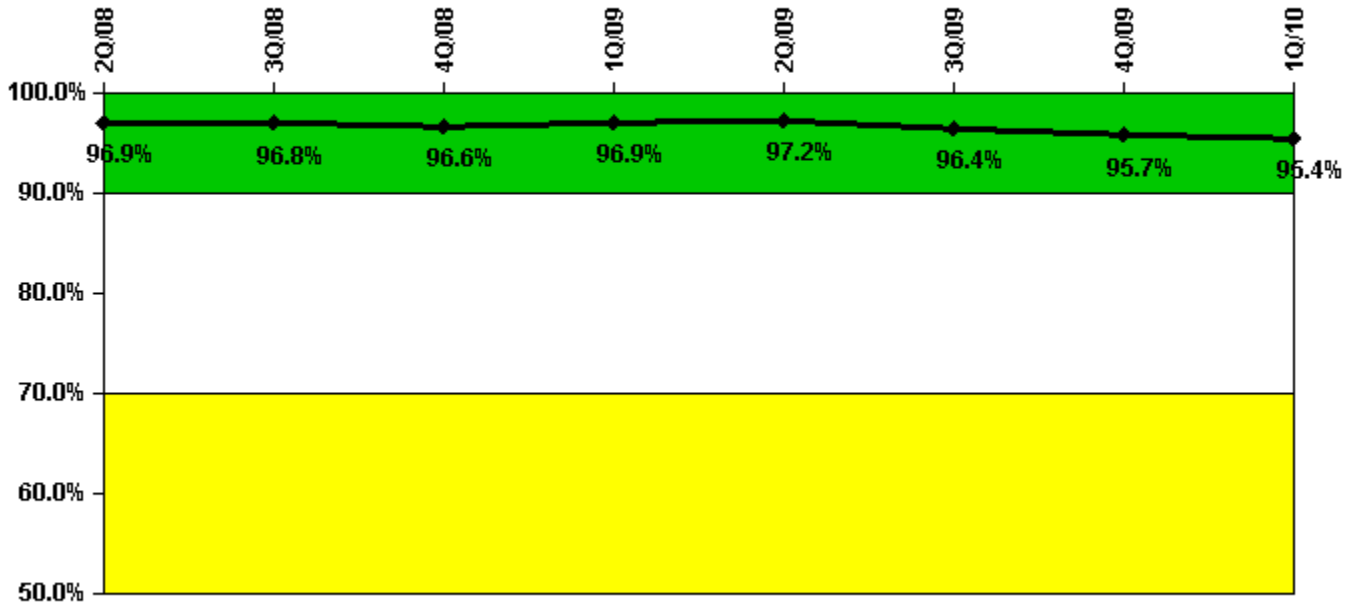
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	2.480	2.730	2.170	2.810	2.320	2.170	2.400	2.480	2.320	2.220	2.180	2.190
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	<b>8.3</b>	<b>9.1</b>	<b>7.2</b>	<b>9.4</b>	<b>7.7</b>	<b>7.2</b>	<b>8.0</b>	<b>8.3</b>	<b>7.7</b>	<b>7.4</b>	<b>7.3</b>	<b>7.3</b>
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	2.190	2.190	2.220	2.200	2.520	2.210	2.180	2.190	2.200	2.190	2.180	2.210
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	<b>7.3</b>	<b>7.3</b>	<b>7.4</b>	<b>7.3</b>	<b>8.4</b>	<b>7.4</b>	<b>7.3</b>	<b>7.3</b>	<b>7.3</b>	<b>7.3</b>	<b>7.3</b>	<b>7.4</b>

Licensee Comments: none

## Drill/Exercise Performance



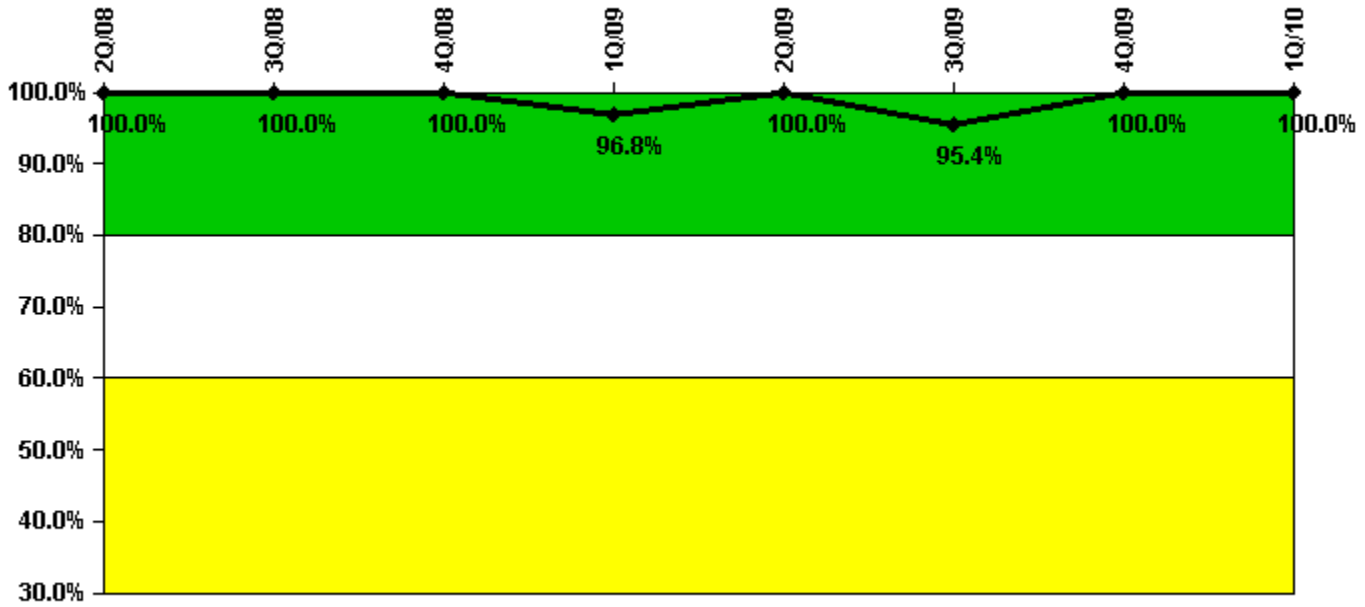
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	55.0	10.0	1.0	2.0	18.0	32.0	18.0	10.0
Total opportunities	57.0	10.0	2.0	2.0	18.0	34.0	18.0	12.0
<b>Indicator value</b>	<b>96.9%</b>	<b>96.8%</b>	<b>96.6%</b>	<b>96.9%</b>	<b>97.2%</b>	<b>96.4%</b>	<b>95.7%</b>	<b>95.4%</b>

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

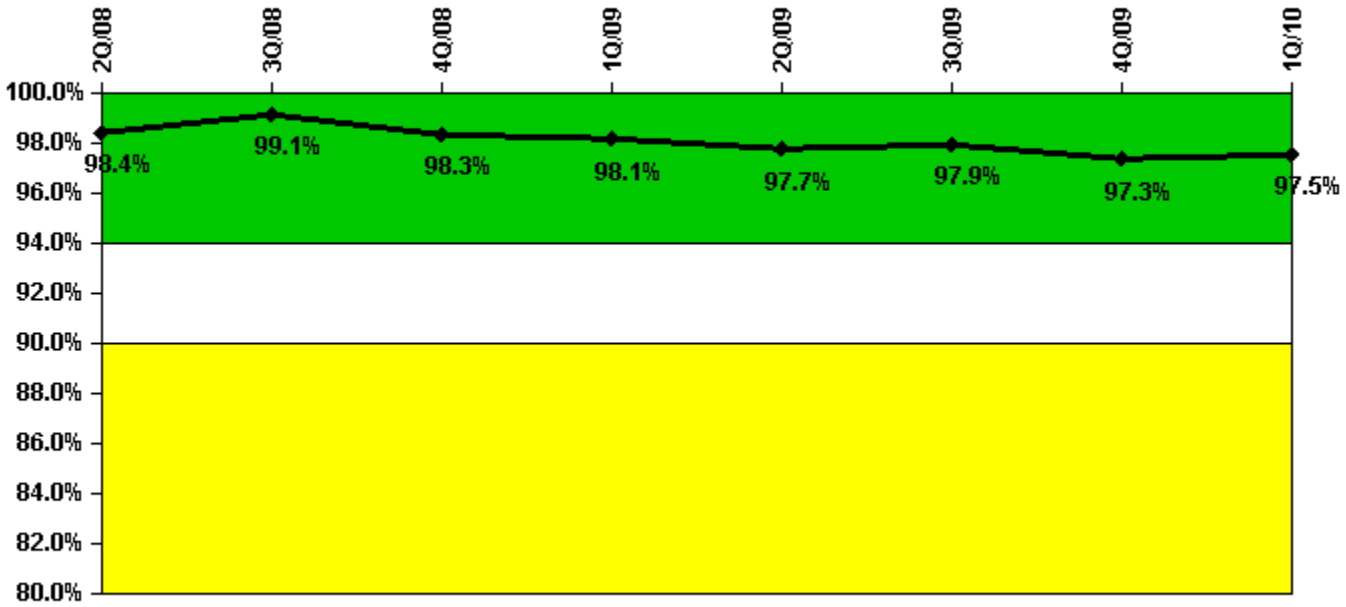
### Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	80.0	84.0	81.0	61.0	61.0	62.0	64.0	64.0
Total Key personnel	80.0	84.0	81.0	63.0	61.0	65.0	64.0	64.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>96.8%</b>	<b>100.0%</b>	<b>95.4%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments: none

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# Alert & Notification System



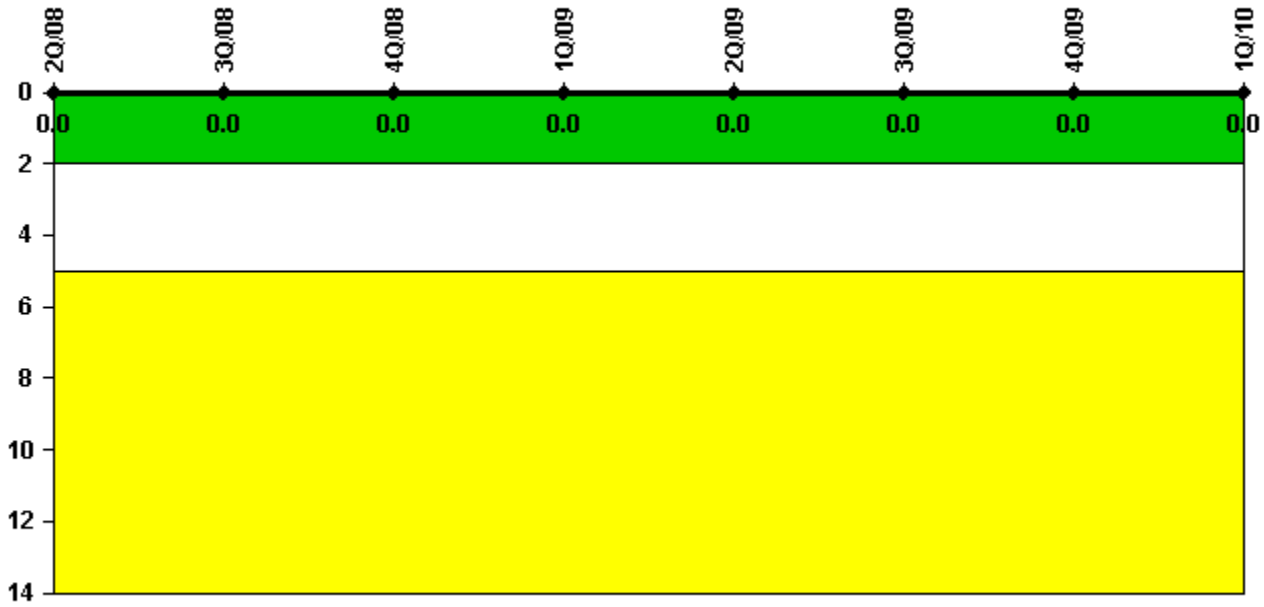
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	125	82	125	126	127	127	122	127
Total sirens-tests	125	84	129	129	129	129	129	129
<b>Indicator value</b>	<b>98.4%</b>	<b>99.1%</b>	<b>98.3%</b>	<b>98.1%</b>	<b>97.7%</b>	<b>97.9%</b>	<b>97.3%</b>	<b>97.5%</b>

Licensee Comments: none

## Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

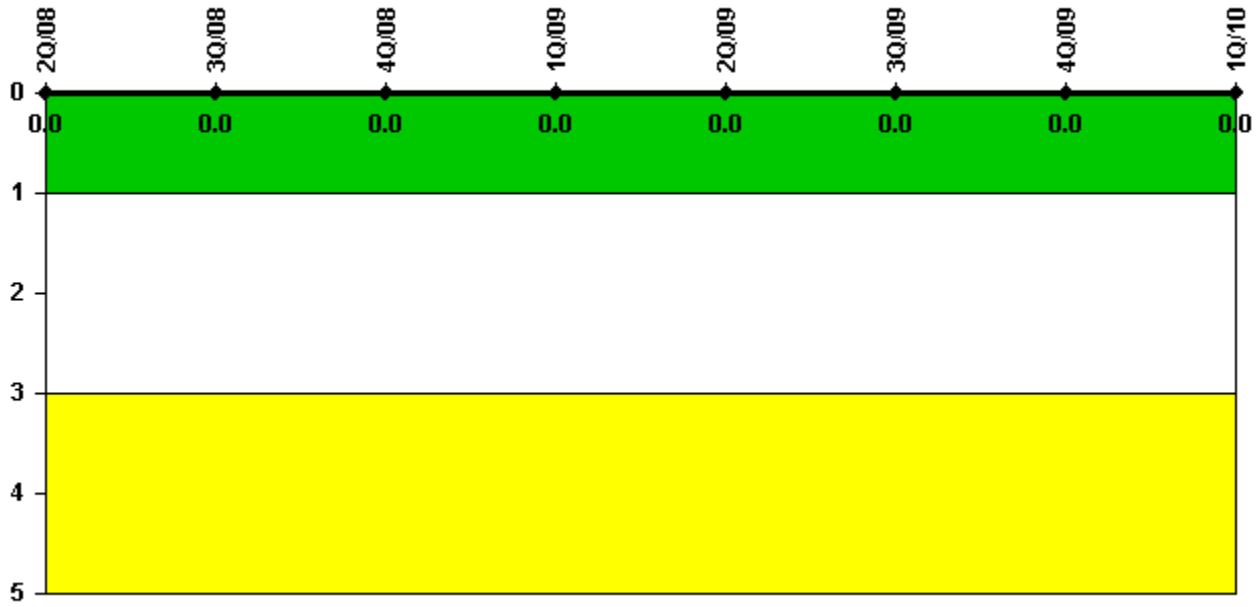
### Notes

Occupational Exposure Control Effectiveness	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

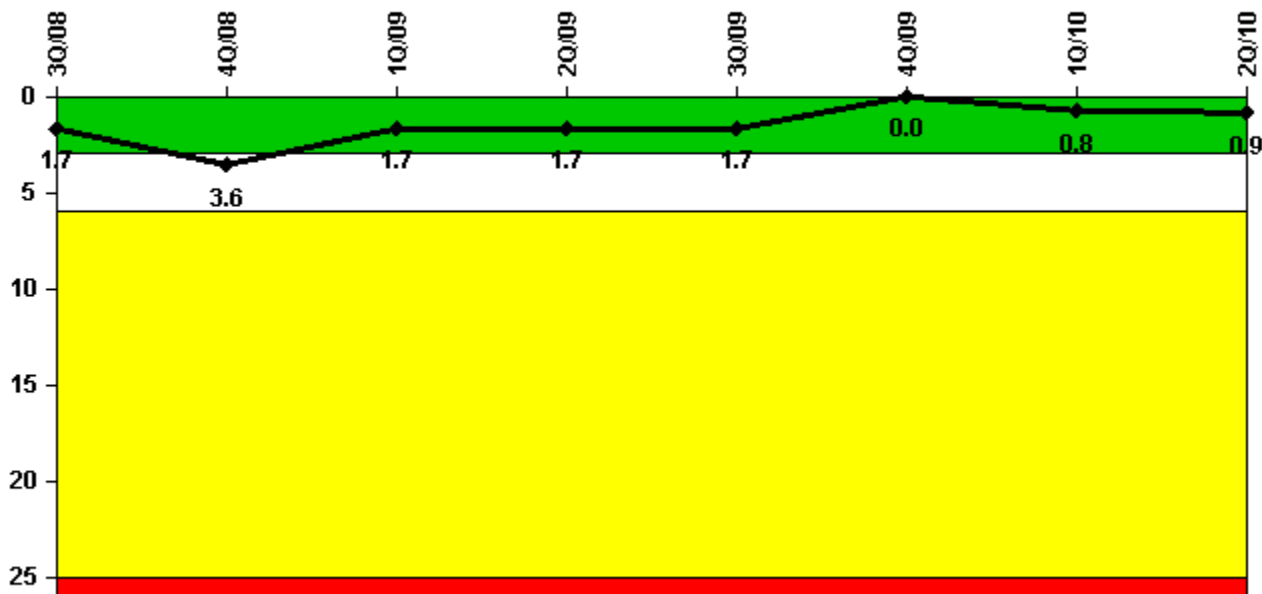
[Security](#) information not publicly available.

# Grand Gulf 1

## 2Q/2010 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



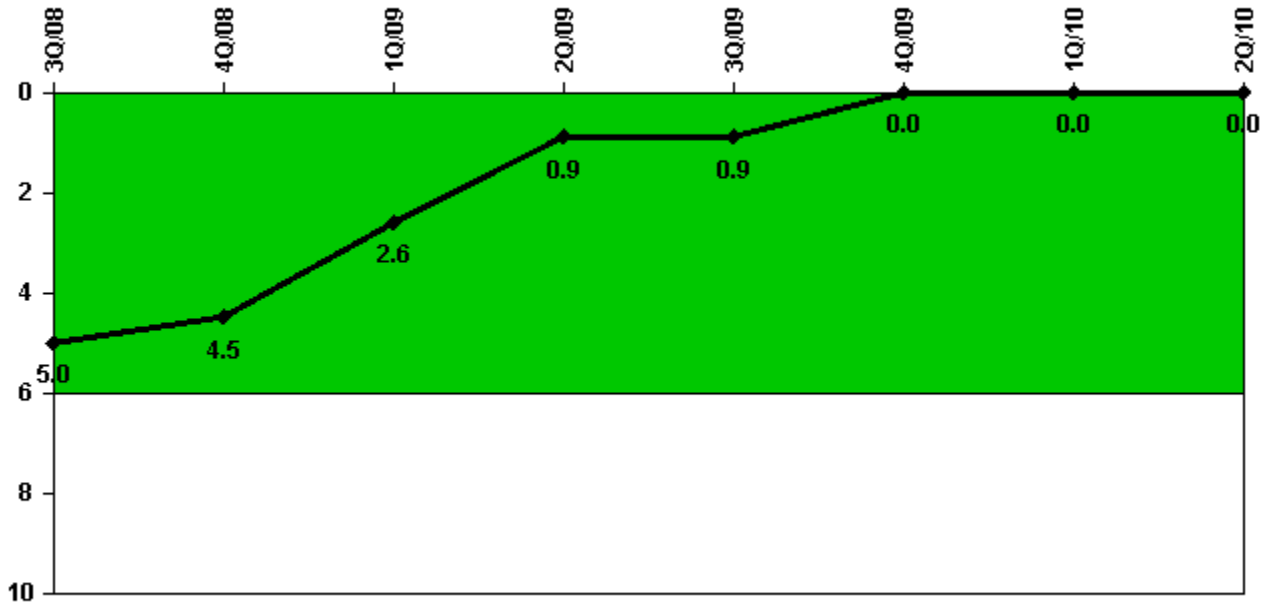
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	2.0	0	0	0	0	1.0	0
Critical hours	1988.0	1671.7	2159.0	2184.0	2208.0	2209.0	2094.0	1506.9
Indicator value	1.7	3.6	1.7	1.7	1.7	0	0.8	0.9

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

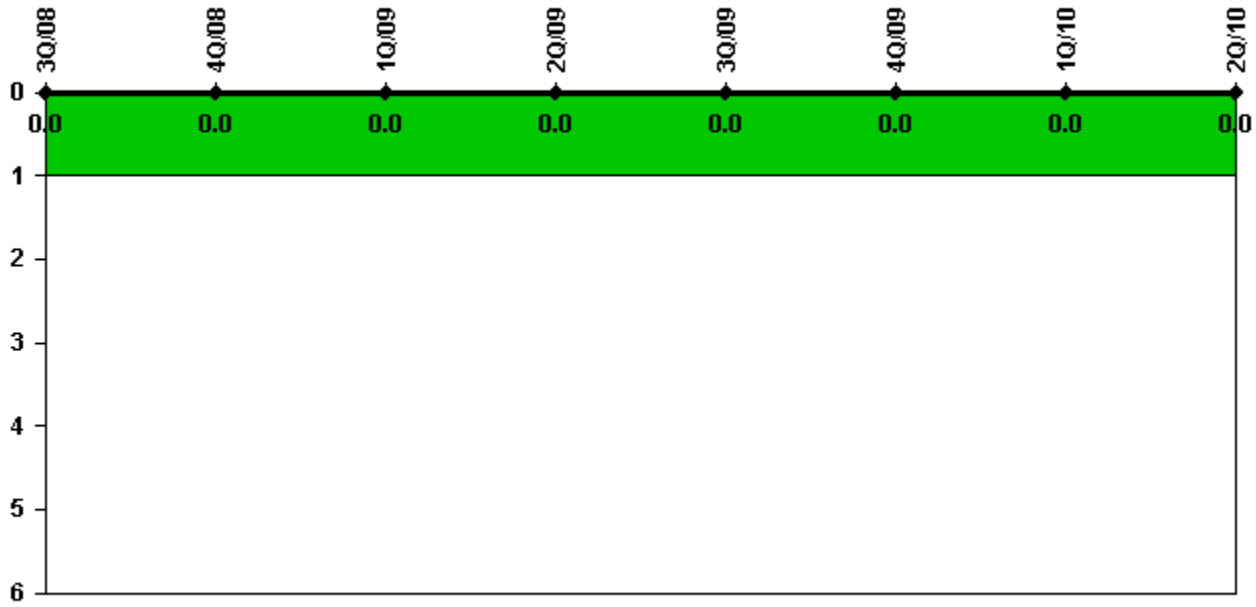
### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	1988.0	1671.7	2159.0	2184.0	2208.0	2209.0	2094.0	1506.9
Indicator value	5.0	4.5	2.6	0.9	0.9	0	0	0

Licensee Comments: none



# Unplanned Scrams with Complications



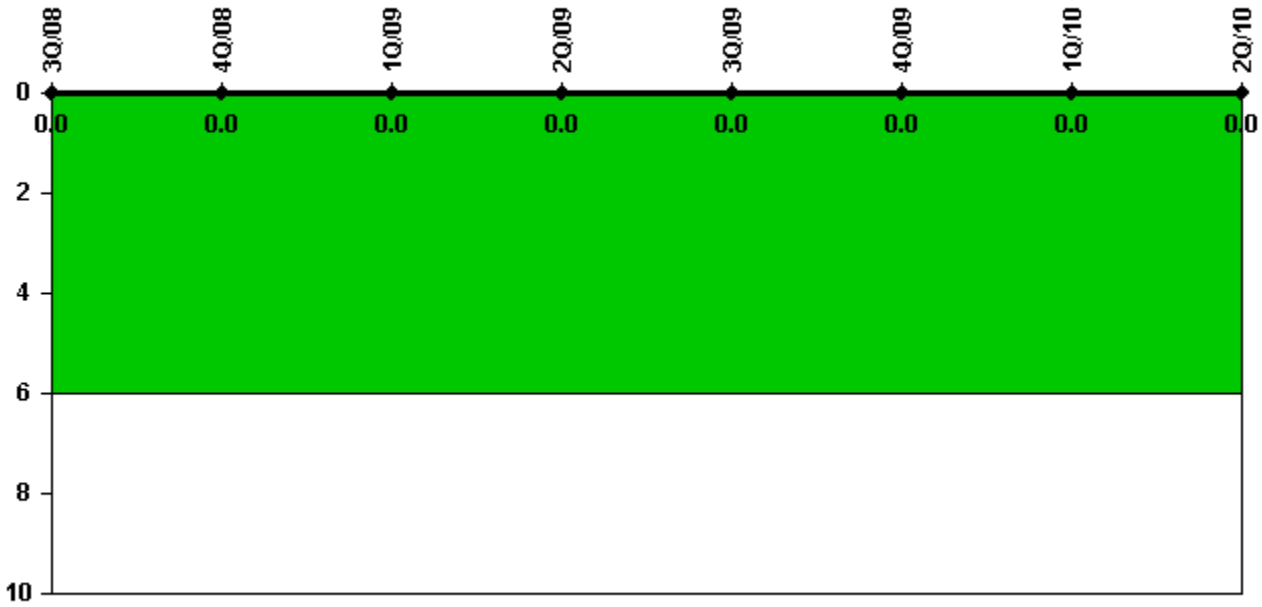
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

## Safety System Functional Failures (BWR)



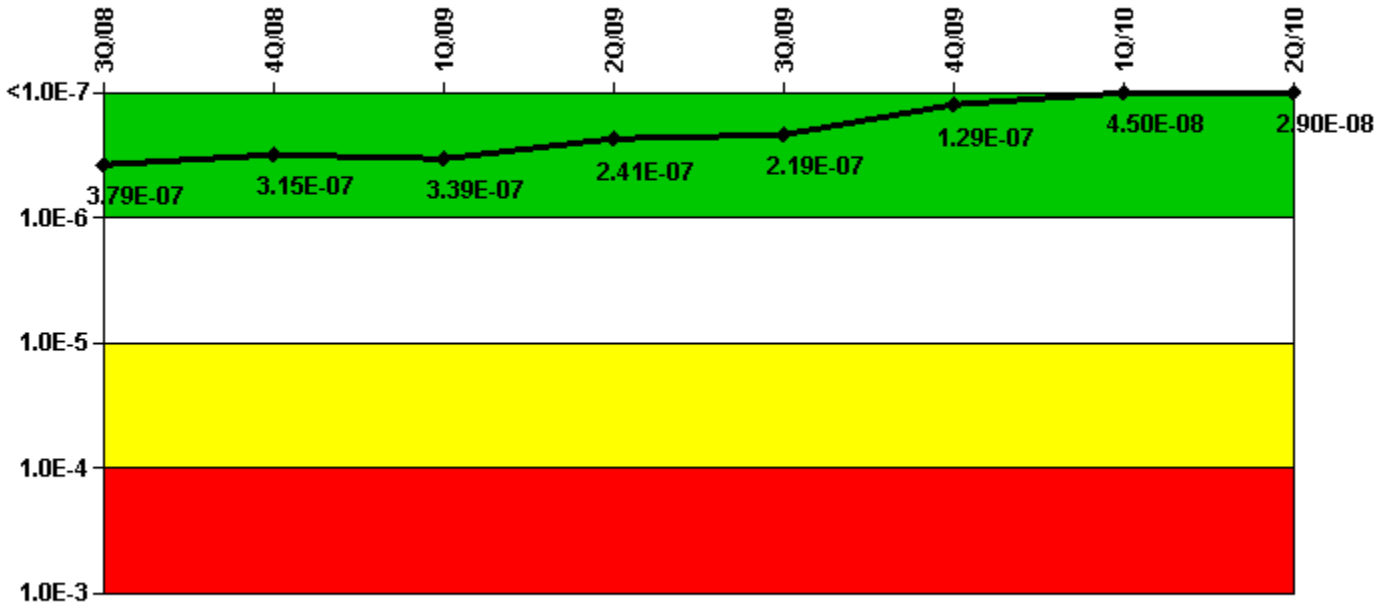
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
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



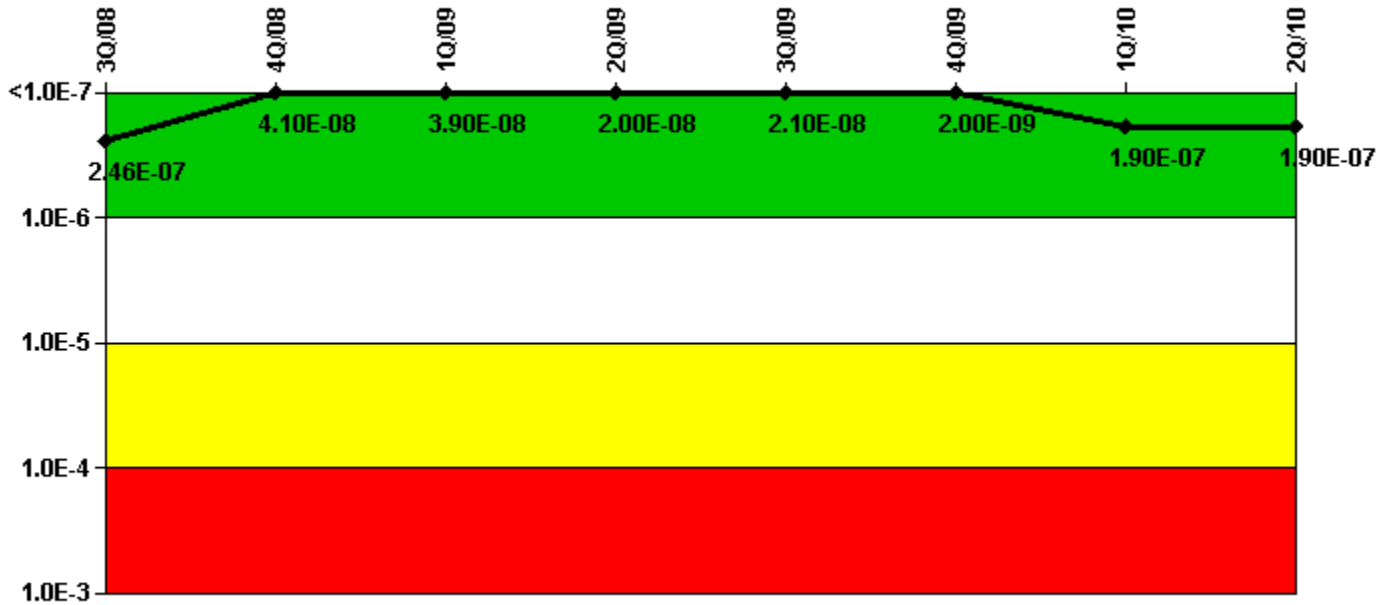
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	2.90E-08	2.50E-08	3.90E-08	2.10E-08	1.90E-08	1.90E-08	1.36E-08	5.46E-10
URI (ΔCDF)	3.50E-07	2.90E-07	3.00E-07	2.20E-07	2.00E-07	1.10E-07	3.13E-08	2.85E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.79E-07	3.15E-07	3.39E-07	2.41E-07	2.19E-07	1.29E-07	4.50E-08	2.90E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



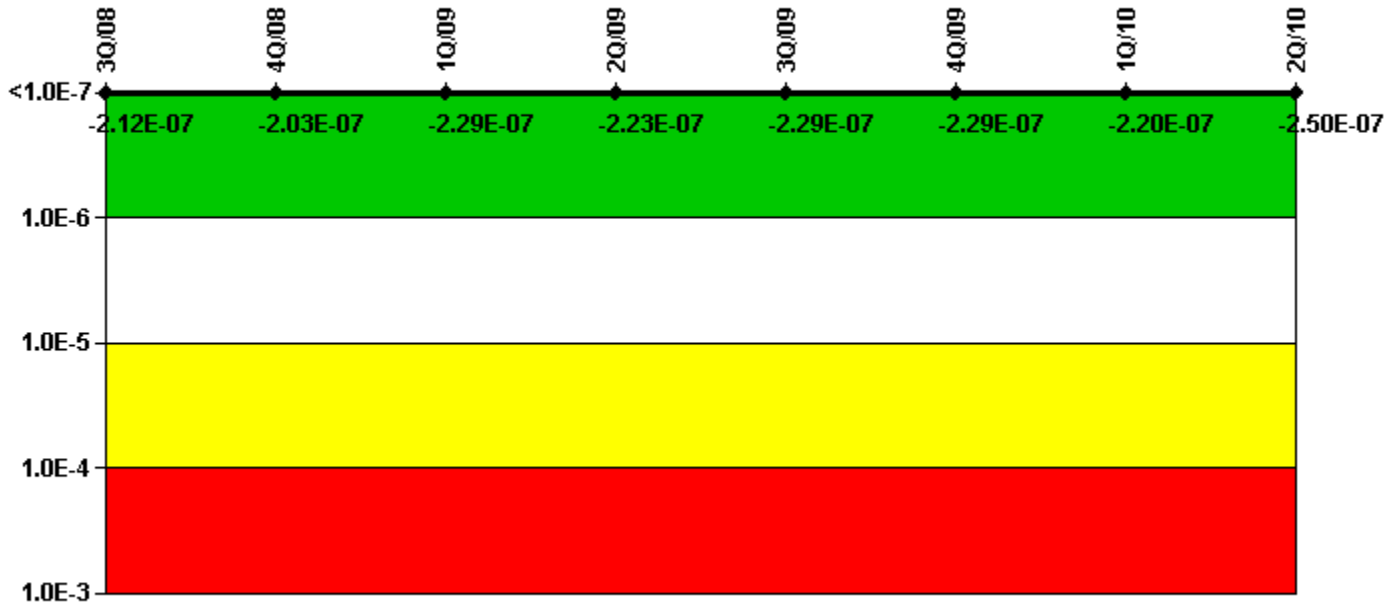
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	1.80E-07	9.30E-08	9.10E-08	6.90E-08	6.70E-08	5.20E-08	2.47E-07	2.40E-07
URI ( $\Delta$ CDF)	6.60E-08	-5.20E-08	-5.20E-08	-4.90E-08	-4.60E-08	-5.00E-08	-5.67E-08	-5.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.46E-07	4.10E-08	3.90E-08	2.00E-08	2.10E-08	2.00E-09	1.90E-07	1.90E-07

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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	-1.70E-09	-2.90E-09	-1.90E-08	-1.30E-08	-1.90E-08	-1.90E-08	-1.99E-08	-5.30E-08
URI ( $\Delta$ CDF)	-2.10E-07	-2.00E-07	-2.10E-07	-2.10E-07	-2.10E-07	-2.10E-07	-2.00E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.12E-07	-2.03E-07	-2.29E-07	-2.23E-07	-2.29E-07	-2.29E-07	-2.20E-07	-2.50E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



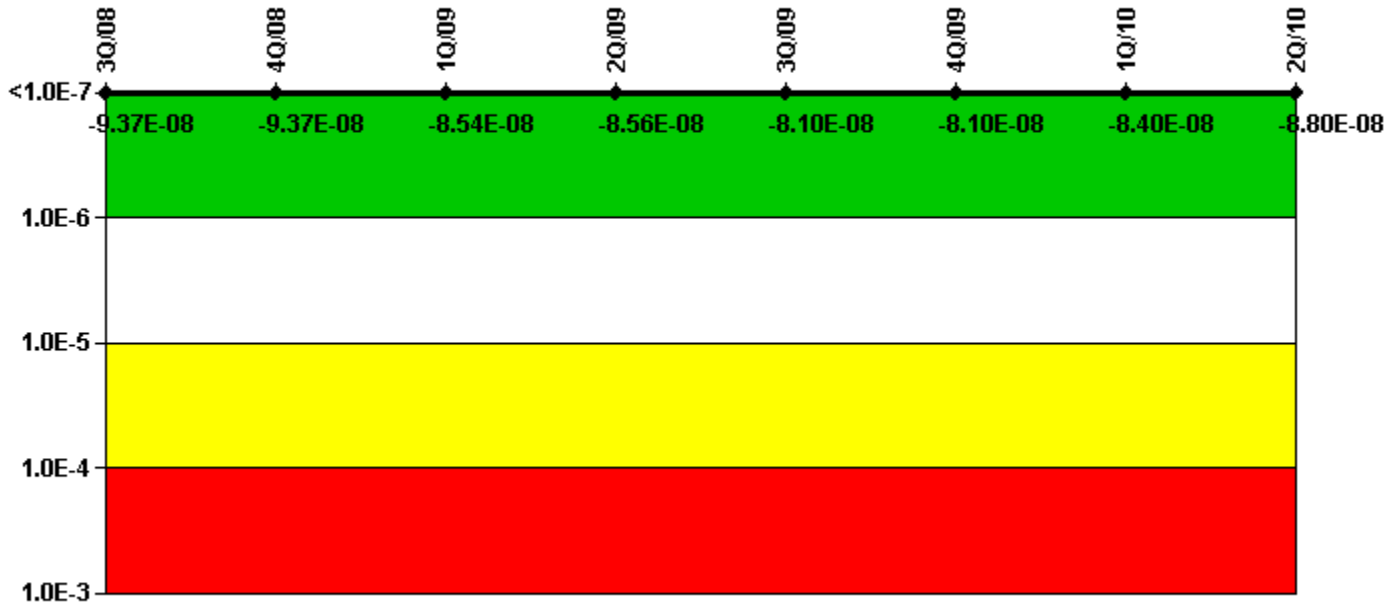
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	-7.10E-10	-4.40E-10	-5.30E-09	-5.40E-09	-1.60E-09	-1.60E-09	4.20E-09	4.99E-09
URI ( $\Delta$ CDF)	-2.40E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.14E-08	-2.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.47E-08	-2.44E-08	-2.93E-08	-2.84E-08	-2.46E-08	-2.46E-08	-1.70E-08	-1.70E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



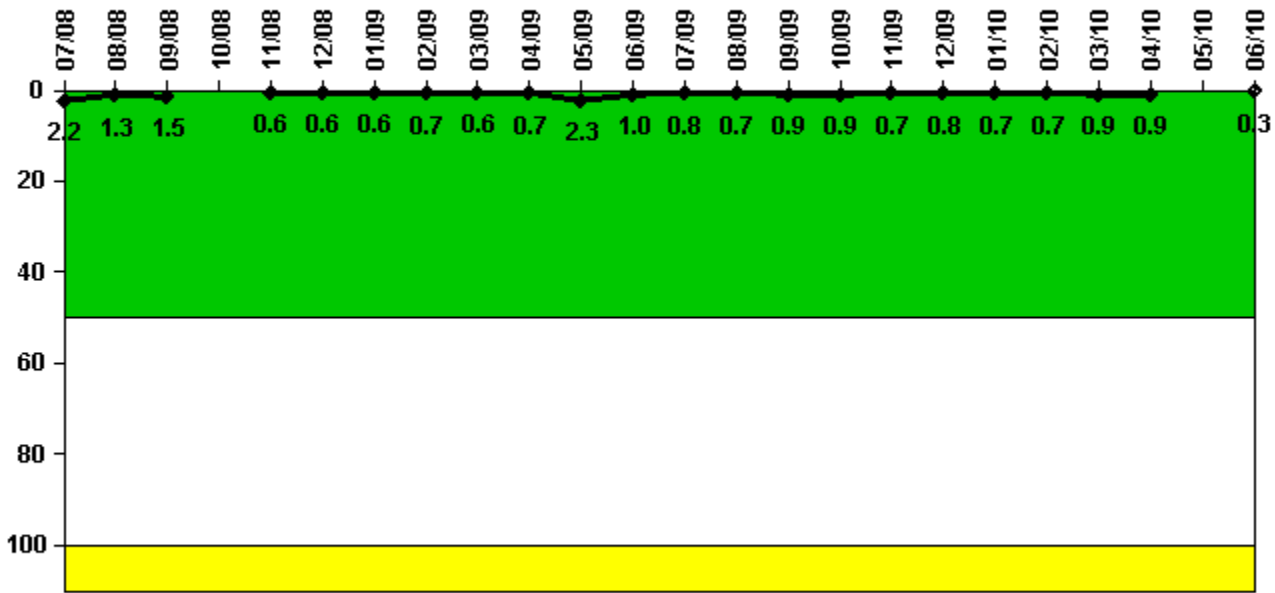
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI ( $\Delta$ CDF)	-1.70E-09	-1.70E-09	6.60E-09	6.40E-09	1.00E-08	1.00E-08	5.65E-09	2.33E-09
URI ( $\Delta$ CDF)	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.10E-08	-9.10E-08	-8.99E-08	-9.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.37E-08	-9.37E-08	-8.54E-08	-8.56E-08	-8.10E-08	-8.10E-08	-8.40E-08	-8.80E-08

Licensee Comments: none

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.004370	0.002590	0.003030	N/A	0.001140	0.001250	0.001130	0.001420	0.001160	0.001480	0.004630	0.001950
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	2.2	1.3	1.5	N/A	0.6	0.6	0.6	0.7	0.6	0.7	2.3	1.0

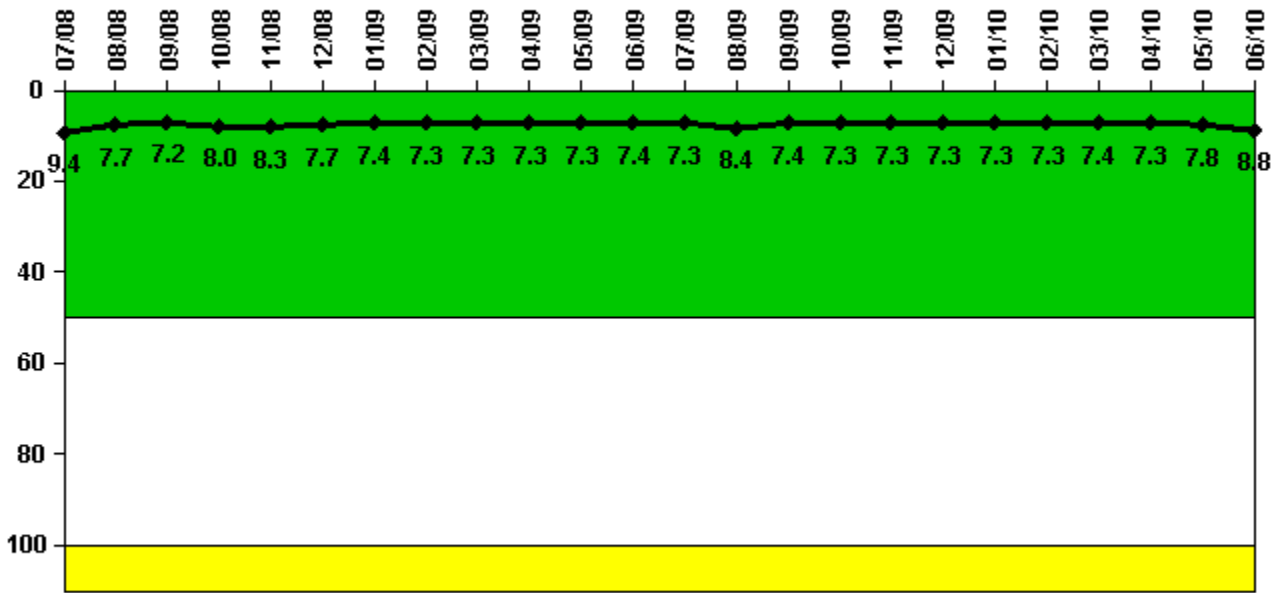
  

Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.001580	0.001400	0.001700	0.001740	0.001450	0.001600	0.001440	0.001440	0.001710	0.001850	N/A	0.000524
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.8	0.7	0.9	0.9	0.7	0.8	0.7	0.7	0.9	0.9	N/A	0.3

Licensee Comments: none



## Reactor Coolant System Leakage



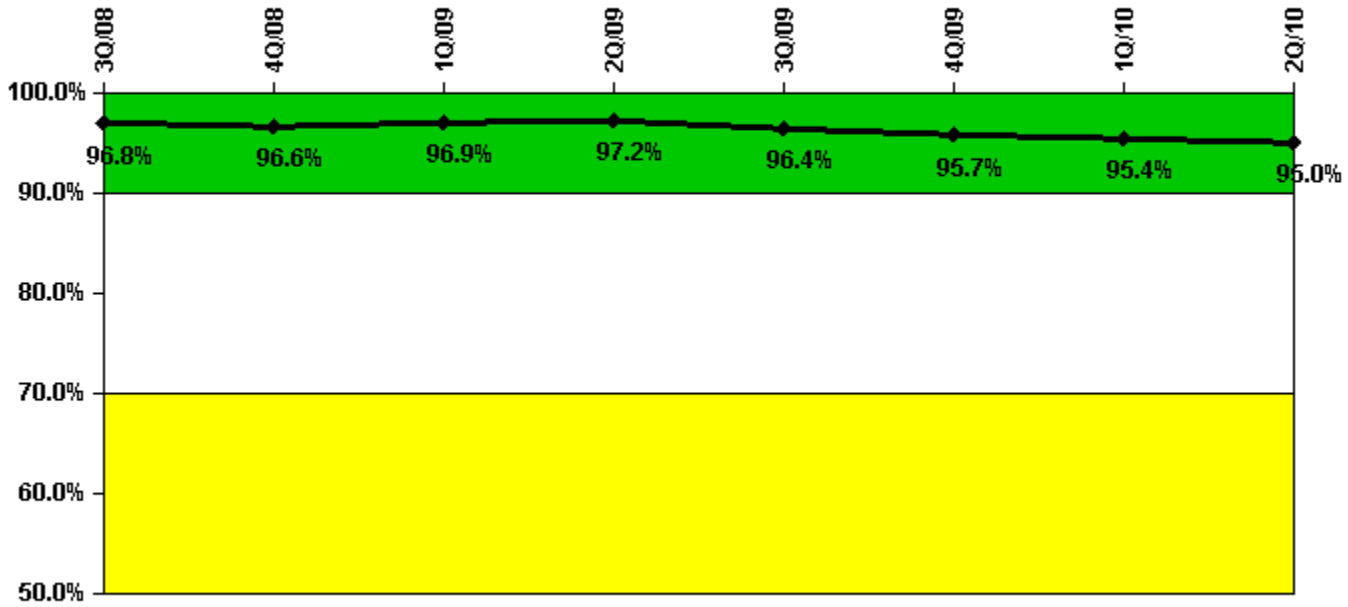
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	2.810	2.320	2.170	2.400	2.480	2.320	2.220	2.180	2.190	2.190	2.190	2.220
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.4	7.7	7.2	8.0	8.3	7.7	7.4	7.3	7.3	7.3	7.3	7.4
Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	2.200	2.520	2.210	2.180	2.190	2.200	2.190	2.180	2.210	2.190	2.340	2.650
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.3	8.4	7.4	7.3	7.3	7.3	7.3	7.3	7.4	7.3	7.8	8.8

Licensee Comments: none

## Drill/Exercise Performance



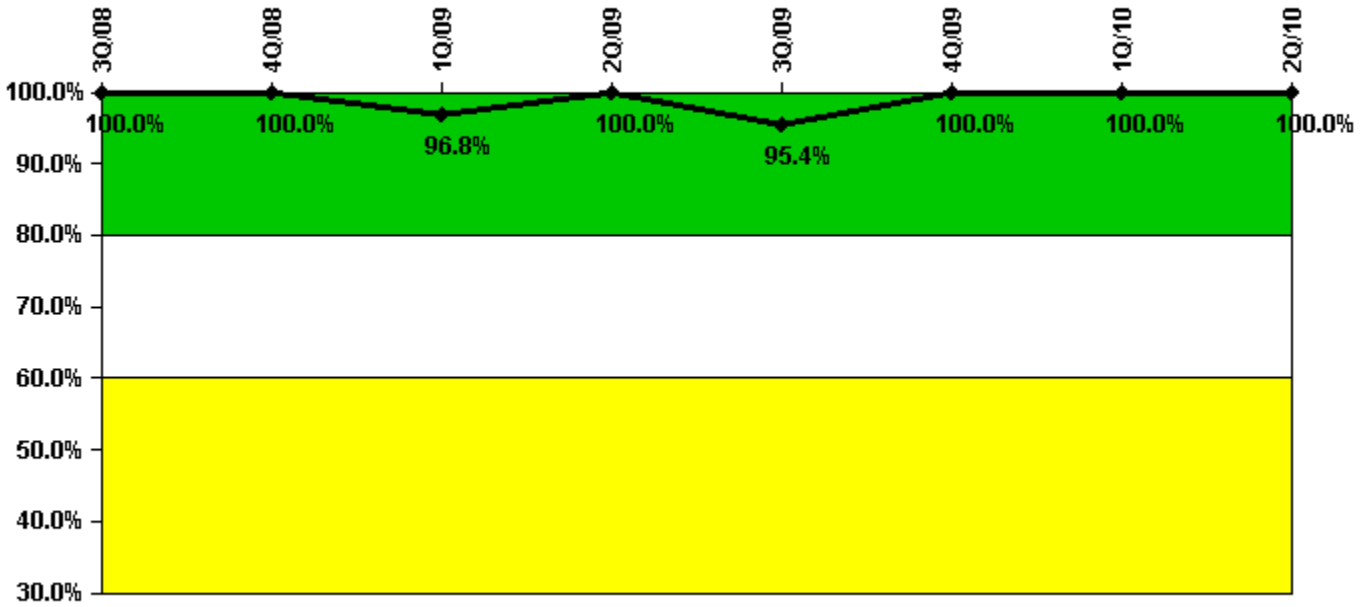
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	10.0	1.0	2.0	18.0	32.0	18.0	10.0	24.0
Total opportunities	10.0	2.0	2.0	18.0	34.0	18.0	12.0	25.0
<b>Indicator value</b>	<b>96.8%</b>	<b>96.6%</b>	<b>96.9%</b>	<b>97.2%</b>	<b>96.4%</b>	<b>95.7%</b>	<b>95.4%</b>	<b>95.0%</b>

Licensee Comments: none

## ERO Drill Participation



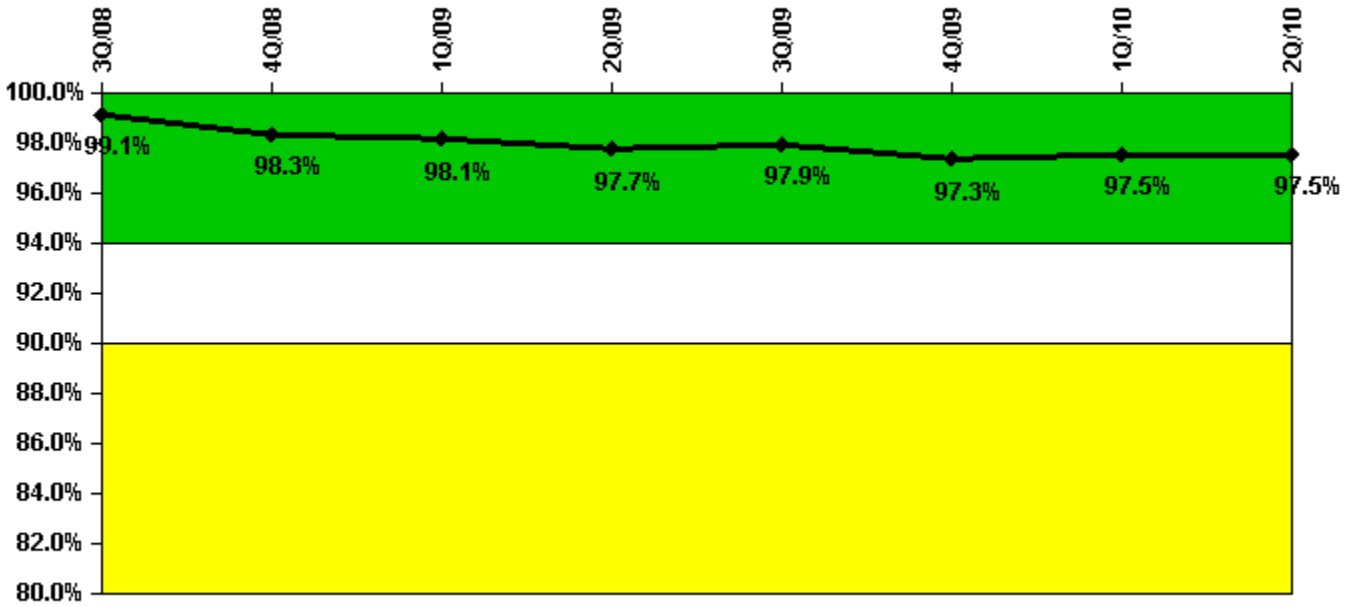
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	84.0	81.0	61.0	61.0	62.0	64.0	64.0	64.0
Total Key personnel	84.0	81.0	63.0	61.0	65.0	64.0	64.0	64.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>96.8%</b>	<b>100.0%</b>	<b>95.4%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments: none

# Alert & Notification System



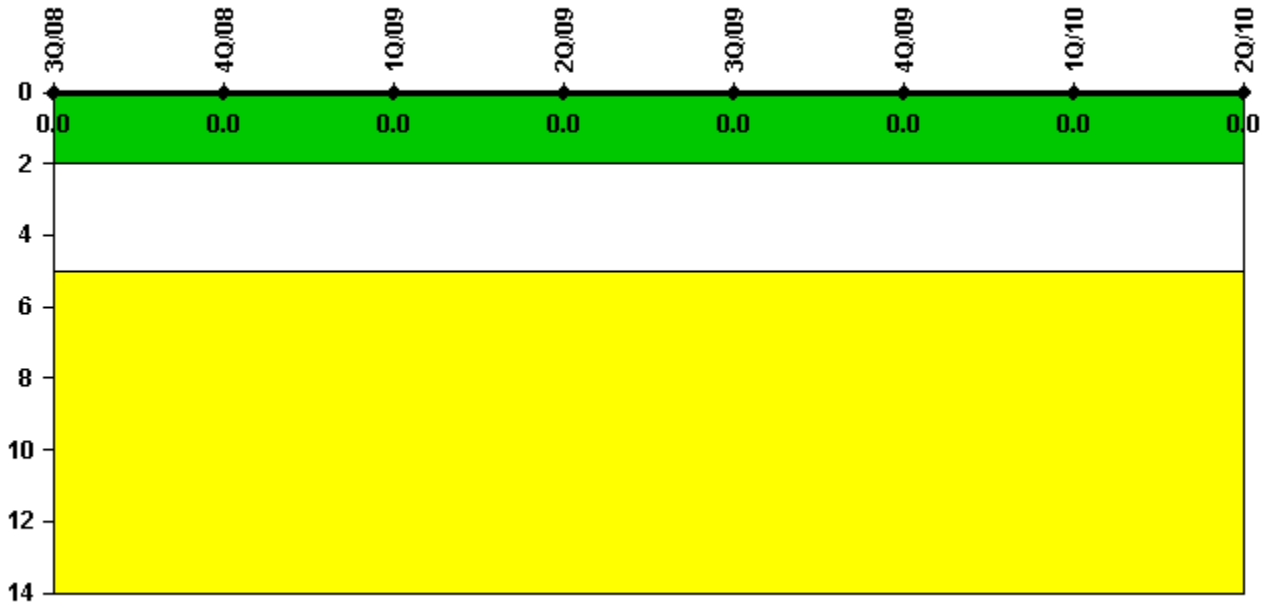
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	82	125	126	127	127	122	127	126
Total sirens-tests	84	129	129	129	129	129	129	128
<b>Indicator value</b>	<b>99.1%</b>	<b>98.3%</b>	<b>98.1%</b>	<b>97.7%</b>	<b>97.9%</b>	<b>97.3%</b>	<b>97.5%</b>	<b>97.5%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



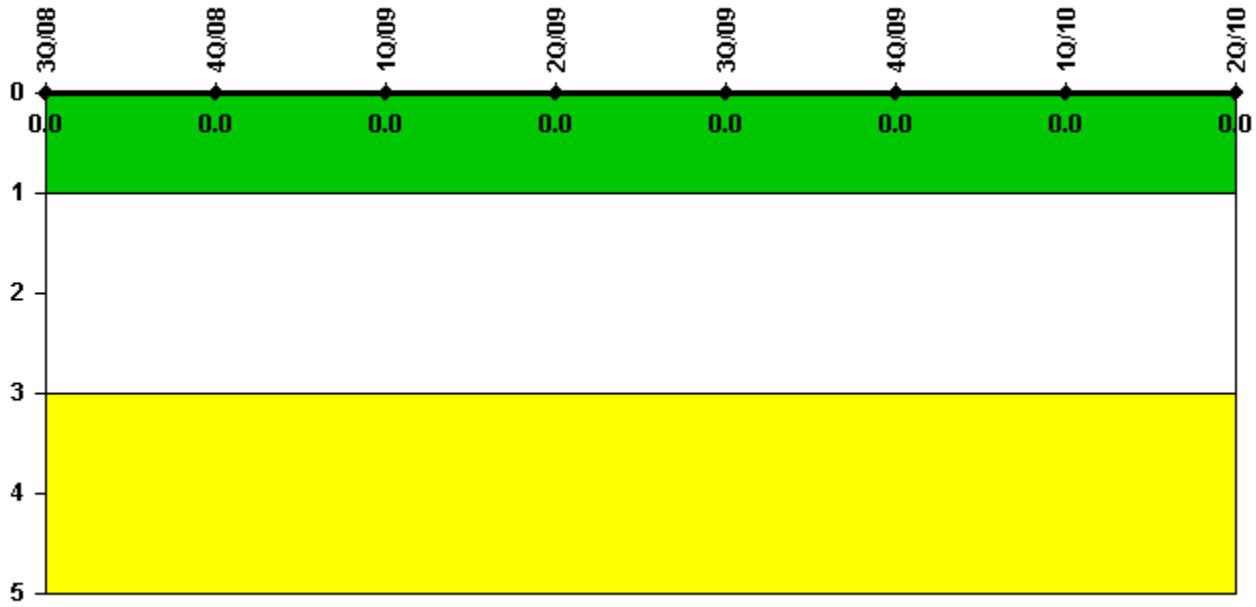
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

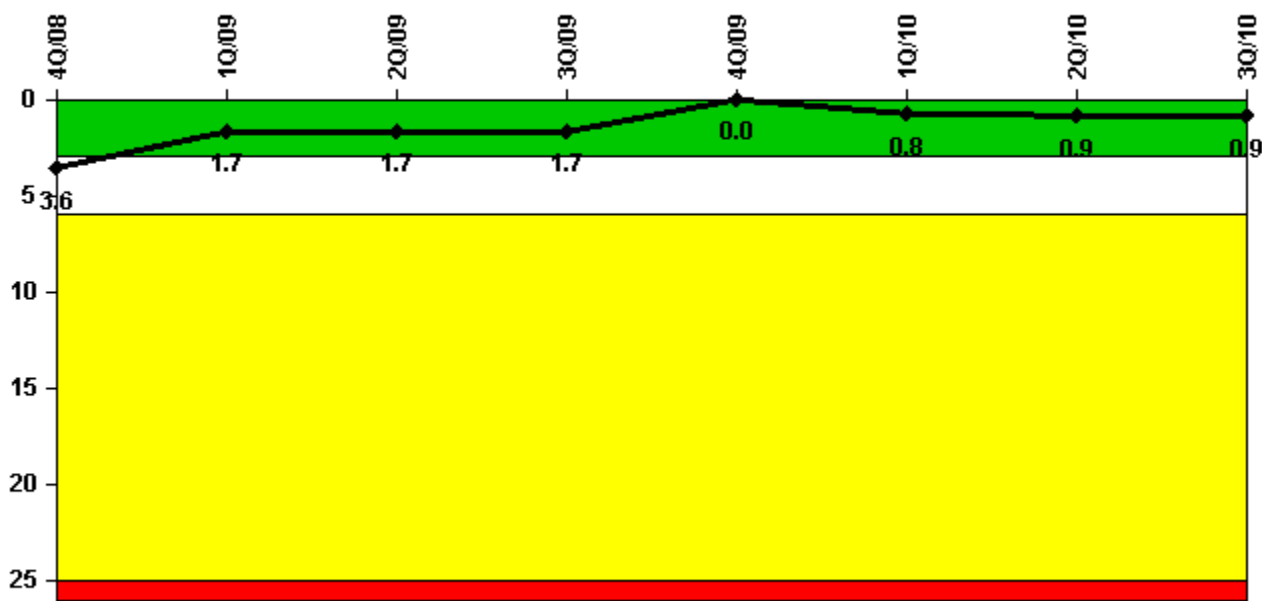
[Security](#) information not publicly available.

# Grand Gulf 1

## 3Q/2010 Performance Indicators

Licensee's General Comments: EP02 (ERO Drill Participation) - One additional ERO member was assigned in June 2010 and was not included in the 2nd Quarter 2010 PI submittal. The participation result is revised from 64 to 65. The Performance Indicator color (green) is unaffected. PP01 (PA Equipment Performance) - 1st and 2nd Quarter 2006 IDS normalization factors (unit pedigree date) were corrected. In 2006, 7 new zones were added in a security upgrade project - three in February 2006 and four in April 2006. However, the IDS normalization factor (1.6) was not changed in February to account for the 3 new zones. The correction results in a new IDS normalization factor of 1.70 effective 02/2006, and 1.90 effective 04/2006. The Performance Indicator color (green) is unaffected.

### Unplanned Scrams per 7000 Critical Hrs



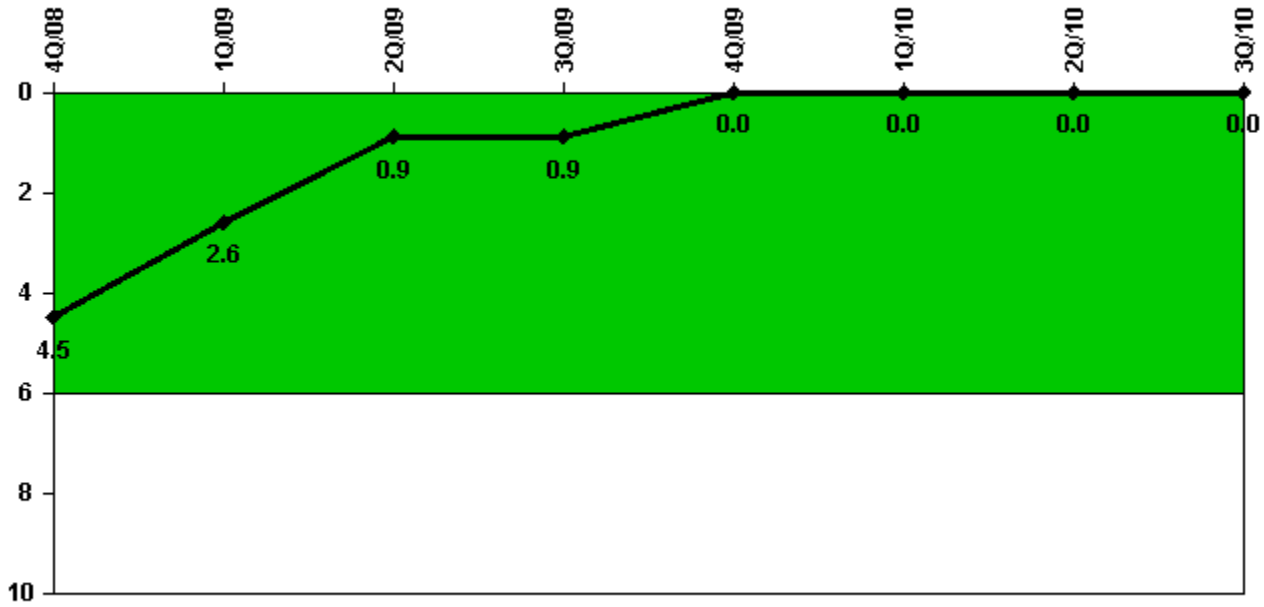
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	2.0	0	0	0	0	1.0	0	0
Critical hours	1671.7	2159.0	2184.0	2208.0	2209.0	2094.0	1506.9	2208.0
<b>Indicator value</b>	<b>3.6</b>	<b>1.7</b>	<b>1.7</b>	<b>1.7</b>	<b>0</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

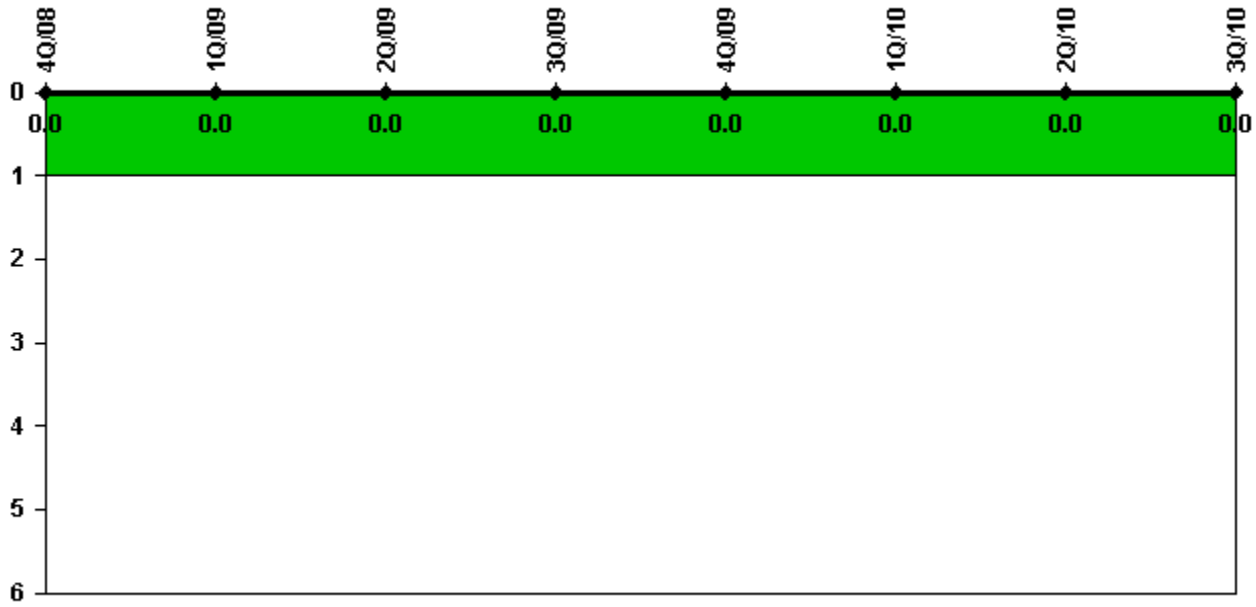
### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	1671.7	2159.0	2184.0	2208.0	2209.0	2094.0	1506.9	2208.0
<b>Indicator value</b>	<b>4.5</b>	<b>2.6</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none



## Unplanned Scrams with Complications



Thresholds: White > 1.0

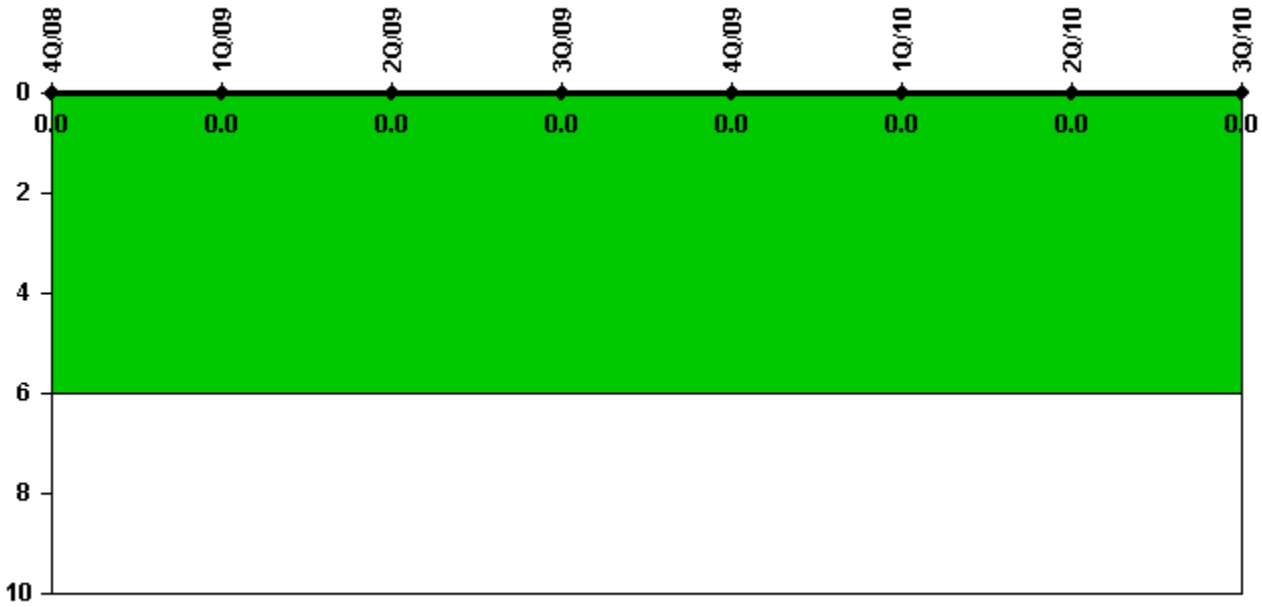
### Notes

Unplanned Scrams with Complications	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

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## Safety System Functional Failures (BWR)



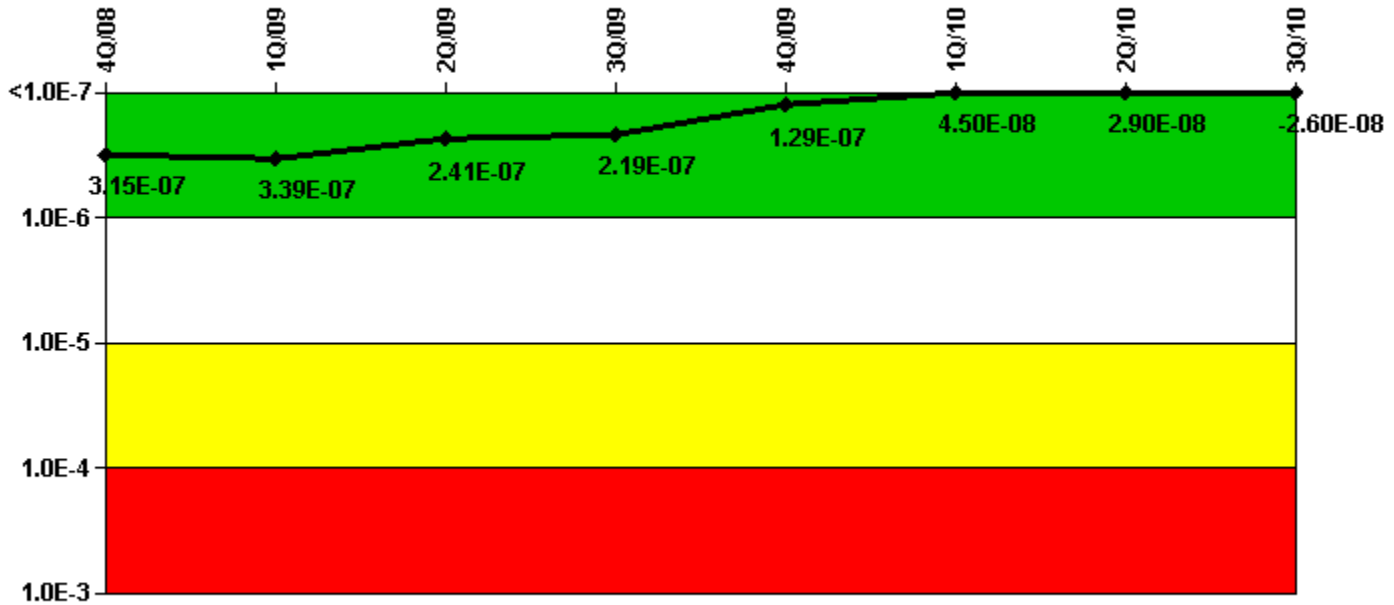
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
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	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	2.50E-08	3.90E-08	2.10E-08	1.90E-08	1.90E-08	1.36E-08	5.46E-10	-4.41E-09
URI ( $\Delta$ CDF)	2.90E-07	3.00E-07	2.20E-07	2.00E-07	1.10E-07	3.13E-08	2.85E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.15E-07	3.39E-07	2.41E-07	2.19E-07	1.29E-07	4.50E-08	2.90E-08	-2.60E-08

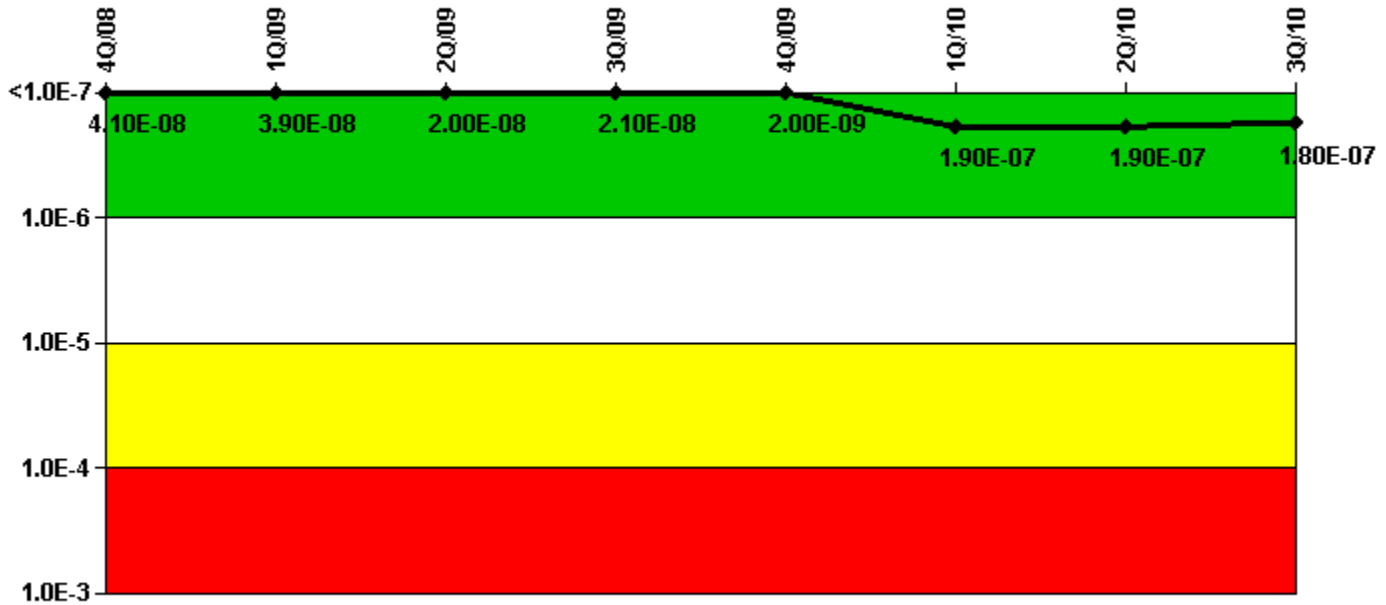
Licensee Comments:

3Q/08: Revision 3 of the GGNS PRA was issued on June 30, 2008. Revision 3 was a major update that included the update of plant specific data, initiator frequencies (both plant specific and generic), common cause analyses, human reliability analyses; the addition of several new initiators; and changes to the modeling of offsite power. The revision has resulted in a new overall core damage frequency, changes to the Fussell-Vesely importance of all of the MSPI related basic events and changes to the probability of many of the MSPI related basic events.

3Q/06: Risk Cap Invoked.

2Q/06: Risk Cap Invoked. An additional review of the failure description category for a June, 2004 EDG station failure occurrence resulted in a determination that the failure was improperly characterized. The initial failure description was a start failure while it should have been characterized as a failure of the ability to meet mission time.

# Mitigating Systems Performance Index, High Pressure Injection System



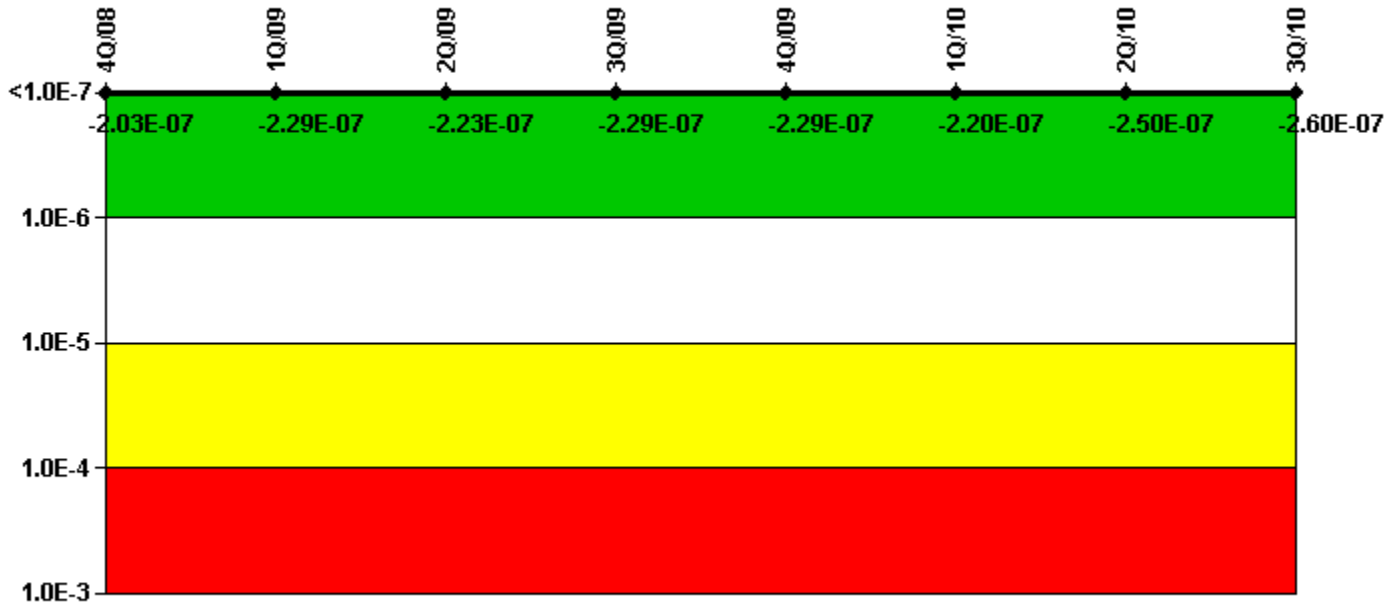
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	9.30E-08	9.10E-08	6.90E-08	6.70E-08	5.20E-08	2.47E-07	2.40E-07	2.30E-07
URI (ΔCDF)	-5.20E-08	-5.20E-08	-4.90E-08	-4.60E-08	-5.00E-08	-5.67E-08	-5.33E-08	-5.34E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.10E-08	3.90E-08	2.00E-08	2.10E-08	2.00E-09	1.90E-07	1.90E-07	1.80E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



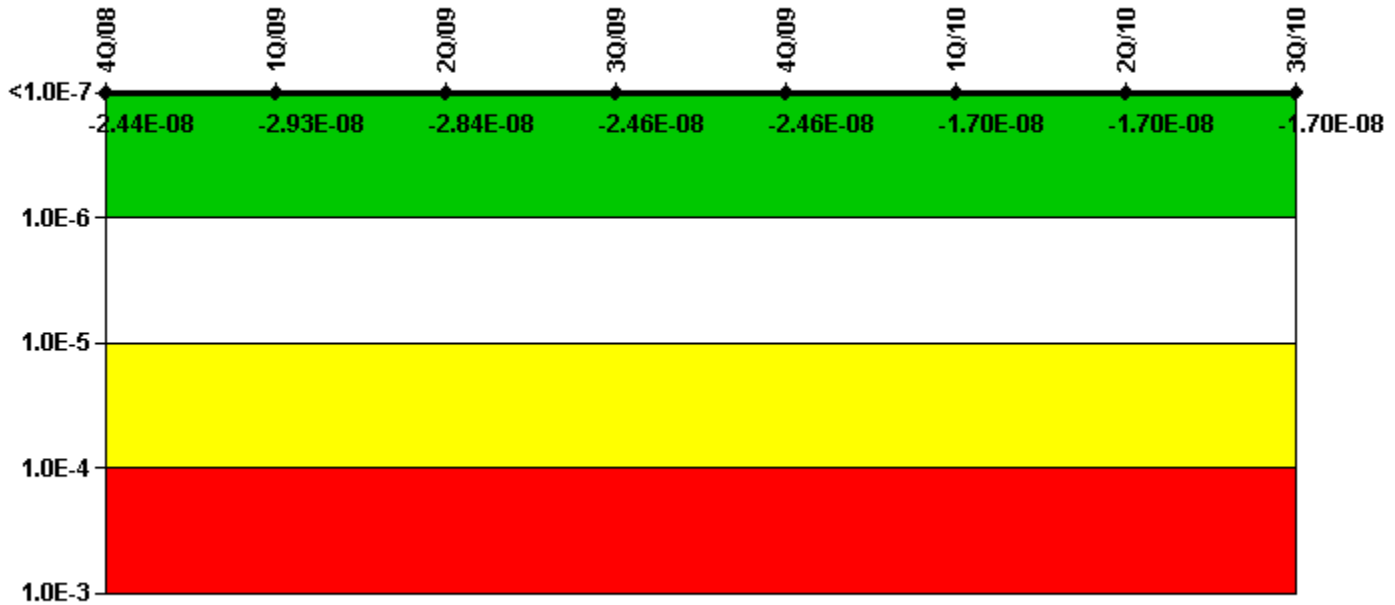
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	-2.90E-09	-1.90E-08	-1.30E-08	-1.90E-08	-1.90E-08	-1.99E-08	-5.30E-08	-5.31E-08
URI ( $\Delta$ CDF)	-2.00E-07	-2.10E-07	-2.10E-07	-2.10E-07	-2.10E-07	-2.00E-07	-2.01E-07	-2.07E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.03E-07	-2.29E-07	-2.23E-07	-2.29E-07	-2.29E-07	-2.20E-07	-2.50E-07	-2.60E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



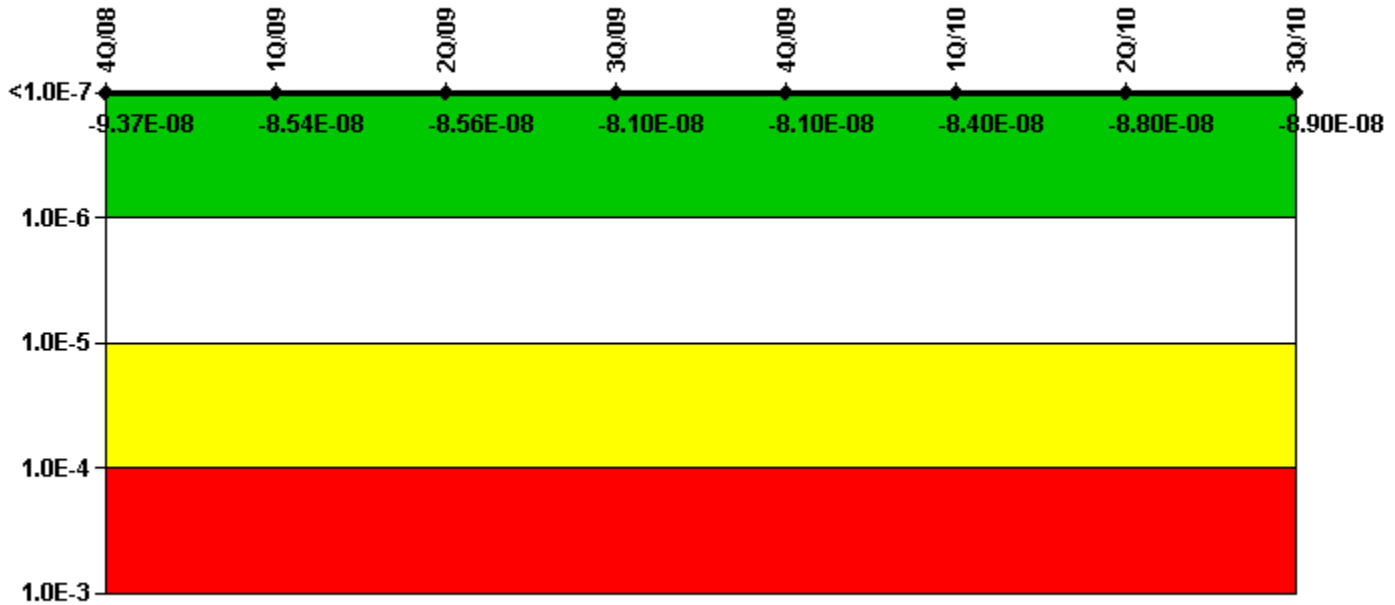
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	-4.40E-10	-5.30E-09	-5.40E-09	-1.60E-09	-1.60E-09	4.20E-09	4.99E-09	4.54E-09
URI ( $\Delta$ CDF)	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.14E-08	-2.21E-08	-2.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.44E-08	-2.93E-08	-2.84E-08	-2.46E-08	-2.46E-08	-1.70E-08	-1.70E-08	-1.70E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



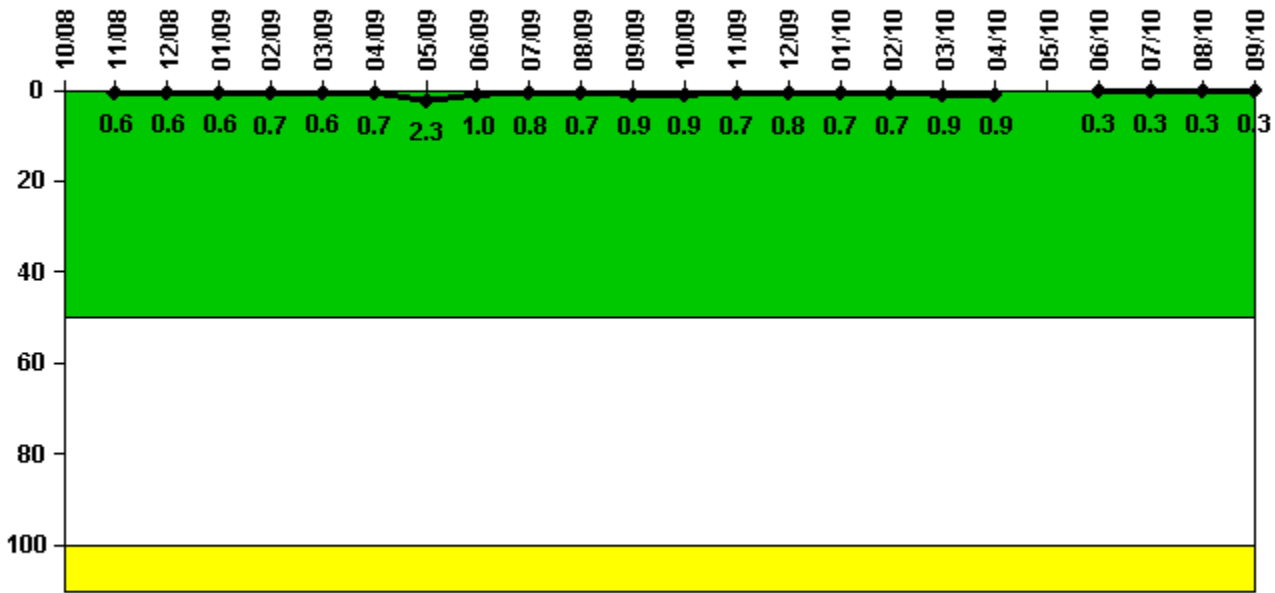
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	-1.70E-09	6.60E-09	6.40E-09	1.00E-08	1.00E-08	5.65E-09	2.33E-09	1.93E-09
URI ( $\Delta$ CDF)	-9.20E-08	-9.20E-08	-9.20E-08	-9.10E-08	-9.10E-08	-8.99E-08	-9.06E-08	-9.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.37E-08	-8.54E-08	-8.56E-08	-8.10E-08	-8.10E-08	-8.40E-08	-8.80E-08	-8.90E-08

Licensee Comments: none

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

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	N/A	0.001140	0.001250	0.001130	0.001420	0.001160	0.001480	0.004630	0.001950	0.001580	0.001400	0.001700
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	N/A	0.6	0.6	0.6	0.7	0.6	0.7	2.3	1.0	0.8	0.7	0.9

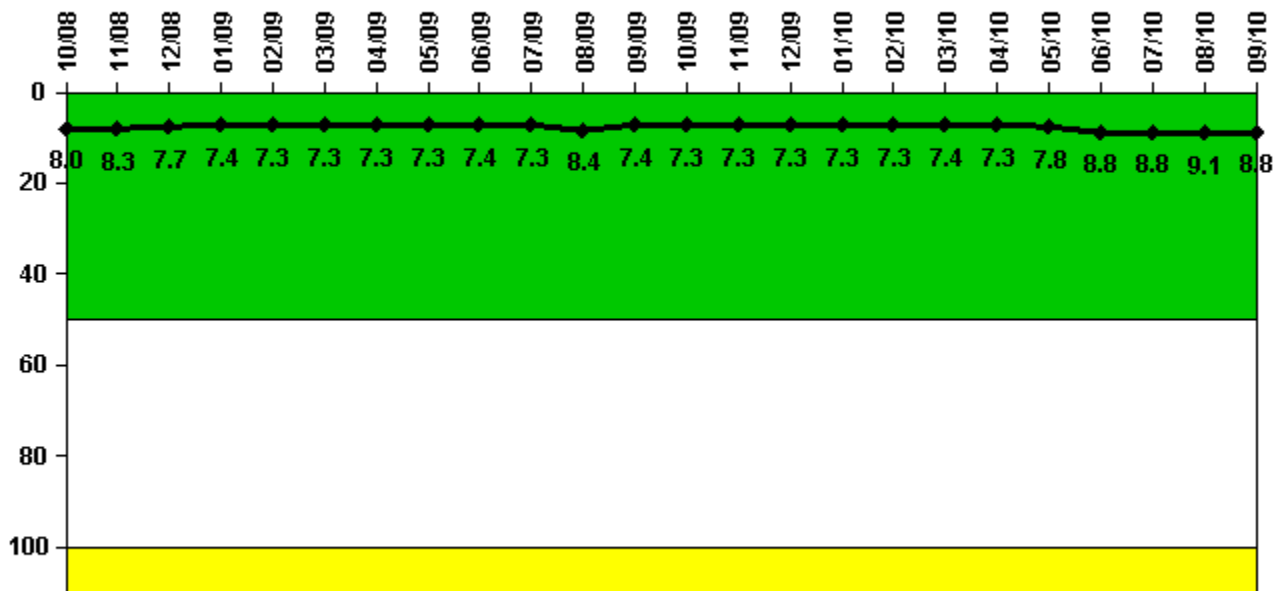
  

Reactor Coolant System Activity	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum activity	0.001740	0.001450	0.001600	0.001440	0.001440	0.001710	0.001850	N/A	0.000524	0.000565	0.000572	0.000555
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.9	0.7	0.8	0.7	0.7	0.9	0.9	N/A	0.3	0.3	0.3	0.3

Licensee Comments: none



# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

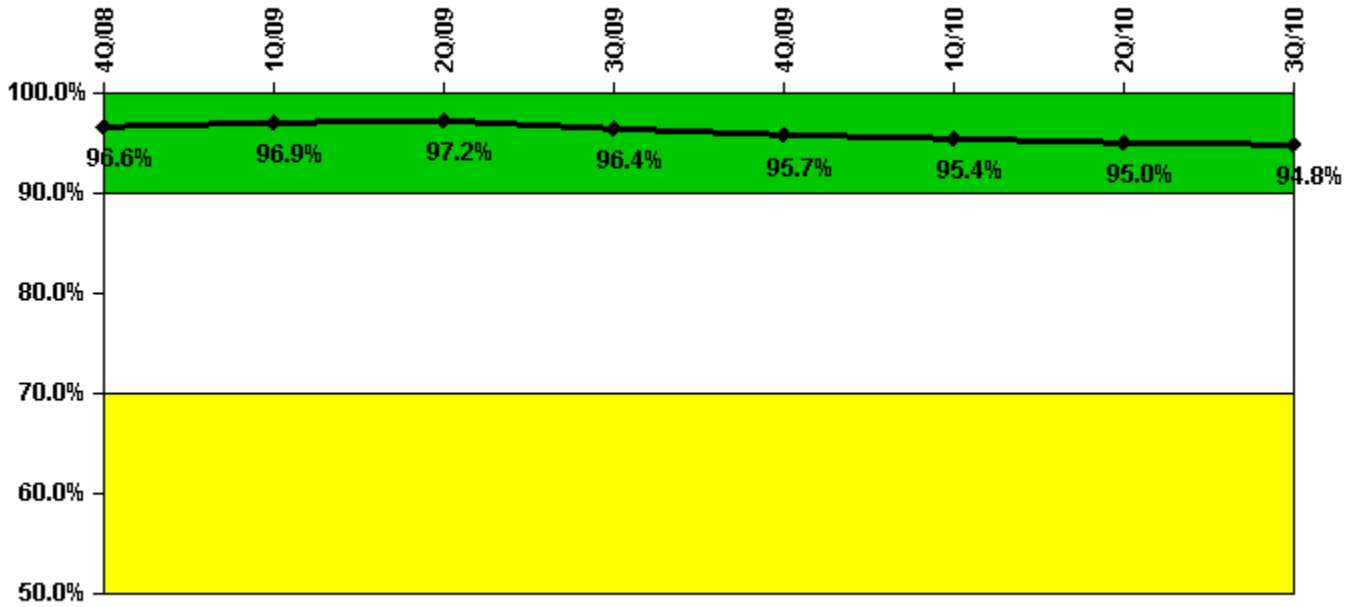
Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	2.400	2.480	2.320	2.220	2.180	2.190	2.190	2.190	2.220	2.200	2.520	2.210
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.0	8.3	7.7	7.4	7.3	7.3	7.3	7.3	7.4	7.3	8.4	7.4

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	2.180	2.190	2.200	2.190	2.180	2.210	2.190	2.340	2.650	2.650	2.720	2.640
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.3	7.3	7.3	7.3	7.3	7.4	7.3	7.8	8.8	8.8	9.1	8.8

Licensee Comments: none

## Drill/Exercise Performance



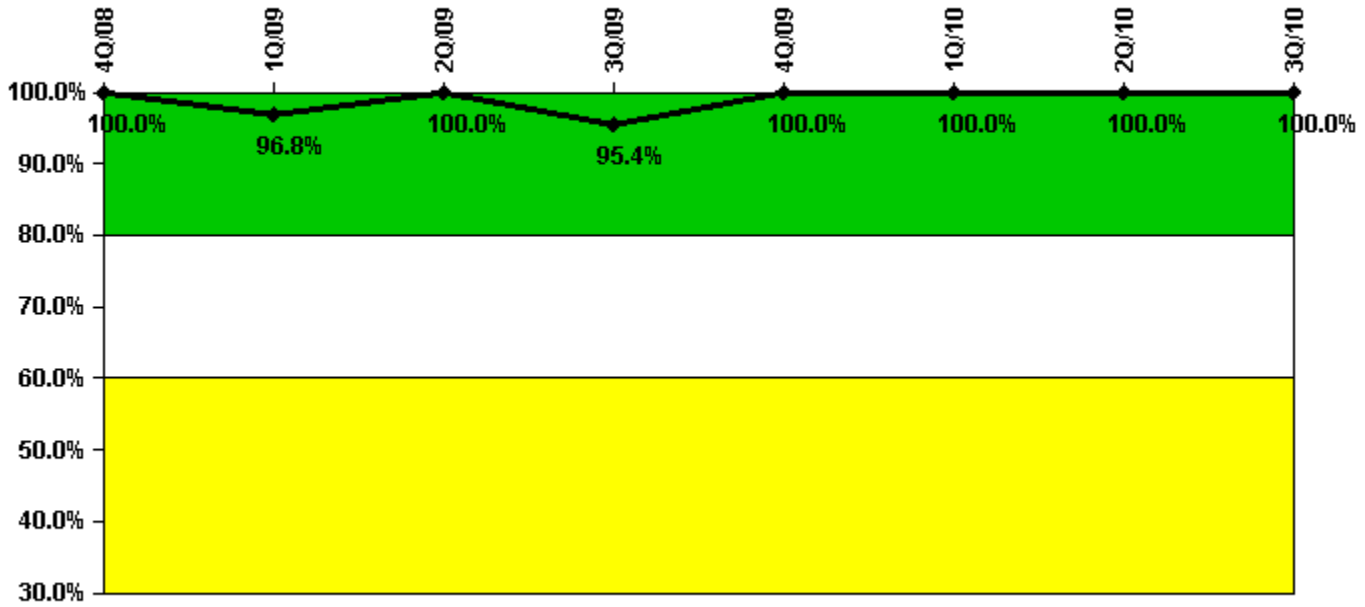
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	1.0	2.0	18.0	32.0	18.0	10.0	24.0	41.0
Total opportunities	2.0	2.0	18.0	34.0	18.0	12.0	25.0	43.0
<b>Indicator value</b>	<b>96.6%</b>	<b>96.9%</b>	<b>97.2%</b>	<b>96.4%</b>	<b>95.7%</b>	<b>95.4%</b>	<b>95.0%</b>	<b>94.8%</b>

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

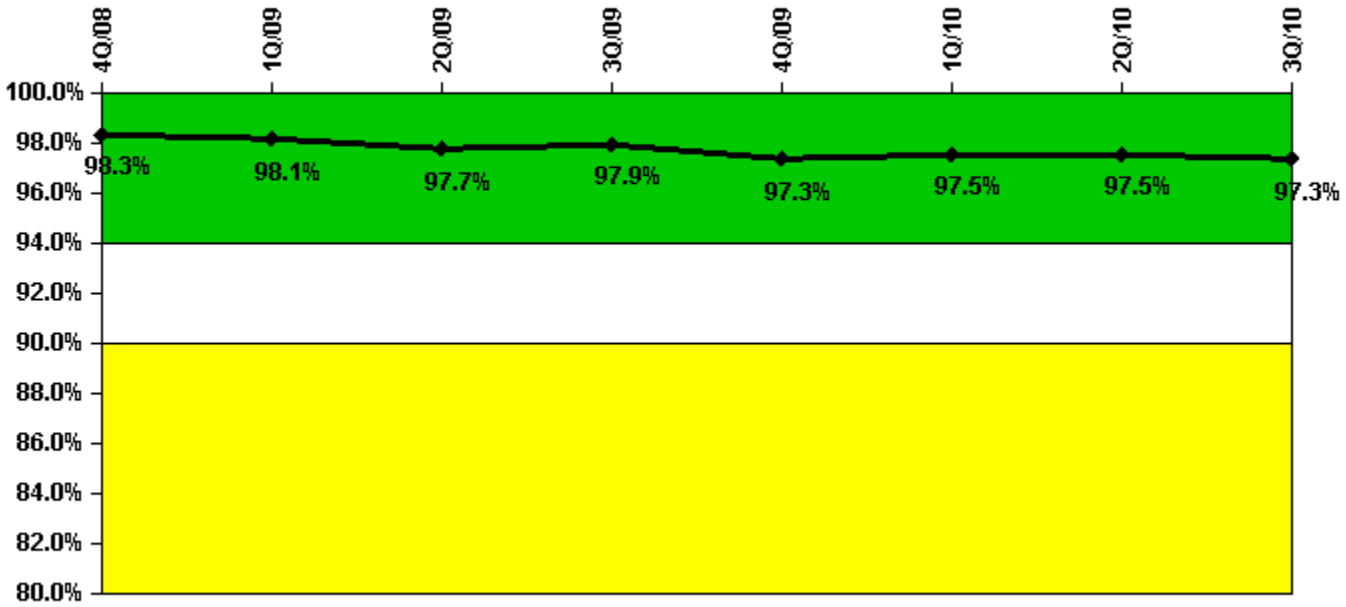
### Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	81.0	61.0	61.0	62.0	64.0	64.0	65.0	64.0
Total Key personnel	81.0	63.0	61.0	65.0	64.0	64.0	65.0	64.0
<b>Indicator value</b>	<b>100.0%</b>	<b>96.8%</b>	<b>100.0%</b>	<b>95.4%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments: none

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# Alert & Notification System



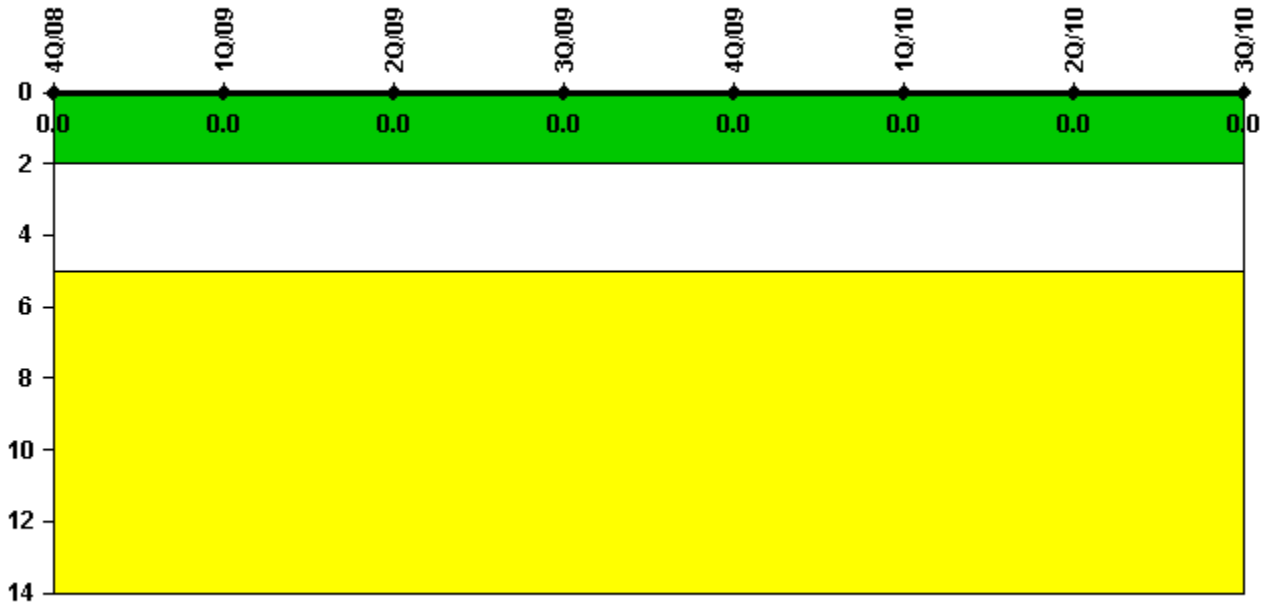
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	125	126	127	127	122	127	126	126
Total sirens-tests	129	129	129	129	129	129	128	129
<b>Indicator value</b>	<b>98.3%</b>	<b>98.1%</b>	<b>97.7%</b>	<b>97.9%</b>	<b>97.3%</b>	<b>97.5%</b>	<b>97.5%</b>	<b>97.3%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

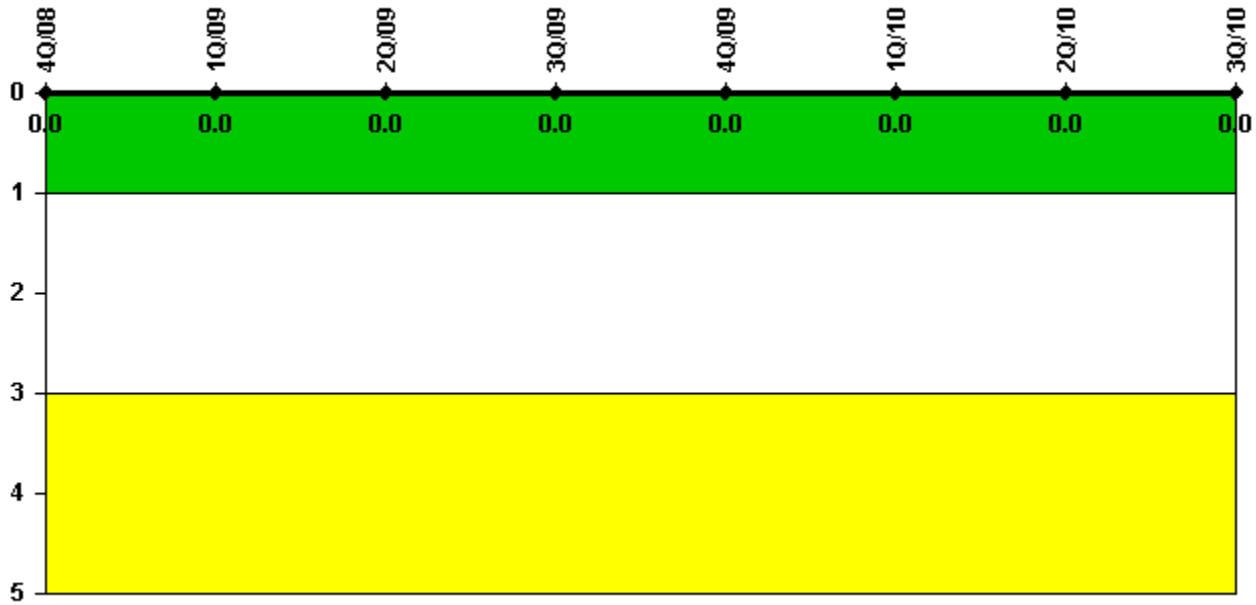
## Notes

Occupational Exposure Control Effectiveness	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

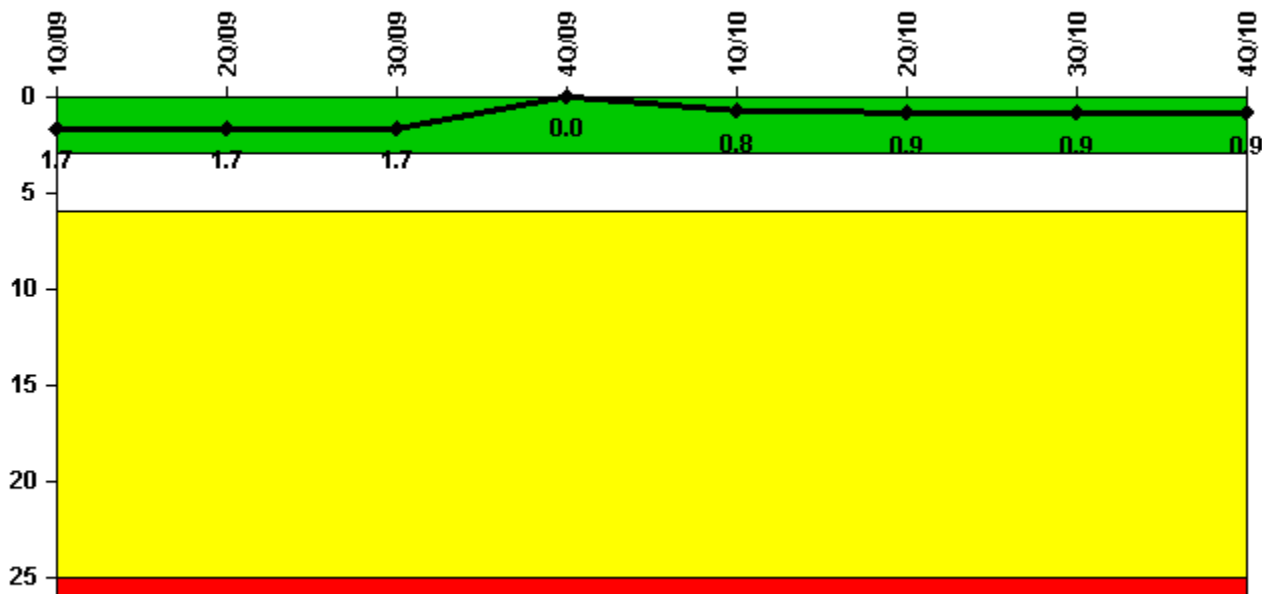
[Security](#) information not publicly available.

# Grand Gulf 1

## 4Q/2010 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



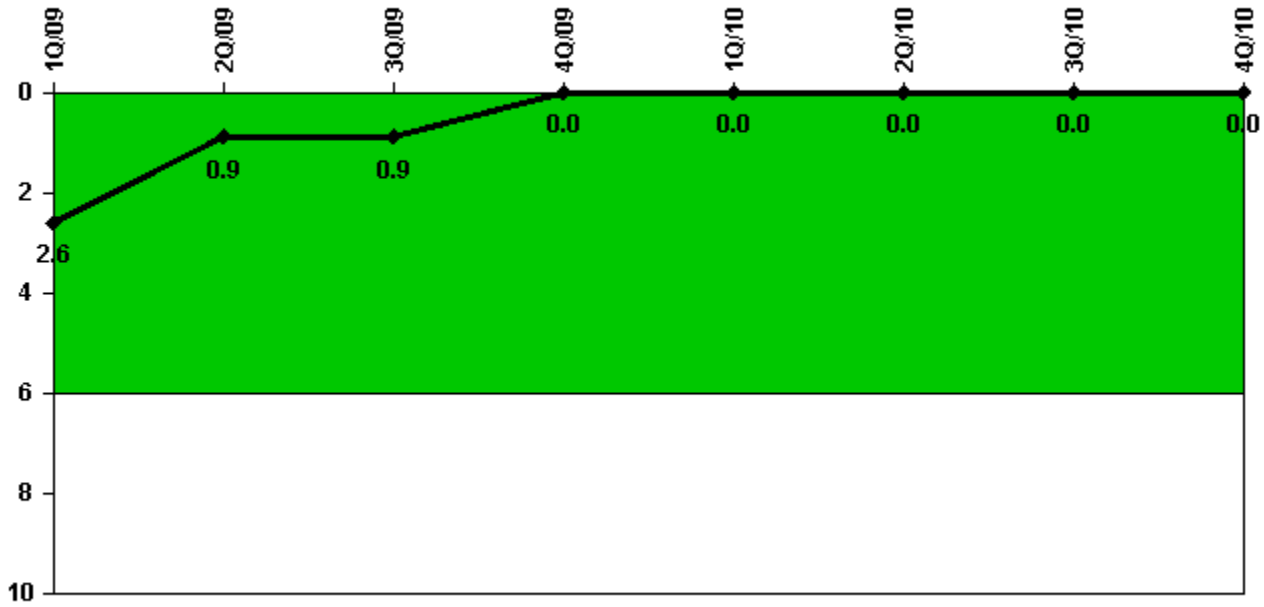
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	2094.0	1506.9	2208.0	2209.0
Indicator value	1.7	1.7	1.7	0	0.8	0.9	0.9	0.9

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

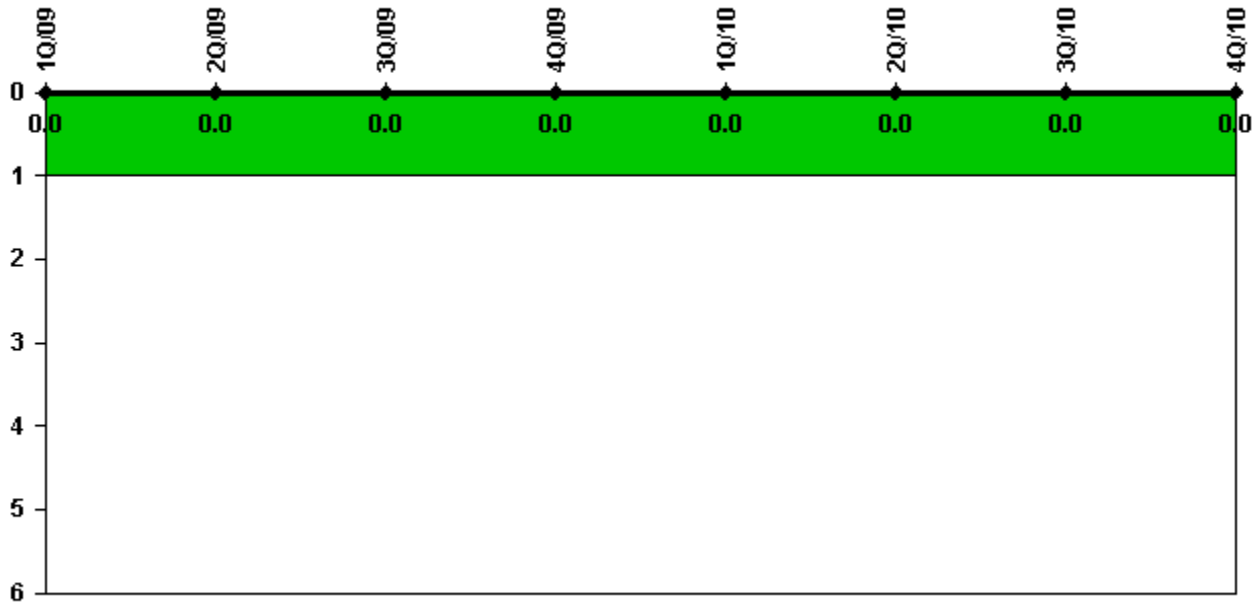
### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	2094.0	1506.9	2208.0	2209.0
<b>Indicator value</b>	<b>2.6</b>	<b>0.9</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none



## Unplanned Scrams with Complications



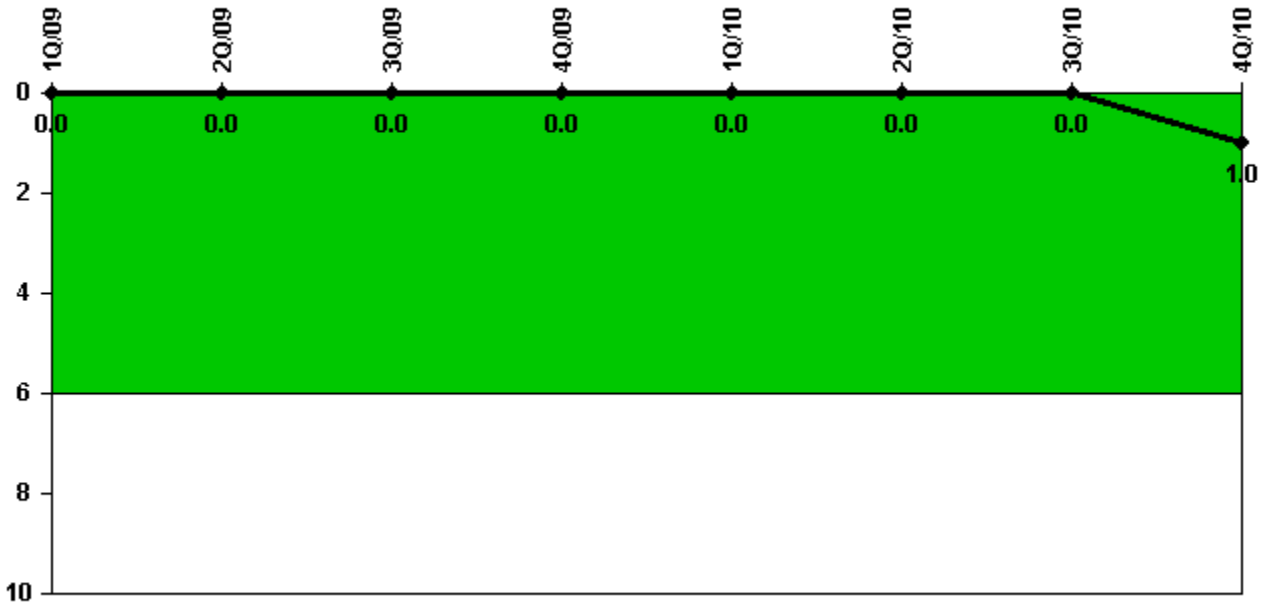
Thresholds: White > 1.0

### Notes

Unplanned Scrams with Complications	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

## Safety System Functional Failures (BWR)



Thresholds: White > 6.0

### Notes

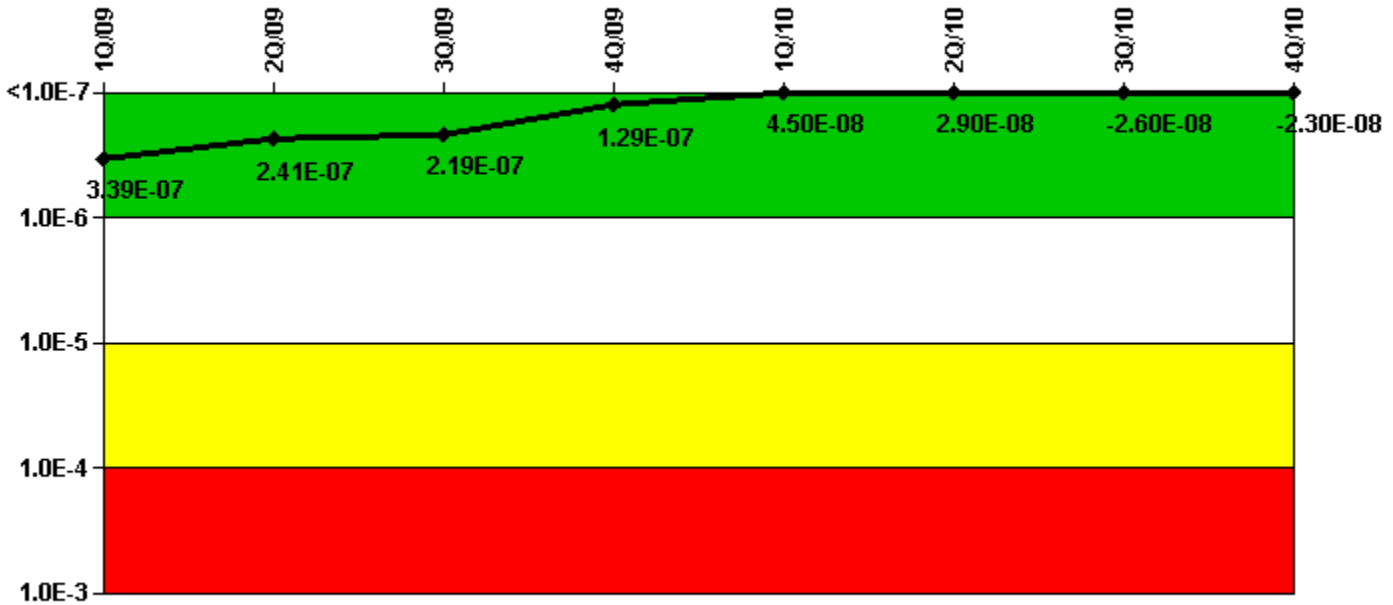
Safety System Functional Failures (BWR)	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Safety System Functional Failures	0	0	0	0	0	0	0	1
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>

Licensee Comments:

4Q/10: Reference GGNS LER 2010-002

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# Mitigating Systems Performance Index, Emergency AC Power System



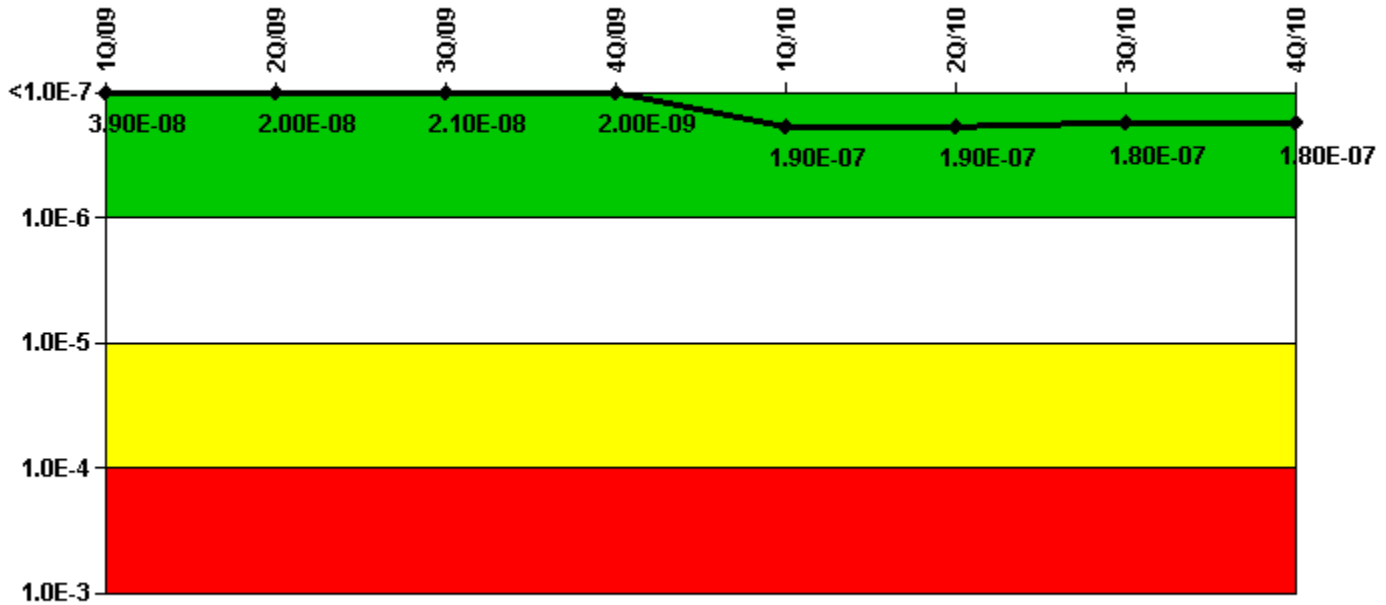
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	3.90E-08	2.10E-08	1.90E-08	1.90E-08	1.36E-08	5.46E-10	-4.41E-09	-4.44E-09
URI ( $\Delta$ CDF)	3.00E-07	2.20E-07	2.00E-07	1.10E-07	3.13E-08	2.85E-08	-2.20E-08	-1.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.39E-07	2.41E-07	2.19E-07	1.29E-07	4.50E-08	2.90E-08	-2.60E-08	-2.30E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



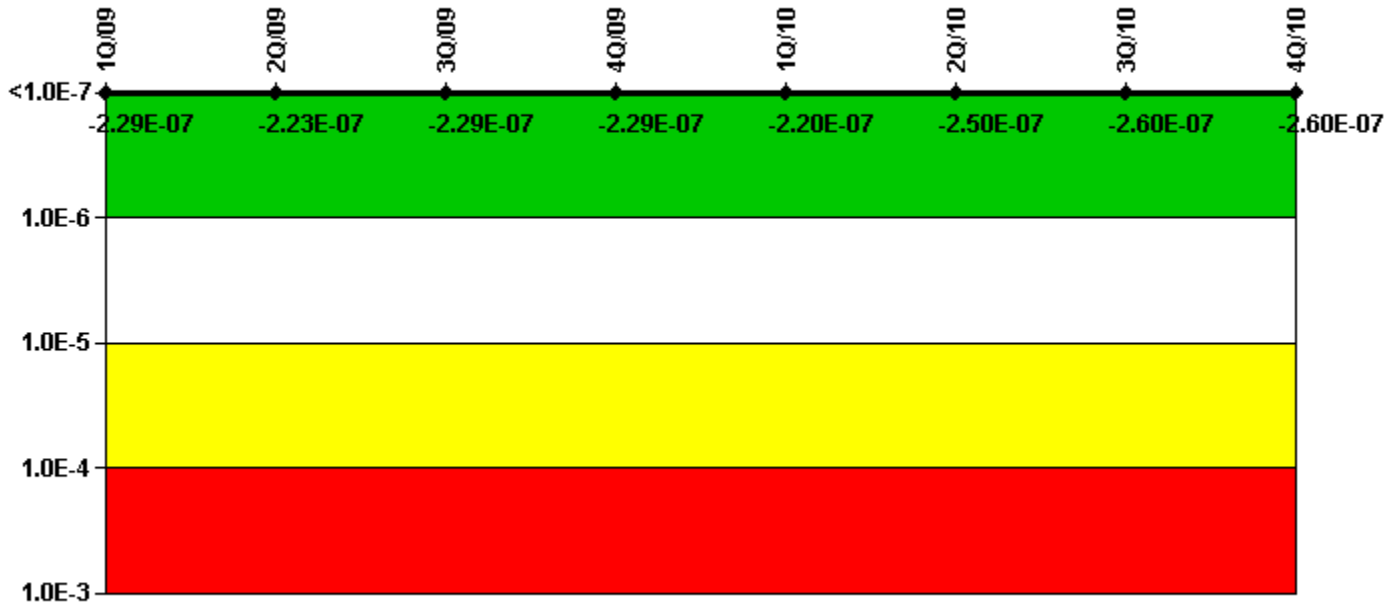
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	9.10E-08	6.90E-08	6.70E-08	5.20E-08	2.47E-07	2.40E-07	2.30E-07	2.30E-07
URI ( $\Delta$ CDF)	-5.20E-08	-4.90E-08	-4.60E-08	-5.00E-08	-5.67E-08	-5.33E-08	-5.34E-08	-5.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.90E-08	2.00E-08	2.10E-08	2.00E-09	1.90E-07	1.90E-07	1.80E-07	1.80E-07

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/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	-1.90E-08	-1.30E-08	-1.90E-08	-1.90E-08	-1.99E-08	-5.30E-08	-5.31E-08	-5.31E-08
URI ( $\Delta$ CDF)	-2.10E-07	-2.10E-07	-2.10E-07	-2.10E-07	-2.00E-07	-2.01E-07	-2.07E-07	-2.03E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.29E-07	-2.23E-07	-2.29E-07	-2.29E-07	-2.20E-07	-2.50E-07	-2.60E-07	-2.60E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



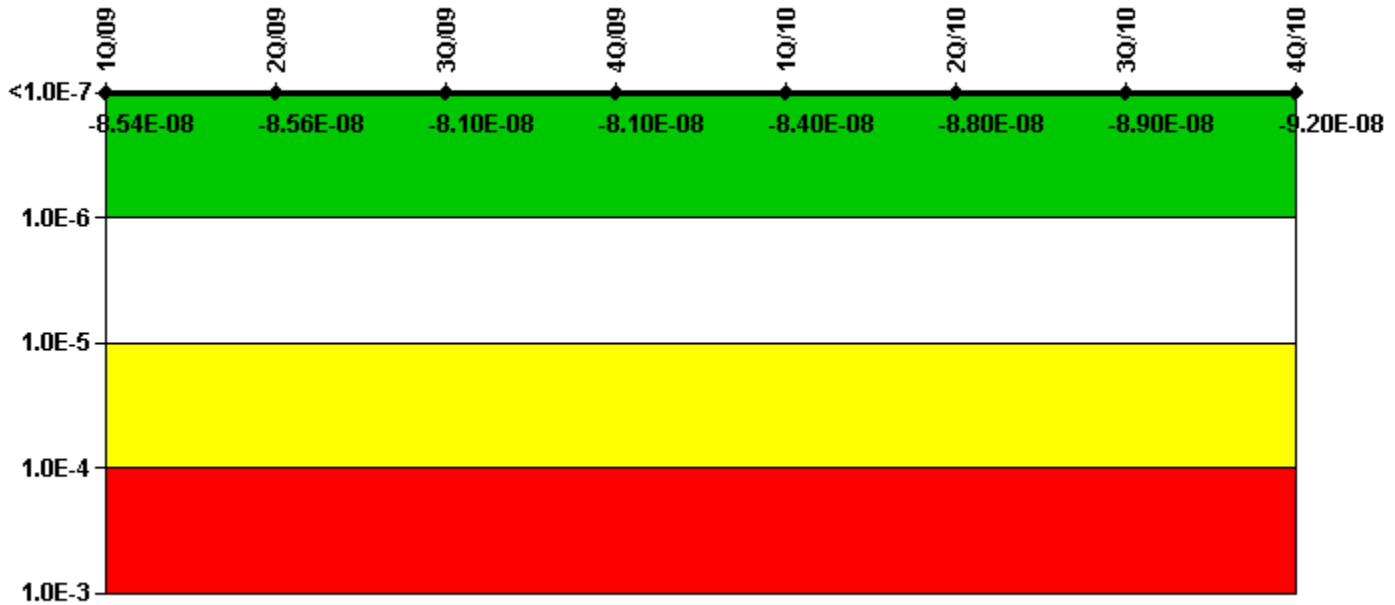
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	-5.30E-09	-5.40E-09	-1.60E-09	-1.60E-09	4.20E-09	4.99E-09	4.54E-09	-4.65E-09
URI ( $\Delta$ CDF)	-2.40E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.14E-08	-2.21E-08	-2.17E-08	-2.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.93E-08	-2.84E-08	-2.46E-08	-2.46E-08	-1.70E-08	-1.70E-08	-1.70E-08	-2.60E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



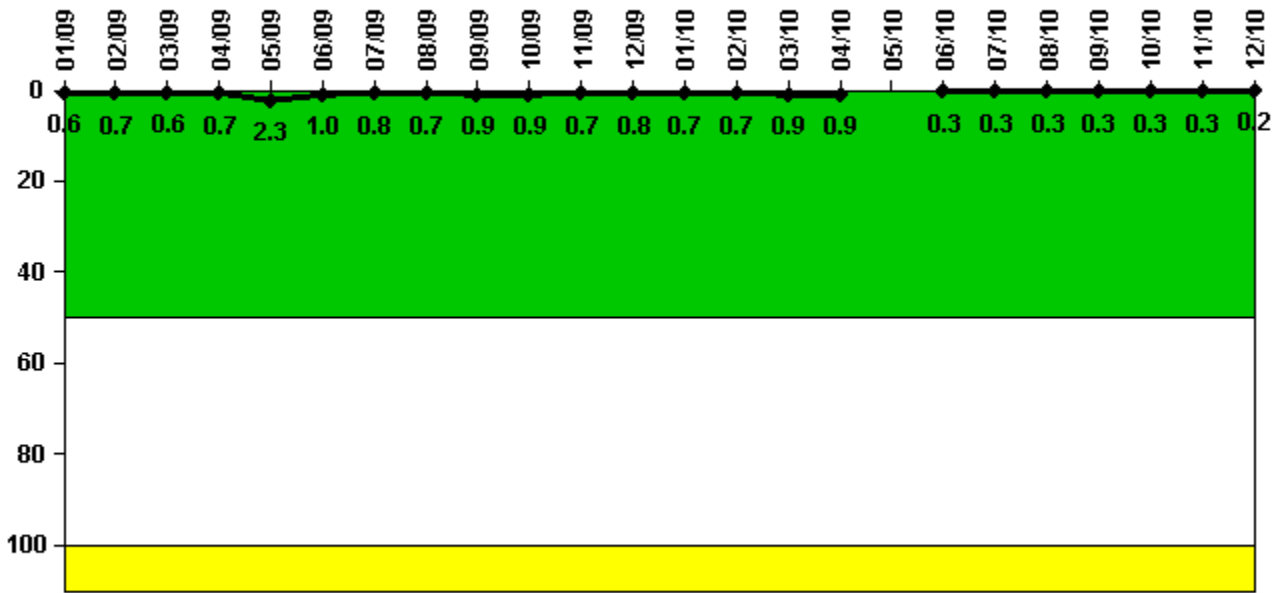
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	6.60E-09	6.40E-09	1.00E-08	1.00E-08	5.65E-09	2.33E-09	1.93E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.20E-08	-9.20E-08	-9.10E-08	-9.10E-08	-8.99E-08	-9.06E-08	-9.05E-08	-9.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.54E-08	-8.56E-08	-8.10E-08	-8.10E-08	-8.40E-08	-8.80E-08	-8.90E-08	-9.20E-08

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

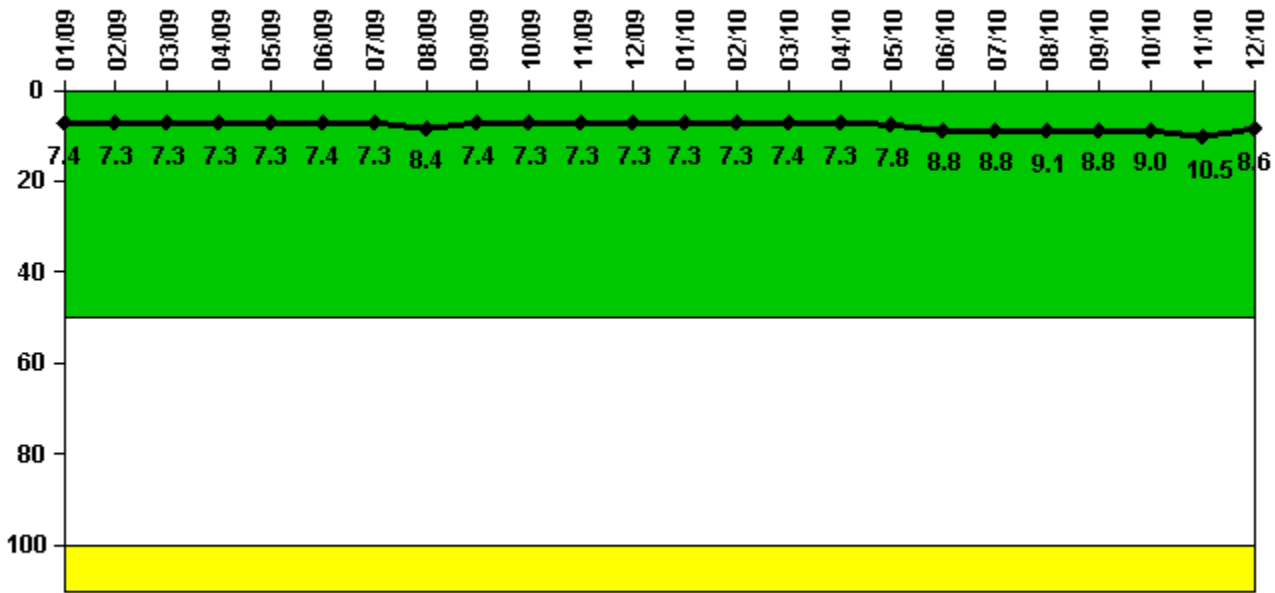
## Notes

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	0.001130	0.001420	0.001160	0.001480	0.004630	0.001950	0.001580	0.001400	0.001700	0.001740	0.001450	0.001600
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	0.6	0.7	0.6	0.7	2.3	1.0	0.8	0.7	0.9	0.9	0.7	0.8
Reactor Coolant System Activity	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum activity	0.001440	0.001440	0.001710	0.001850	N/A	0.000524	0.000565	0.000572	0.000555	0.000548	0.000532	0.000336
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	0.7	0.7	0.9	0.9	N/A	0.3	0.3	0.3	0.3	0.3	0.3	0.2

Licensee Comments: none



## Reactor Coolant System Leakage



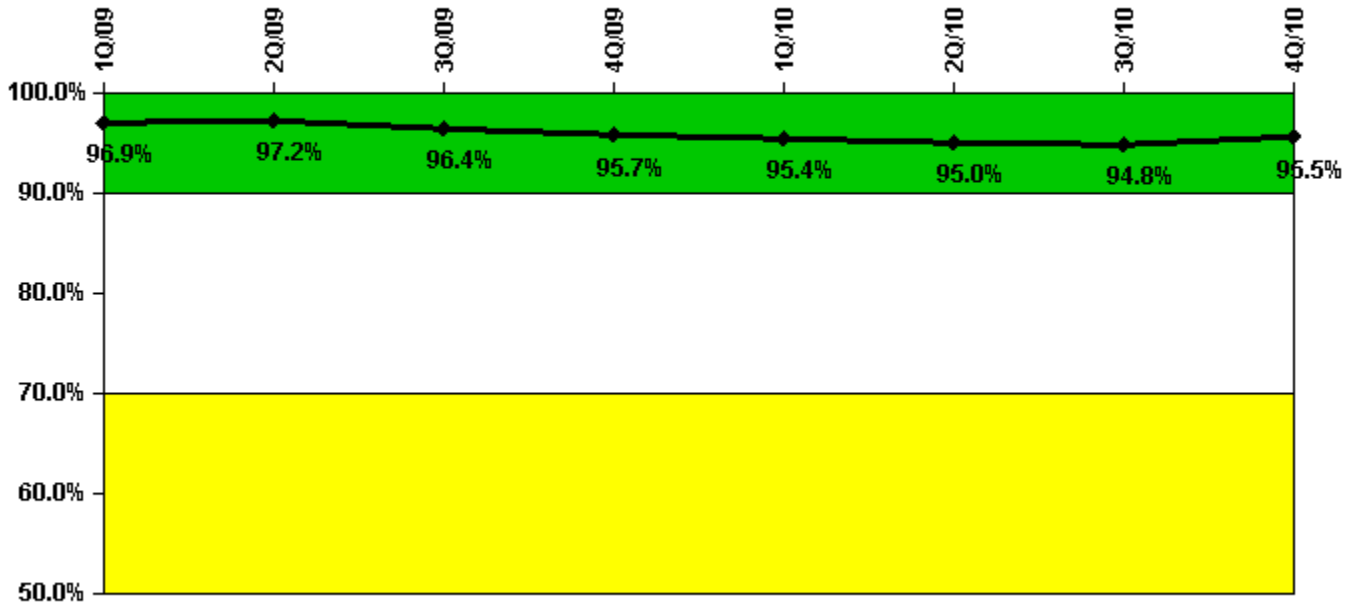
Thresholds: White > 50.0 Yellow > 100.0

### Notes

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	2.220	2.180	2.190	2.190	2.190	2.220	2.200	2.520	2.210	2.180	2.190	2.200
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.4	7.3	7.3	7.3	7.3	7.4	7.3	8.4	7.4	7.3	7.3	7.3
Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	2.190	2.180	2.210	2.190	2.340	2.650	2.650	2.720	2.640	2.710	3.140	2.590
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.3	7.3	7.4	7.3	7.8	8.8	8.8	9.1	8.8	9.0	10.5	8.6

Licensee Comments: none

## Drill/Exercise Performance



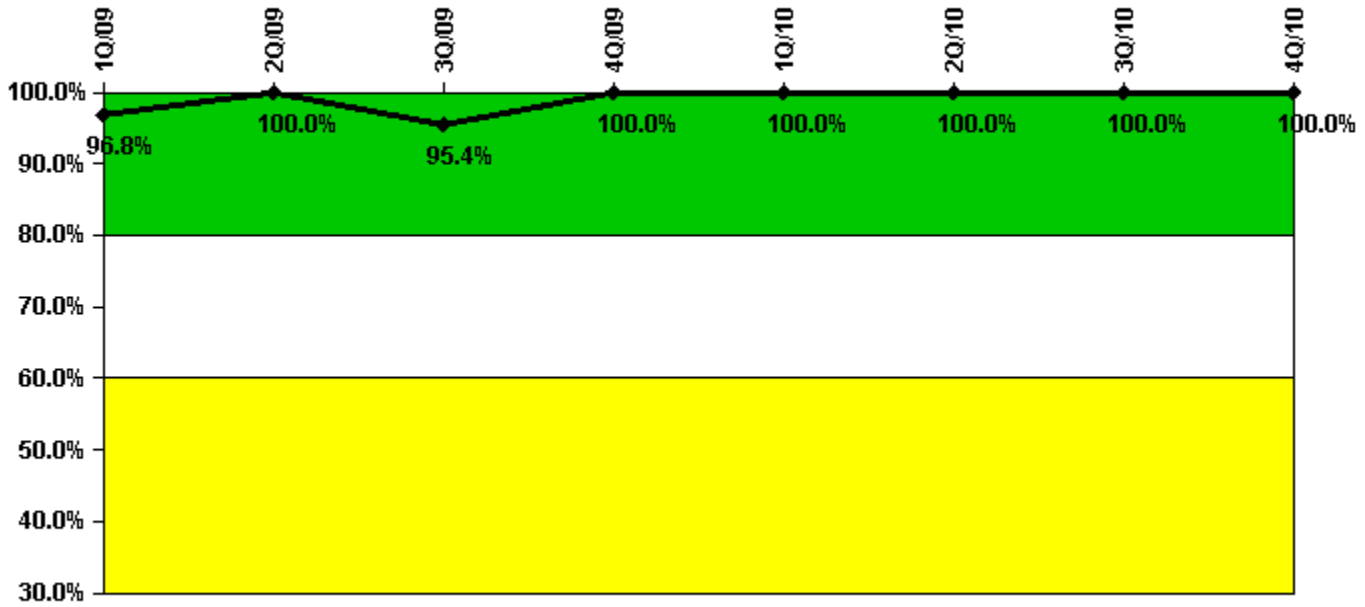
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	2.0	18.0	32.0	18.0	10.0	24.0	41.0	23.0
Total opportunities	2.0	18.0	34.0	18.0	12.0	25.0	43.0	24.0
<b>Indicator value</b>	<b>96.9%</b>	<b>97.2%</b>	<b>96.4%</b>	<b>95.7%</b>	<b>95.4%</b>	<b>95.0%</b>	<b>94.8%</b>	<b>95.5%</b>

Licensee Comments: none

# ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

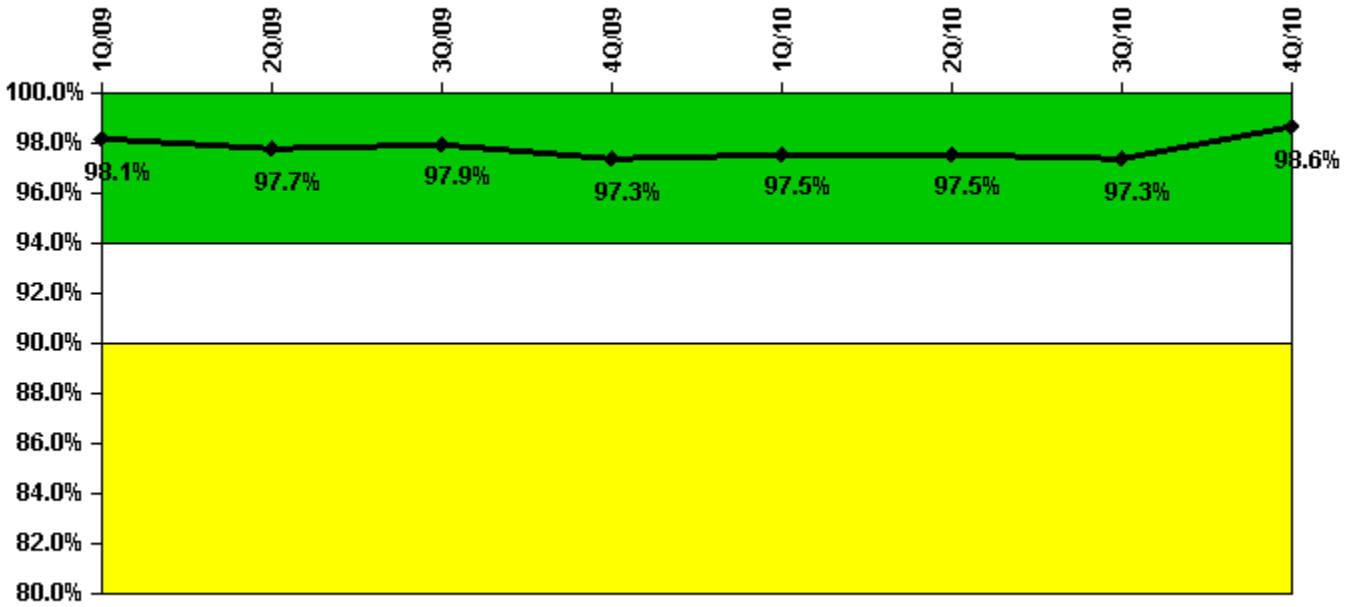
## Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	61.0	61.0	62.0	64.0	64.0	65.0	65.0	64.0
Total Key personnel	63.0	61.0	65.0	64.0	64.0	65.0	65.0	64.0
<b>Indicator value</b>	<b>96.8%</b>	<b>100.0%</b>	<b>95.4%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments: none

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# Alert & Notification System



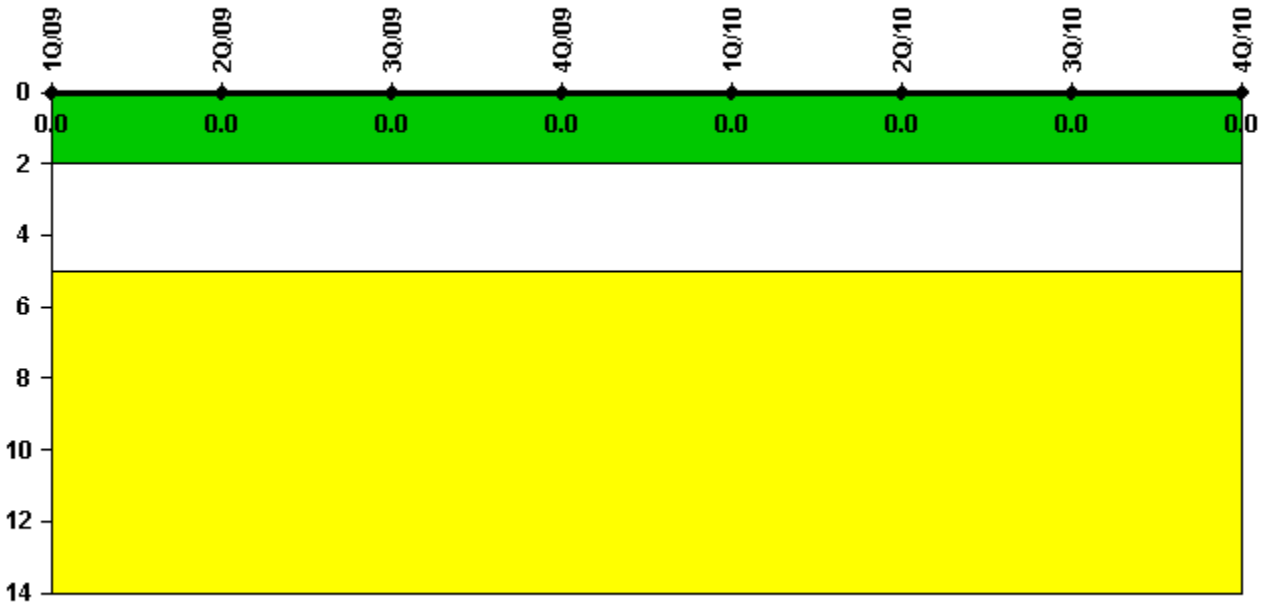
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	126	127	127	122	127	126	126	129
Total sirens-tests	129	129	129	129	129	128	129	129
<b>Indicator value</b>	<b>98.1%</b>	<b>97.7%</b>	<b>97.9%</b>	<b>97.3%</b>	<b>97.5%</b>	<b>97.5%</b>	<b>97.3%</b>	<b>98.6%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



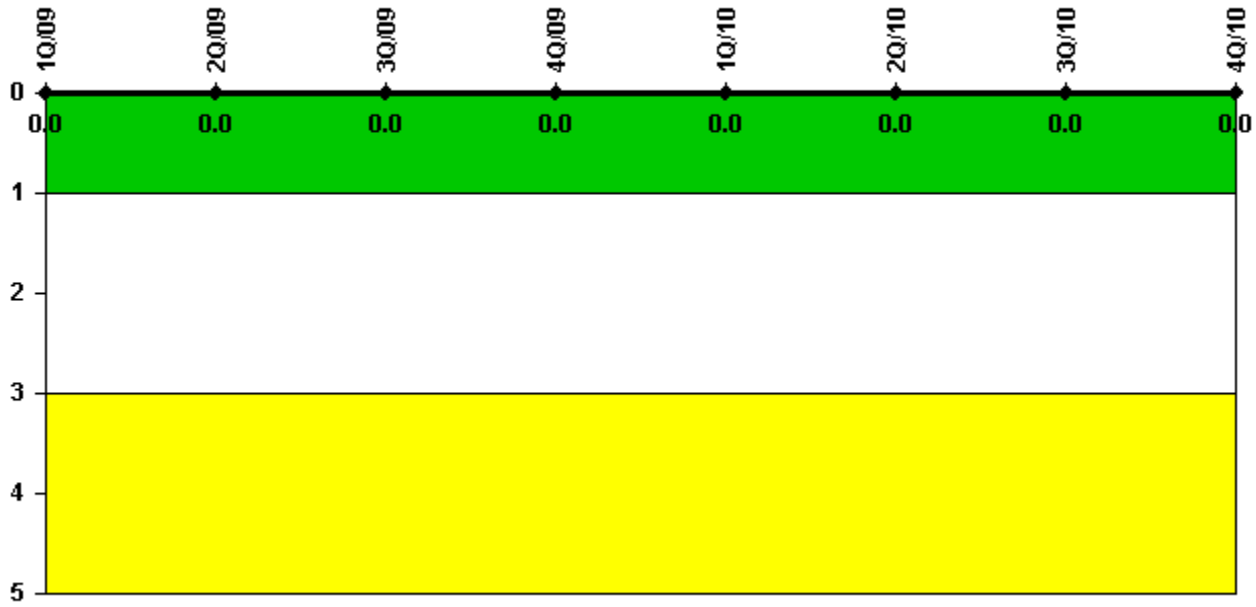
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
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	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

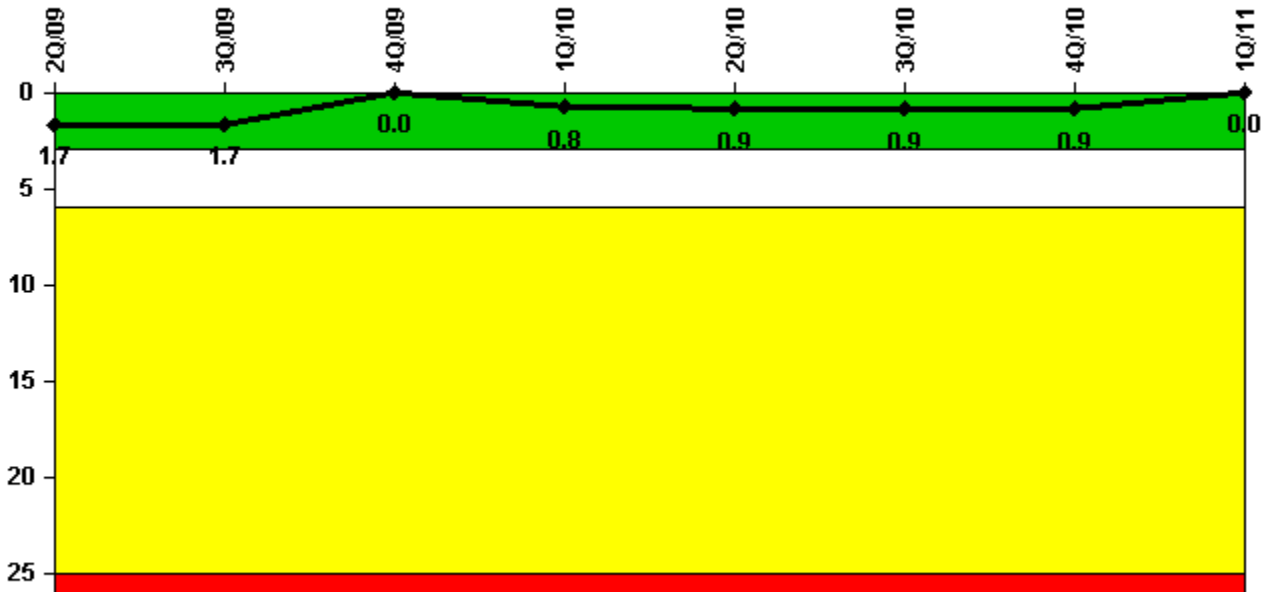
[Security](#) information not publicly available.

# Grand Gulf 1

## 1Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



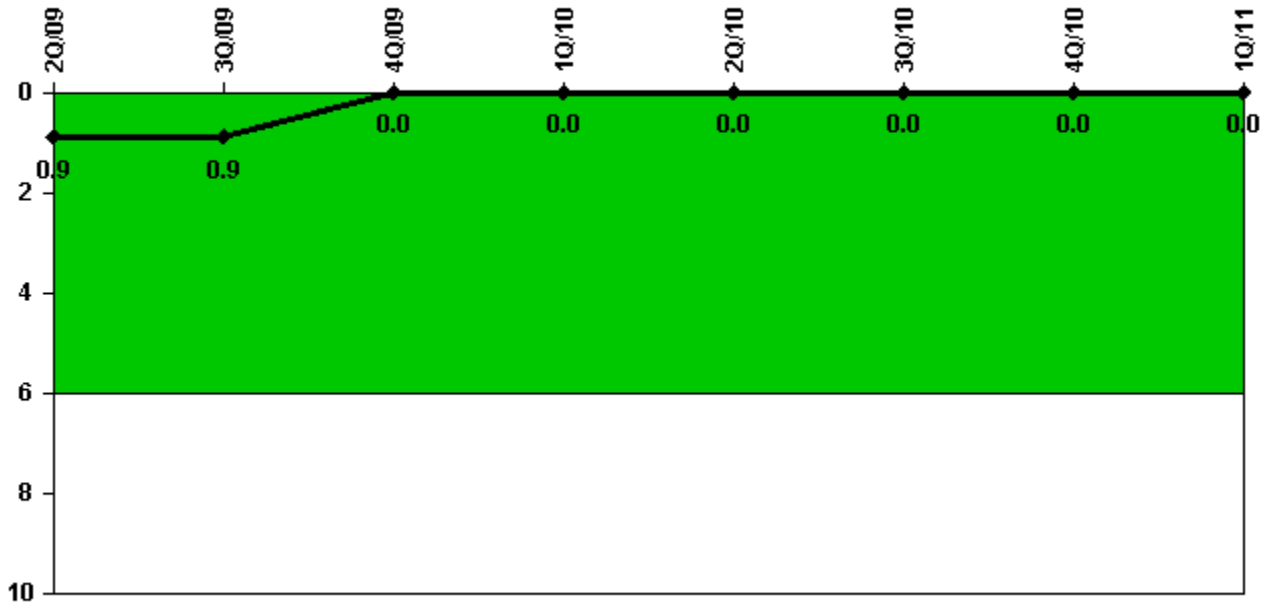
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	1.0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2094.0	1506.9	2208.0	2209.0	2159.0
Indicator value	1.7	1.7	0	0.8	0.9	0.9	0.9	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

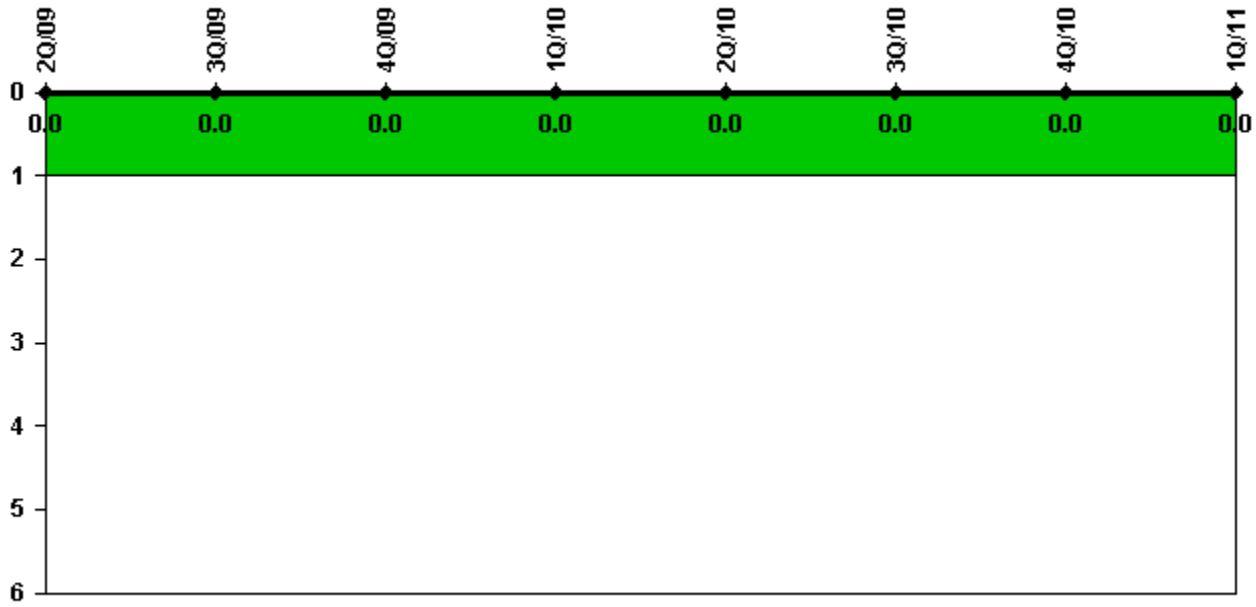
### Notes

Unplanned Power Changes per 7000 Critical Hrs	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	0
Critical hours	2184.0	2208.0	2209.0	2094.0	1506.9	2208.0	2209.0	2159.0
Indicator value	0.9	0.9	0	0	0	0	0	0

Licensee Comments: none



## Unplanned Scrams with Complications



Thresholds: White > 1.0

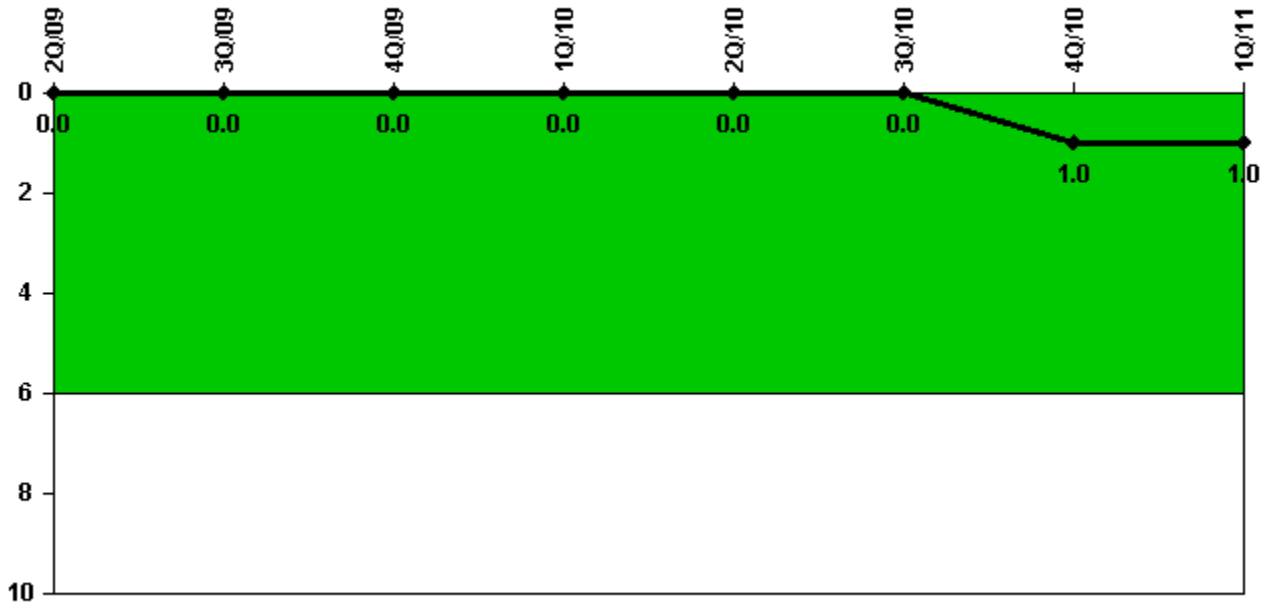
### Notes

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
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

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## Safety System Functional Failures (BWR)



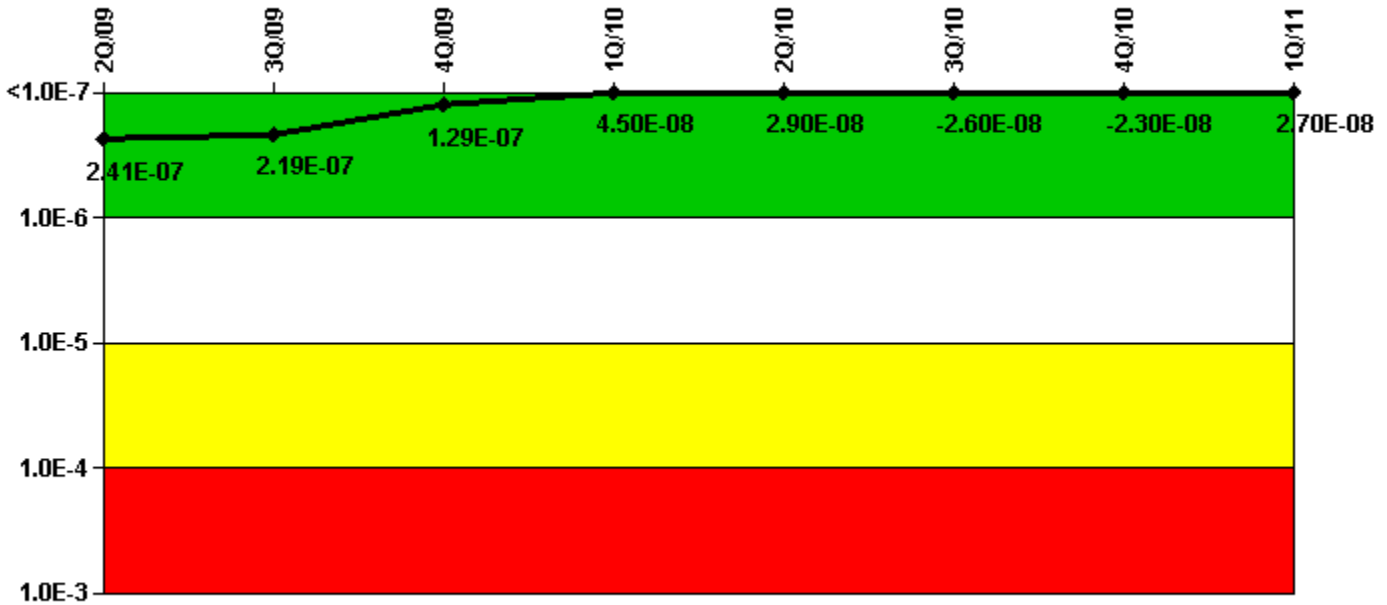
Thresholds: White > 6.0

### Notes

Safety System Functional Failures (BWR)	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	1	0
Indicator value	0	0	0	0	0	0	1	1

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



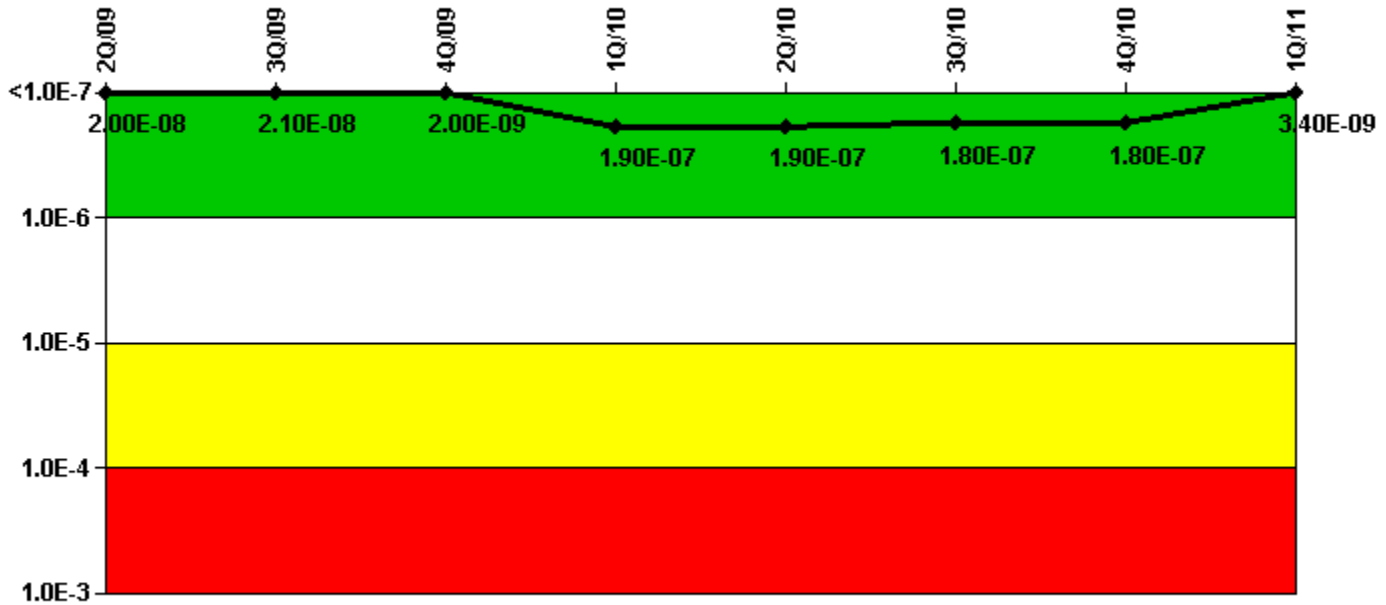
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI ( $\Delta$ CDF)	2.10E-08	1.90E-08	1.90E-08	1.36E-08	5.46E-10	-4.41E-09	-4.44E-09	5.68E-09
URI ( $\Delta$ CDF)	2.20E-07	2.00E-07	1.10E-07	3.13E-08	2.85E-08	-2.20E-08	-1.87E-08	2.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.41E-07	2.19E-07	1.29E-07	4.50E-08	2.90E-08	-2.60E-08	-2.30E-08	2.70E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



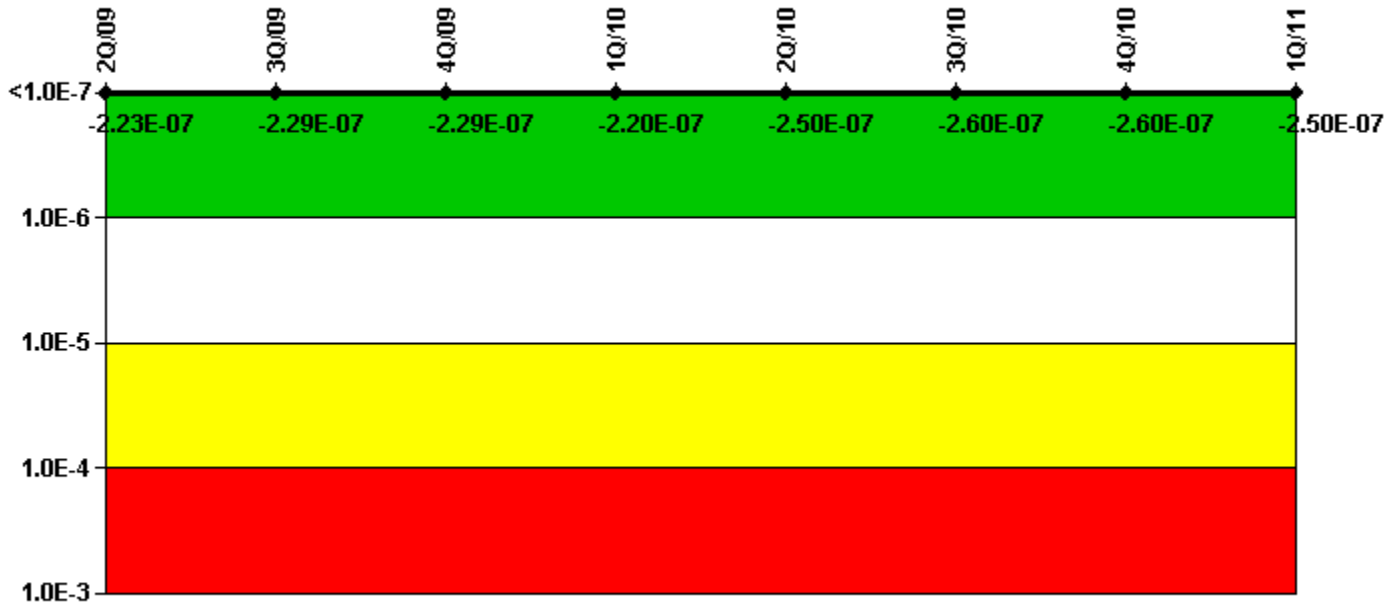
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI ( $\Delta$ CDF)	6.90E-08	6.70E-08	5.20E-08	2.47E-07	2.40E-07	2.30E-07	2.30E-07	1.89E-08
URI ( $\Delta$ CDF)	-4.90E-08	-4.60E-08	-5.00E-08	-5.67E-08	-5.33E-08	-5.34E-08	-5.36E-08	-1.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-08	2.10E-08	2.00E-09	1.90E-07	1.90E-07	1.80E-07	1.80E-07	3.40E-09

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



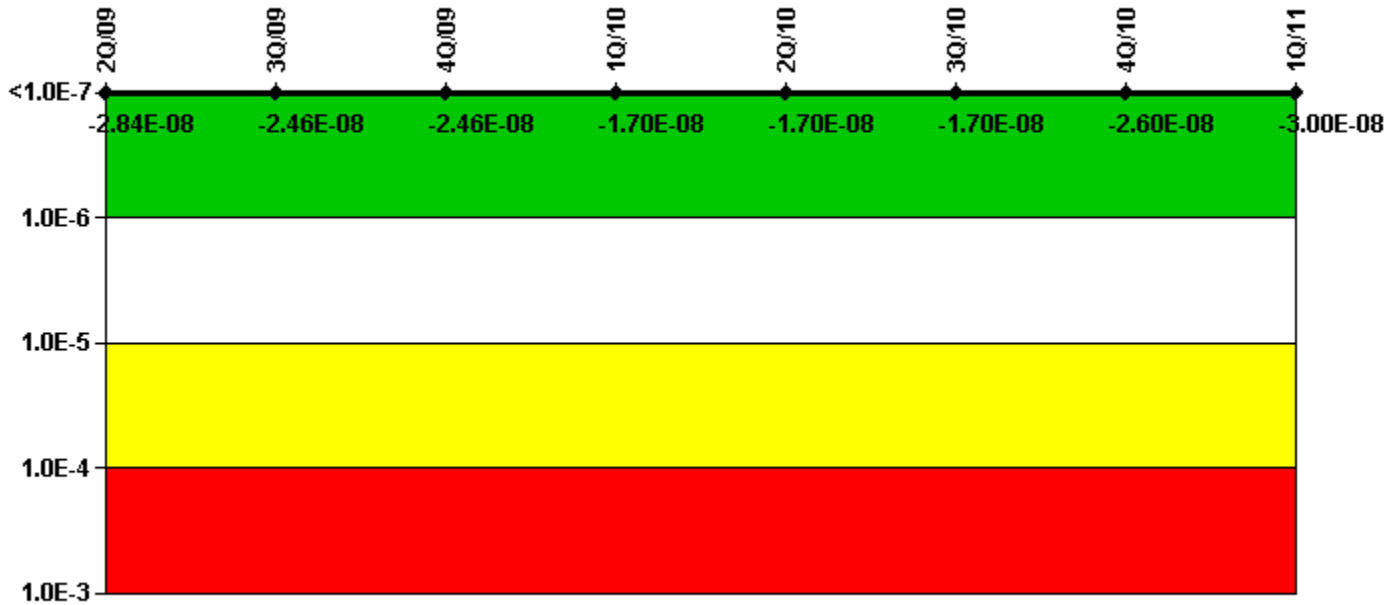
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI ( $\Delta$ CDF)	-1.30E-08	-1.90E-08	-1.90E-08	-1.99E-08	-5.30E-08	-5.31E-08	-5.31E-08	-5.32E-08
URI ( $\Delta$ CDF)	-2.10E-07	-2.10E-07	-2.10E-07	-2.00E-07	-2.01E-07	-2.07E-07	-2.03E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.23E-07	-2.29E-07	-2.29E-07	-2.20E-07	-2.50E-07	-2.60E-07	-2.60E-07	-2.50E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



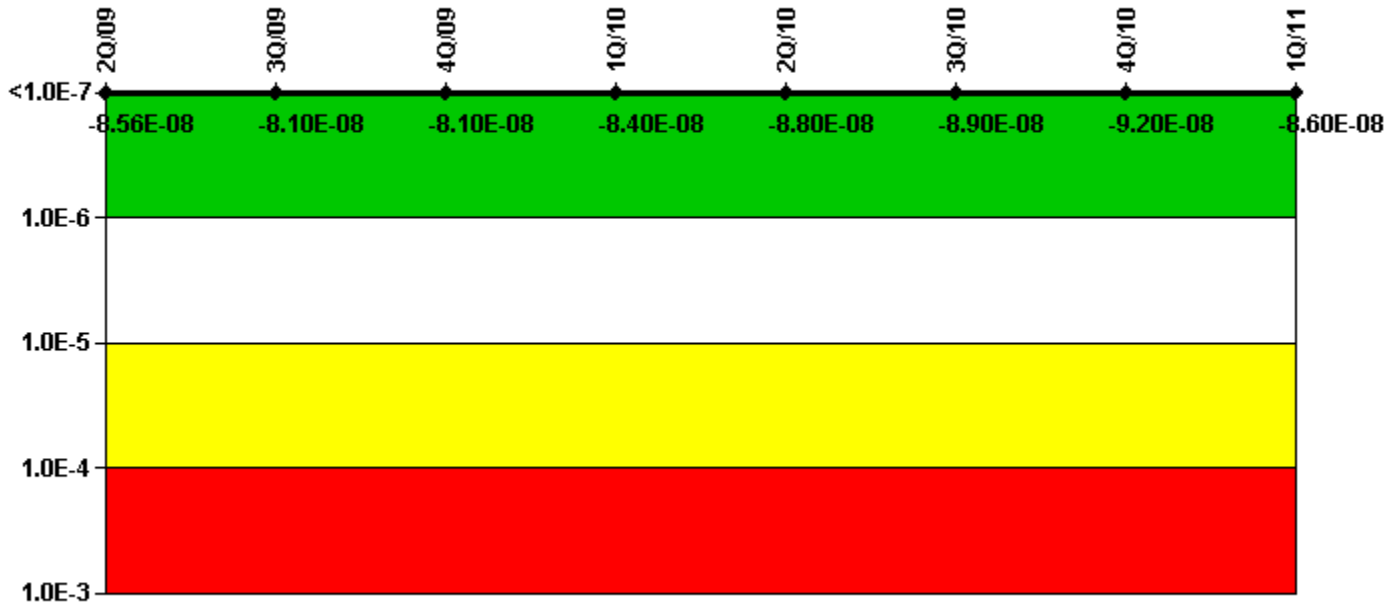
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI ( $\Delta$ CDF)	-5.40E-09	-1.60E-09	-1.60E-09	4.20E-09	4.99E-09	4.54E-09	-4.65E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.30E-08	-2.30E-08	-2.30E-08	-2.14E-08	-2.21E-08	-2.17E-08	-2.12E-08	-2.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.84E-08	-2.46E-08	-2.46E-08	-1.70E-08	-1.70E-08	-1.70E-08	-2.60E-08	-3.00E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



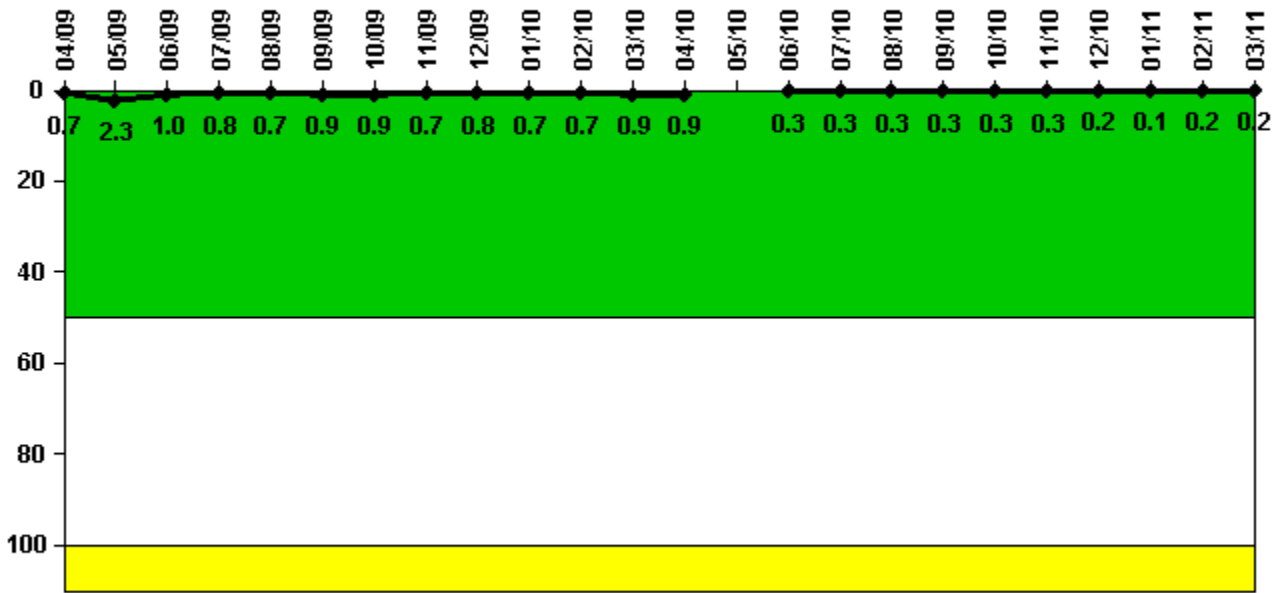
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI ( $\Delta$ CDF)	6.40E-09	1.00E-08	1.00E-08	5.65E-09	2.33E-09	1.93E-09	-1.71E-09	5.19E-09
URI ( $\Delta$ CDF)	-9.20E-08	-9.10E-08	-9.10E-08	-8.99E-08	-9.06E-08	-9.05E-08	-9.05E-08	-9.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.56E-08	-8.10E-08	-8.10E-08	-8.40E-08	-8.80E-08	-8.90E-08	-9.20E-08	-8.60E-08

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

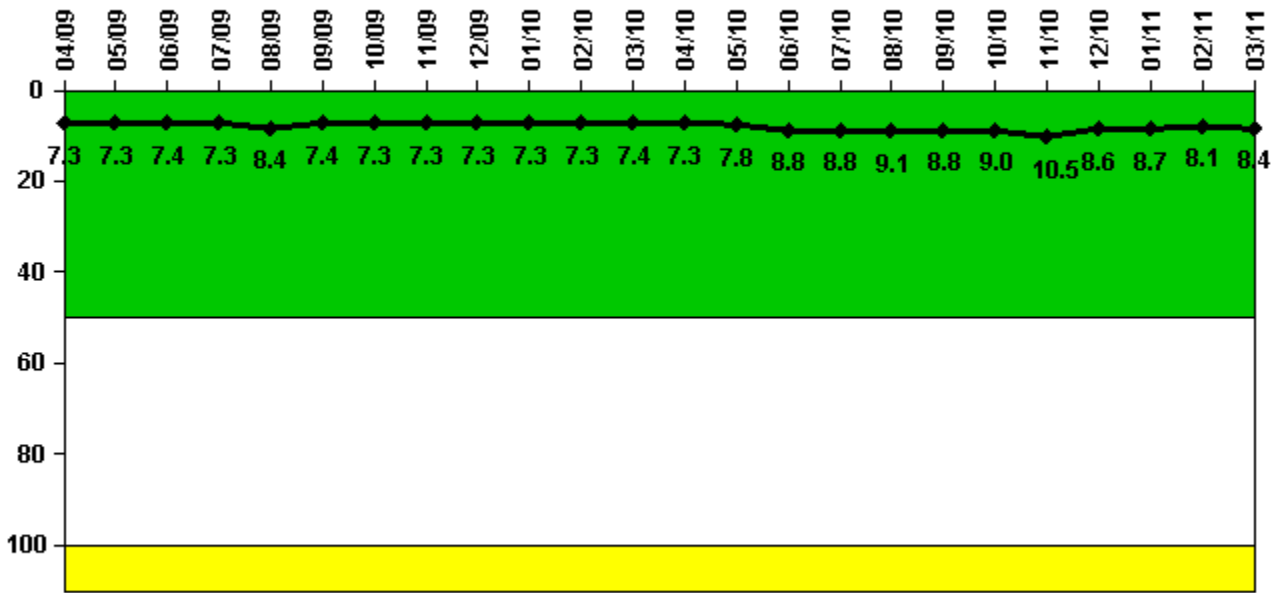
## Notes

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	0.001480	0.004630	0.001950	0.001580	0.001400	0.001700	0.001740	0.001450	0.001600	0.001440	0.001440	0.001710
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	0.7	2.3	1.0	0.8	0.7	0.9	0.9	0.7	0.8	0.7	0.7	0.9
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	0.001850	N/A	0.000524	0.000565	0.000572	0.000555	0.000548	0.000532	0.000336	0.000290	0.000330	0.000328
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	0.9	N/A	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2

Licensee Comments: none



## Reactor Coolant System Leakage



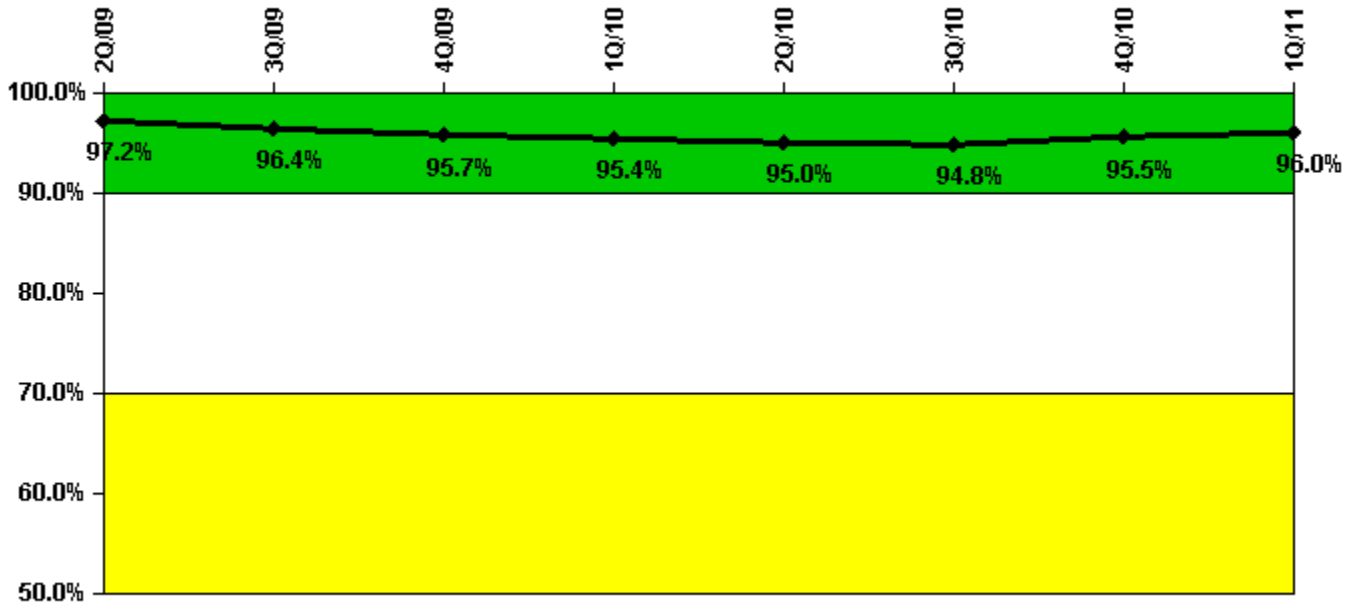
Thresholds: White > 50.0 Yellow > 100.0

### 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	2.190	2.190	2.220	2.200	2.520	2.210	2.180	2.190	2.200	2.190	2.180	2.210
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.3	7.3	7.4	7.3	8.4	7.4	7.3	7.3	7.3	7.3	7.3	7.4
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	2.190	2.340	2.650	2.650	2.720	2.640	2.710	3.140	2.590	2.600	2.420	2.510
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.3	7.8	8.8	8.8	9.1	8.8	9.0	10.5	8.6	8.7	8.1	8.4

Licensee Comments: none

## Drill/Exercise Performance



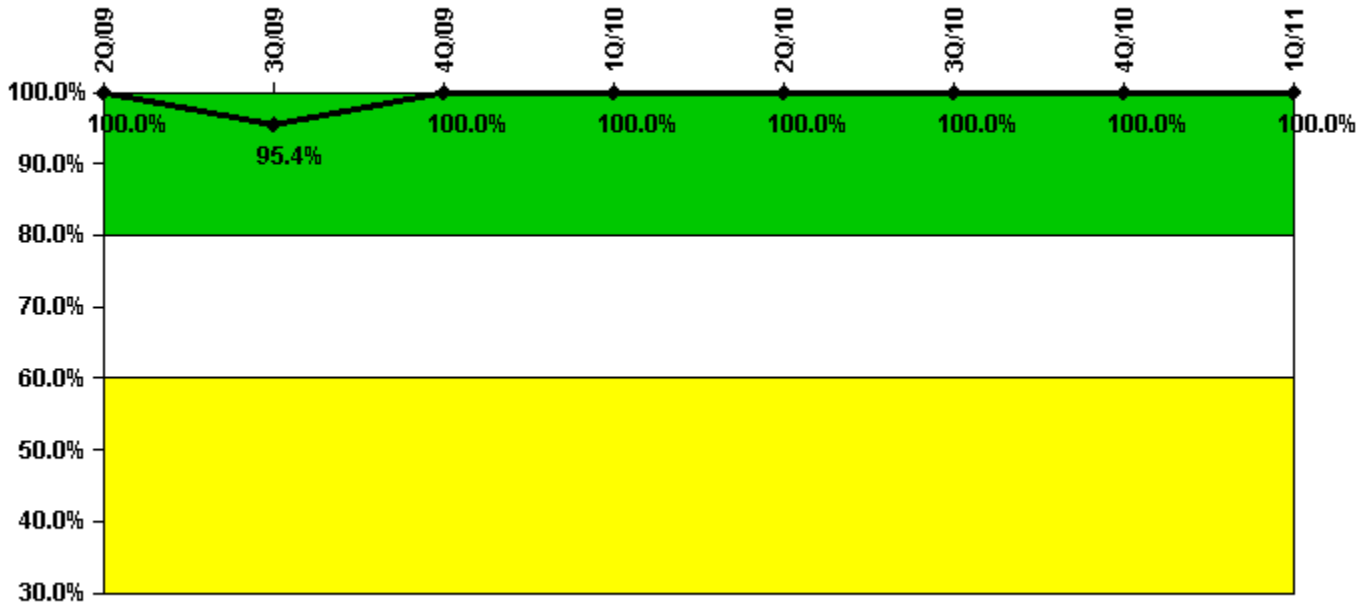
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	18.0	32.0	18.0	10.0	24.0	41.0	23.0	28.0
Total opportunities	18.0	34.0	18.0	12.0	25.0	43.0	24.0	28.0
<b>Indicator value</b>	<b>97.2%</b>	<b>96.4%</b>	<b>95.7%</b>	<b>95.4%</b>	<b>95.0%</b>	<b>94.8%</b>	<b>95.5%</b>	<b>96.0%</b>

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

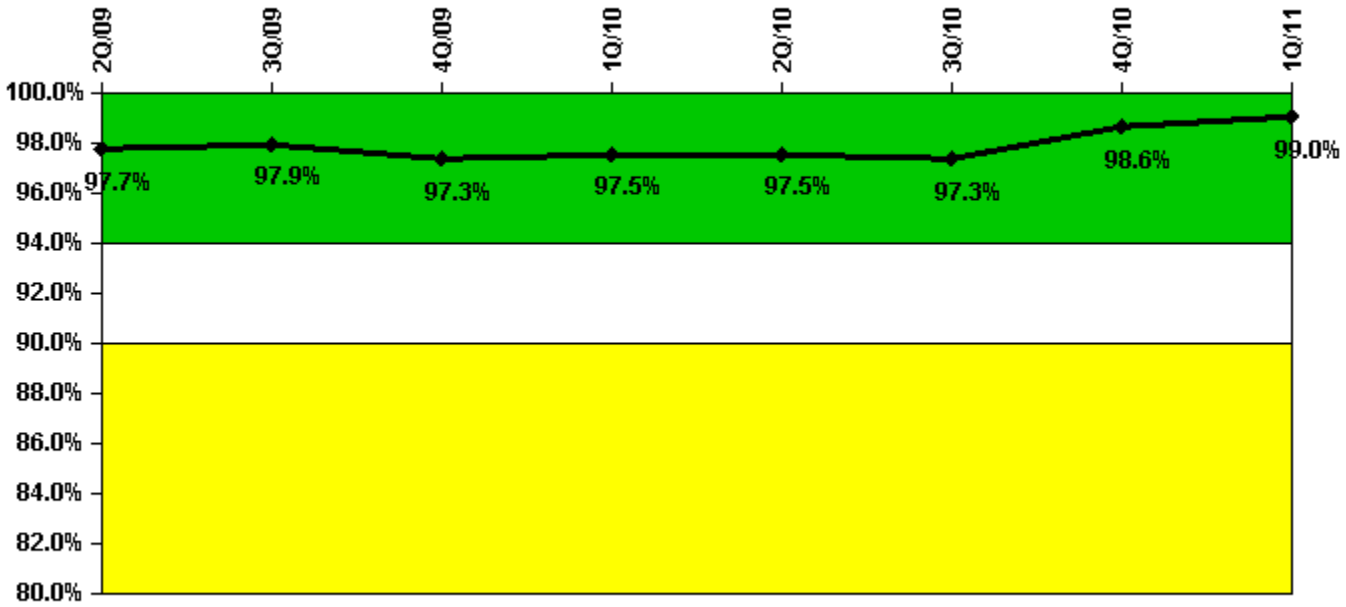
### Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	61.0	62.0	64.0	64.0	65.0	65.0	64.0	68.0
Total Key personnel	61.0	65.0	64.0	64.0	65.0	65.0	64.0	68.0
<b>Indicator value</b>	<b>100.0%</b>	<b>95.4%</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

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# Alert & Notification System



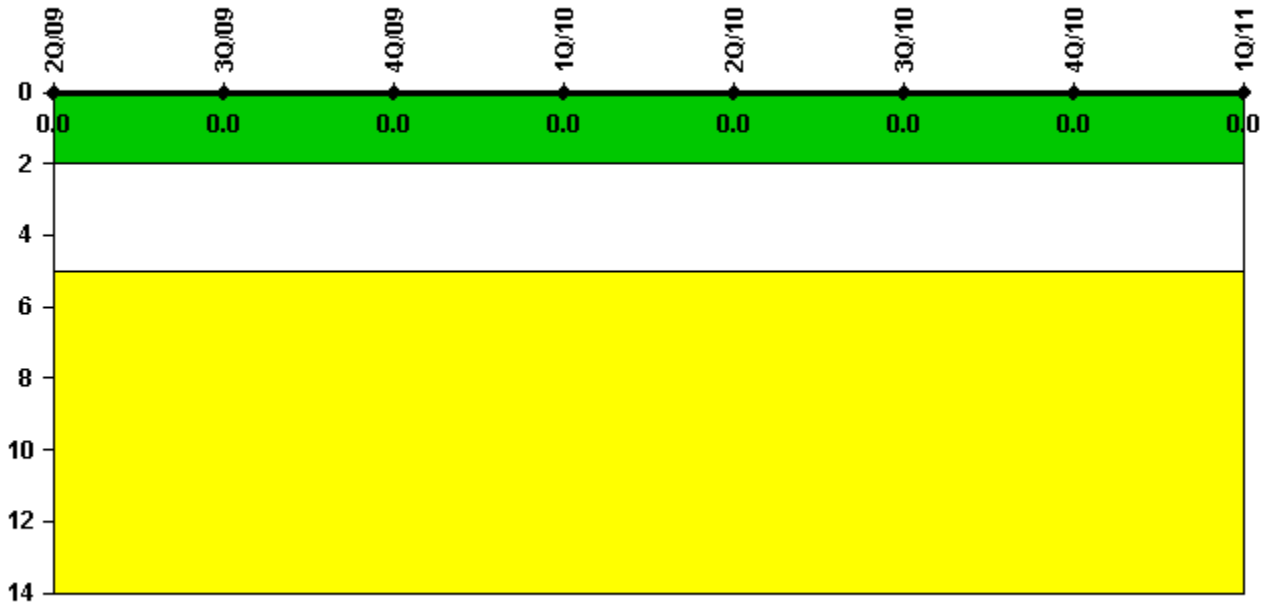
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	127	127	122	127	126	126	129	129
Total sirens-tests	129	129	129	129	128	129	129	129
<b>Indicator value</b>	<b>97.7%</b>	<b>97.9%</b>	<b>97.3%</b>	<b>97.5%</b>	<b>97.5%</b>	<b>97.3%</b>	<b>98.6%</b>	<b>99.0%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



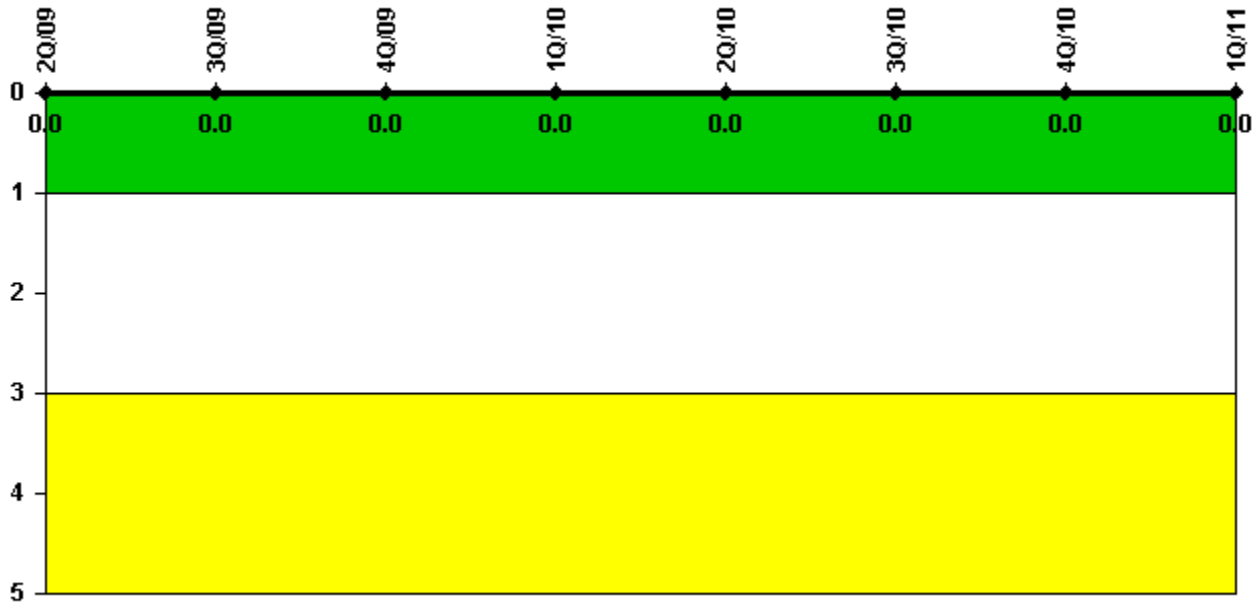
Thresholds: White > 2.0 Yellow > 5.0

## 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

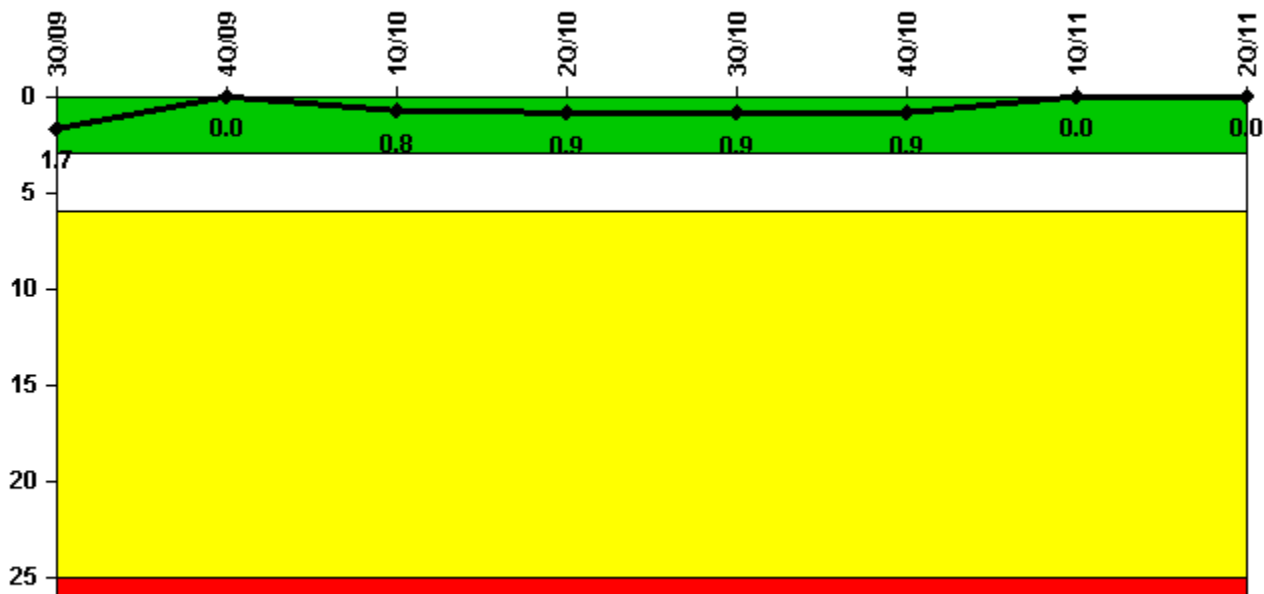
[Security](#) information not publicly available.

# Grand Gulf 1

## 2Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



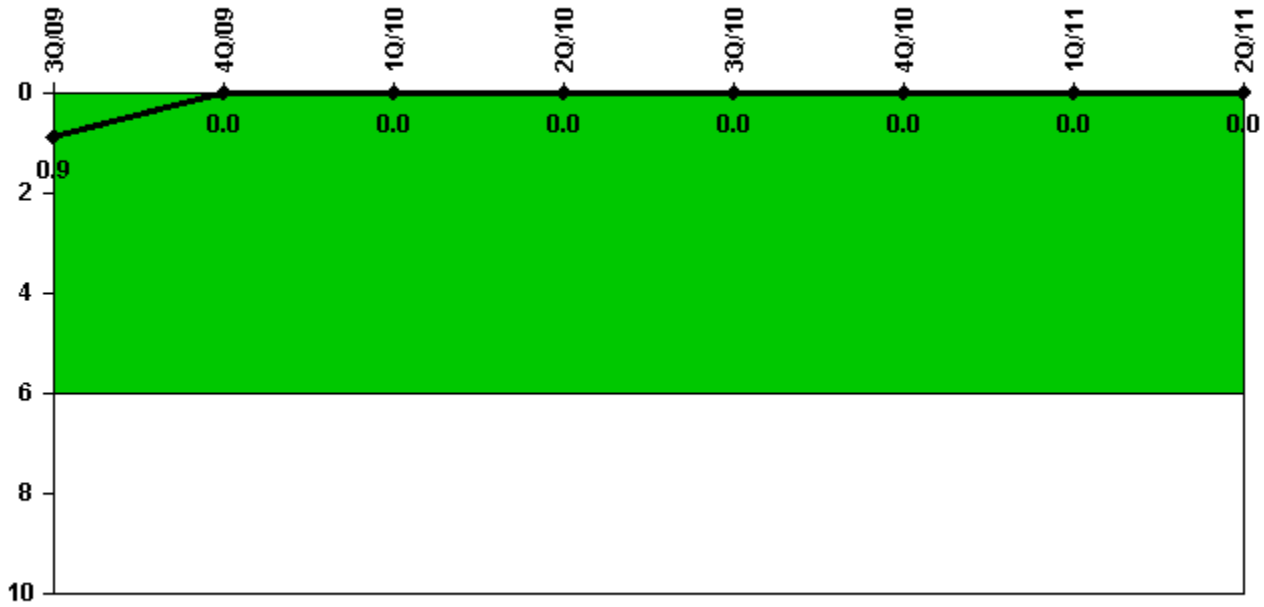
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2094.0	1506.9	2208.0	2209.0	2159.0	2184.0
Indicator value	1.7	0	0.8	0.9	0.9	0.9	0	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

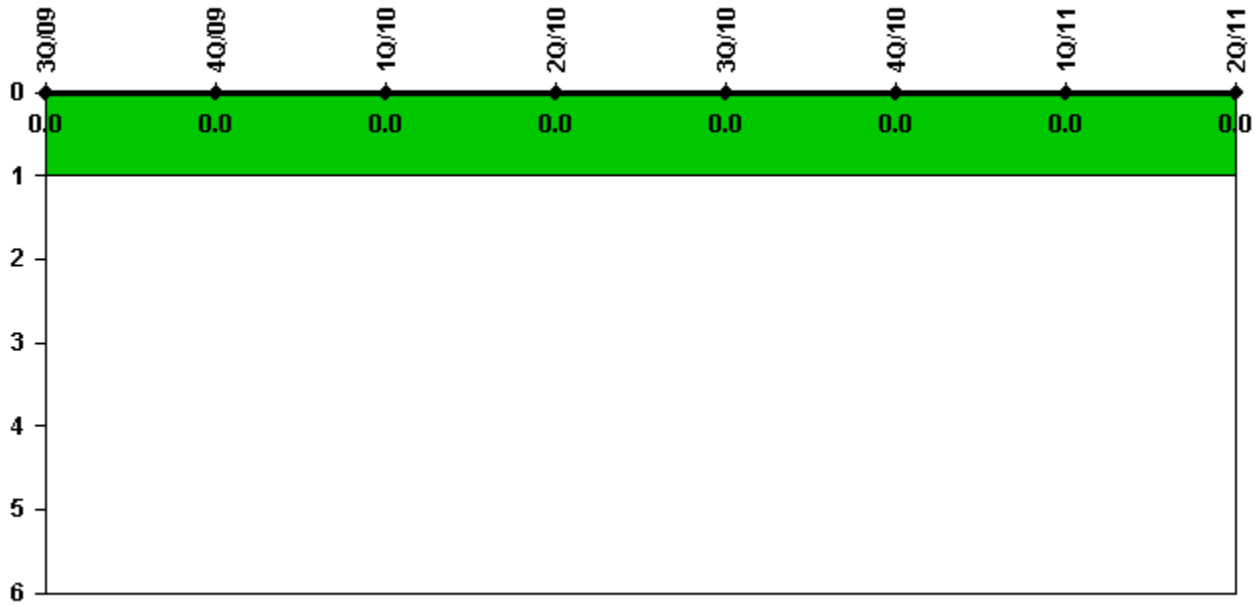
### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2094.0	1506.9	2208.0	2209.0	2159.0	2184.0
<b>Indicator value</b>	<b>0.9</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



# Unplanned Scrams with Complications



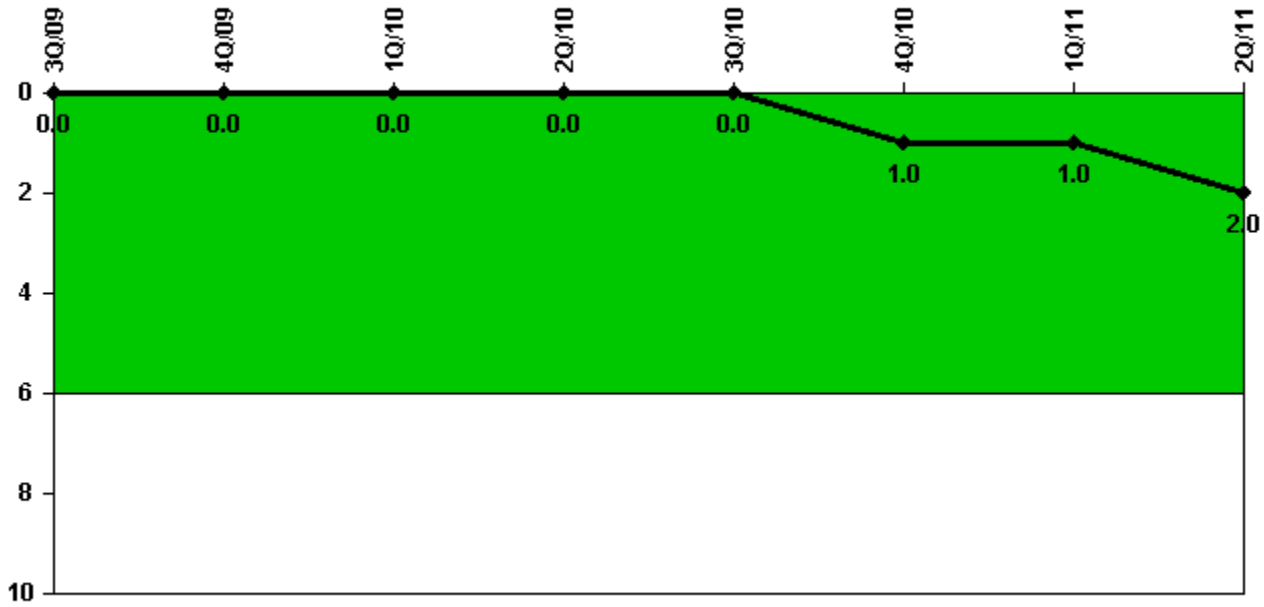
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

## Safety System Functional Failures (BWR)



Thresholds: White > 6.0

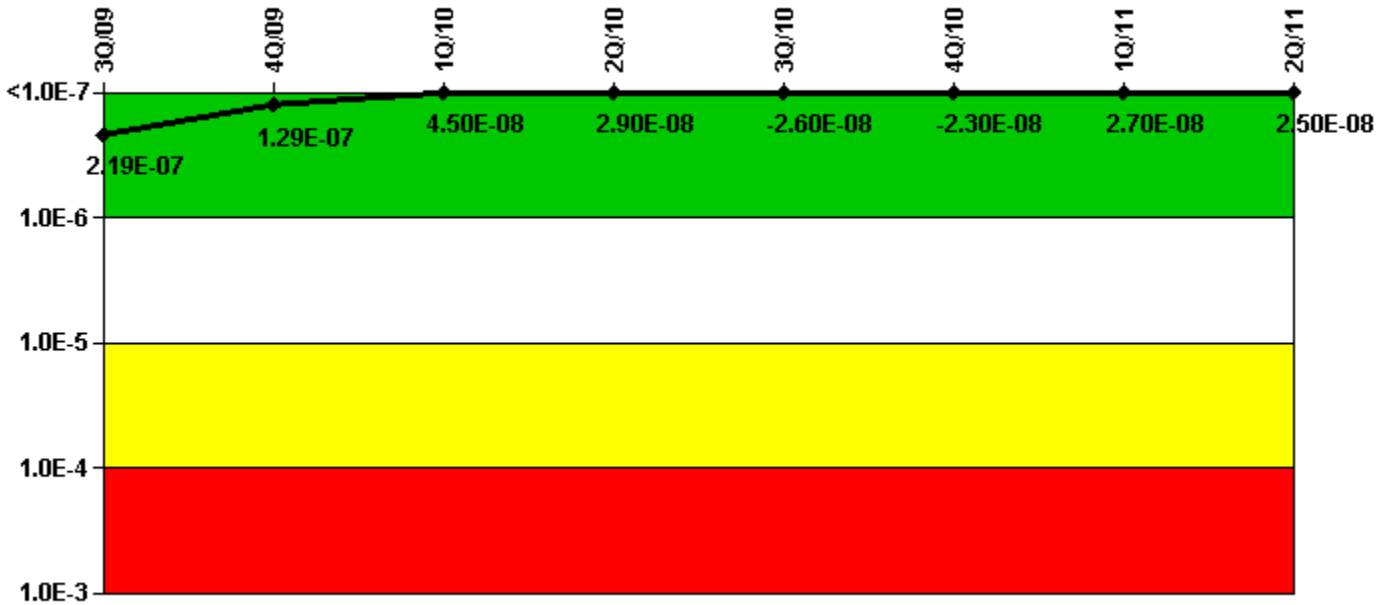
### Notes

Safety System Functional Failures (BWR)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Safety System Functional Failures	0	0	0	0	0	1	0	1
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>

Licensee Comments:

2Q/11: Reference: GGNS LER 2011-001

# Mitigating Systems Performance Index, Emergency AC Power System



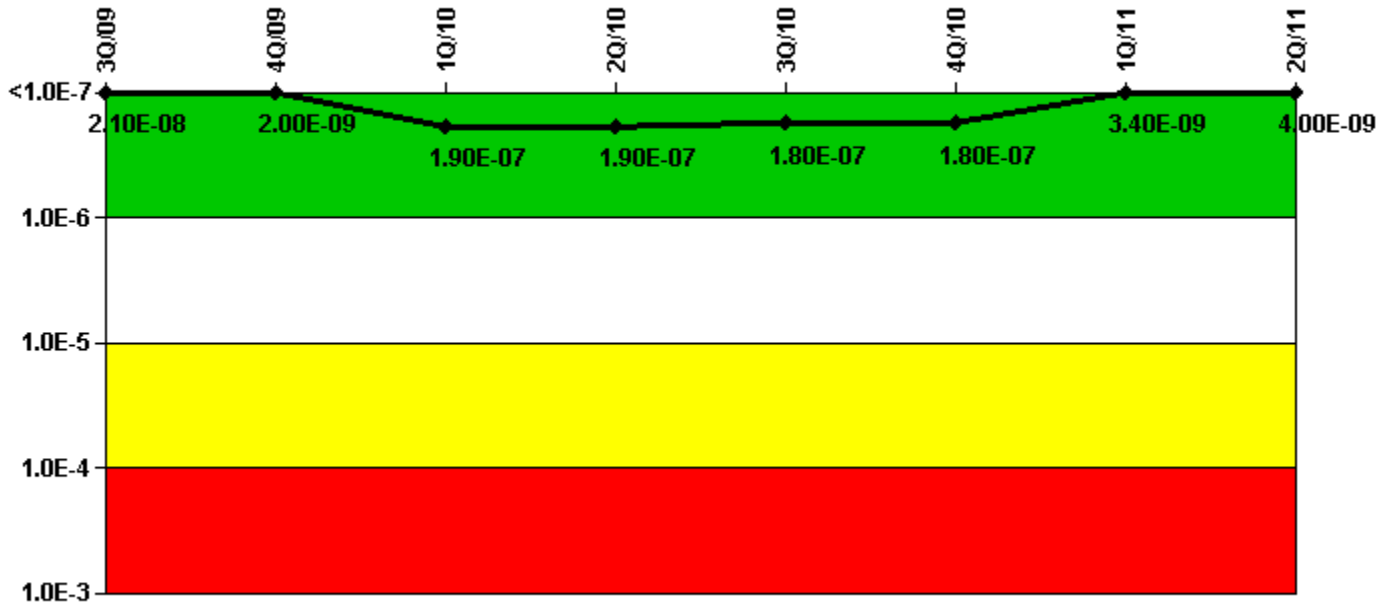
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI ( $\Delta$ CDF)	1.90E-08	1.90E-08	1.36E-08	5.46E-10	-4.41E-09	-4.44E-09	5.68E-09	5.64E-09
URI ( $\Delta$ CDF)	2.00E-07	1.10E-07	3.13E-08	2.85E-08	-2.20E-08	-1.87E-08	2.17E-08	1.97E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.19E-07	1.29E-07	4.50E-08	2.90E-08	-2.60E-08	-2.30E-08	2.70E-08	2.50E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



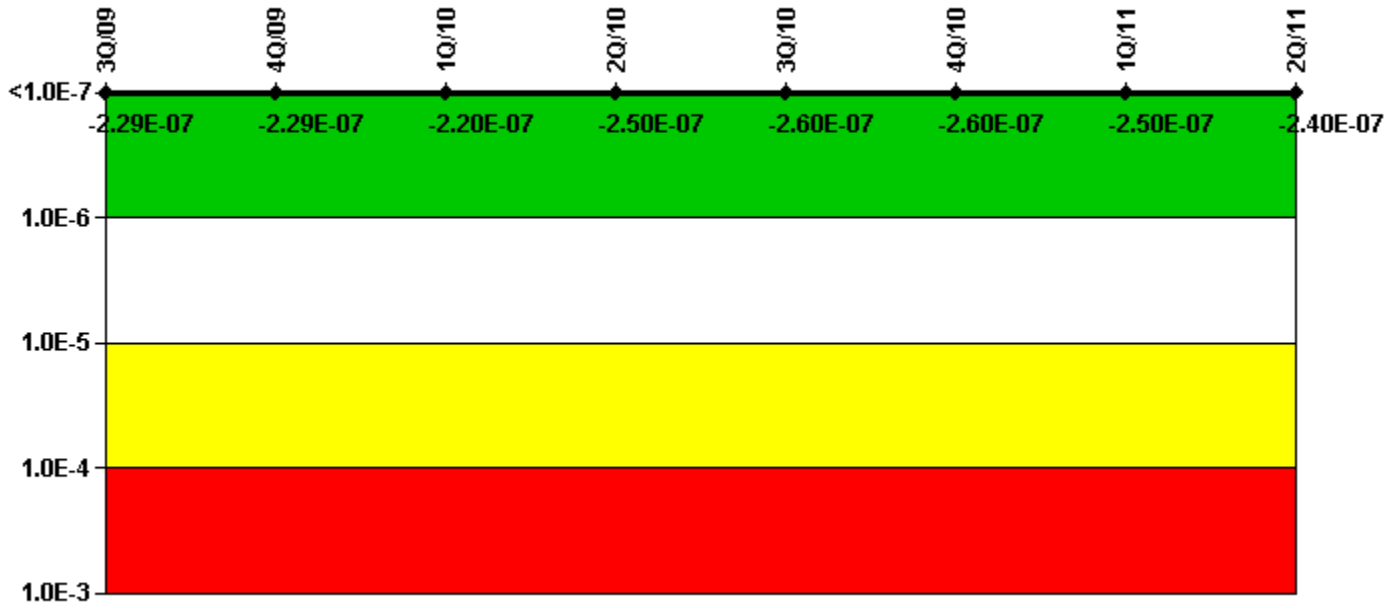
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	6.70E-08	5.20E-08	2.47E-07	2.40E-07	2.30E-07	2.30E-07	1.89E-08	1.46E-08
URI (ΔCDF)	-4.60E-08	-5.00E-08	-5.67E-08	-5.33E-08	-5.34E-08	-5.36E-08	-1.55E-08	-1.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.10E-08	2.00E-09	1.90E-07	1.90E-07	1.80E-07	1.80E-07	3.40E-09	4.00E-09

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



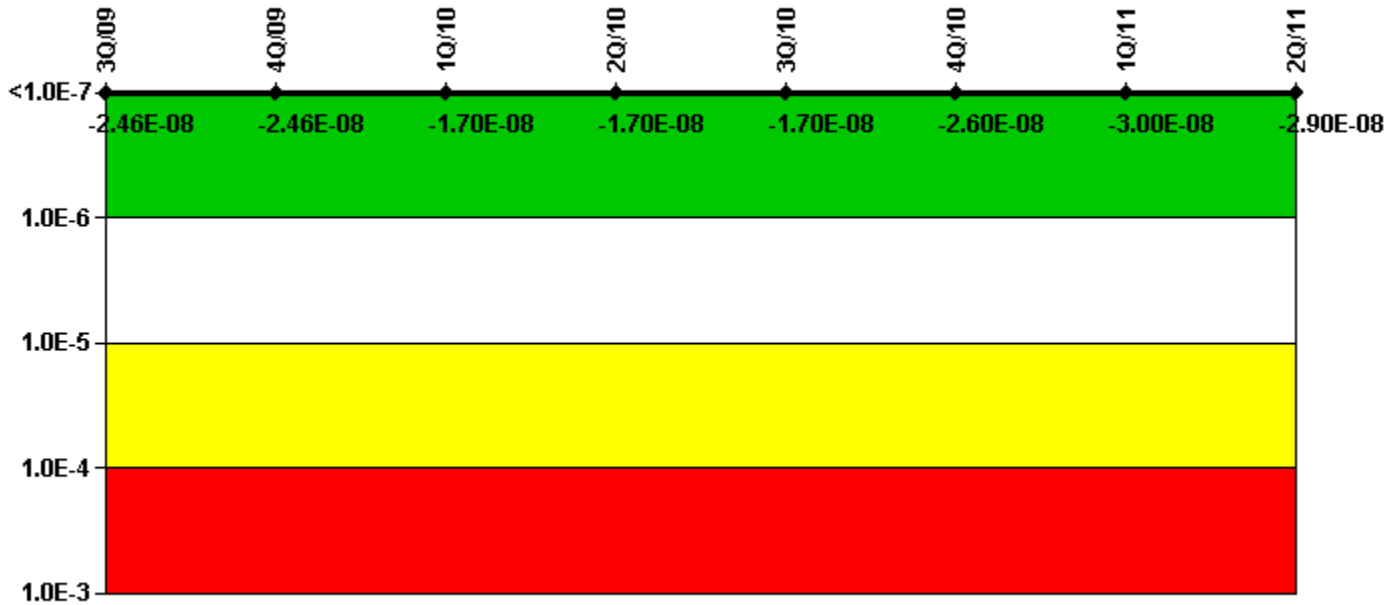
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI ( $\Delta$ CDF)	-1.90E-08	-1.90E-08	-1.99E-08	-5.30E-08	-5.31E-08	-5.31E-08	-5.32E-08	-5.32E-08
URI ( $\Delta$ CDF)	-2.10E-07	-2.10E-07	-2.00E-07	-2.01E-07	-2.07E-07	-2.03E-07	-2.00E-07	-1.92E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.29E-07	-2.29E-07	-2.20E-07	-2.50E-07	-2.60E-07	-2.60E-07	-2.50E-07	-2.40E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



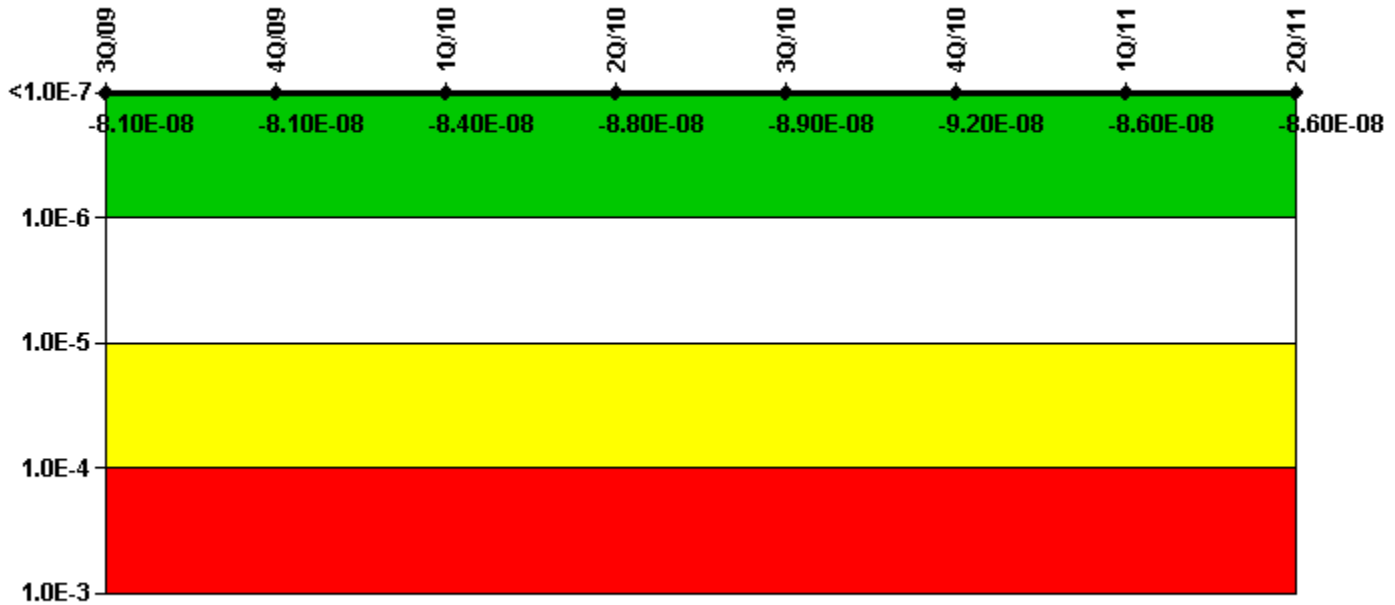
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI ( $\Delta$ CDF)	-1.60E-09	-1.60E-09	4.20E-09	4.99E-09	4.54E-09	-4.65E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.30E-08	-2.30E-08	-2.14E-08	-2.21E-08	-2.17E-08	-2.12E-08	-2.11E-08	-2.08E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.46E-08	-2.46E-08	-1.70E-08	-1.70E-08	-1.70E-08	-2.60E-08	-3.00E-08	-2.90E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



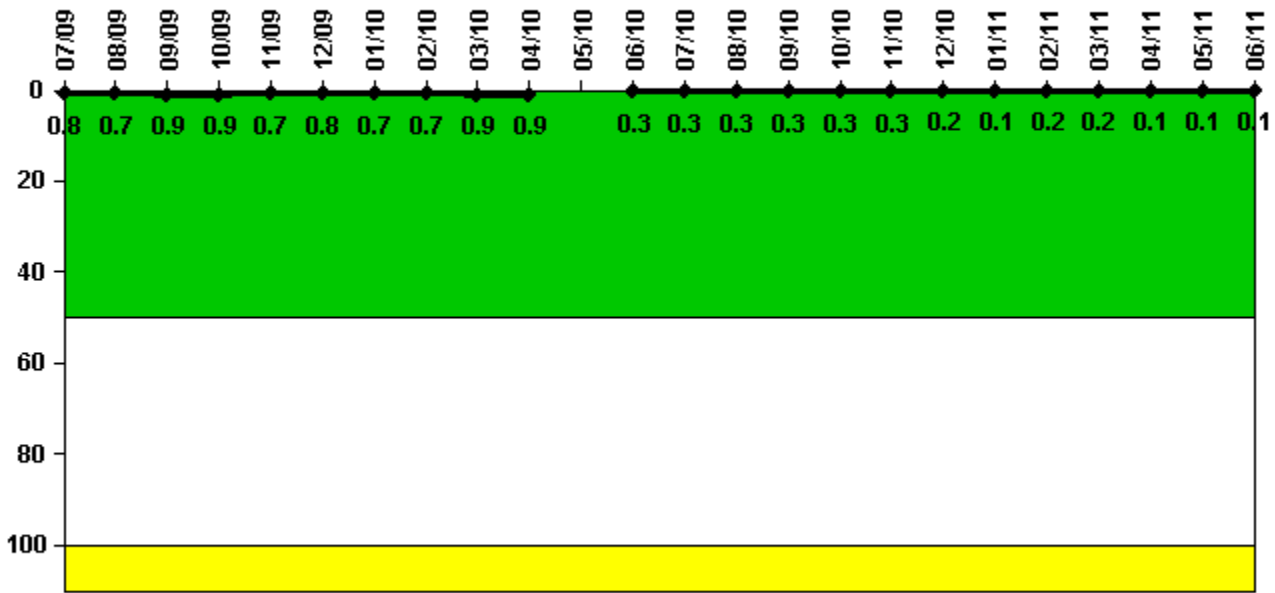
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI ( $\Delta$ CDF)	1.00E-08	1.00E-08	5.65E-09	2.33E-09	1.93E-09	-1.71E-09	5.19E-09	5.19E-09
URI ( $\Delta$ CDF)	-9.10E-08	-9.10E-08	-8.99E-08	-9.06E-08	-9.05E-08	-9.05E-08	-9.12E-08	-9.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.10E-08	-8.10E-08	-8.40E-08	-8.80E-08	-8.90E-08	-9.20E-08	-8.60E-08	-8.60E-08

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.001580	0.001400	0.001700	0.001740	0.001450	0.001600	0.001440	0.001440	0.001710	0.001850	N/A	0.000524
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	0.8	0.7	0.9	0.9	0.7	0.8	0.7	0.7	0.9	0.9	N/A	0.3

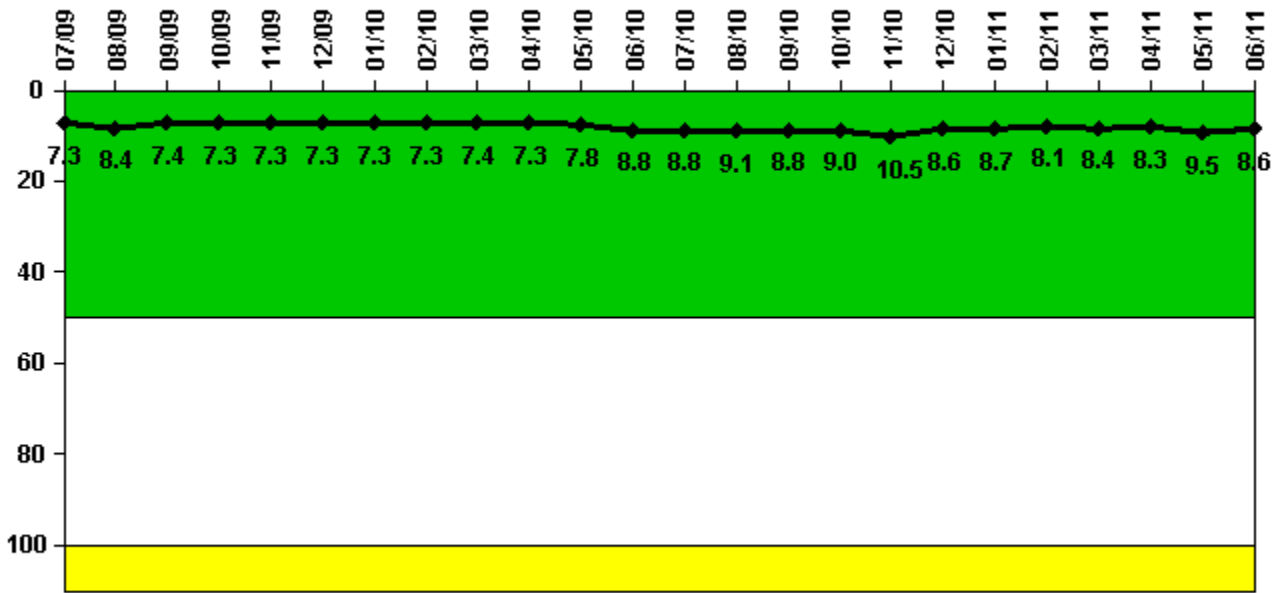
  

Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000565	0.000572	0.000555	0.000548	0.000532	0.000336	0.000290	0.000330	0.000328	0.000262	0.000247	0.000257
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.1	0.1

Licensee Comments: none



## Reactor Coolant System Leakage



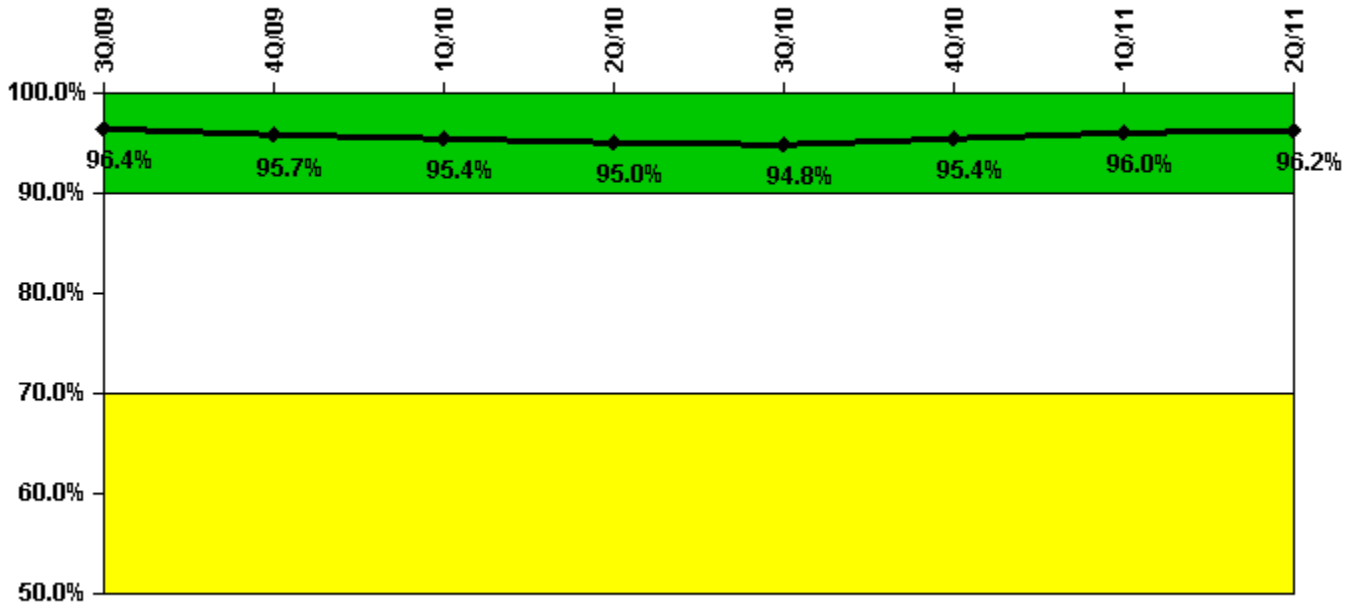
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	2.200	2.520	2.210	2.180	2.190	2.200	2.190	2.180	2.210	2.190	2.340	2.650
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.3	8.4	7.4	7.3	7.3	7.3	7.3	7.3	7.4	7.3	7.8	8.8
Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	2.650	2.720	2.640	2.710	3.140	2.590	2.600	2.420	2.510	2.500	2.850	2.570
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.8	9.1	8.8	9.0	10.5	8.6	8.7	8.1	8.4	8.3	9.5	8.6

Licensee Comments: none

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

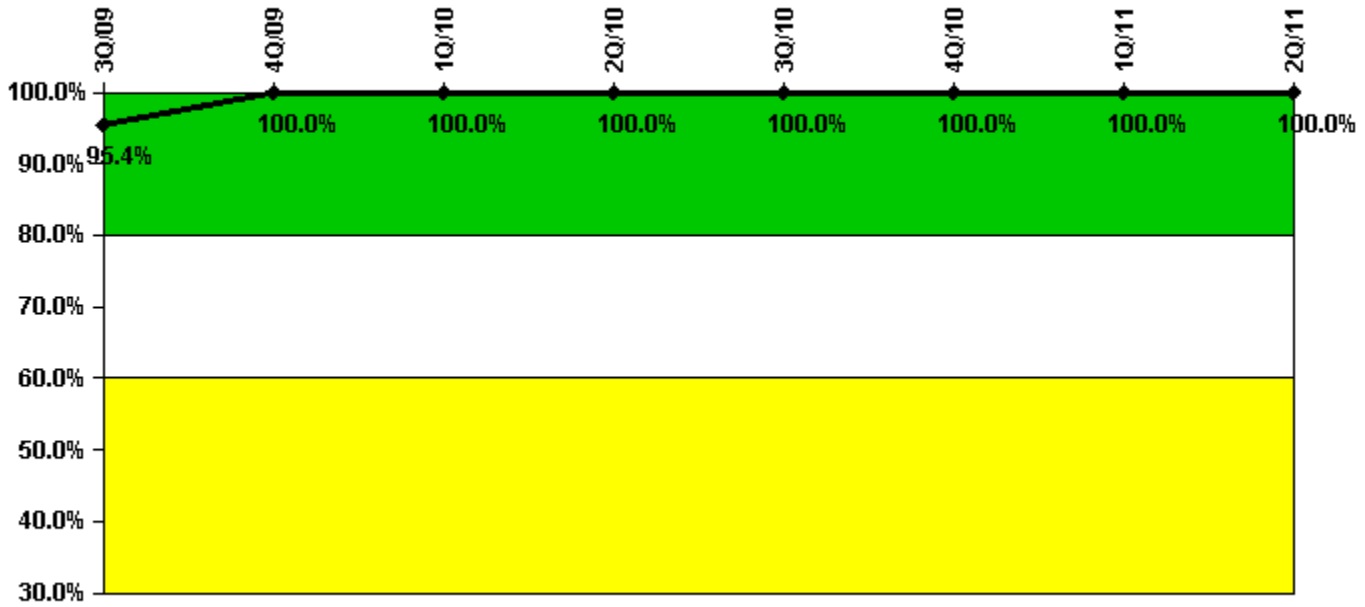
### Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	32.0	18.0	10.0	24.0	41.0	22.0	28.0	29.0
Total opportunities	34.0	18.0	12.0	25.0	43.0	23.0	28.0	29.0
<b>Indicator value</b>	<b>96.4%</b>	<b>95.7%</b>	<b>95.4%</b>	<b>95.0%</b>	<b>94.8%</b>	<b>95.4%</b>	<b>96.0%</b>	<b>96.2%</b>

Licensee Comments:

4Q/10: December DEP changed from 5 of 5 to 4 of 4 - CR-GGN-2011-04751

# ERO Drill Participation



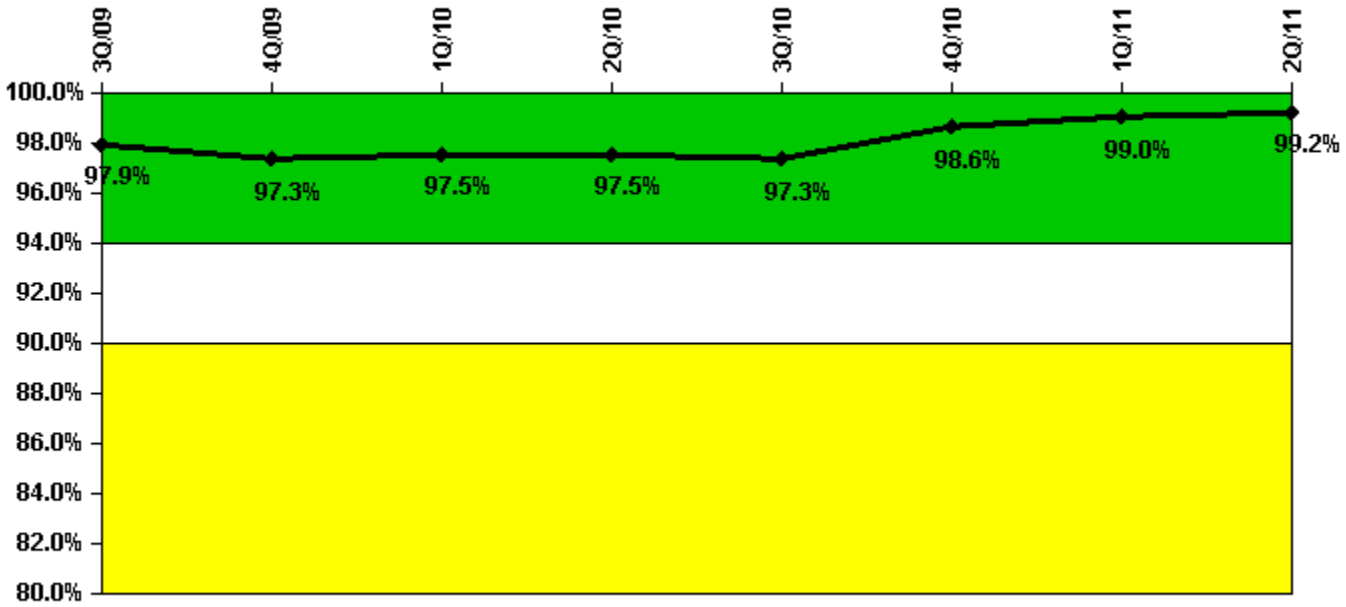
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	62.0	64.0	64.0	65.0	65.0	64.0	68.0	70.0
Total Key personnel	65.0	64.0	64.0	65.0	65.0	64.0	68.0	70.0
<b>Indicator value</b>	<b>95.4%</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



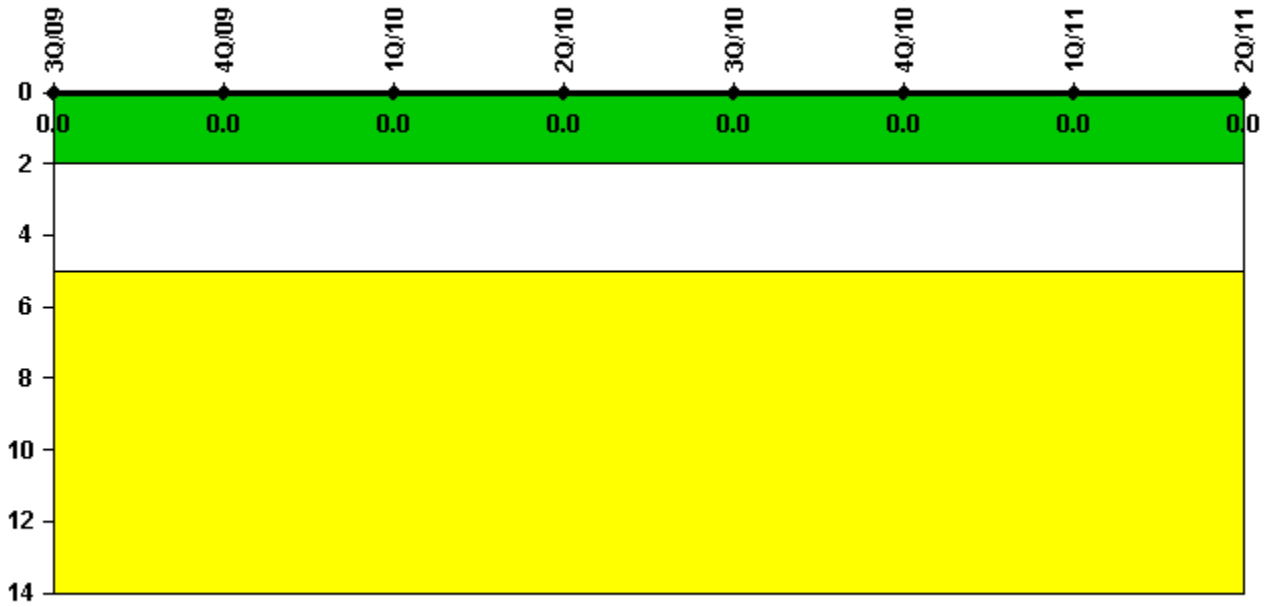
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	127	122	127	126	126	129	129	121
Total sirens-tests	129	129	129	128	129	129	129	122
<b>Indicator value</b>	<b>97.9%</b>	<b>97.3%</b>	<b>97.5%</b>	<b>97.5%</b>	<b>97.3%</b>	<b>98.6%</b>	<b>99.0%</b>	<b>99.2%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



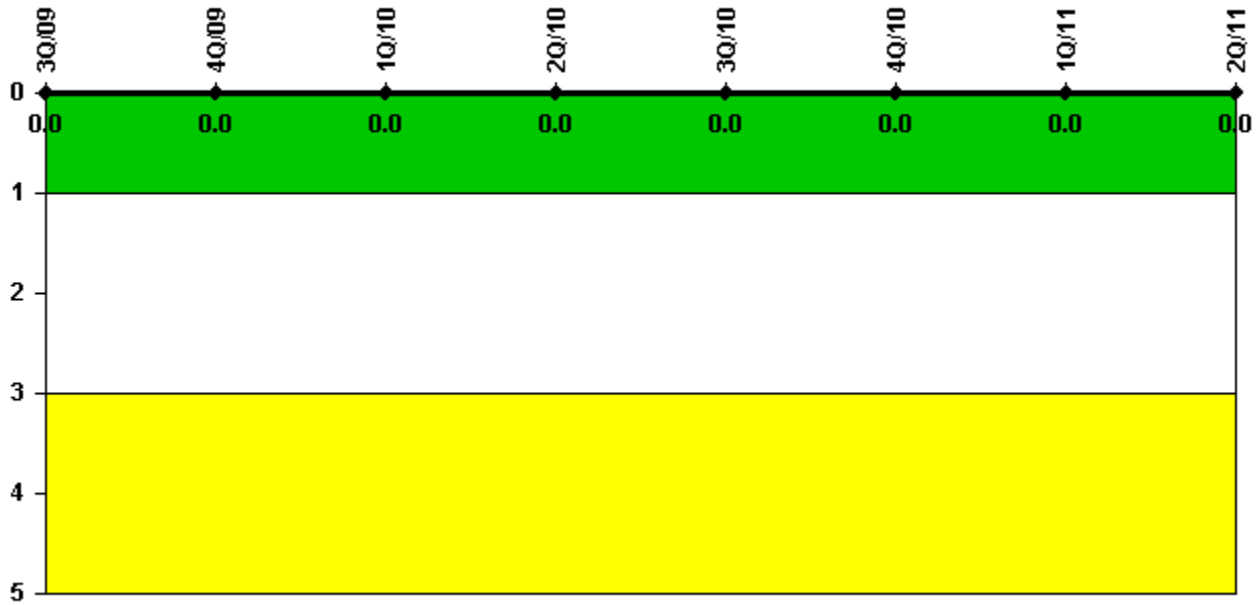
Thresholds: White > 2.0 Yellow > 5.0

## Notes

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

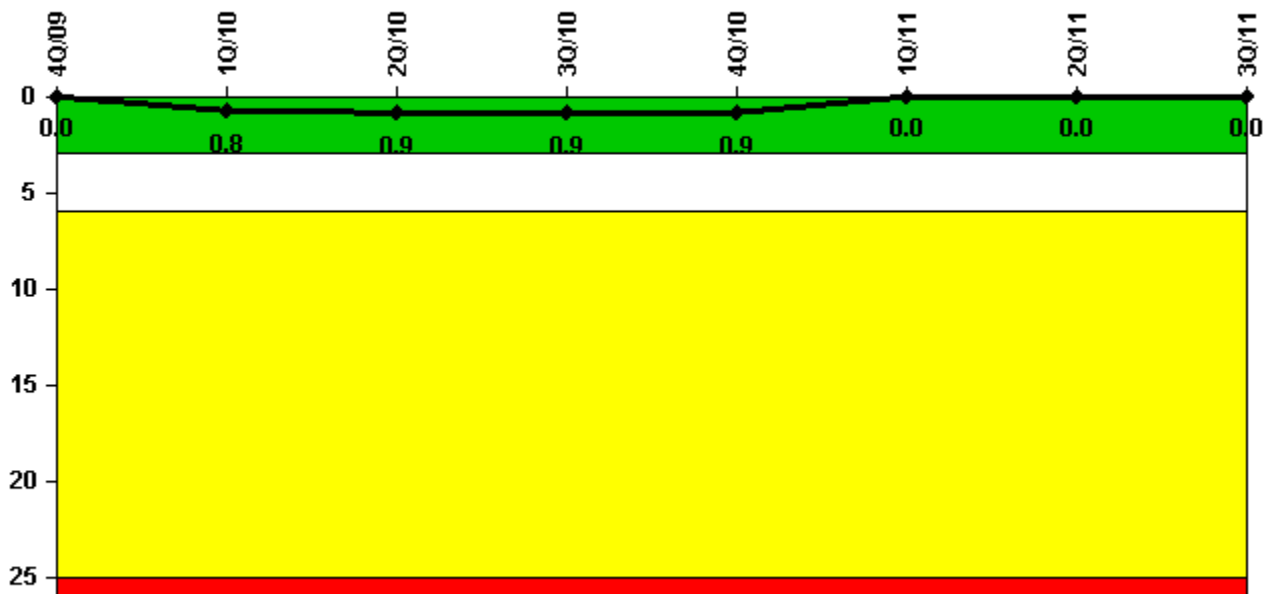
[Security](#) information not publicly available.

# Grand Gulf 1

## 3Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



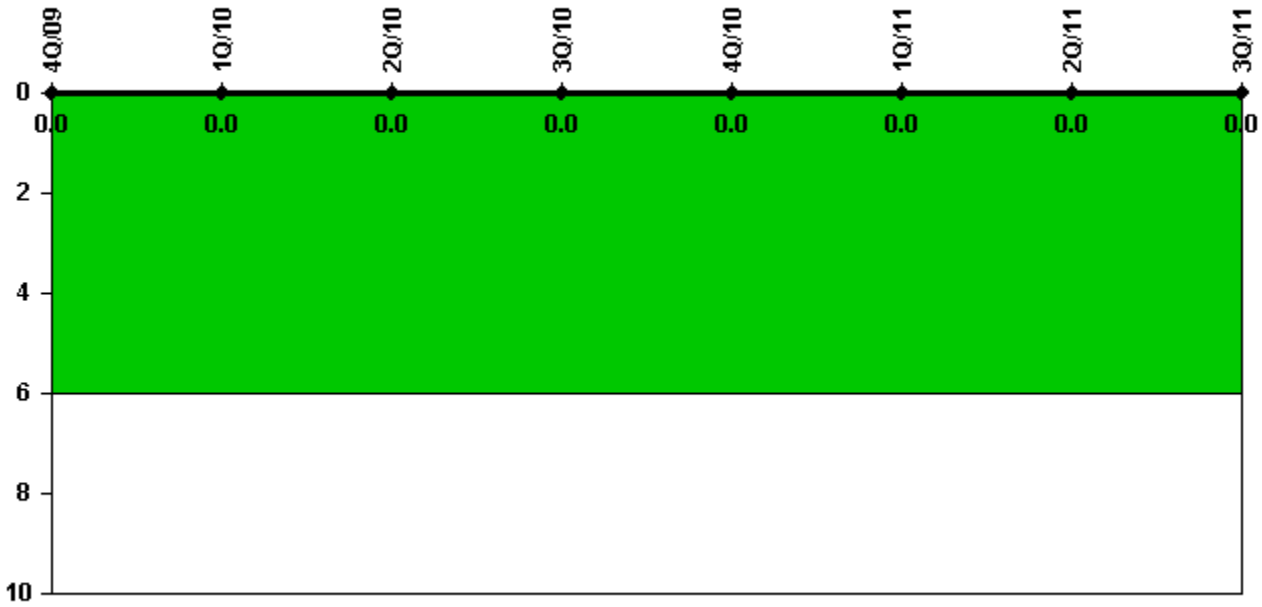
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	1.0	0	0	0	0	0	0
Critical hours	2209.0	2094.0	1506.9	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	0	0.8	0.9	0.9	0.9	0	0	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

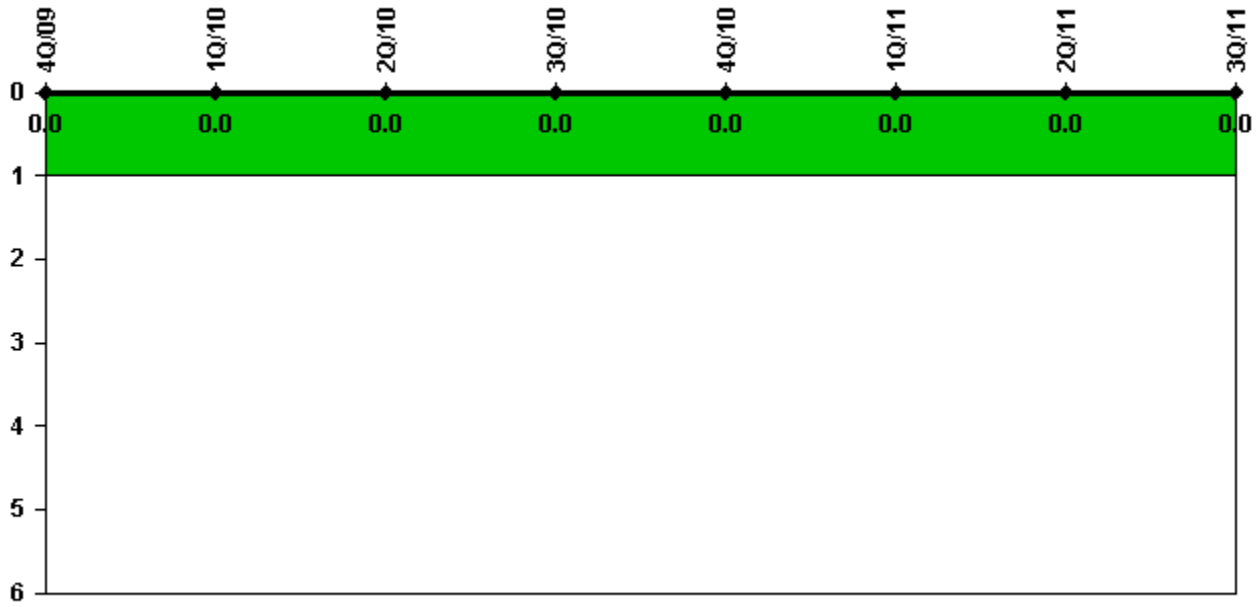
### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2094.0	1506.9	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none



## Unplanned Scrams with Complications



Thresholds: White > 1.0

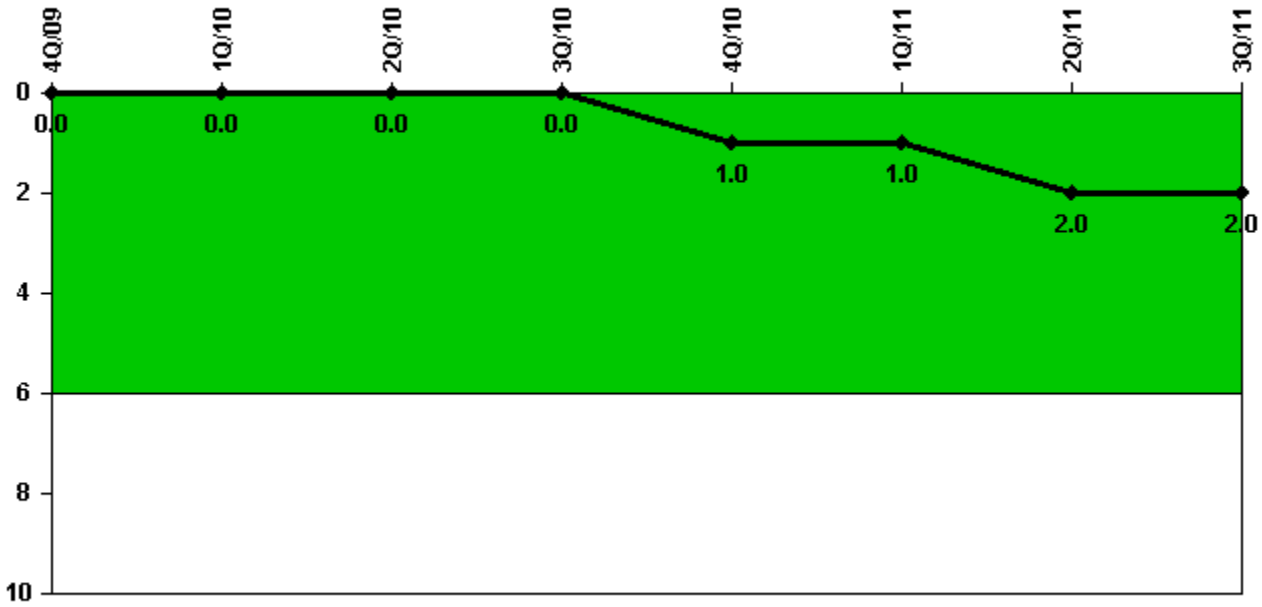
### Notes

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
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

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## Safety System Functional Failures (BWR)



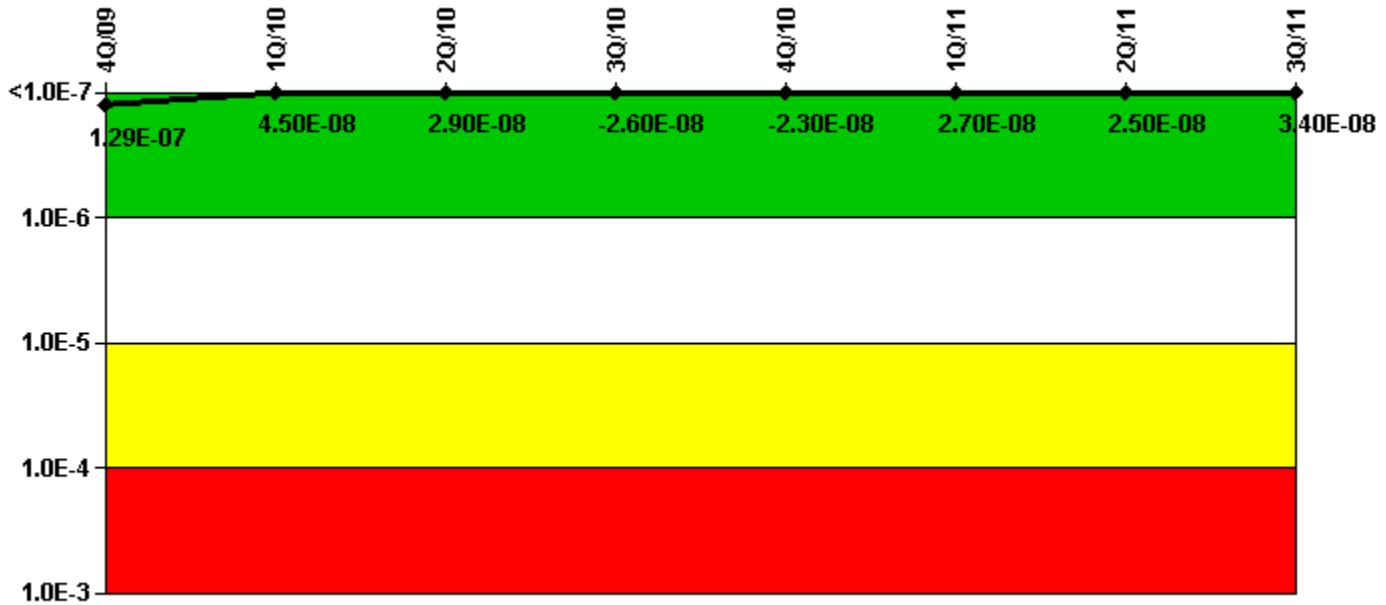
Thresholds: White > 6.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



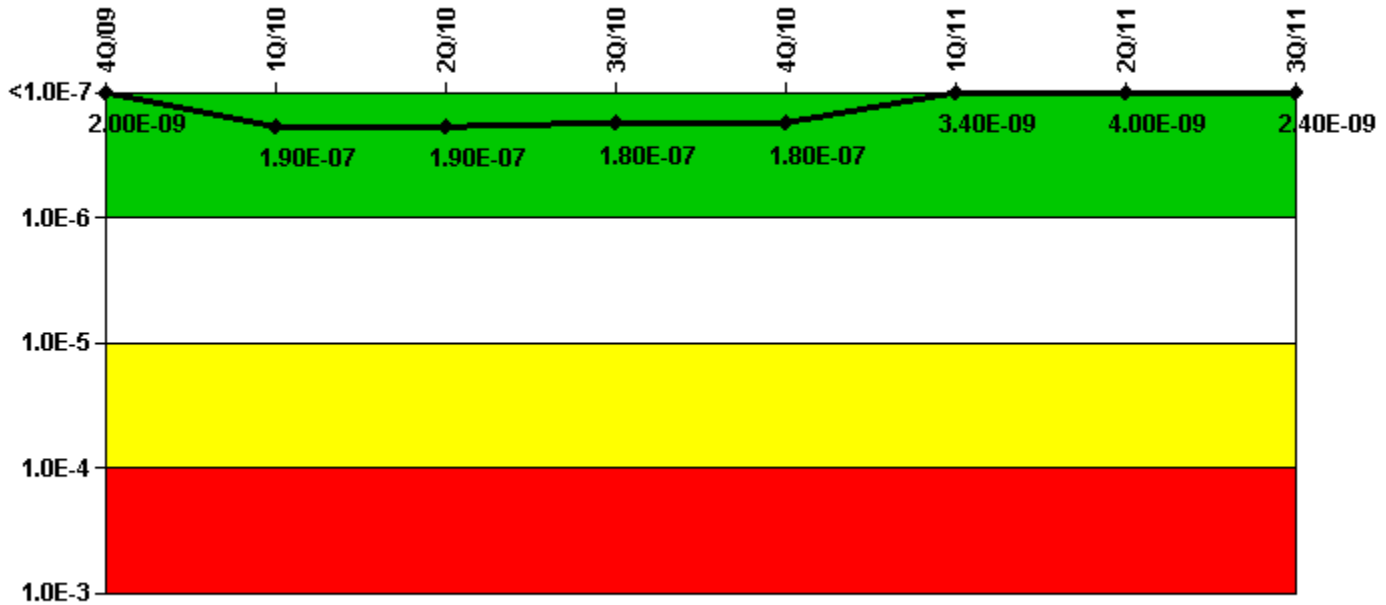
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	1.90E-08	1.36E-08	5.46E-10	-4.41E-09	-4.44E-09	5.68E-09	5.64E-09	4.70E-09
URI ( $\Delta$ CDF)	1.10E-07	3.13E-08	2.85E-08	-2.20E-08	-1.87E-08	2.17E-08	1.97E-08	2.91E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.29E-07	4.50E-08	2.90E-08	-2.60E-08	-2.30E-08	2.70E-08	2.50E-08	3.40E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



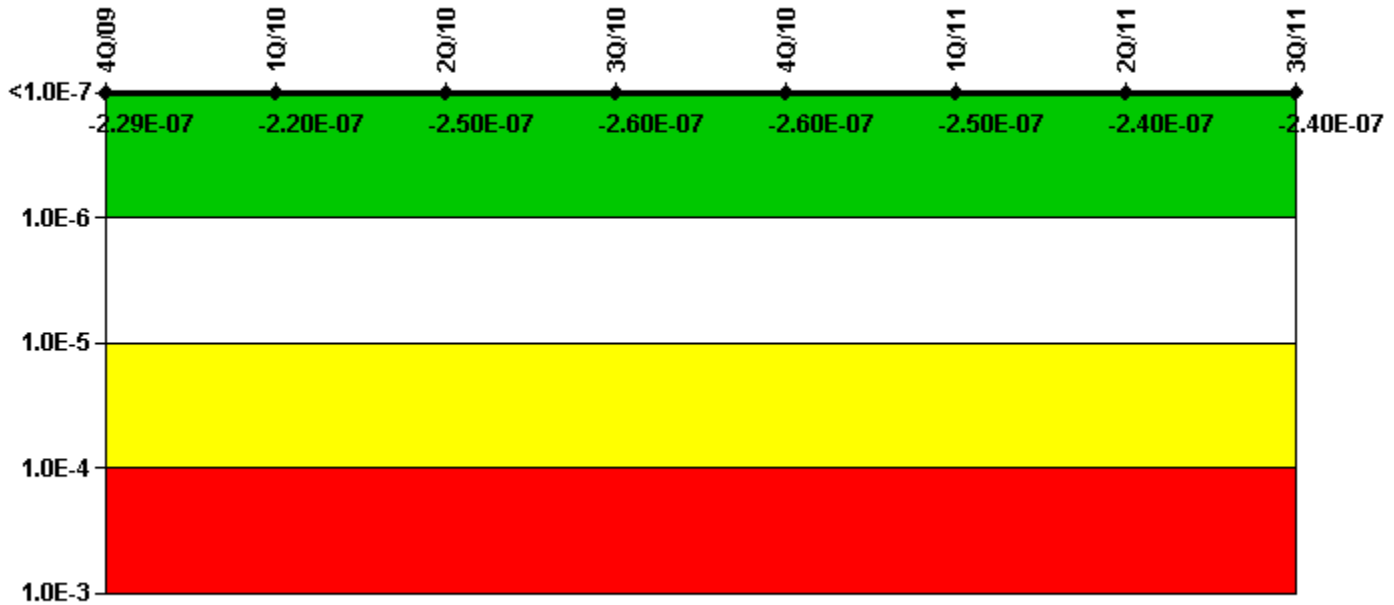
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	5.20E-08	2.47E-07	2.40E-07	2.30E-07	2.30E-07	1.89E-08	1.46E-08	1.36E-08
URI ( $\Delta$ CDF)	-5.00E-08	-5.67E-08	-5.33E-08	-5.34E-08	-5.36E-08	-1.55E-08	-1.06E-08	-1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-09	1.90E-07	1.90E-07	1.80E-07	1.80E-07	3.40E-09	4.00E-09	2.40E-09

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



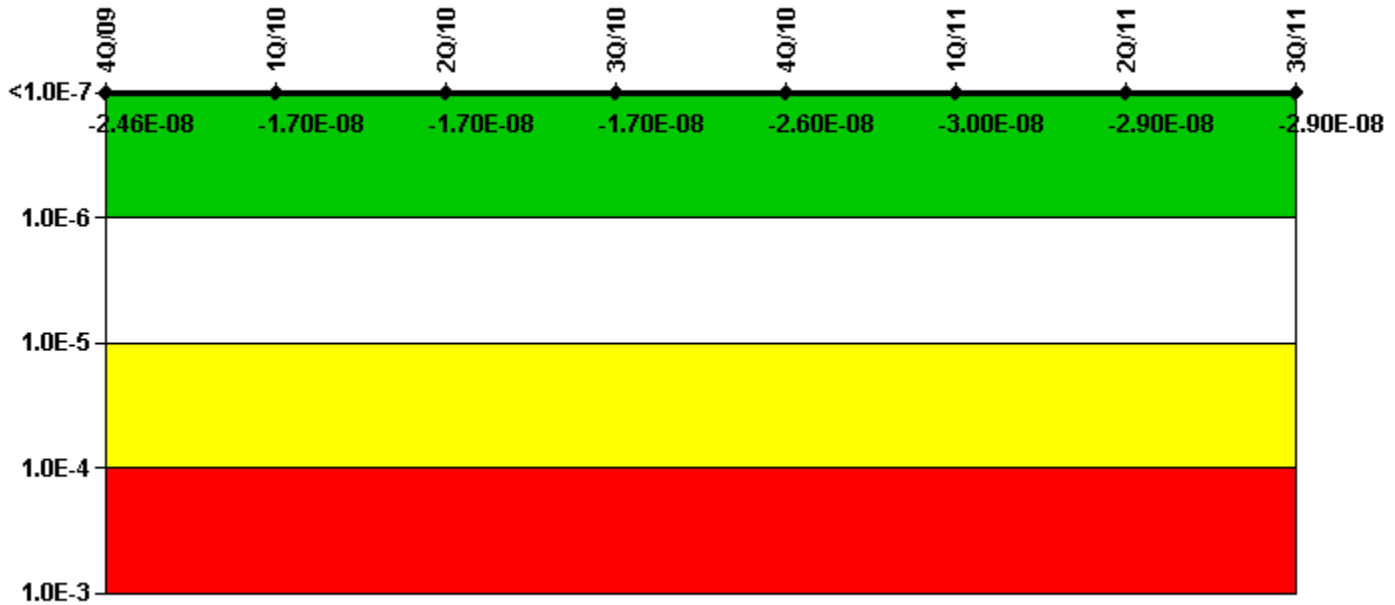
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	-1.90E-08	-1.99E-08	-5.30E-08	-5.31E-08	-5.31E-08	-5.32E-08	-5.32E-08	-5.33E-08
URI ( $\Delta$ CDF)	-2.10E-07	-2.00E-07	-2.01E-07	-2.07E-07	-2.03E-07	-2.00E-07	-1.92E-07	-1.86E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.29E-07	-2.20E-07	-2.50E-07	-2.60E-07	-2.60E-07	-2.50E-07	-2.40E-07	-2.40E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



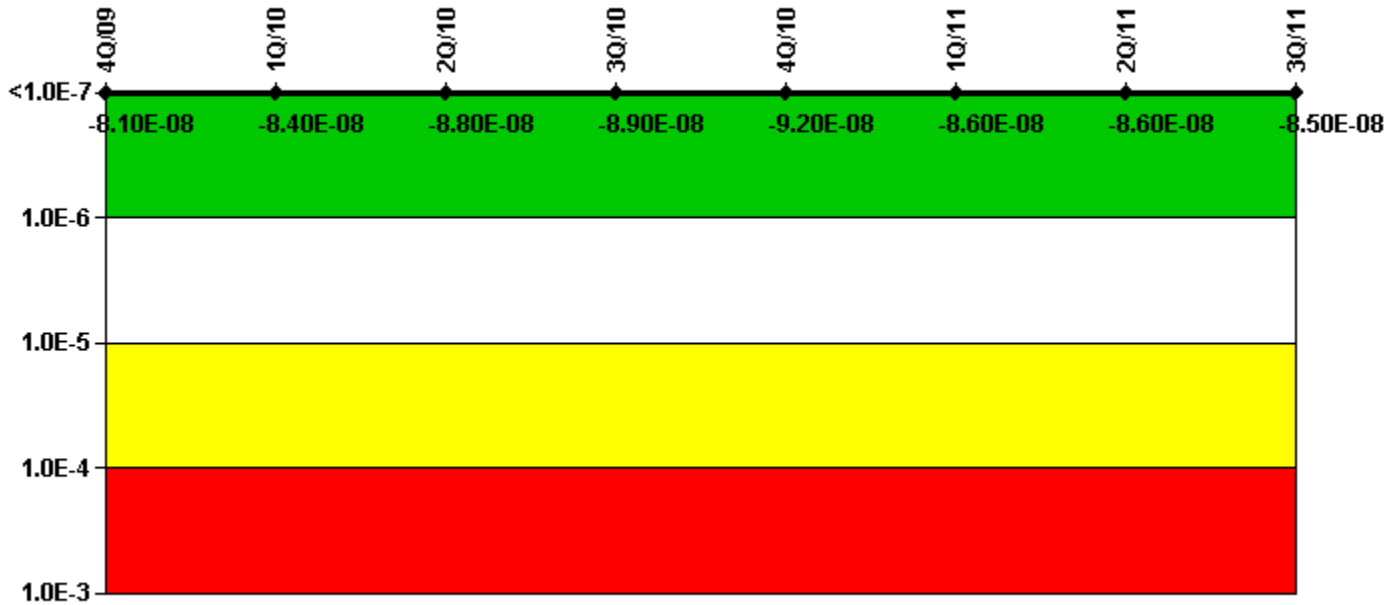
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	-1.60E-09	4.20E-09	4.99E-09	4.54E-09	-4.65E-09	-8.56E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.30E-08	-2.14E-08	-2.21E-08	-2.17E-08	-2.12E-08	-2.11E-08	-2.08E-08	-1.99E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.46E-08	-1.70E-08	-1.70E-08	-1.70E-08	-2.60E-08	-3.00E-08	-2.90E-08	-2.90E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



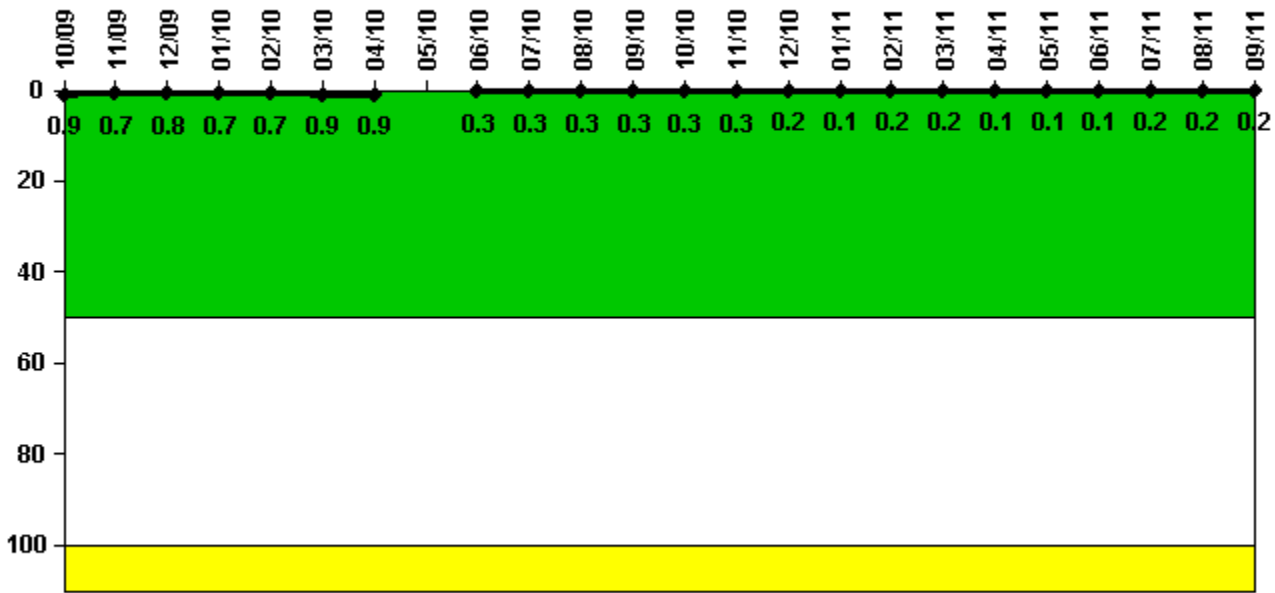
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI ( $\Delta$ CDF)	1.00E-08	5.65E-09	2.33E-09	1.93E-09	-1.71E-09	5.19E-09	5.19E-09	4.92E-09
URI ( $\Delta$ CDF)	-9.10E-08	-8.99E-08	-9.06E-08	-9.05E-08	-9.05E-08	-9.12E-08	-9.10E-08	-9.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.10E-08	-8.40E-08	-8.80E-08	-8.90E-08	-9.20E-08	-8.60E-08	-8.60E-08	-8.50E-08

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

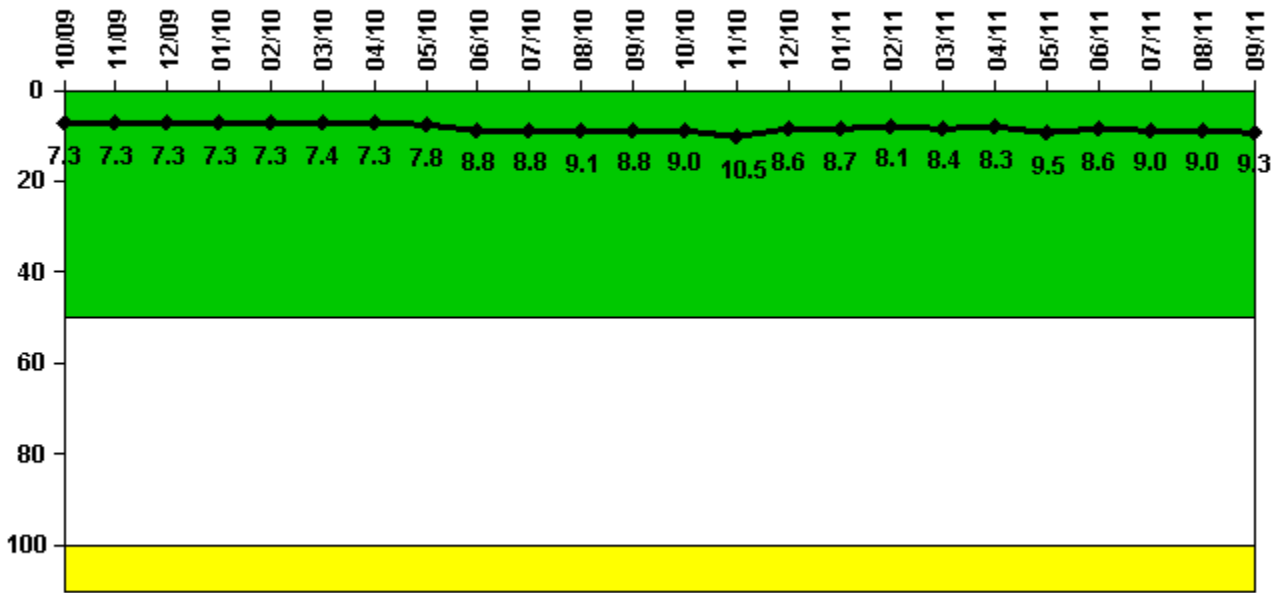
## Notes

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	0.001740	0.001450	0.001600	0.001440	0.001440	0.001710	0.001850	N/A	0.000524	0.000565	0.000572	0.000555
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	0.9	0.7	0.8	0.7	0.7	0.9	0.9	N/A	0.3	0.3	0.3	0.3
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	0.000548	0.000532	0.000336	0.000290	0.000330	0.000328	0.000262	0.000247	0.000257	0.000465	0.000372	0.000326
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	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2

Licensee Comments: none



## Reactor Coolant System Leakage



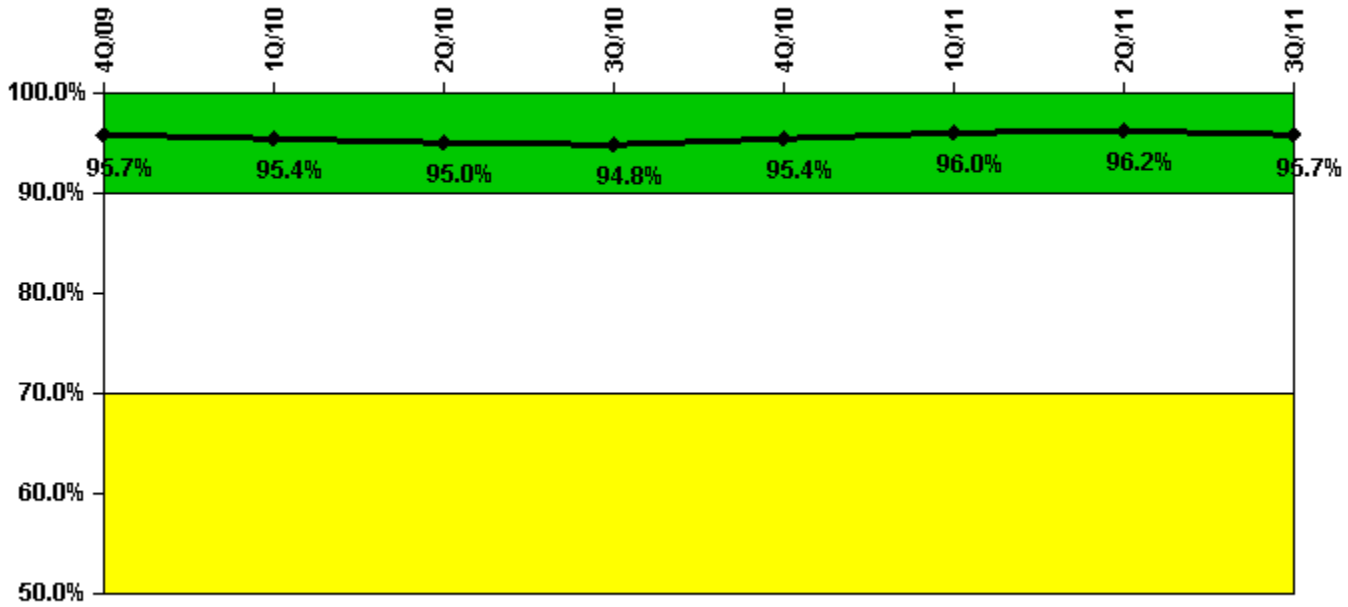
Thresholds: White > 50.0 Yellow > 100.0

### 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	2.180	2.190	2.200	2.190	2.180	2.210	2.190	2.340	2.650	2.650	2.720	2.640
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	<b>7.3</b>	<b>7.3</b>	<b>7.3</b>	<b>7.3</b>	<b>7.3</b>	<b>7.4</b>	<b>7.3</b>	<b>7.8</b>	<b>8.8</b>	<b>8.8</b>	<b>9.1</b>	<b>8.8</b>
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	2.710	3.140	2.590	2.600	2.420	2.510	2.500	2.850	2.570	2.690	2.700	2.780
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	<b>9.0</b>	<b>10.5</b>	<b>8.6</b>	<b>8.7</b>	<b>8.1</b>	<b>8.4</b>	<b>8.3</b>	<b>9.5</b>	<b>8.6</b>	<b>9.0</b>	<b>9.0</b>	<b>9.3</b>

Licensee Comments: none

## Drill/Exercise Performance



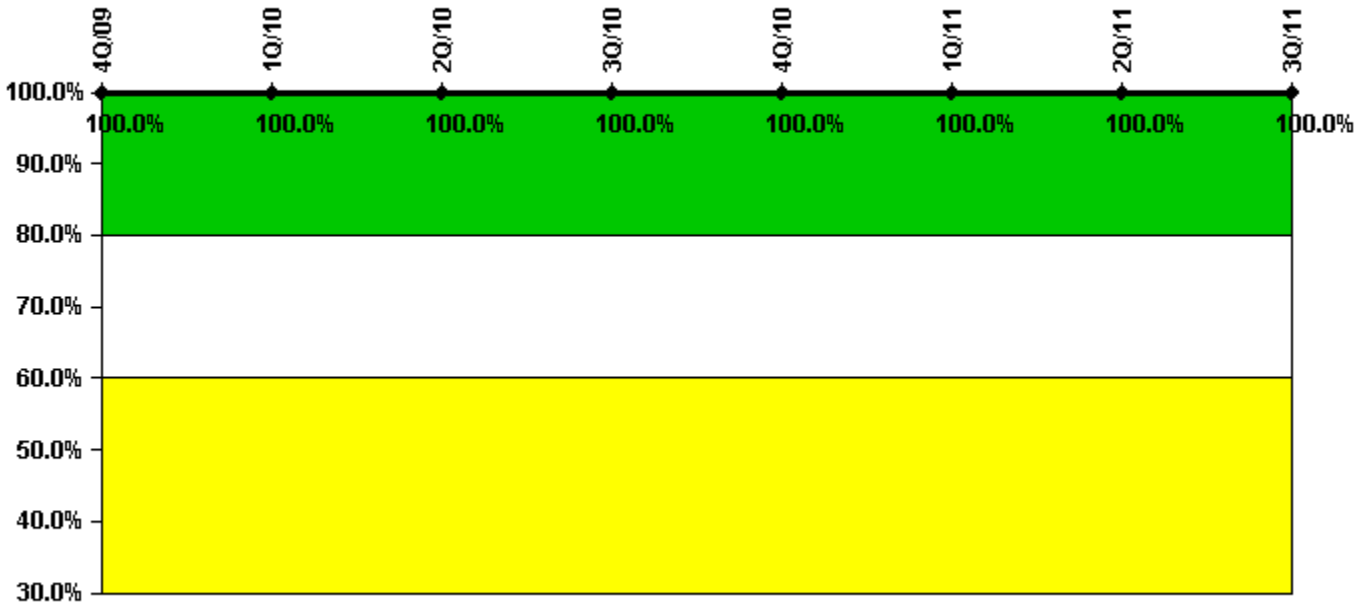
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	18.0	10.0	24.0	41.0	22.0	28.0	29.0	28.0
Total opportunities	18.0	12.0	25.0	43.0	23.0	28.0	29.0	31.0
<b>Indicator value</b>	<b>95.7%</b>	<b>95.4%</b>	<b>95.0%</b>	<b>94.8%</b>	<b>95.4%</b>	<b>96.0%</b>	<b>96.2%</b>	<b>95.7%</b>

Licensee Comments: none

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

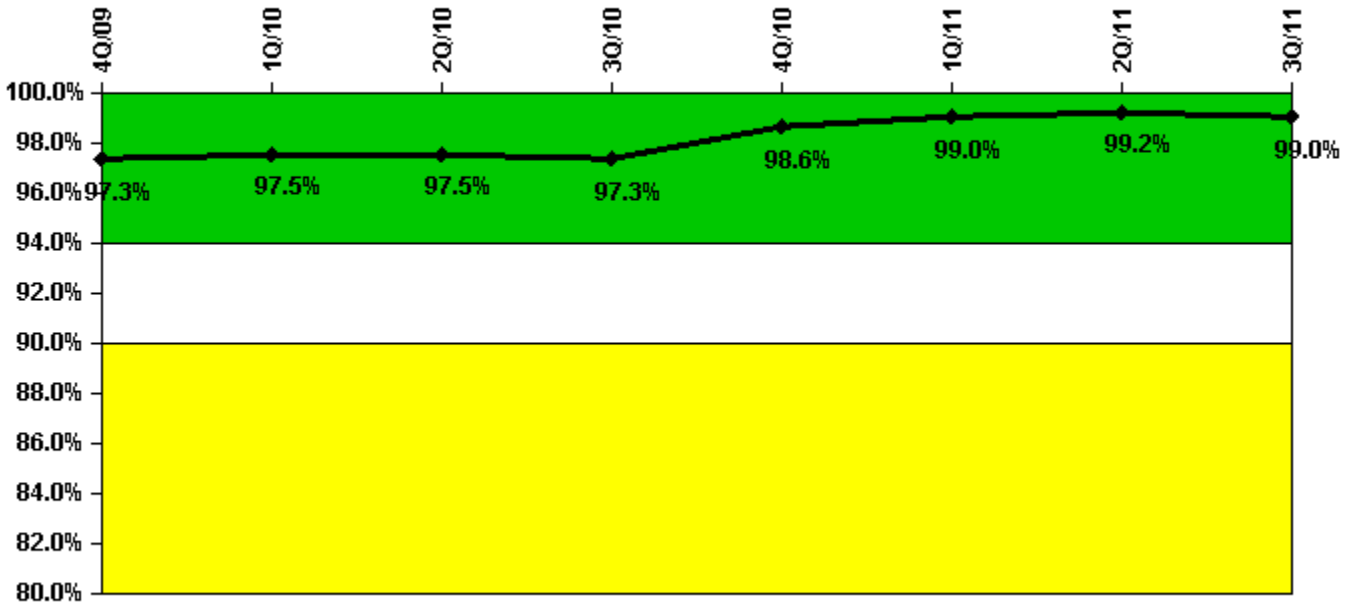
### Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	64.0	64.0	65.0	65.0	64.0	68.0	70.0	68.0
Total Key personnel	64.0	64.0	65.0	65.0	64.0	68.0	70.0	68.0
<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

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# Alert & Notification System



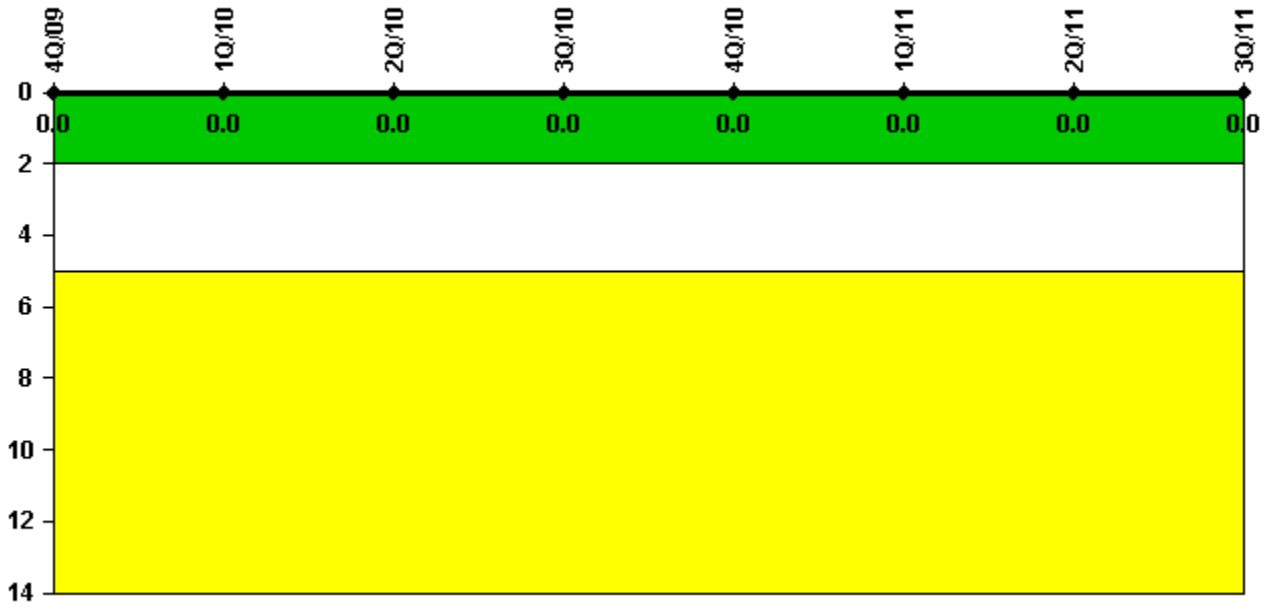
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	122	127	126	126	129	129	121	122
Total sirens-tests	129	129	128	129	129	129	122	126
Indicator value	97.3%	97.5%	97.5%	97.3%	98.6%	99.0%	99.2%	99.0%

Licensee Comments: none

## Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

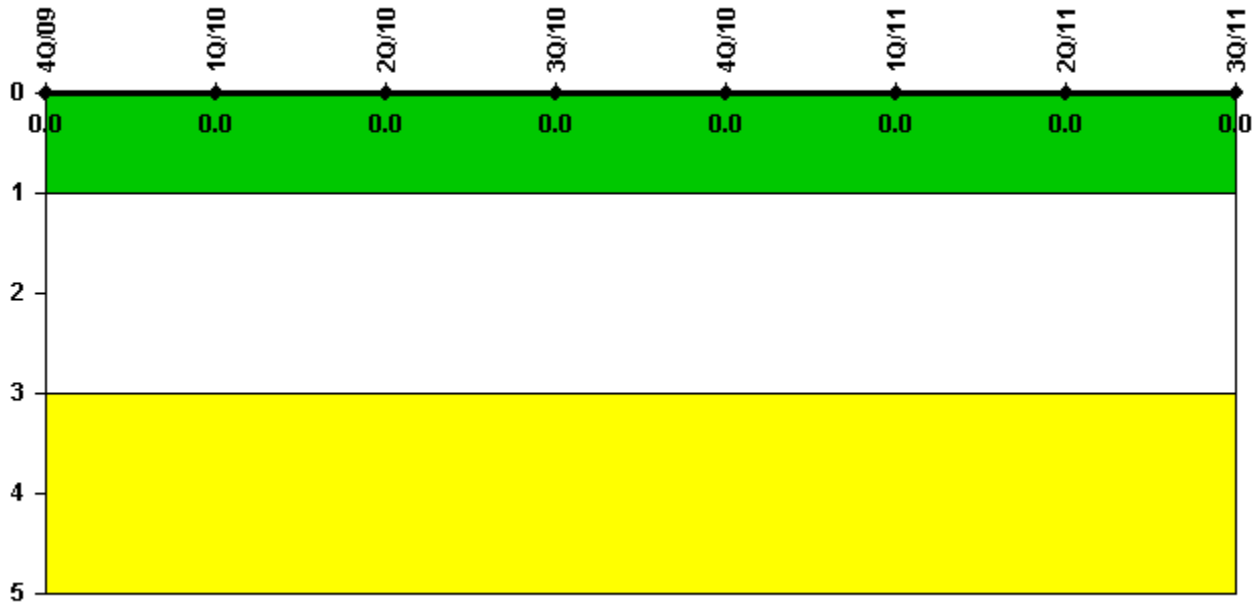
### Notes

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

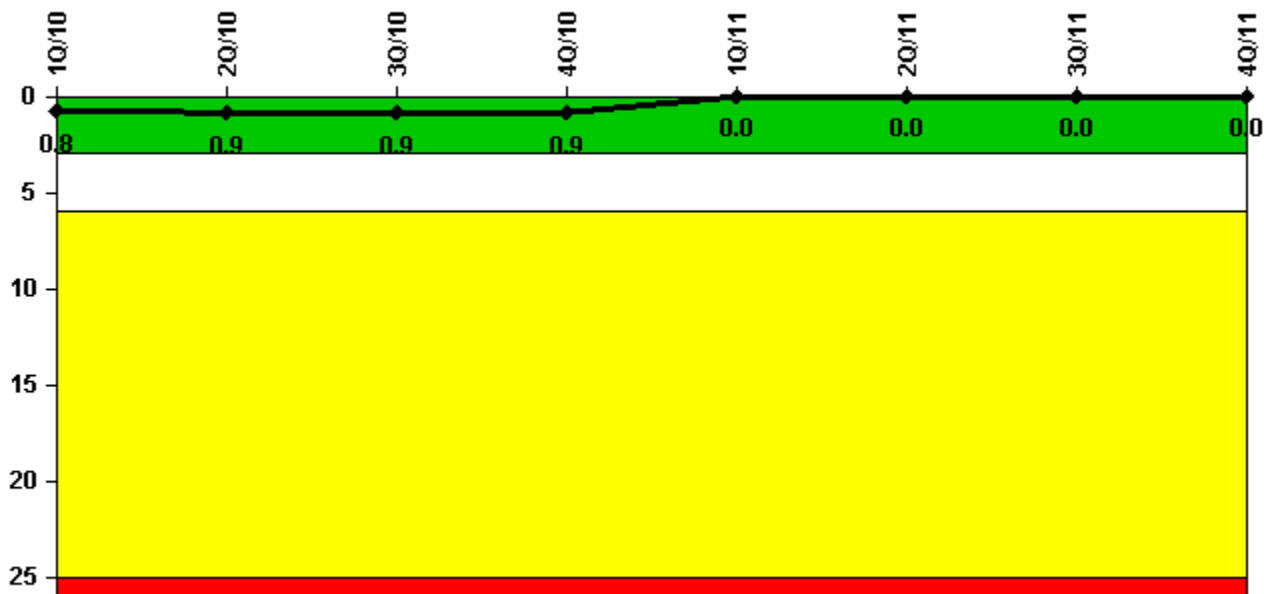
[Security](#) information not publicly available.

# Grand Gulf 1

## 4Q/2011 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



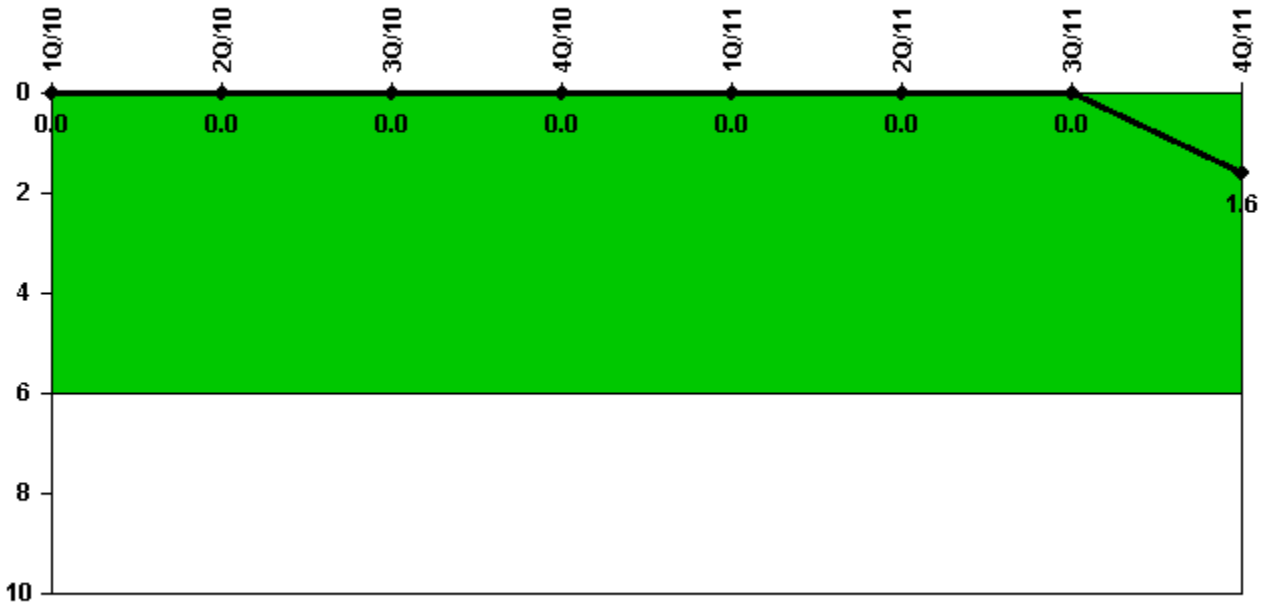
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2094.0	1506.9	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0
Indicator value	0.8	0.9	0.9	0.9	0	0	0	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

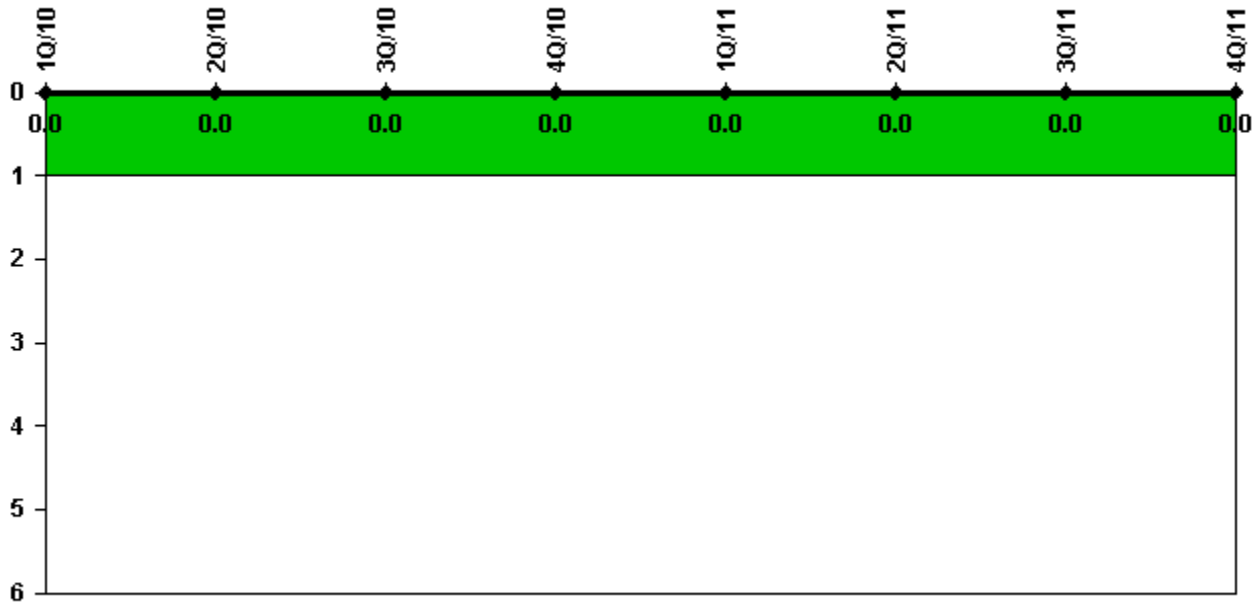
Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	0	0	0	0	2.0
Critical hours	2094.0	1506.9	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.6</b>

Licensee Comments:

4Q/11: Two unplanned Downpowers >20% in November: Feed pump trip and Partial PSW Loss.



# Unplanned Scrams with Complications



Thresholds: White > 1.0

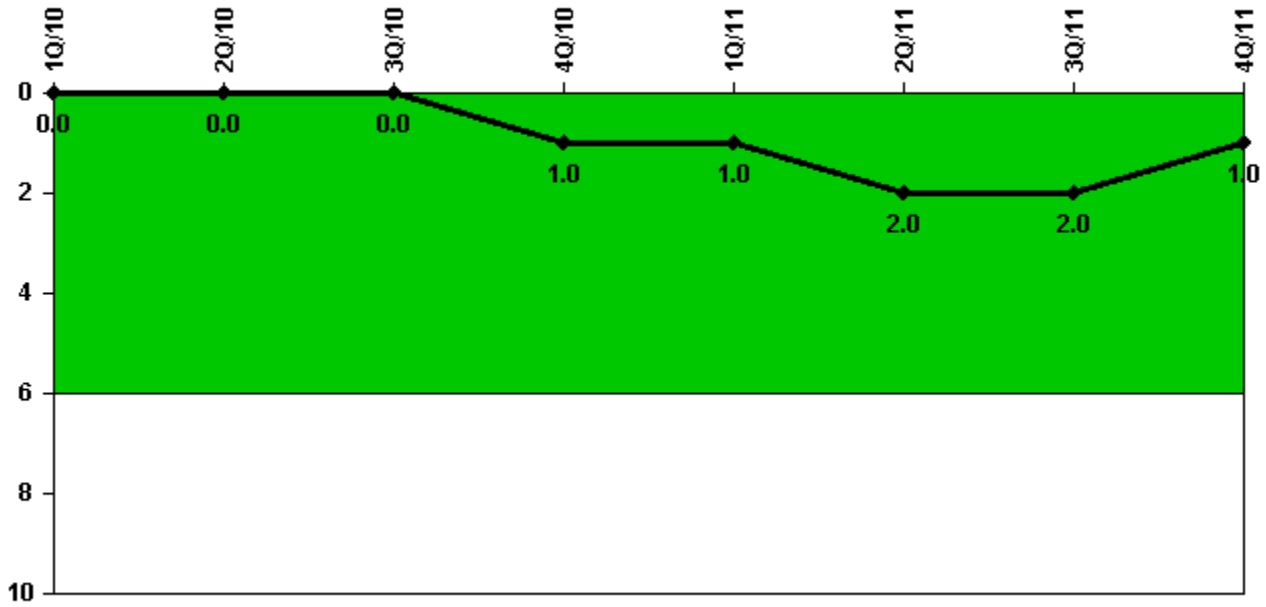
## Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

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## Safety System Functional Failures (BWR)



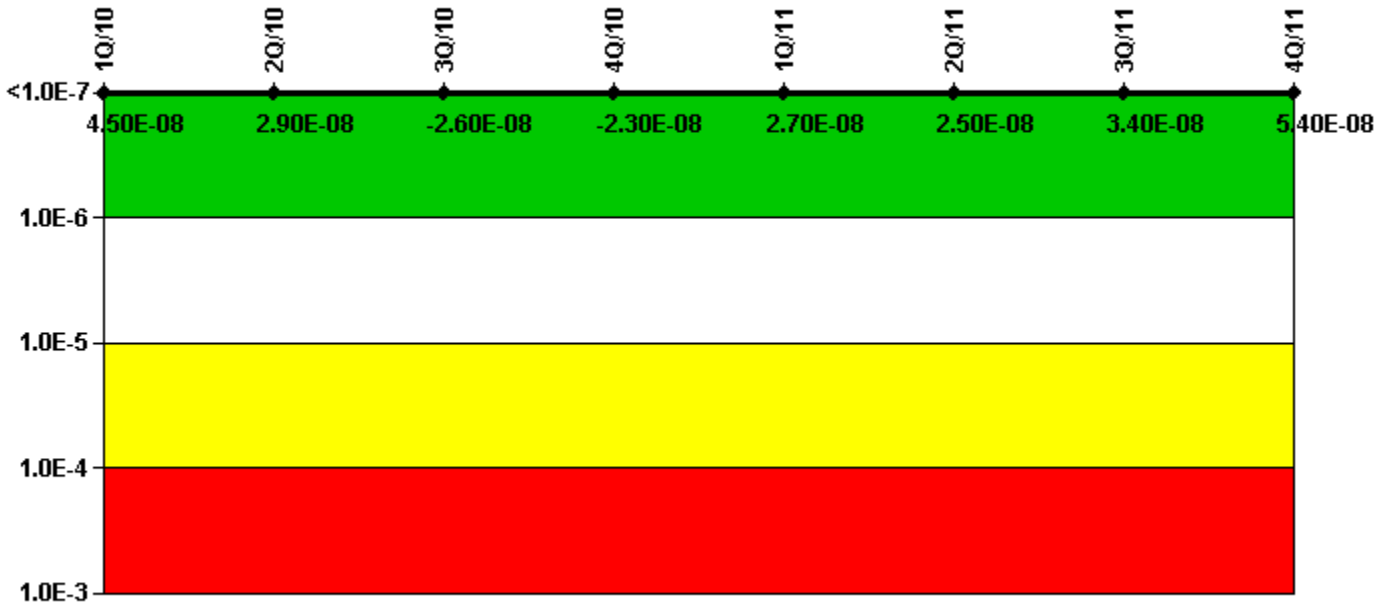
Thresholds: White > 6.0

### Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



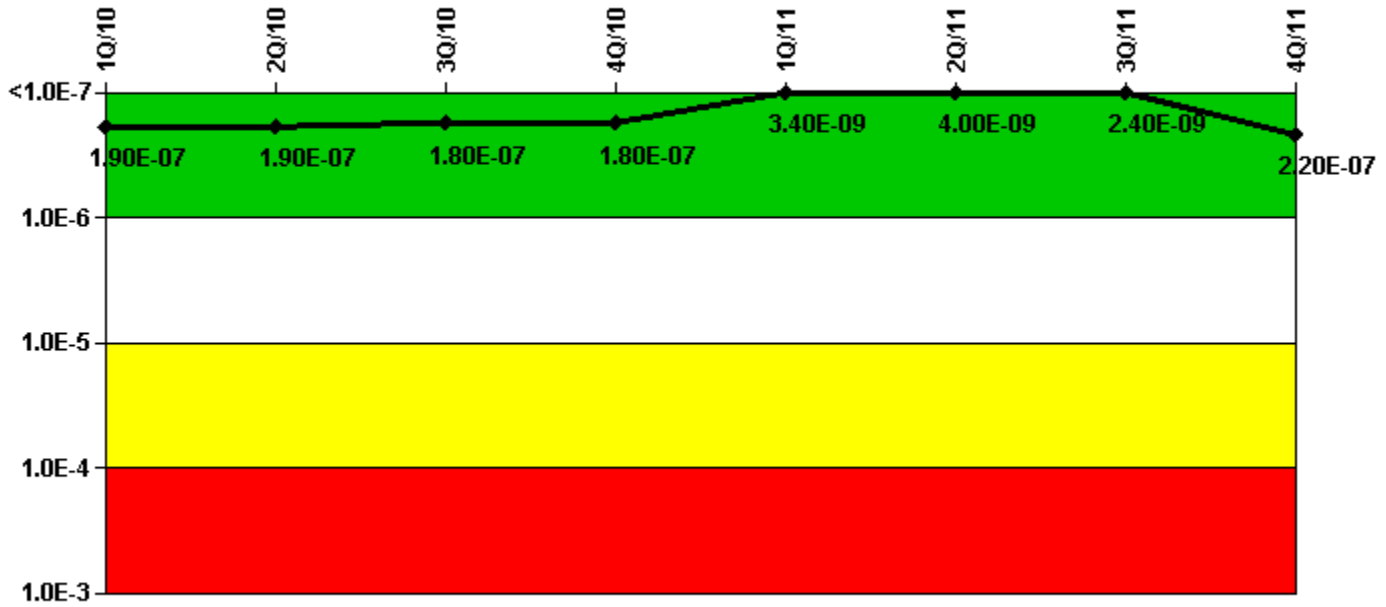
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI ( $\Delta$ CDF)	1.36E-08	5.46E-10	-4.41E-09	-4.44E-09	5.68E-09	5.64E-09	4.70E-09	6.70E-09
URI ( $\Delta$ CDF)	3.13E-08	2.85E-08	-2.20E-08	-1.87E-08	2.17E-08	1.97E-08	2.91E-08	4.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.50E-08	2.90E-08	-2.60E-08	-2.30E-08	2.70E-08	2.50E-08	3.40E-08	5.40E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



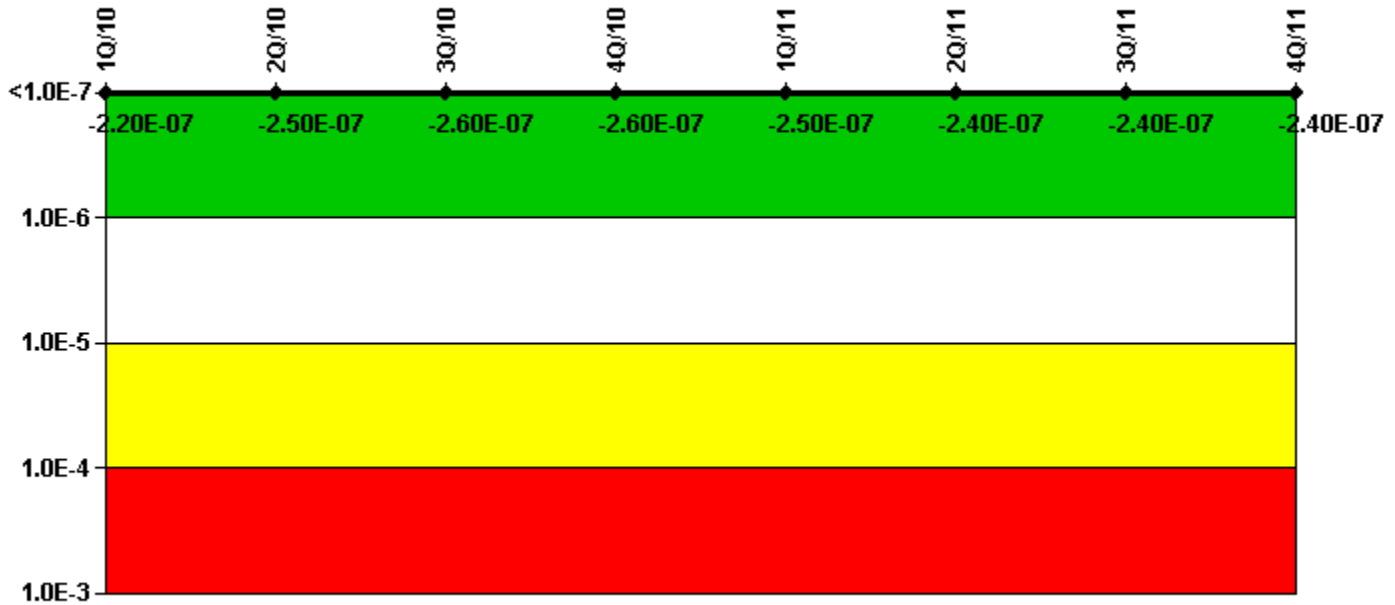
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	2.47E-07	2.40E-07	2.30E-07	2.30E-07	1.89E-08	1.46E-08	1.36E-08	2.39E-07
URI (ΔCDF)	-5.67E-08	-5.33E-08	-5.34E-08	-5.36E-08	-1.55E-08	-1.06E-08	-1.12E-08	-1.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.90E-07	1.90E-07	1.80E-07	1.80E-07	3.40E-09	4.00E-09	2.40E-09	2.20E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



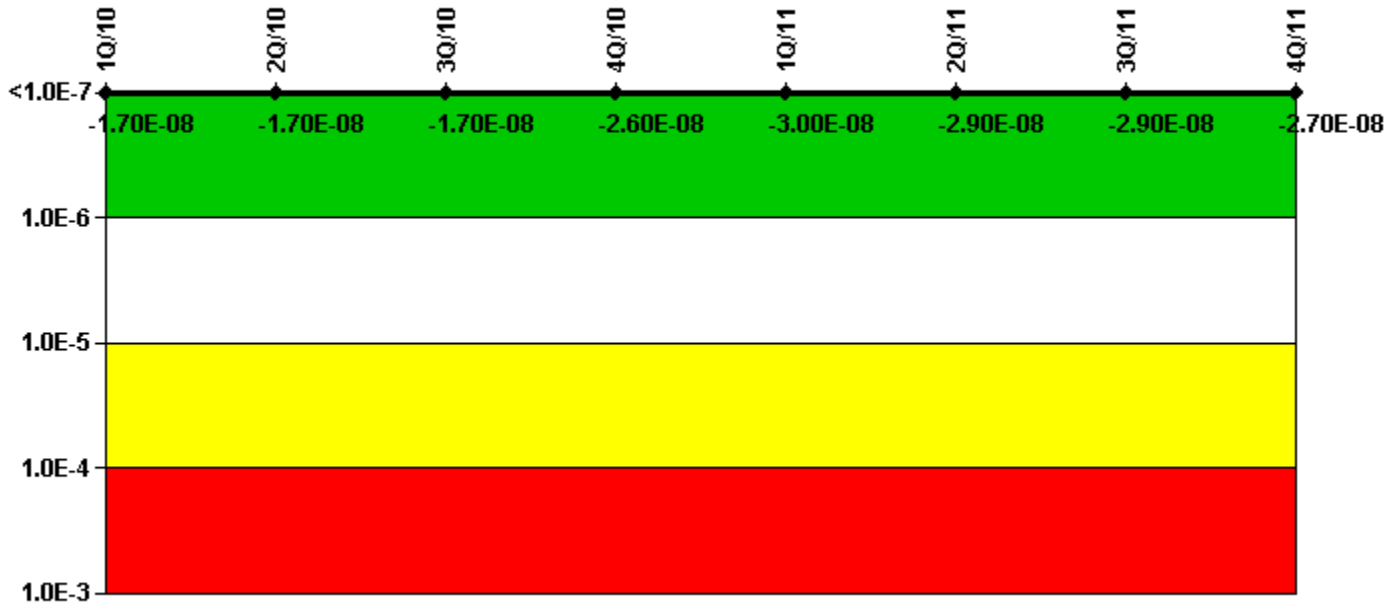
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI ( $\Delta$ CDF)	-1.99E-08	-5.30E-08	-5.31E-08	-5.31E-08	-5.32E-08	-5.32E-08	-5.33E-08	-6.20E-08
URI ( $\Delta$ CDF)	-2.00E-07	-2.01E-07	-2.07E-07	-2.03E-07	-2.00E-07	-1.92E-07	-1.86E-07	-1.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-07	-2.50E-07	-2.60E-07	-2.60E-07	-2.50E-07	-2.40E-07	-2.40E-07	-2.40E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



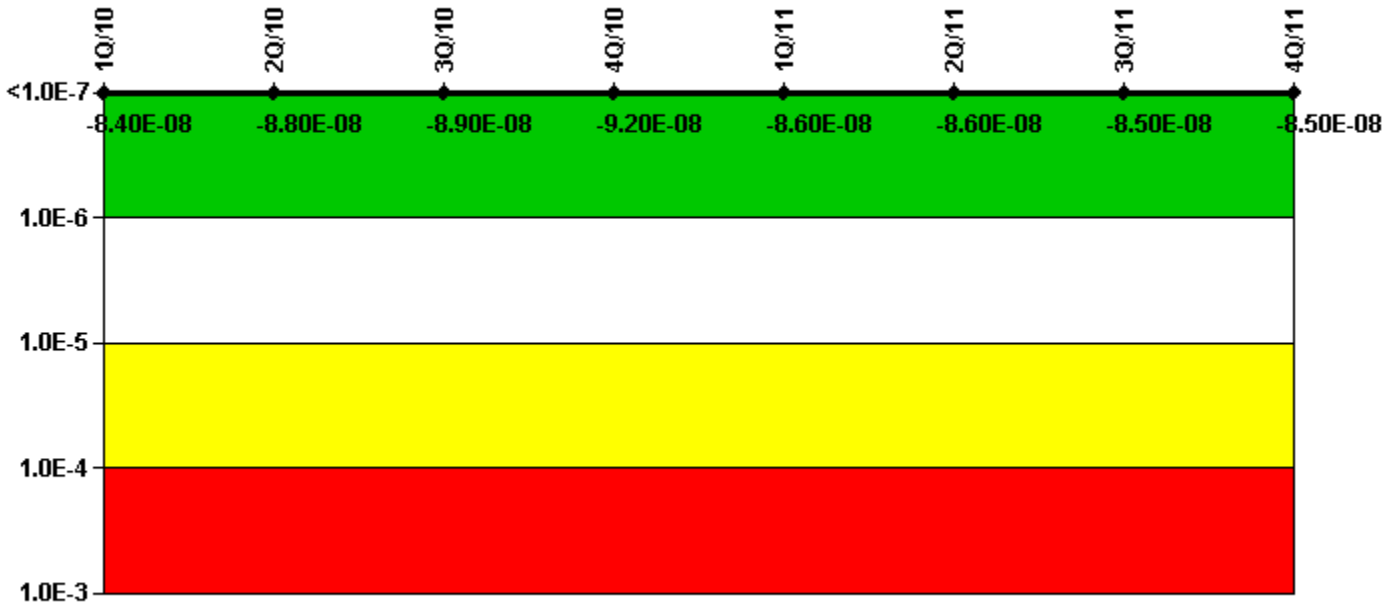
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI ( $\Delta$ CDF)	4.20E-09	4.99E-09	4.54E-09	-4.65E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.14E-08	-2.21E-08	-2.17E-08	-2.12E-08	-2.11E-08	-2.08E-08	-1.99E-08	-1.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-08	-1.70E-08	-1.70E-08	-2.60E-08	-3.00E-08	-2.90E-08	-2.90E-08	-2.70E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



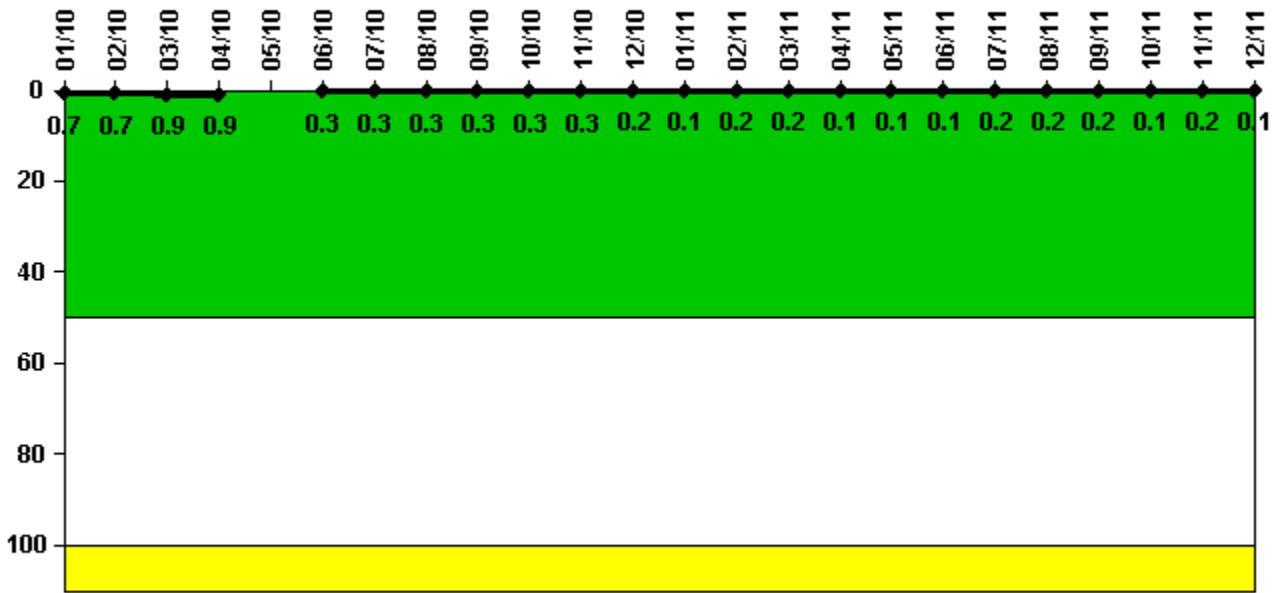
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI ( $\Delta$ CDF)	5.65E-09	2.33E-09	1.93E-09	-1.71E-09	5.19E-09	5.19E-09	4.92E-09	4.27E-09
URI ( $\Delta$ CDF)	-8.99E-08	-9.06E-08	-9.05E-08	-9.05E-08	-9.12E-08	-9.10E-08	-9.01E-08	-8.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.40E-08	-8.80E-08	-8.90E-08	-9.20E-08	-8.60E-08	-8.60E-08	-8.50E-08	-8.50E-08

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum activity	0.001440	0.001440	0.001710	0.001850	N/A	0.000524	0.000565	0.000572	0.000555	0.000548	0.000532	0.000336
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	0.7	0.7	0.9	0.9	N/A	0.3	0.3	0.3	0.3	0.3	0.3	0.2

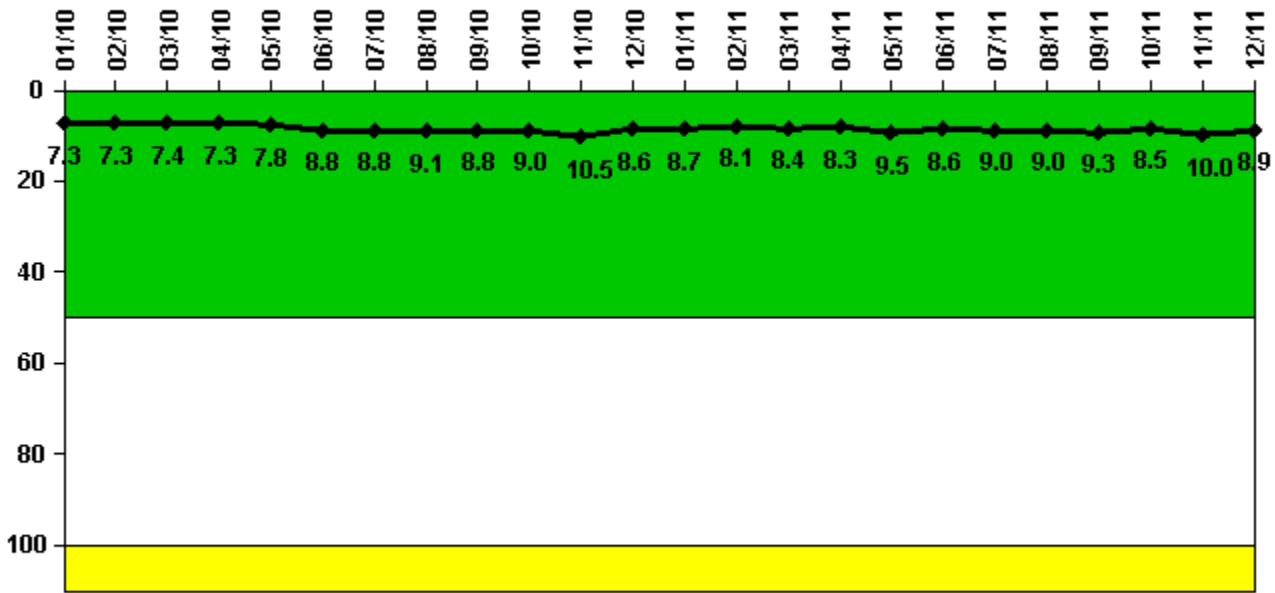
  

Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000290	0.000330	0.000328	0.000262	0.000247	0.000257	0.000465	0.000372	0.000326	0.000284	0.000327	0.000254
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1

Licensee Comments: none



## Reactor Coolant System Leakage



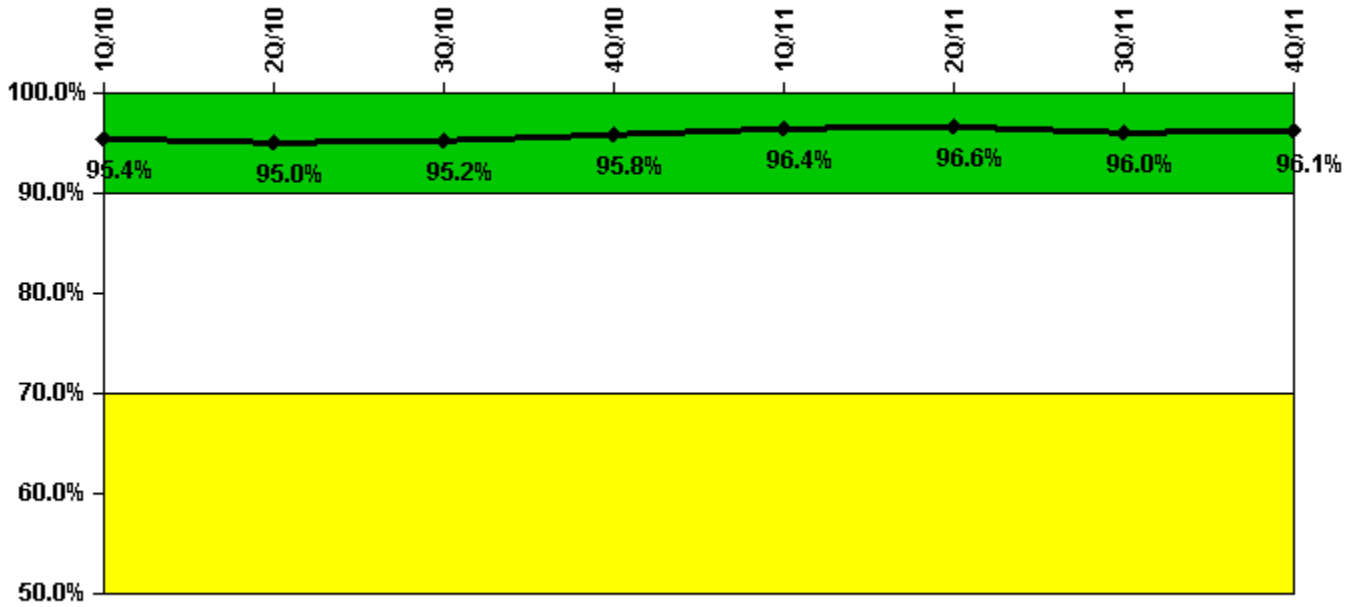
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	2.190	2.180	2.210	2.190	2.340	2.650	2.650	2.720	2.640	2.710	3.140	2.590
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.3	7.3	7.4	7.3	7.8	8.8	8.8	9.1	8.8	9.0	10.5	8.6
Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	2.600	2.420	2.510	2.500	2.850	2.570	2.690	2.700	2.780	2.560	3.000	2.680
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.7	8.1	8.4	8.3	9.5	8.6	9.0	9.0	9.3	8.5	10.0	8.9

Licensee Comments: none

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

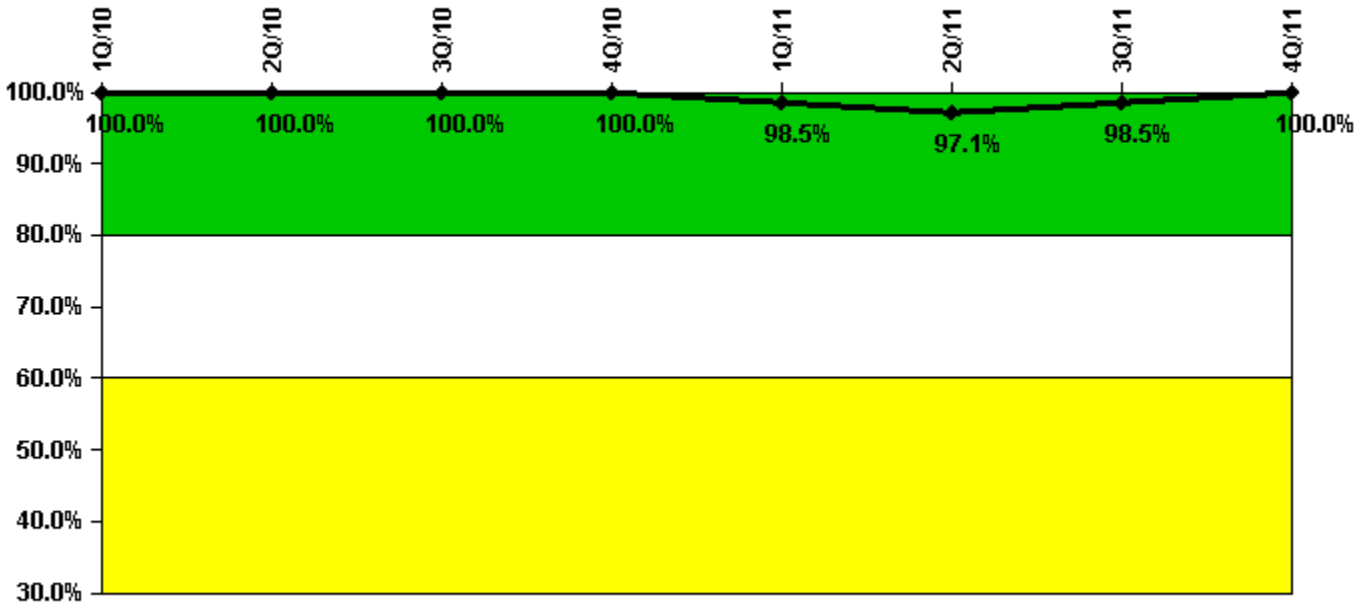
### Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	10.0	24.0	34.0	22.0	28.0	29.0	28.0	47.0
Total opportunities	12.0	25.0	35.0	23.0	28.0	29.0	31.0	48.0
<b>Indicator value</b>	<b>95.4%</b>	<b>95.0%</b>	<b>95.2%</b>	<b>95.8%</b>	<b>96.4%</b>	<b>96.6%</b>	<b>96.0%</b>	<b>96.1%</b>

Licensee Comments:

3Q/10: August DEP changed from 16 of 17 to 9 of 9. - CR-GGN-2011-08346. Color of indicator not affected.

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	64.0	65.0	65.0	64.0	67.0	68.0	67.0	70.0
Total Key personnel	64.0	65.0	65.0	64.0	68.0	70.0	68.0	70.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>98.5%</b>	<b>97.1%</b>	<b>98.5%</b>	<b>100.0%</b>

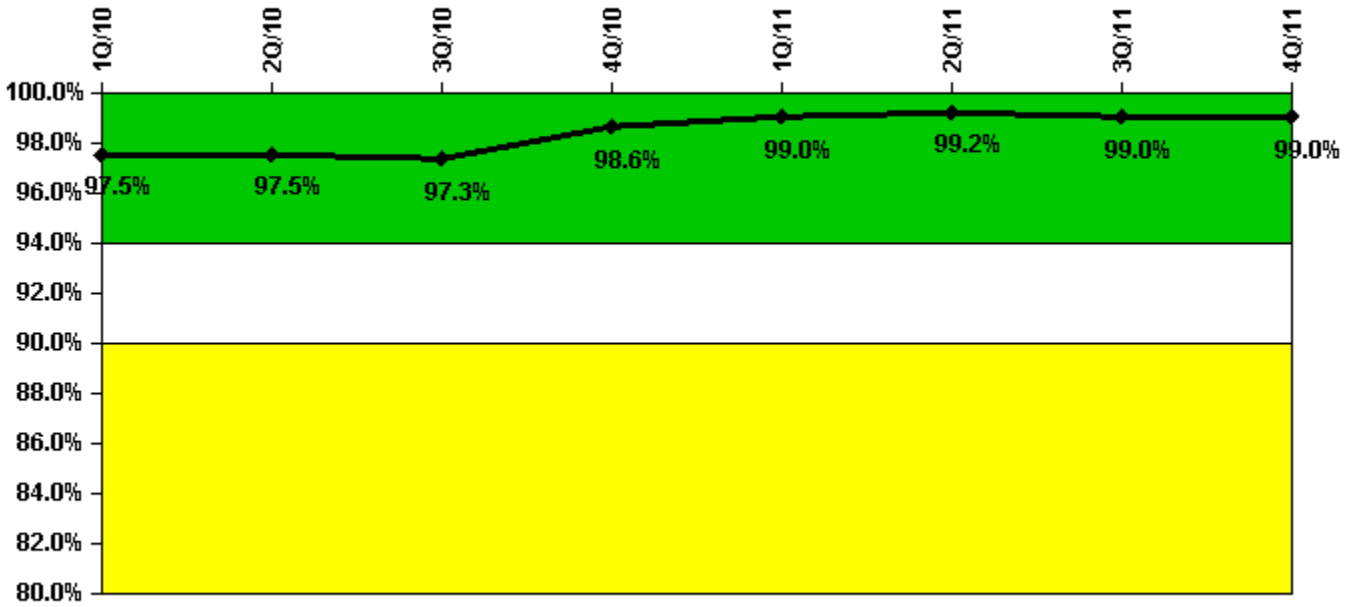
Licensee Comments:

3Q/11: Participating key personnel revised from 68 to 67 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

2Q/11: Participating key personnel revised from 70 to 68 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

1Q/11: Participating key personnel revised from 68 to 67 in March for this quarterly indicator - CR-GGN-2011-08346. No change in indicator color.

# Alert & Notification System



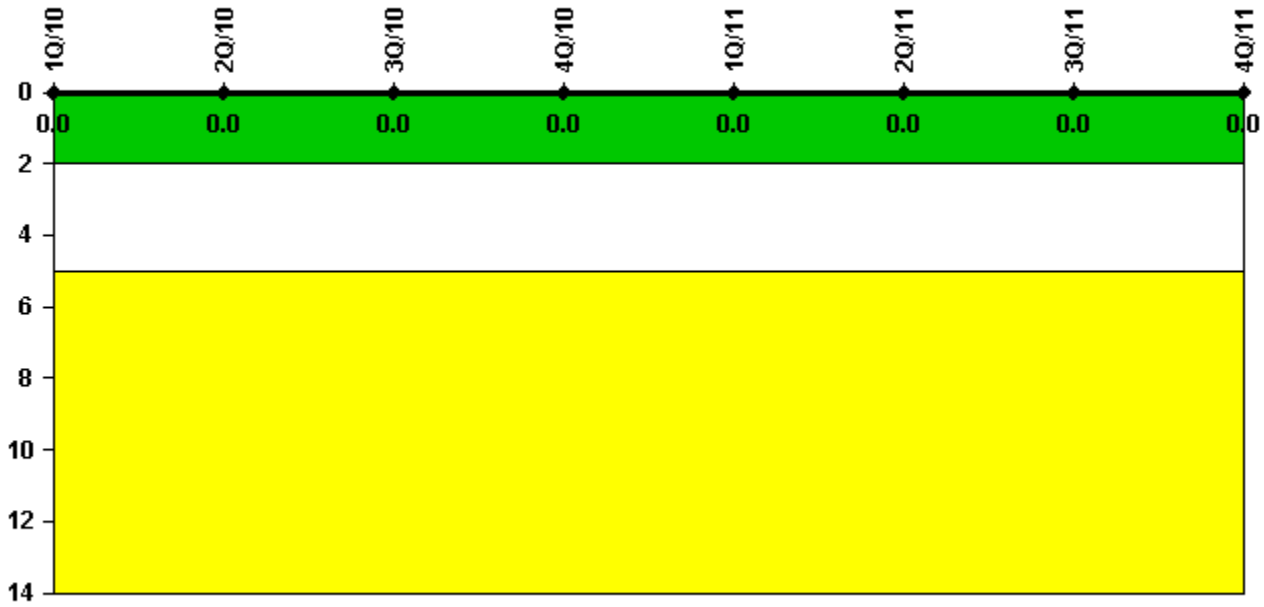
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	127	126	126	129	129	121	122	129
Total sirens-tests	129	128	129	129	129	122	126	129
<b>Indicator value</b>	<b>97.5%</b>	<b>97.5%</b>	<b>97.3%</b>	<b>98.6%</b>	<b>99.0%</b>	<b>99.2%</b>	<b>99.0%</b>	<b>99.0%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

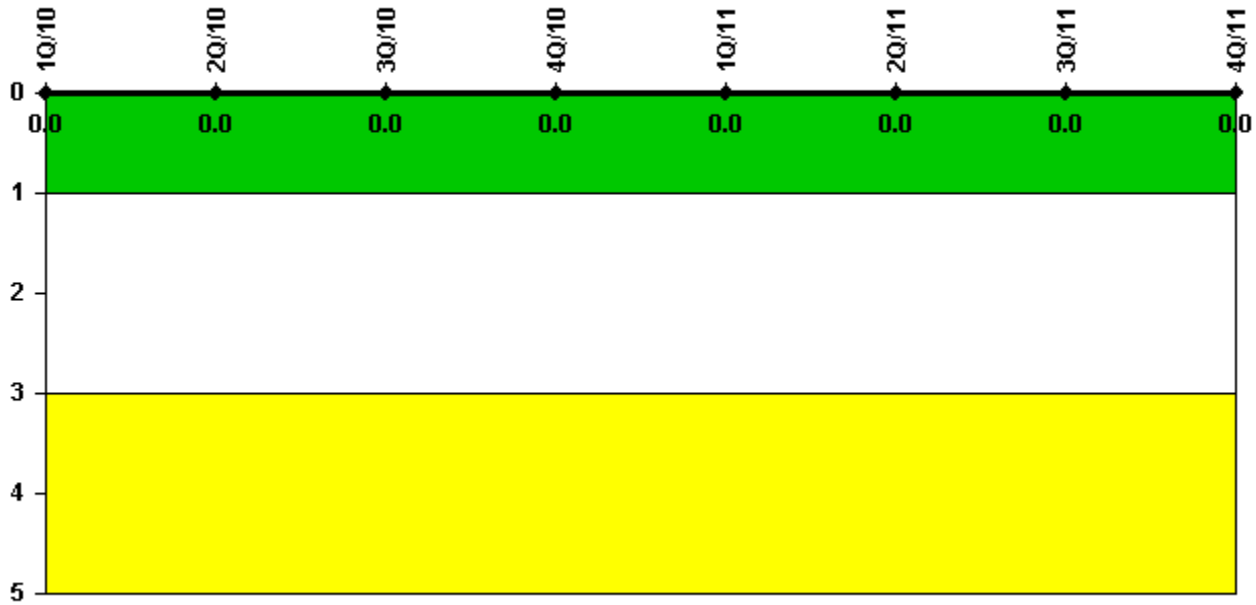
## Notes

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

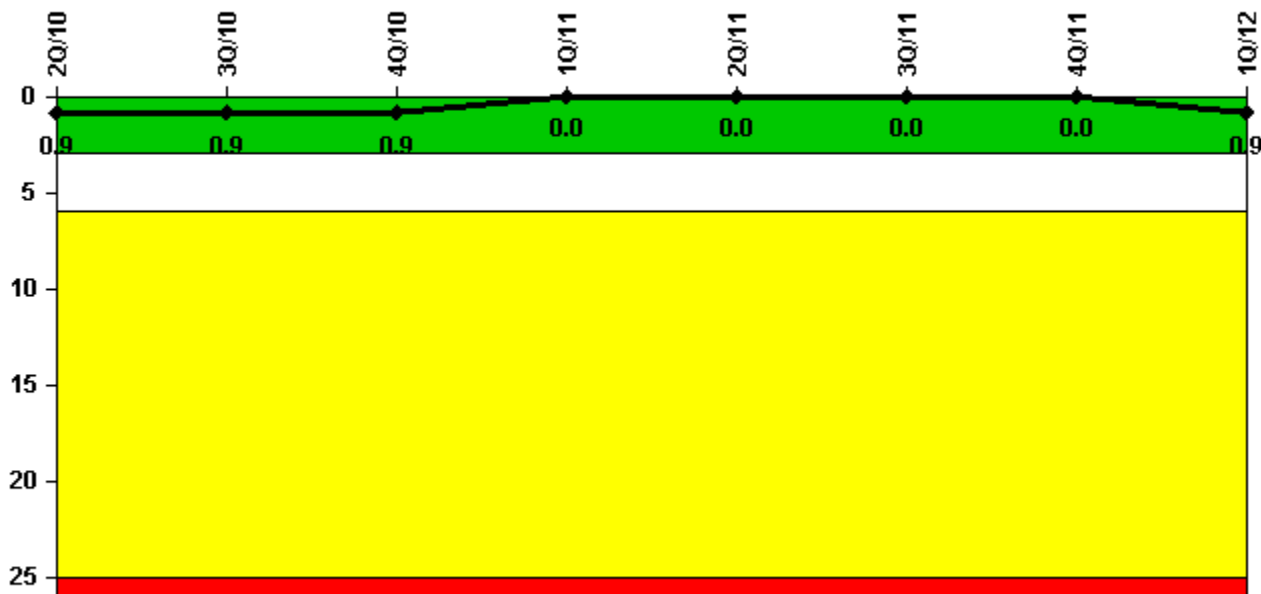
[Security](#) information not publicly available.

# Grand Gulf 1

## 1Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

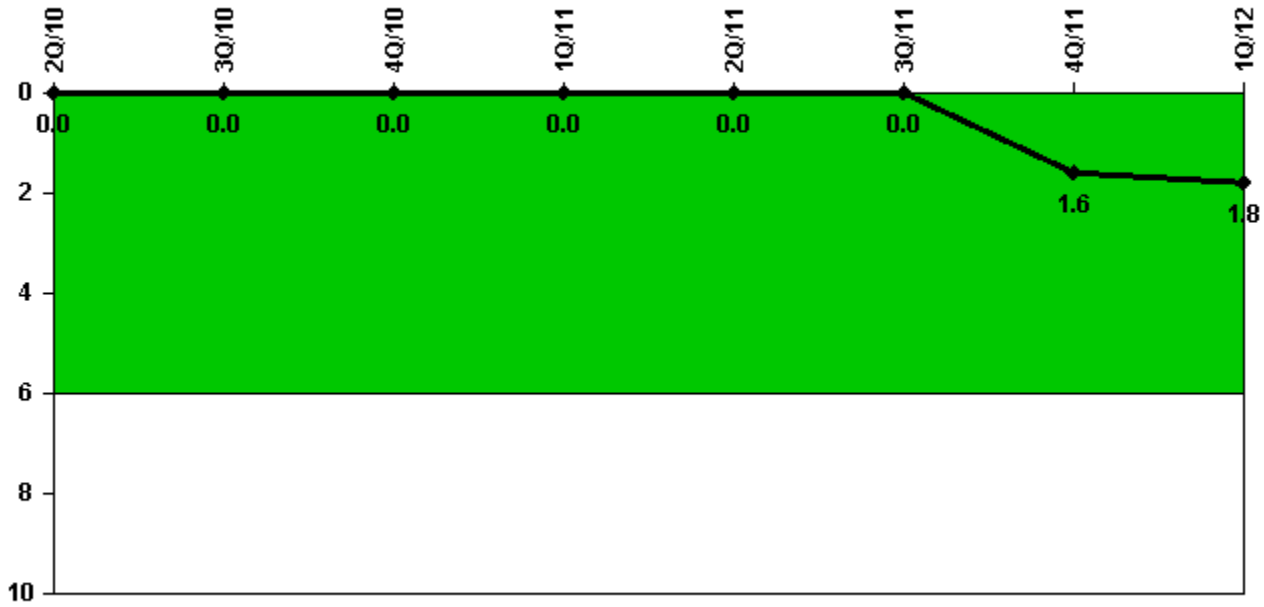
### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	1506.9	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0	1195.1
Indicator value	0.9	0.9	0.9	0	0	0	0	0.9

Licensee Comments:

1Q/12: Unplanned manual scram from ~25% power as a result of partial closure of the N11F014B RFPT B HP Steam Admission Valve. This resulted in starting RF-18 ~1 hour early (2/19/2012 at 1904 versus 2/19/2012 at 2000)

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

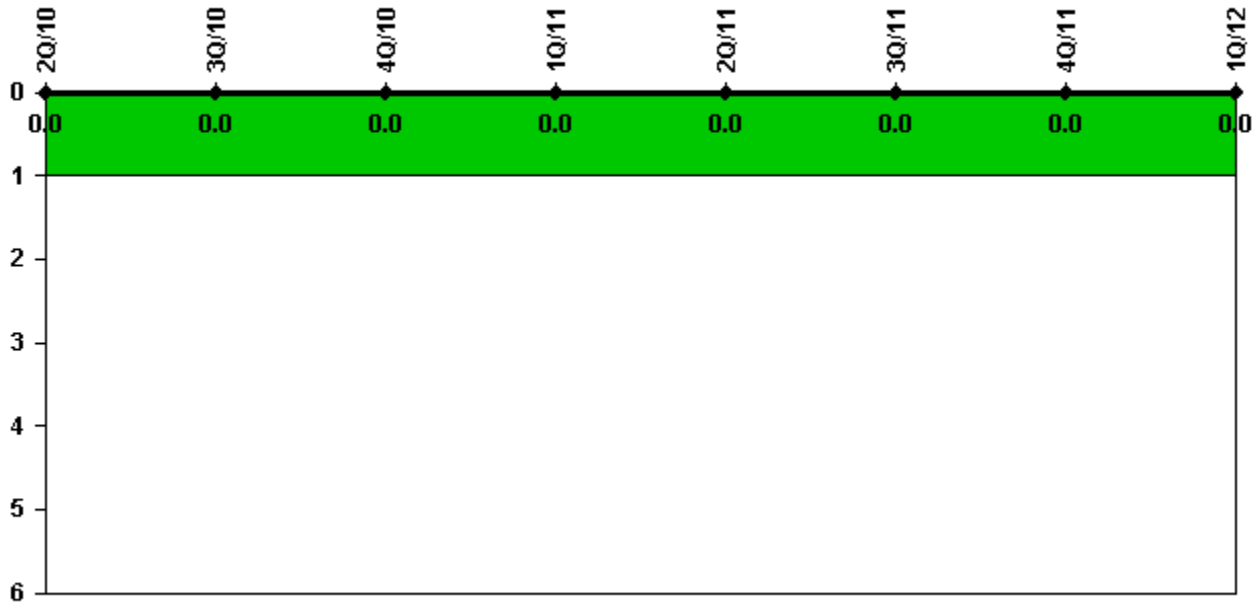
Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	0	0	0	0	2.0	0
Critical hours	1506.9	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0	1195.1
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.6</b>	<b>1.8</b>

Licensee Comments:

4Q/11: Two unplanned Downpowers >20% in November: Feed pump trip and Partial PSW Loss.



## Unplanned Scrams with Complications



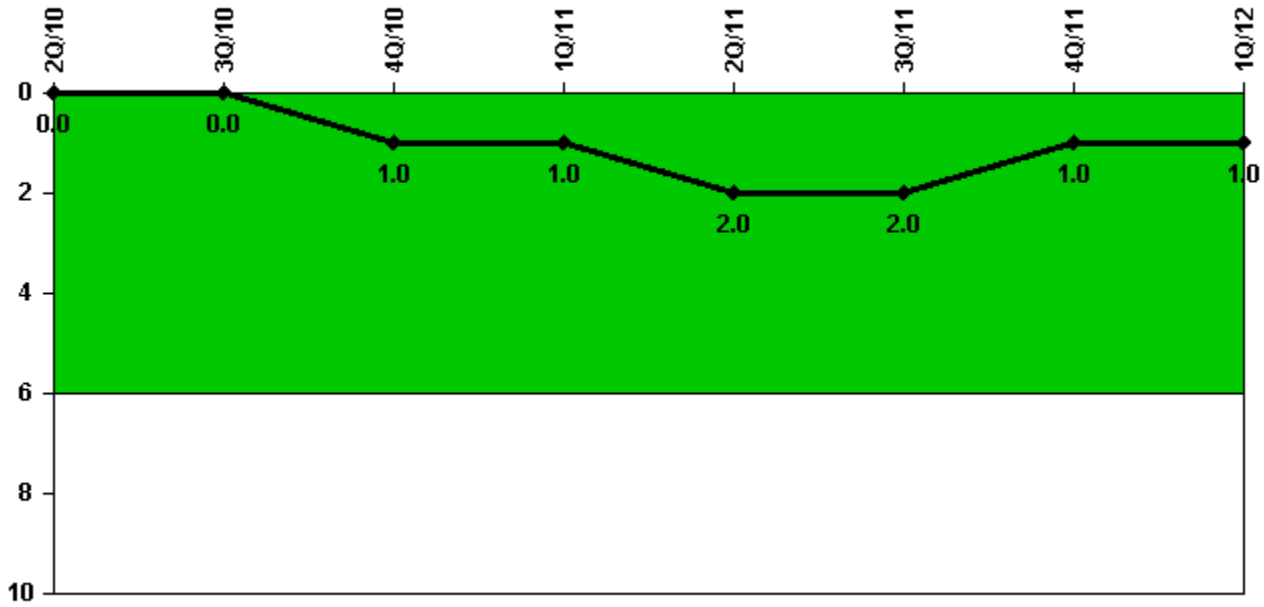
Thresholds: White > 1.0

### Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

## Safety System Functional Failures (BWR)



Thresholds: White > 6.0

### Notes

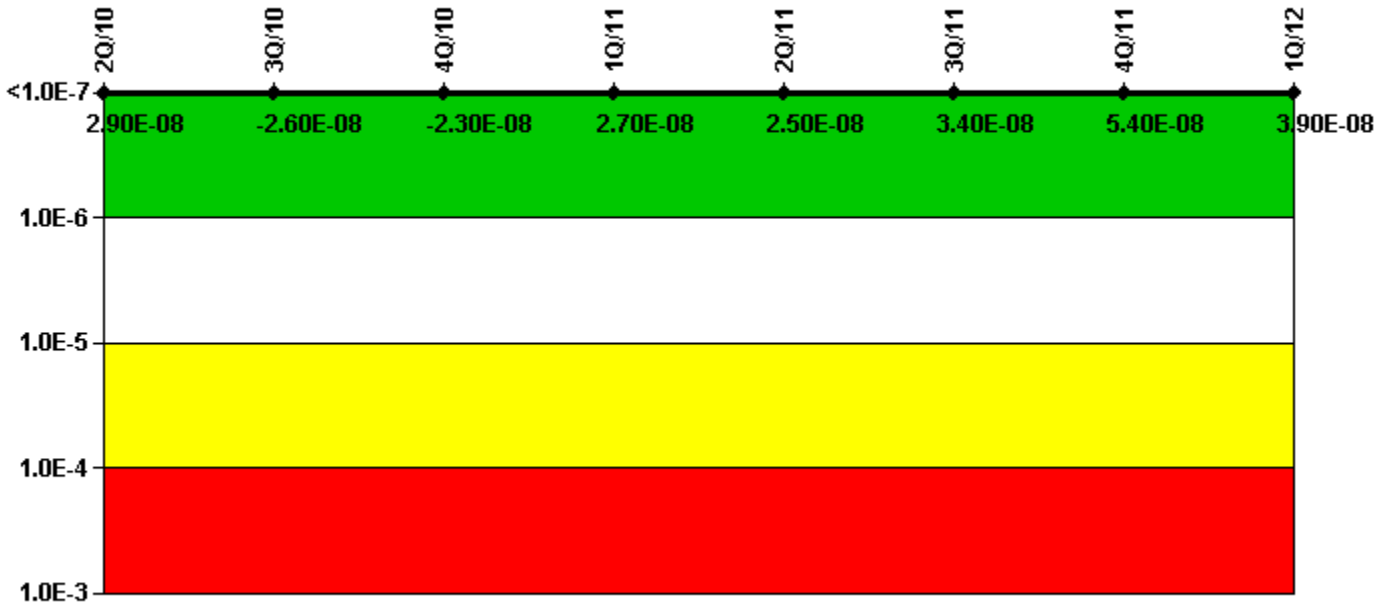
Safety System Functional Failures (BWR)	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	0	0	1	0	1	0	0	0
Indicator value	0	0	1	1	2	2	1	1

Licensee Comments:

2Q/11: Reference: GGNS LER 2011-001

4Q/10: Reference GGNS LER 2010-002

# Mitigating Systems Performance Index, Emergency AC Power System



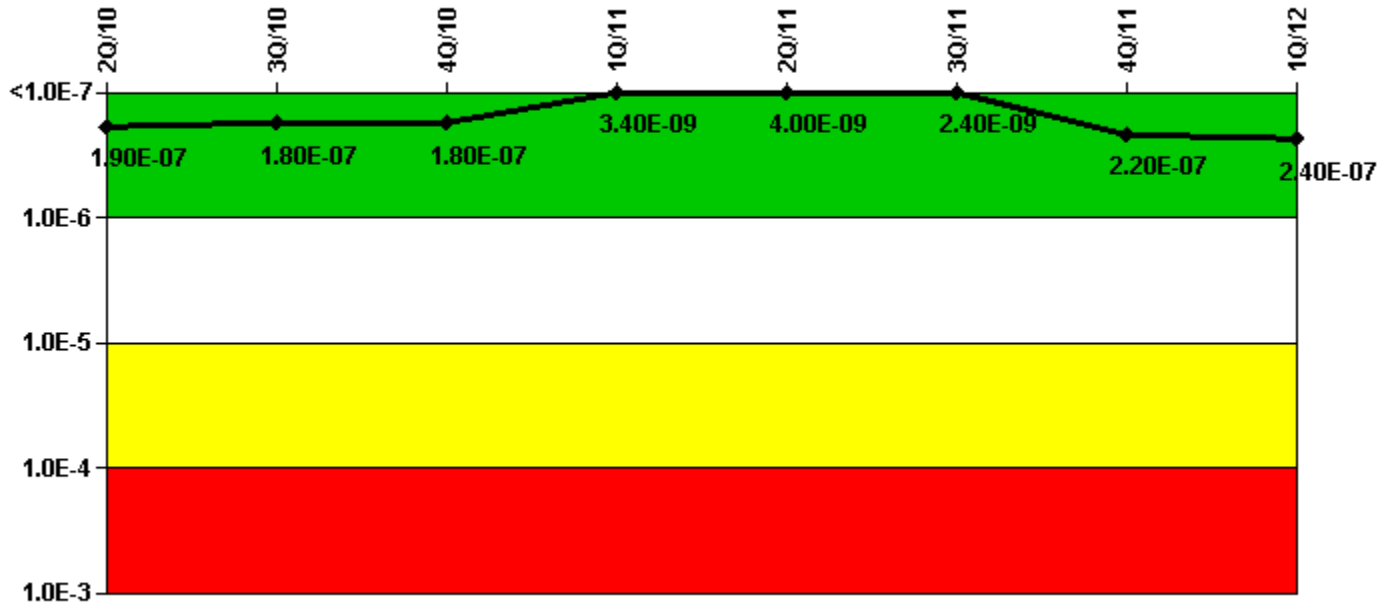
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	5.46E-10	-4.41E-09	-4.44E-09	5.68E-09	5.64E-09	4.70E-09	6.70E-09	-7.61E-09
URI ( $\Delta$ CDF)	2.85E-08	-2.20E-08	-1.87E-08	2.17E-08	1.97E-08	2.91E-08	4.76E-08	4.65E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.90E-08	-2.60E-08	-2.30E-08	2.70E-08	2.50E-08	3.40E-08	5.40E-08	3.90E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



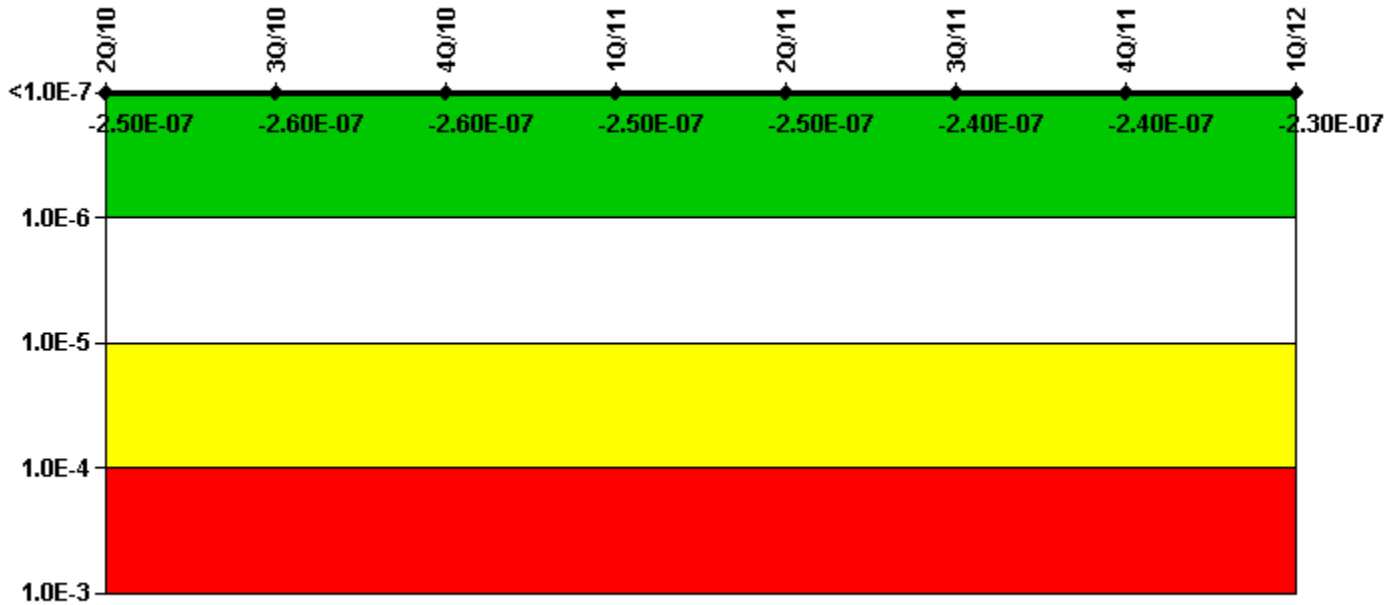
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	2.40E-07	2.30E-07	2.30E-07	1.89E-08	1.46E-08	1.36E-08	2.39E-07	2.60E-07
URI ( $\Delta$ CDF)	-5.33E-08	-5.34E-08	-5.36E-08	-1.55E-08	-1.06E-08	-1.12E-08	-1.73E-08	-1.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.90E-07	1.80E-07	1.80E-07	3.40E-09	4.00E-09	2.40E-09	2.20E-07	2.40E-07

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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	-5.30E-08	-5.31E-08	-5.31E-08	-5.32E-08	-5.32E-08	-5.33E-08	-6.20E-08	-6.20E-08
URI ( $\Delta$ CDF)	-2.01E-07	-2.07E-07	-2.03E-07	-2.01E-07	-1.93E-07	-1.87E-07	-1.78E-07	-1.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-07	-2.60E-07	-2.60E-07	-2.50E-07	-2.50E-07	-2.40E-07	-2.40E-07	-2.30E-07

Licensee Comments:

4Q/11: No Changes Made to this indicator in the 1Q12 update, relocked data only.

3Q/11: September Valve Demand Numbers revised and no change to indicator color (green).

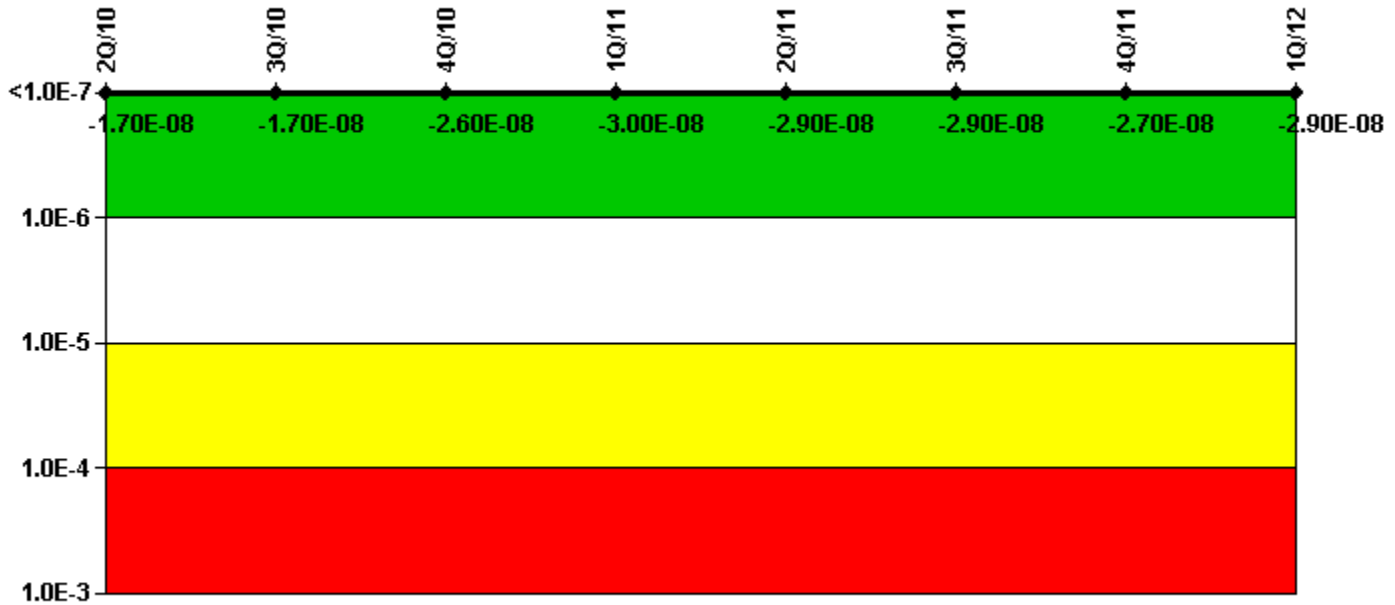
2Q/11: June Valve Demand Numbers revised and no change to indicator color (green).

1Q/11: March Valve Demand Numbers revised and no change to indicator color (green).

4Q/10: December Valve Demand Numbers revised and no change to indicator color (green).

3Q/10: July and September Valve Demand Numbers revised and no change to indicator color (green).

# Mitigating Systems Performance Index, Residual Heat Removal System



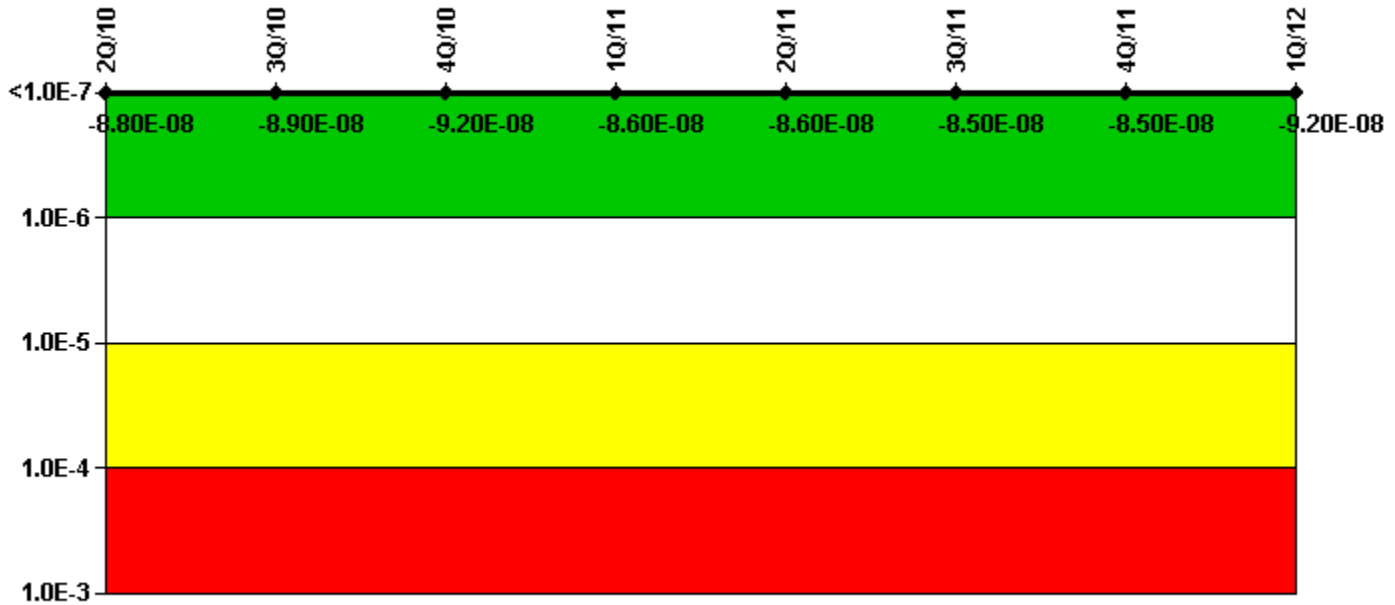
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	4.99E-09	4.54E-09	-4.65E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.21E-08	-2.17E-08	-2.12E-08	-2.11E-08	-2.08E-08	-1.99E-08	-1.83E-08	-2.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-08	-1.70E-08	-2.60E-08	-3.00E-08	-2.90E-08	-2.90E-08	-2.70E-08	-2.90E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Cooling Water Systems



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

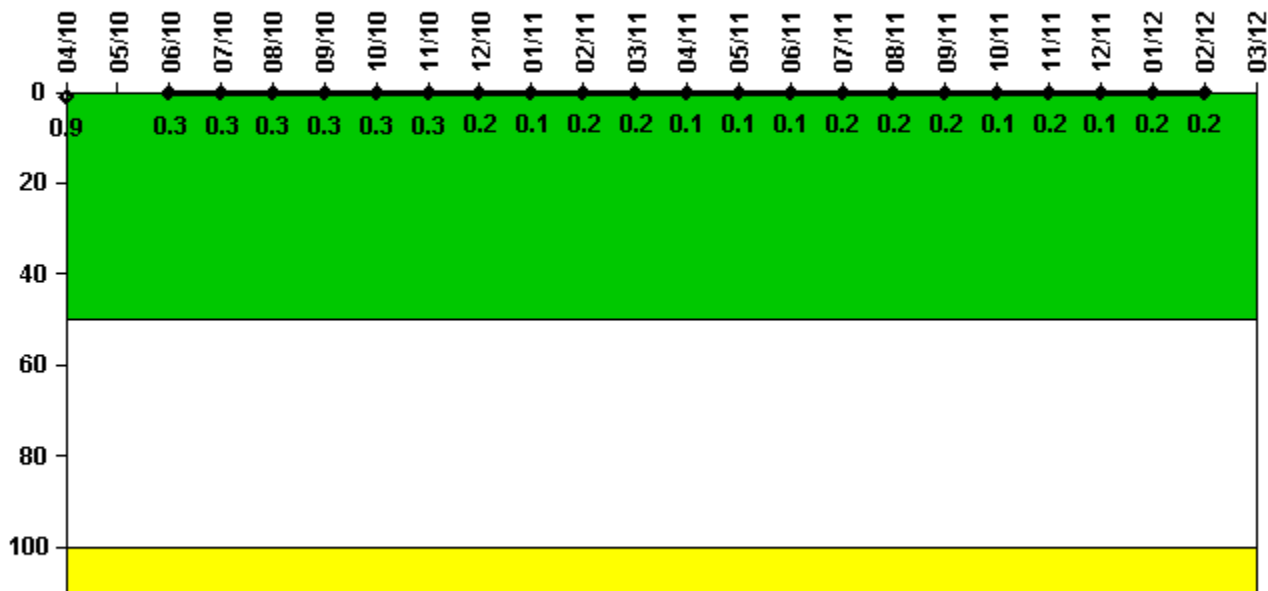
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	2.33E-09	1.93E-09	-1.71E-09	5.19E-09	5.19E-09	4.92E-09	4.27E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.06E-08	-9.05E-08	-9.05E-08	-9.12E-08	-9.10E-08	-9.01E-08	-8.92E-08	-9.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.80E-08	-8.90E-08	-9.20E-08	-8.60E-08	-8.60E-08	-8.50E-08	-8.50E-08	-9.20E-08

Licensee Comments:

2Q/11: April pump start and run times were revised and no change to indicator color (green).

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

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	0.001850	N/A	0.000524	0.000565	0.000572	0.000555	0.000548	0.000532	0.000336	0.000290	0.000330	0.000328
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	0.9	N/A	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2

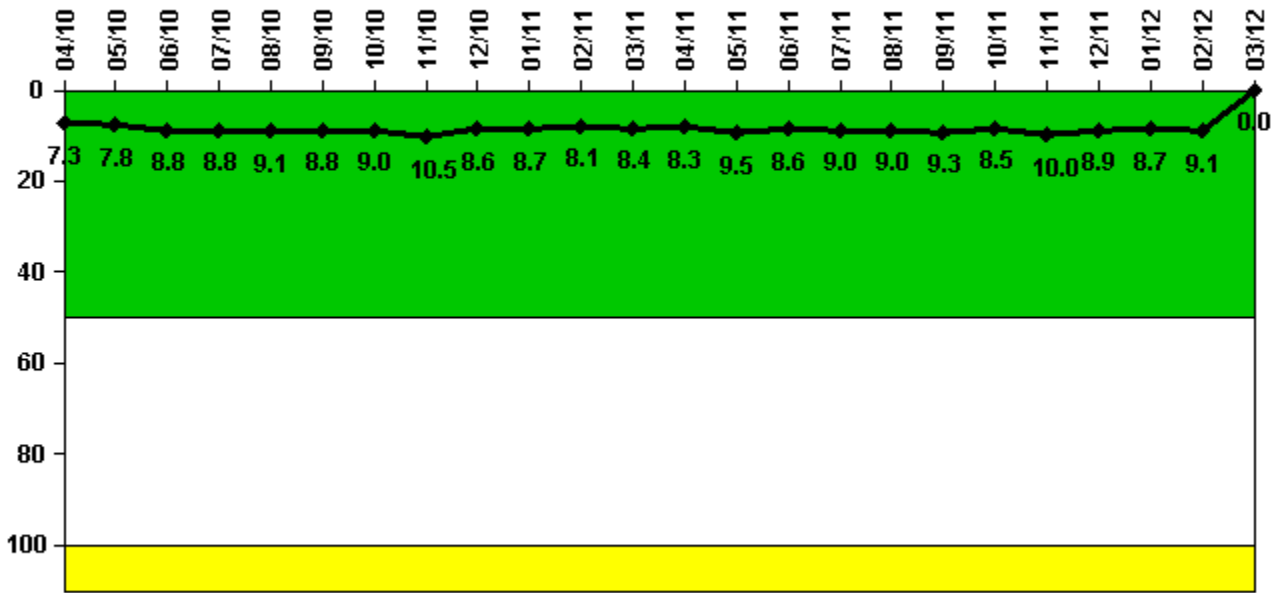
  

Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000262	0.000247	0.000257	0.000465	0.000372	0.000326	0.000284	0.000327	0.000254	0.000347	0.000322	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	N/A

Licensee Comments: none



## Reactor Coolant System Leakage



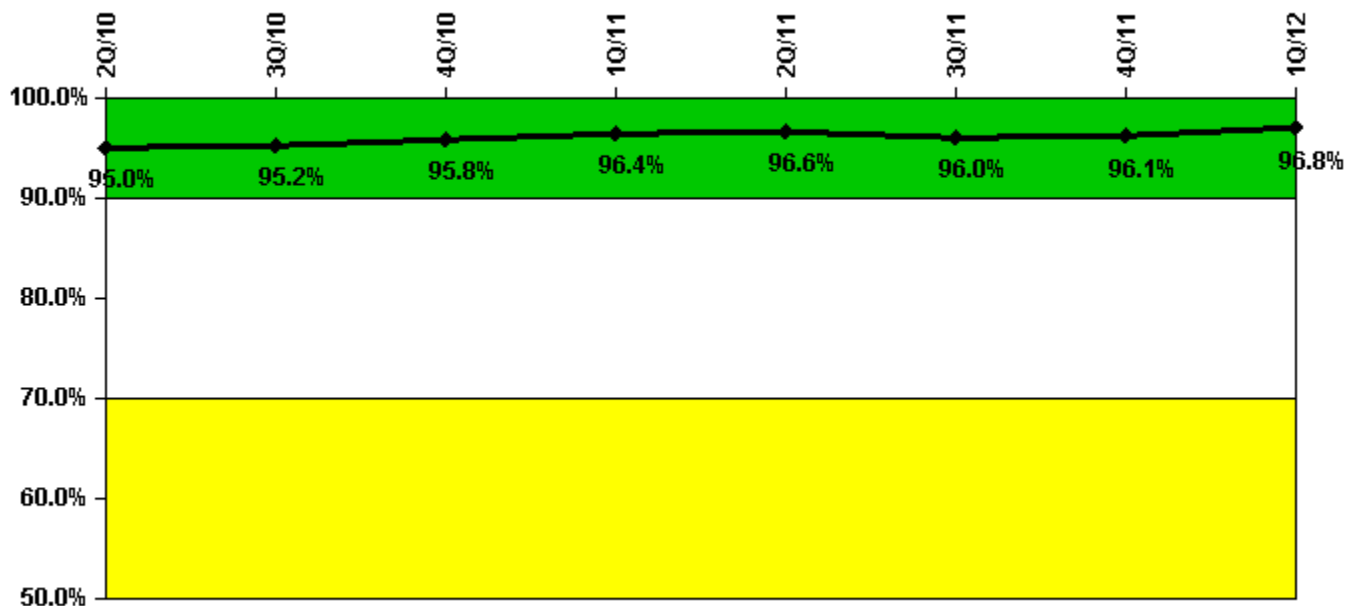
Thresholds: White > 50.0 Yellow > 100.0

### Notes

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	2.190	2.340	2.650	2.650	2.720	2.640	2.710	3.140	2.590	2.600	2.420	2.510
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.3	7.8	8.8	8.8	9.1	8.8	9.0	10.5	8.6	8.7	8.1	8.4
Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	2.500	2.850	2.570	2.690	2.700	2.780	2.560	3.000	2.680	2.620	2.720	0
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.3	9.5	8.6	9.0	9.0	9.3	8.5	10.0	8.9	8.7	9.1	0

Licensee Comments: none

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

### Notes

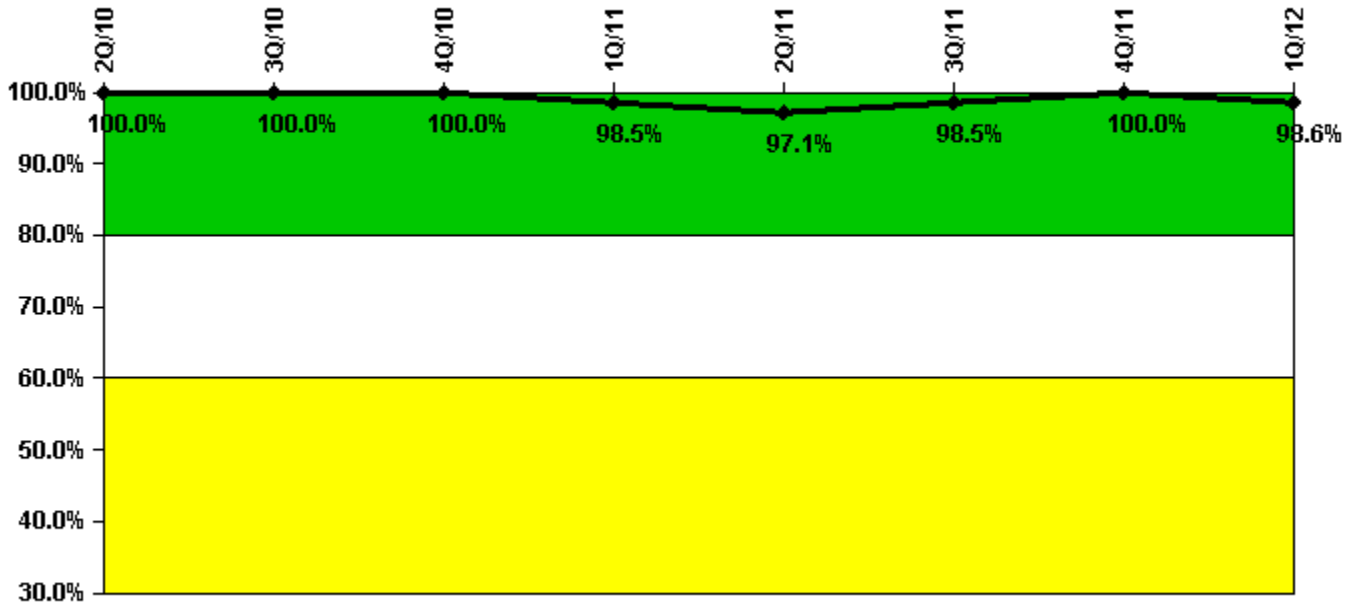
Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	24.0	34.0	22.0	28.0	29.0	28.0	47.0	0
Total opportunities	25.0	35.0	23.0	28.0	29.0	31.0	48.0	0
<b>Indicator value</b>	<b>95.0%</b>	<b>95.2%</b>	<b>95.8%</b>	<b>96.4%</b>	<b>96.6%</b>	<b>96.0%</b>	<b>96.1%</b>	<b>96.8%</b>

Licensee Comments:

4Q/10: December DEP changed from 5 of 5 to 4 of 4 - CR-GGN-2011-04751

3Q/10: August DEP changed from 16 of 17 to 9 of 9. - CR-GGN-2011-08346. Color of indicator not affected.

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	65.0	65.0	64.0	67.0	68.0	67.0	70.0	70.0
Total Key personnel	65.0	65.0	64.0	68.0	70.0	68.0	70.0	71.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>98.5%</b>	<b>97.1%</b>	<b>98.5%</b>	<b>100.0%</b>	<b>98.6%</b>

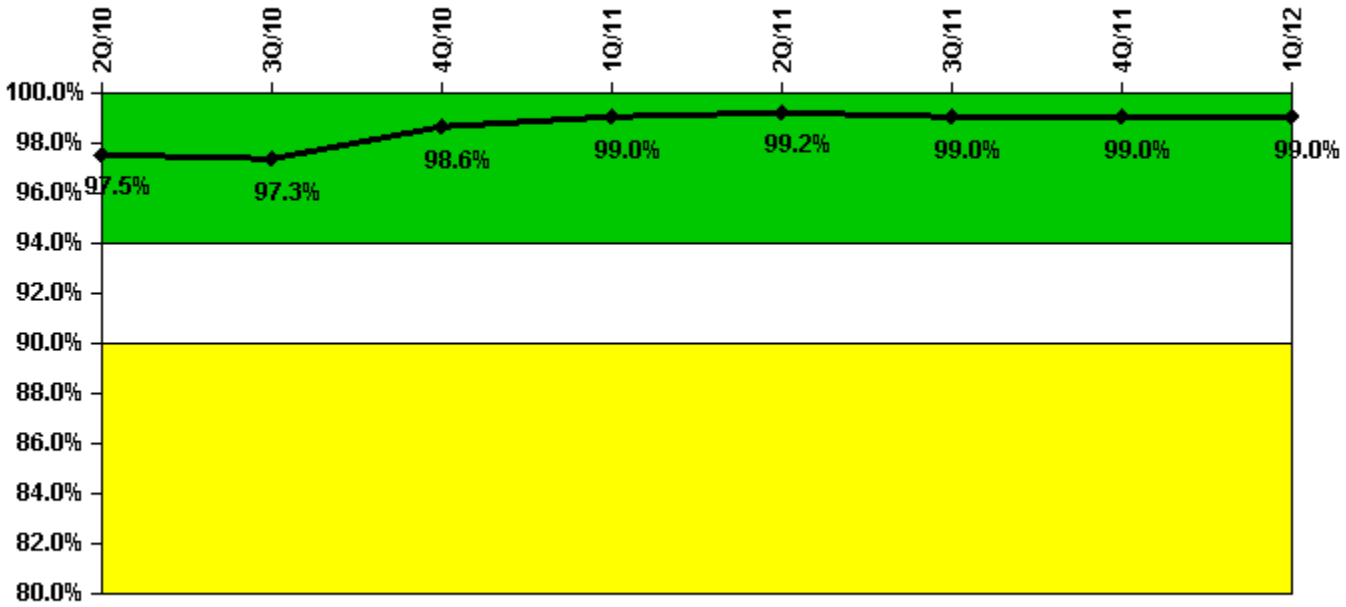
Licensee Comments:

3Q/11: Participating key personnel revised from 68 to 67 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

2Q/11: Participating key personnel revised from 70 to 68 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

1Q/11: Participating key personnel revised from 68 to 67 in March for this quarterly indicator - CR-GGN-2011-08346. No change in indicator color.

# Alert & Notification System



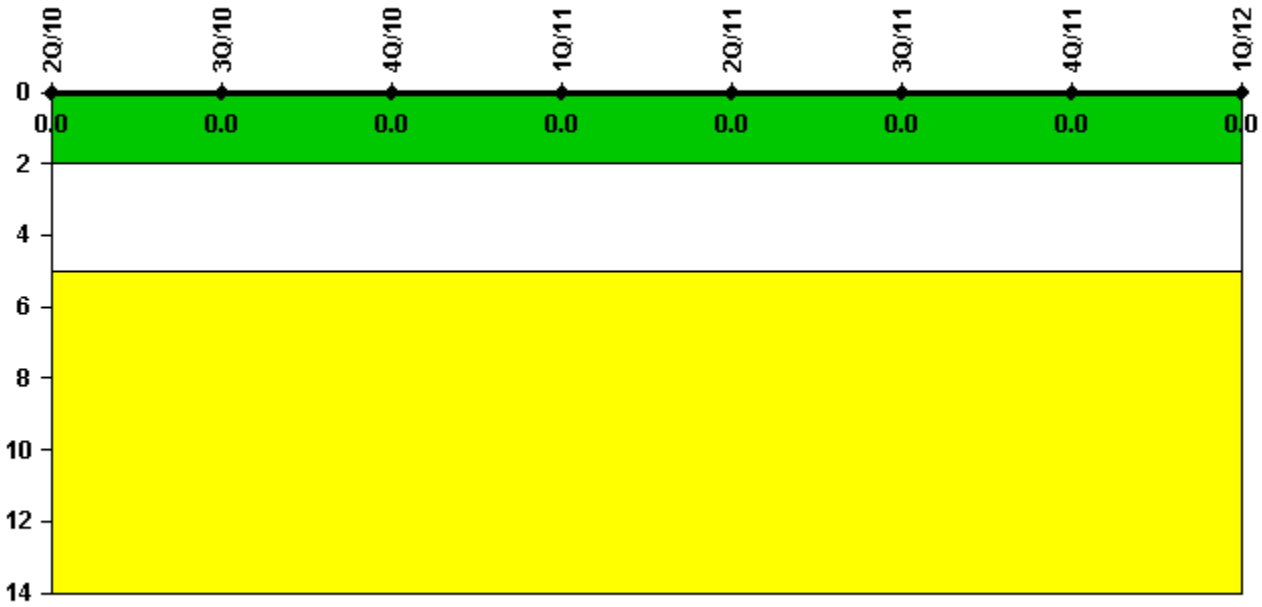
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	126	126	129	129	121	122	129	129
Total sirens-tests	128	129	129	129	122	126	129	129
<b>Indicator value</b>	<b>97.5%</b>	<b>97.3%</b>	<b>98.6%</b>	<b>99.0%</b>	<b>99.2%</b>	<b>99.0%</b>	<b>99.0%</b>	<b>99.0%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

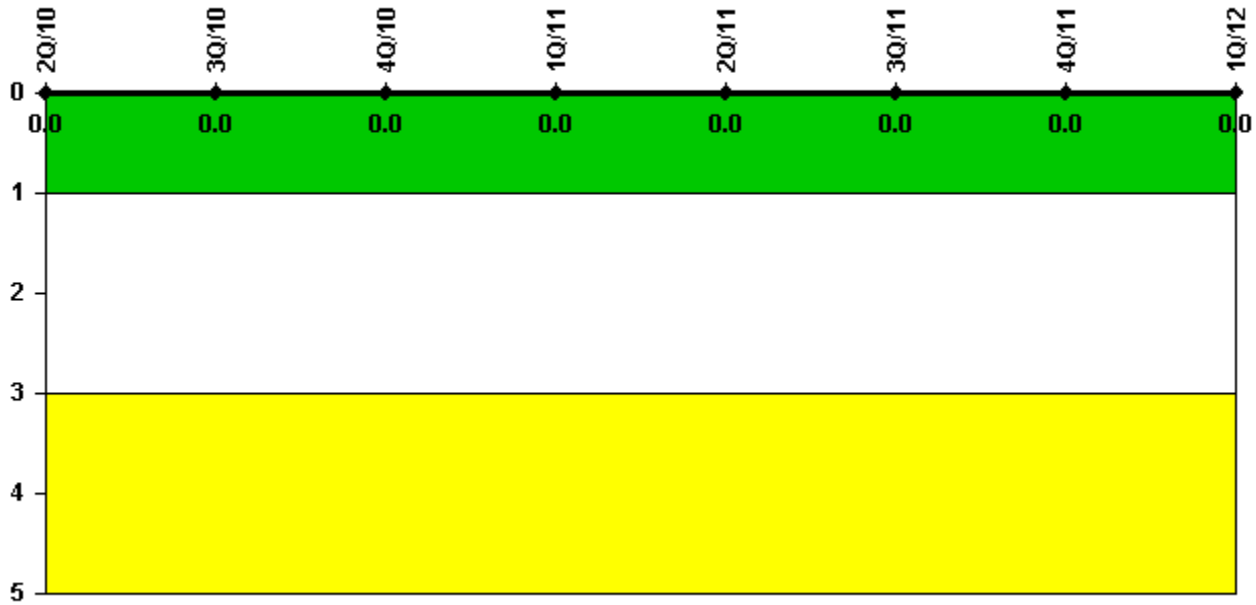
## Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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.

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

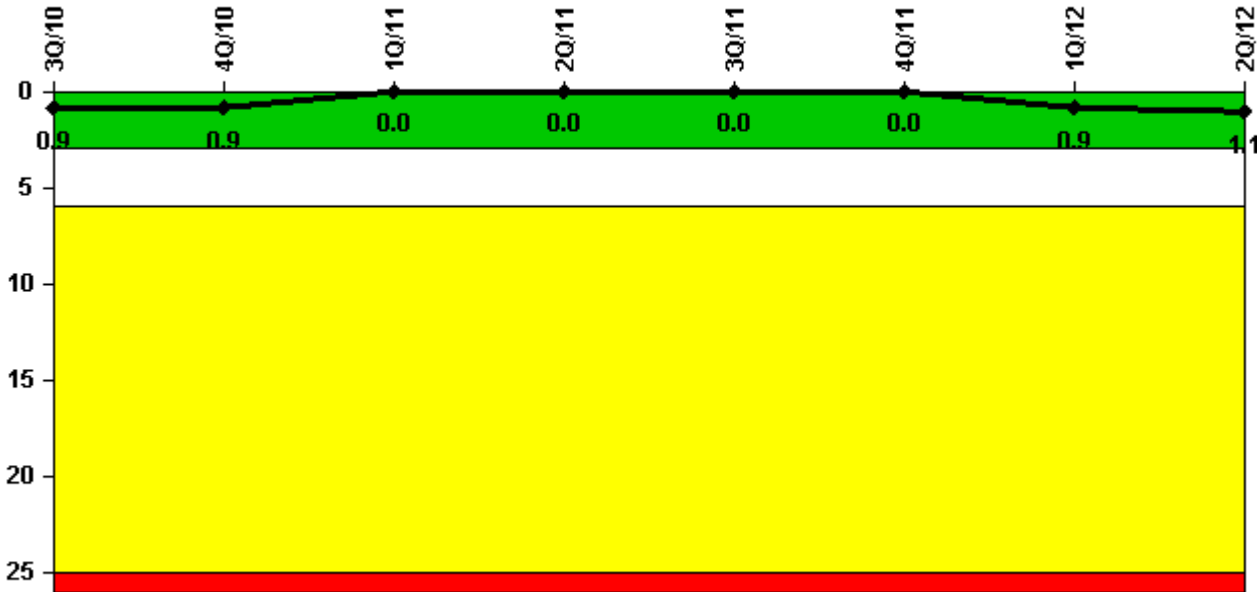
Last Modified: April 24, 2012

# Grand Gulf 1

## 2Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

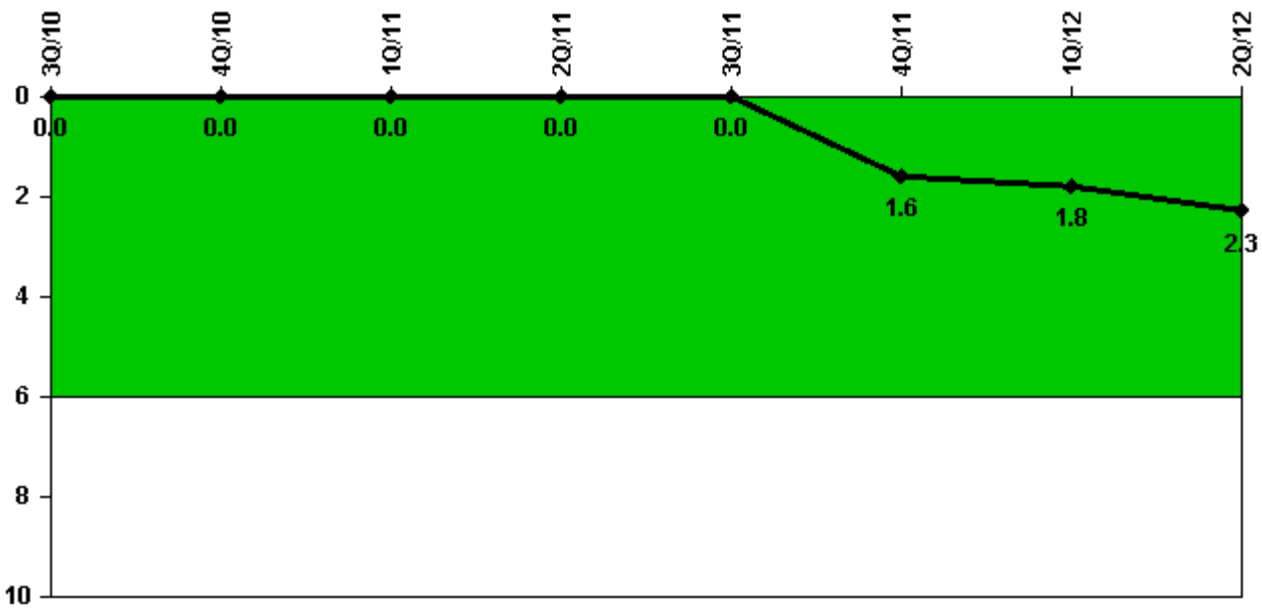
### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0	1195.1	521.5
Indicator value	0.9	0.9	0	0	0	0	0.9	1.1

Licensee Comments:

1Q/12: Unplanned manual scram from ~25% power as a result of partial closure of the N11F014B RFPT B HP Steam Admission Valve. This resulted in starting RF-18 ~1 hour early (2/19/2012 at 1904 versus 2/19/2012 at 2000)

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

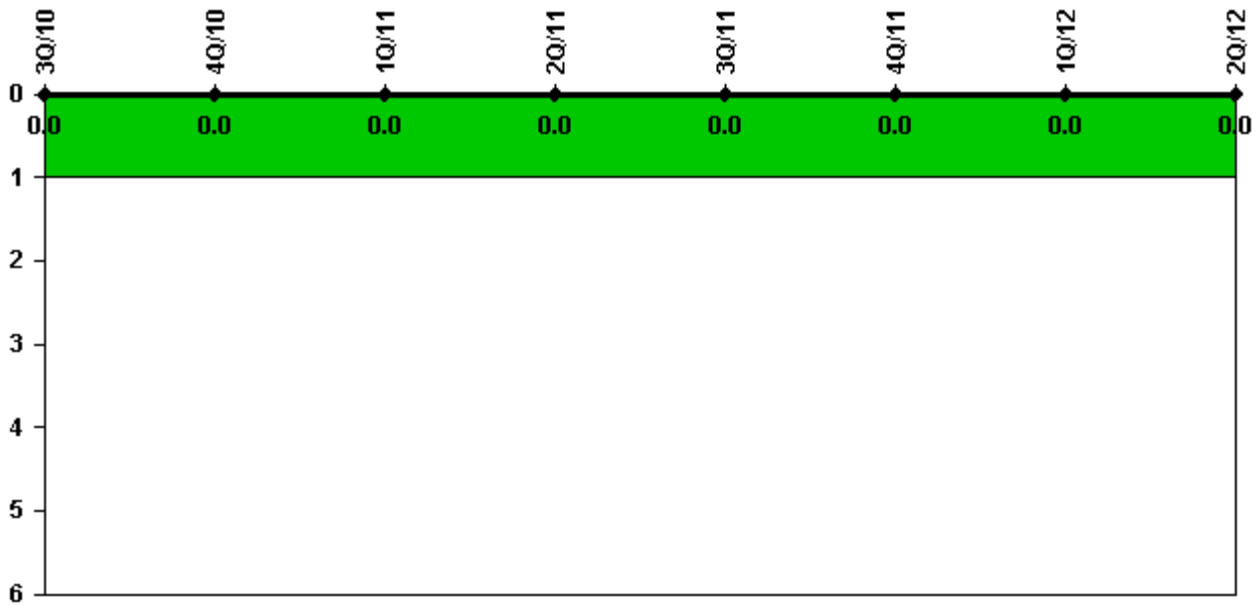
Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	0	0	0	0	2.0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	2209.0	1195.1	521.5
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.6</b>	<b>1.8</b>	<b>2.3</b>

Licensee Comments:

4Q/11: Two unplanned Downpowers >20% in November: Feed pump trip and Partial PSW Loss.



## Unplanned Scrams with Complications



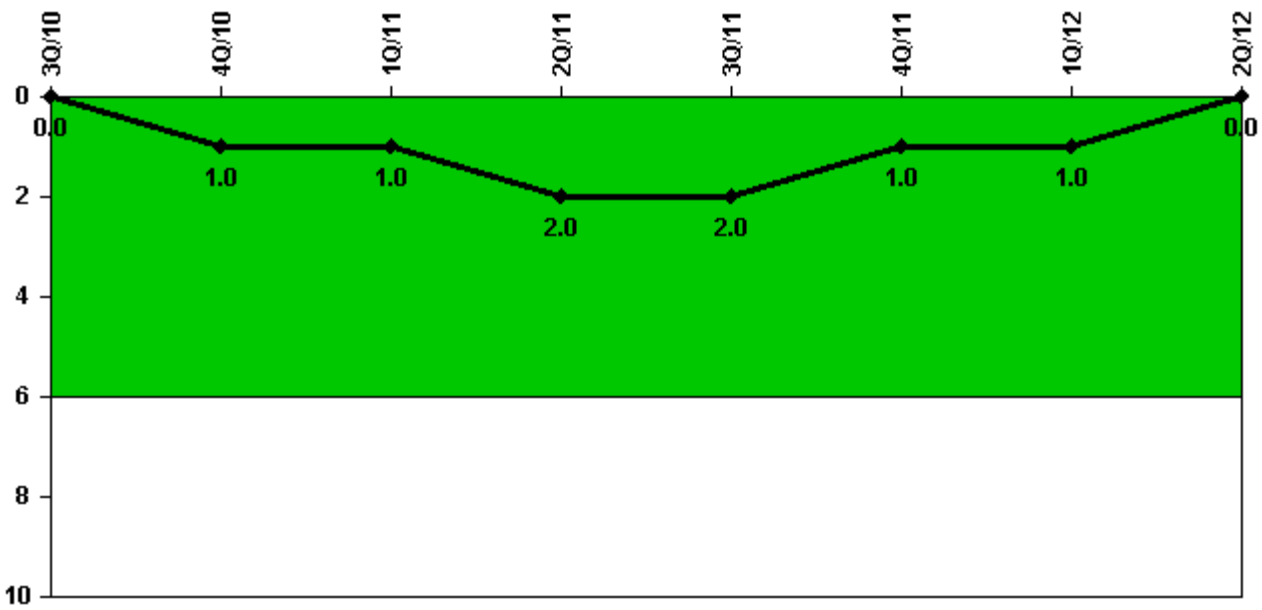
Thresholds: White > 1.0

### Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

## Safety System Functional Failures (BWR)



Thresholds: White > 6.0

### Notes

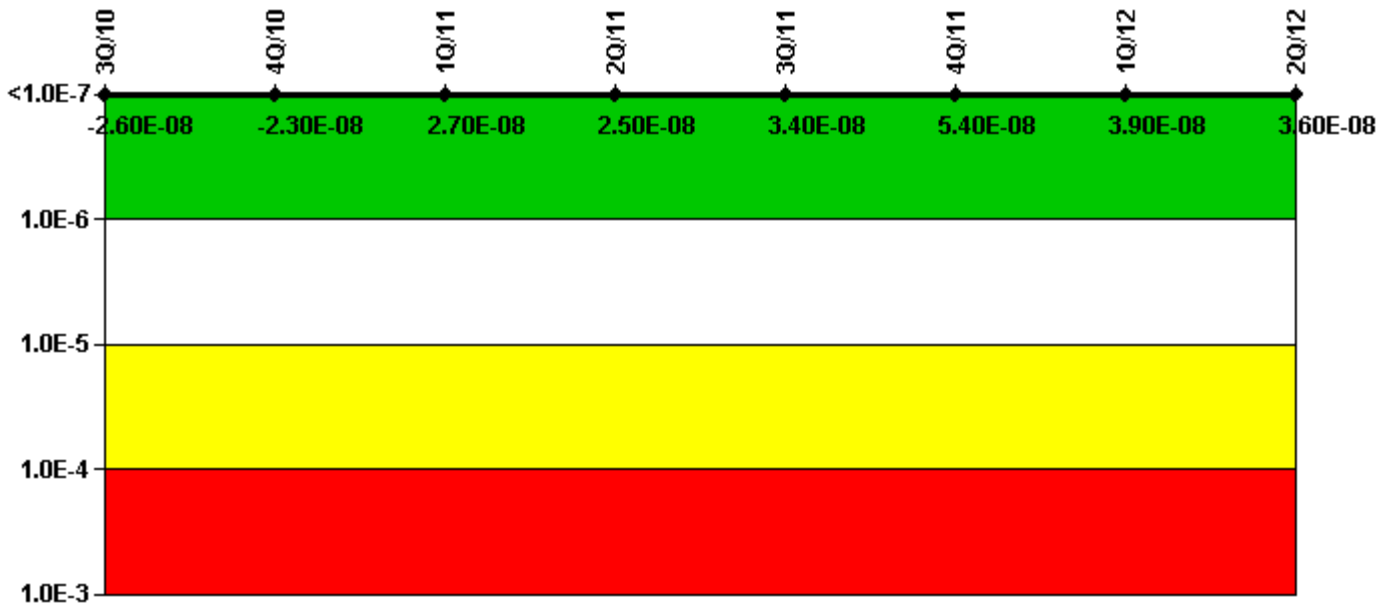
Safety System Functional Failures (BWR)	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Safety System Functional Failures	0	1	0	1	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>

Licensee Comments:

2Q/11: Reference: GGNS LER 2011-001

4Q/10: Reference GGNS LER 2010-002

# Mitigating Systems Performance Index, Emergency AC Power System



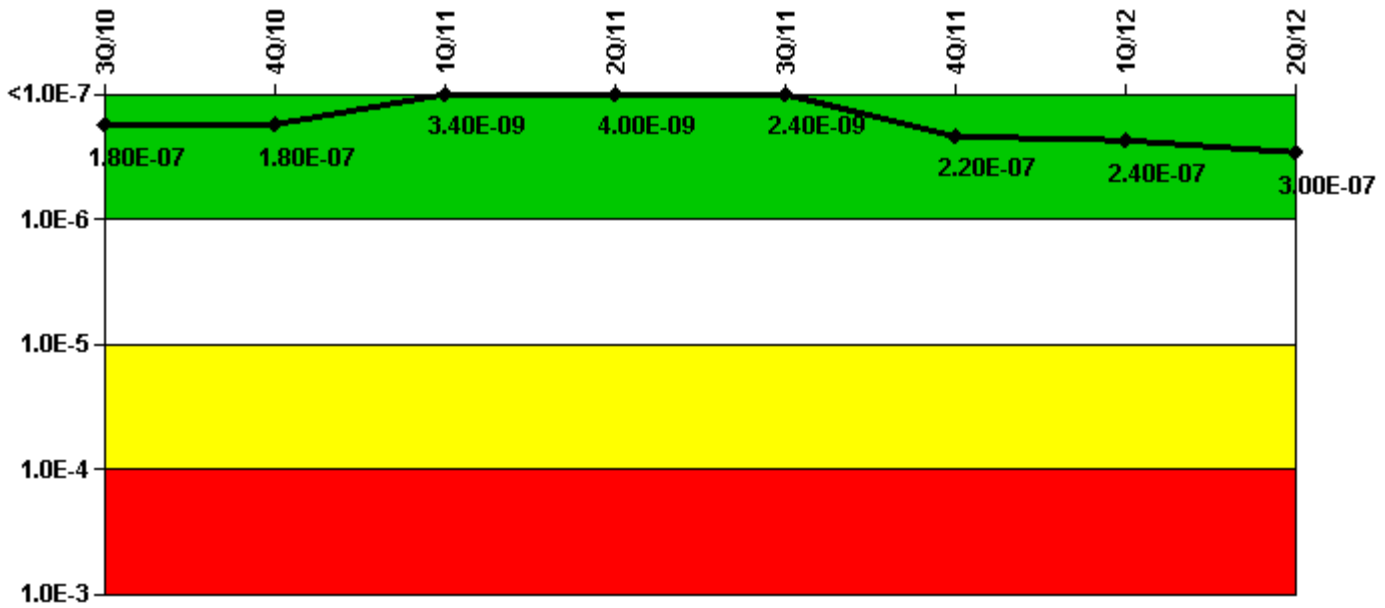
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-4.41E-09	-4.44E-09	5.68E-09	5.64E-09	4.70E-09	6.70E-09	-7.61E-09	-7.51E-09
URI ( $\Delta$ CDF)	-2.20E-08	-1.87E-08	2.17E-08	1.97E-08	2.91E-08	4.76E-08	4.65E-08	4.39E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-08	-2.30E-08	2.70E-08	2.50E-08	3.40E-08	5.40E-08	3.90E-08	3.60E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



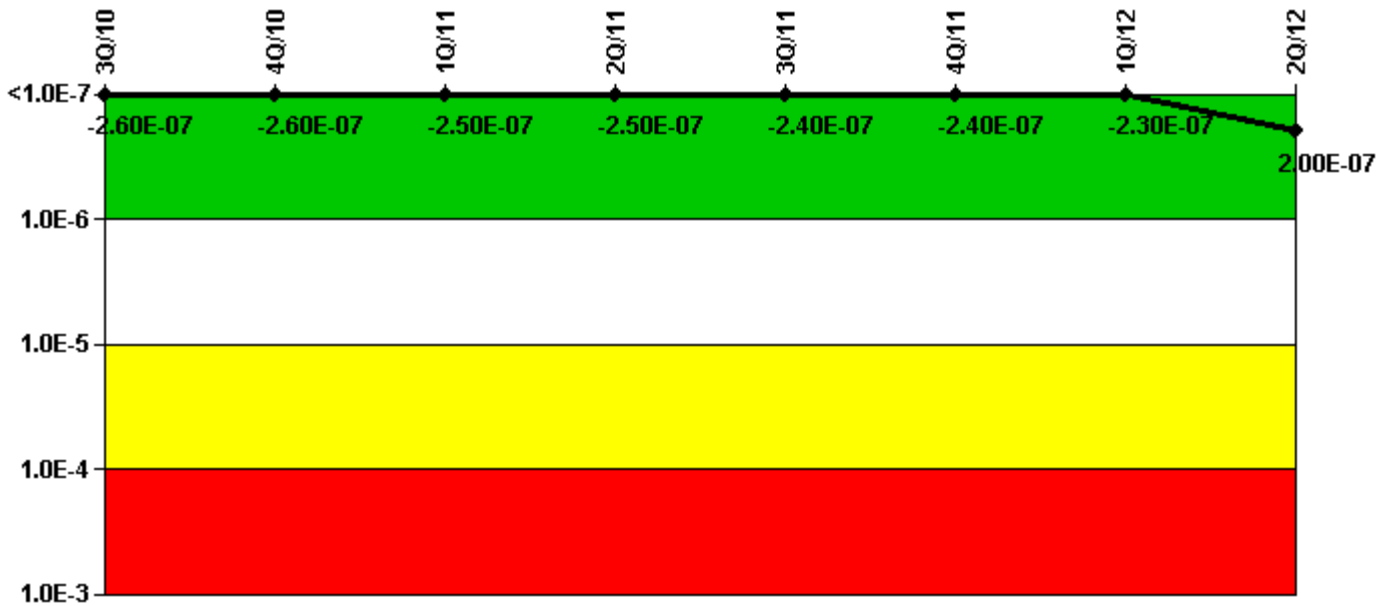
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	2.30E-07	2.30E-07	1.89E-08	1.46E-08	1.36E-08	2.39E-07	2.60E-07	2.96E-07
URI (ΔCDF)	-5.34E-08	-5.36E-08	-1.55E-08	-1.06E-08	-1.12E-08	-1.73E-08	-1.70E-08	8.31E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.80E-07	1.80E-07	3.40E-09	4.00E-09	2.40E-09	2.20E-07	2.40E-07	3.00E-07

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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	-5.31E-08	-5.31E-08	-5.32E-08	-5.32E-08	-5.33E-08	-6.20E-08	-6.20E-08	-4.37E-08
URI ( $\Delta$ CDF)	-2.07E-07	-2.03E-07	-2.01E-07	-1.93E-07	-1.87E-07	-1.78E-07	-1.70E-07	2.43E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-07	-2.60E-07	-2.50E-07	-2.50E-07	-2.40E-07	-2.40E-07	-2.30E-07	2.00E-07

## Licensee Comments:

4Q/11: No Changes Made to this indicator in the 1Q12 update, relocked data only.

3Q/11: September Valve Demand Numbers revised and no change to indicator color (green).

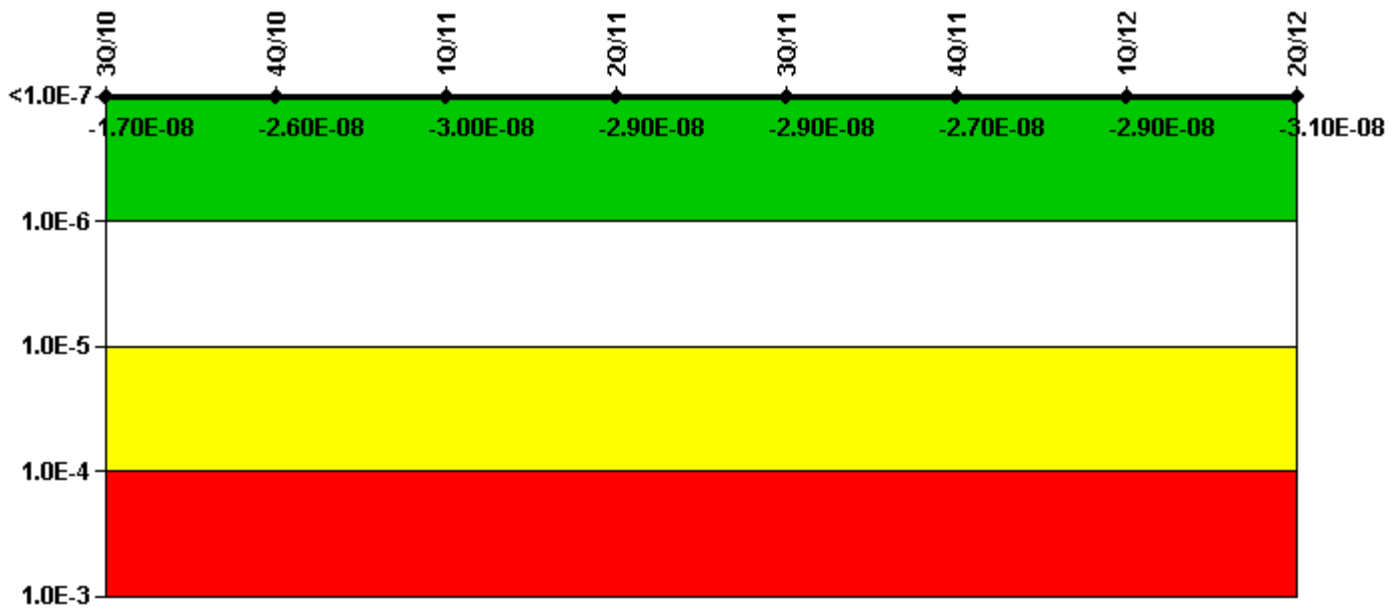
2Q/11: June Valve Demand Numbers revised and no change to indicator color (green).

1Q/11: March Valve Demand Numbers revised and no change to indicator color (green).

4Q/10: December Valve Demand Numbers revised and no change to indicator color (green).

3Q/10: July and September Valve Demand Numbers revised and no change to indicator color (green).

# Mitigating Systems Performance Index, Residual Heat Removal System



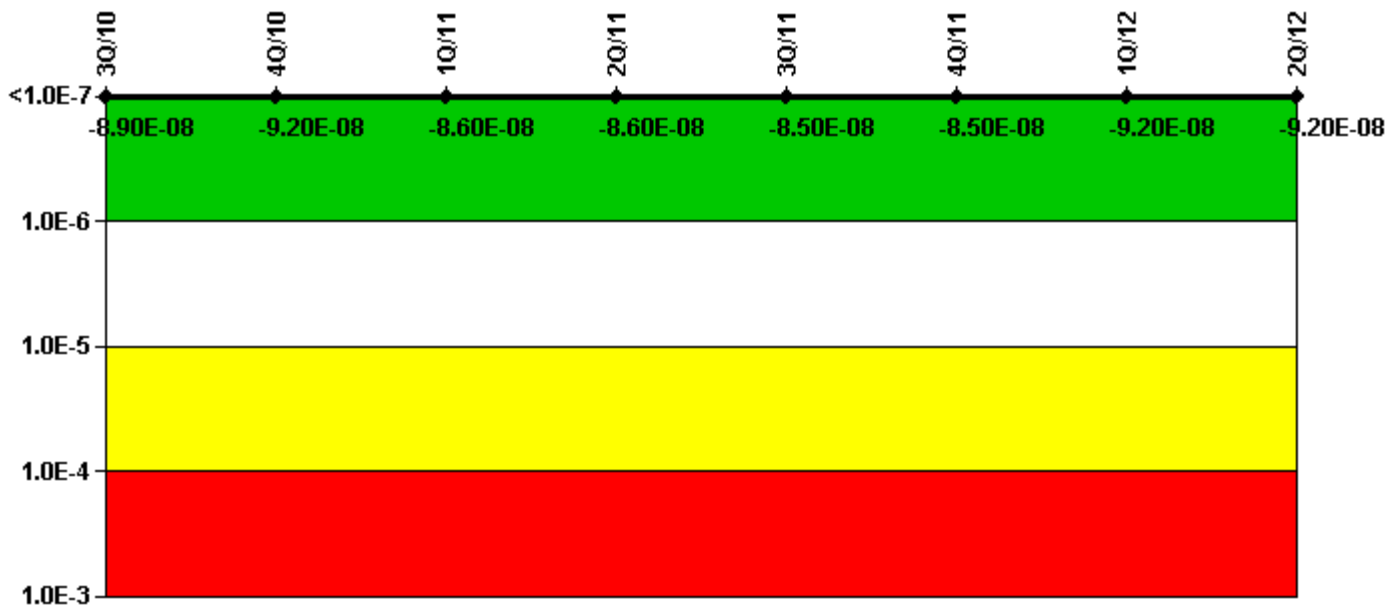
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	4.54E-09	-4.65E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.17E-08	-2.12E-08	-2.11E-08	-2.08E-08	-1.99E-08	-1.83E-08	-2.04E-08	-2.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-08	-2.60E-08	-3.00E-08	-2.90E-08	-2.90E-08	-2.70E-08	-2.90E-08	-3.10E-08

Licensee Comments: none

## Mitigating Systems Performance Index, Cooling Water Systems



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

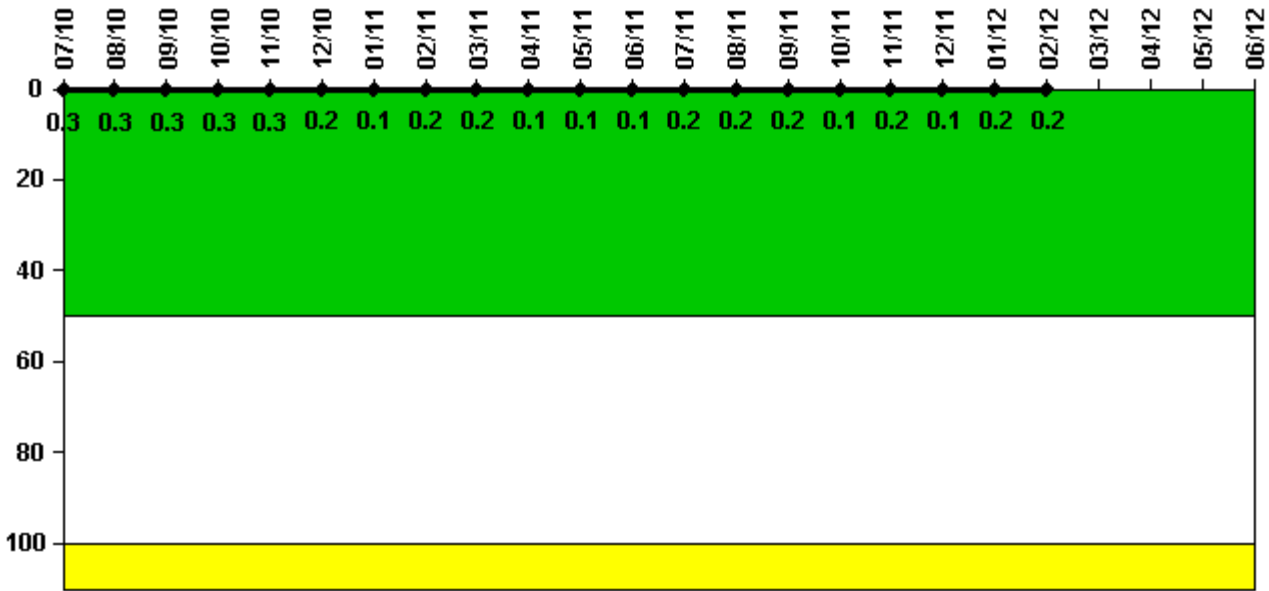
### Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI ( $\Delta$ CDF)	1.93E-09	-1.71E-09	5.19E-09	5.19E-09	4.92E-09	4.27E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.05E-08	-9.05E-08	-9.12E-08	-9.10E-08	-9.01E-08	-8.92E-08	-9.01E-08	-9.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.90E-08	-9.20E-08	-8.60E-08	-8.60E-08	-8.50E-08	-8.50E-08	-9.20E-08	-9.20E-08

Licensee Comments:

2Q/11: April pump start and run times were revised and no change to indicator color (green).

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000565	0.000572	0.000555	0.000548	0.000532	0.000336	0.000290	0.000330	0.000328	0.000262	0.000247	0.000257
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	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.1	0.1

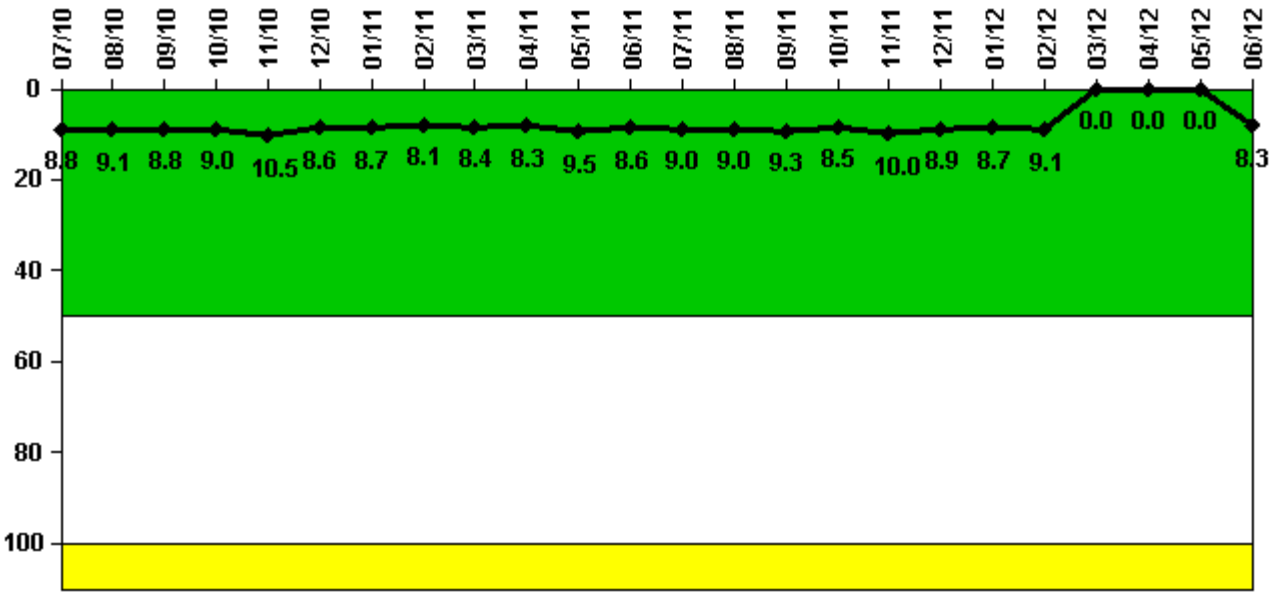
  

Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000465	0.000372	0.000326	0.000284	0.000327	0.000254	0.000347	0.000322	N/A	N/A	N/A	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	N/A	N/A	N/A	N/A

Licensee Comments: none



## Reactor Coolant System Leakage



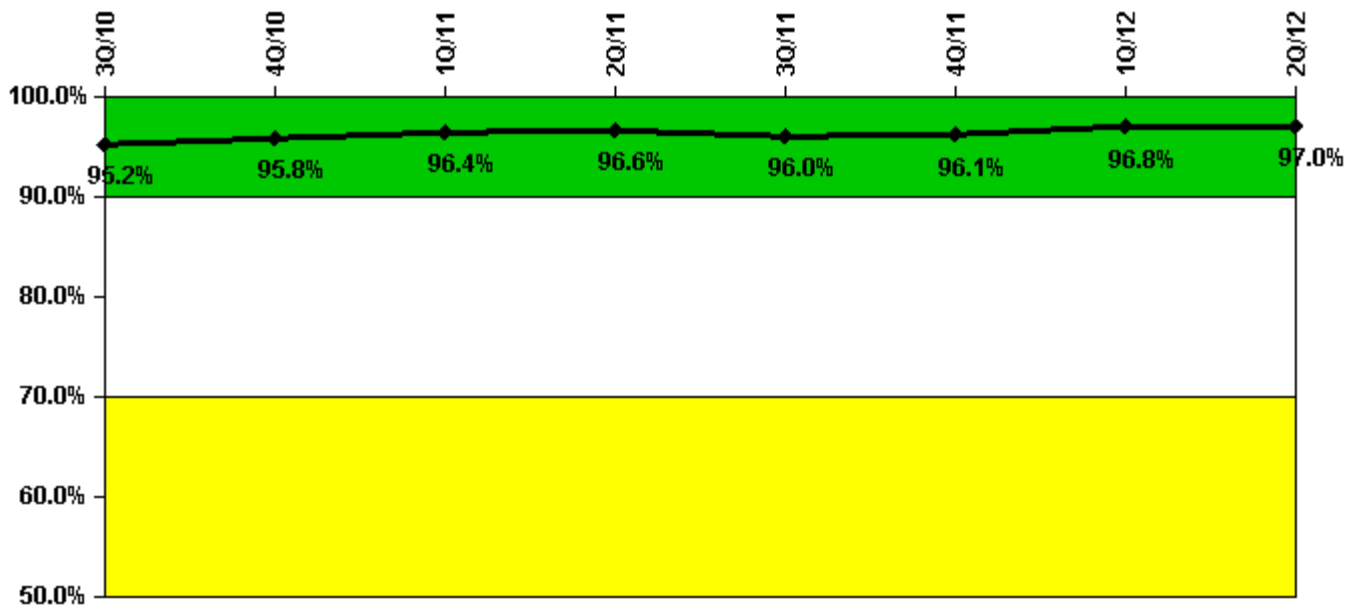
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	2.650	2.720	2.640	2.710	3.140	2.590	2.600	2.420	2.510	2.500	2.850	2.570
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.8	9.1	8.8	9.0	10.5	8.6	8.7	8.1	8.4	8.3	9.5	8.6
Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	2.690	2.700	2.780	2.560	3.000	2.680	2.620	2.720	0	0	0	2.500
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.0	9.0	9.3	8.5	10.0	8.9	8.7	9.1	0	0	0	8.3

Licensee Comments: none

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

### Notes

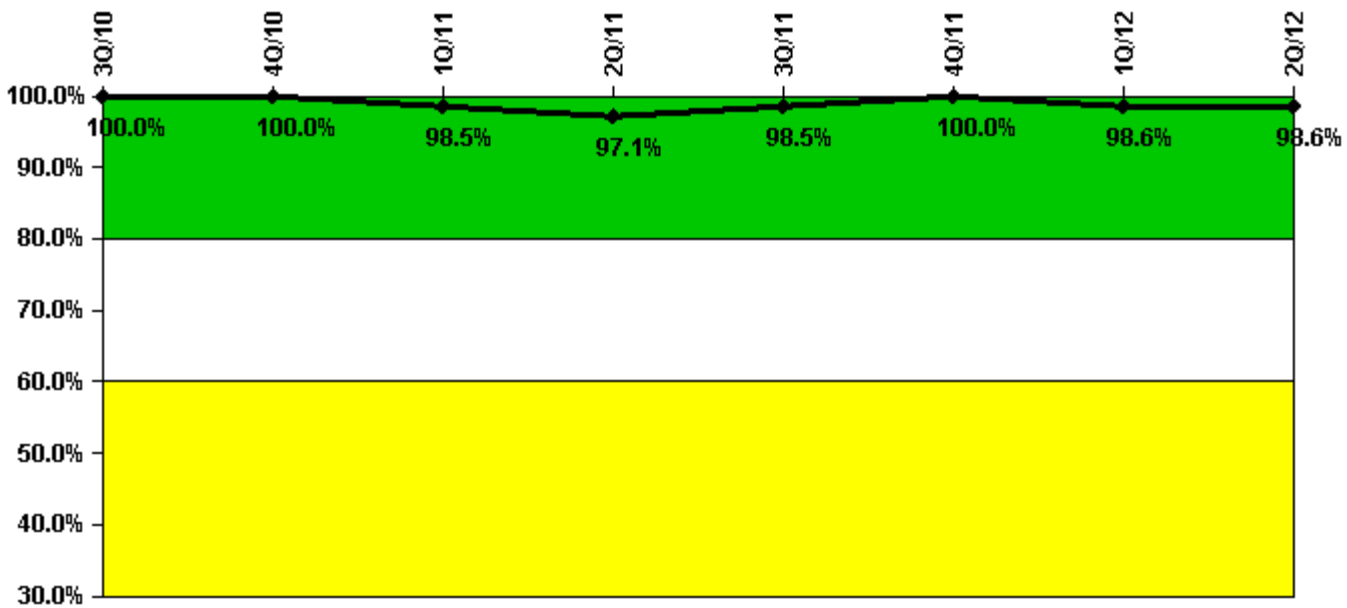
Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	34.0	22.0	28.0	29.0	28.0	47.0	0	9.0
Total opportunities	35.0	23.0	28.0	29.0	31.0	48.0	0	9.0
Indicator value	95.2%	95.8%	96.4%	96.6%	96.0%	96.1%	96.8%	97.0%

Licensee Comments:

4Q/10: December DEP changed from 5 of 5 to 4 of 4 - CR-GGN-2011-04751

3Q/10: August DEP changed from 16 of 17 to 9 of 9. - CR-GGN-2011-08346. Color of indicator not affected.

## ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	65.0	64.0	67.0	68.0	67.0	70.0	70.0	68.0
Total Key personnel	65.0	64.0	68.0	70.0	68.0	70.0	71.0	69.0
Indicator value	100.0%	100.0%	98.5%	97.1%	98.5%	100.0%	98.6%	98.6%

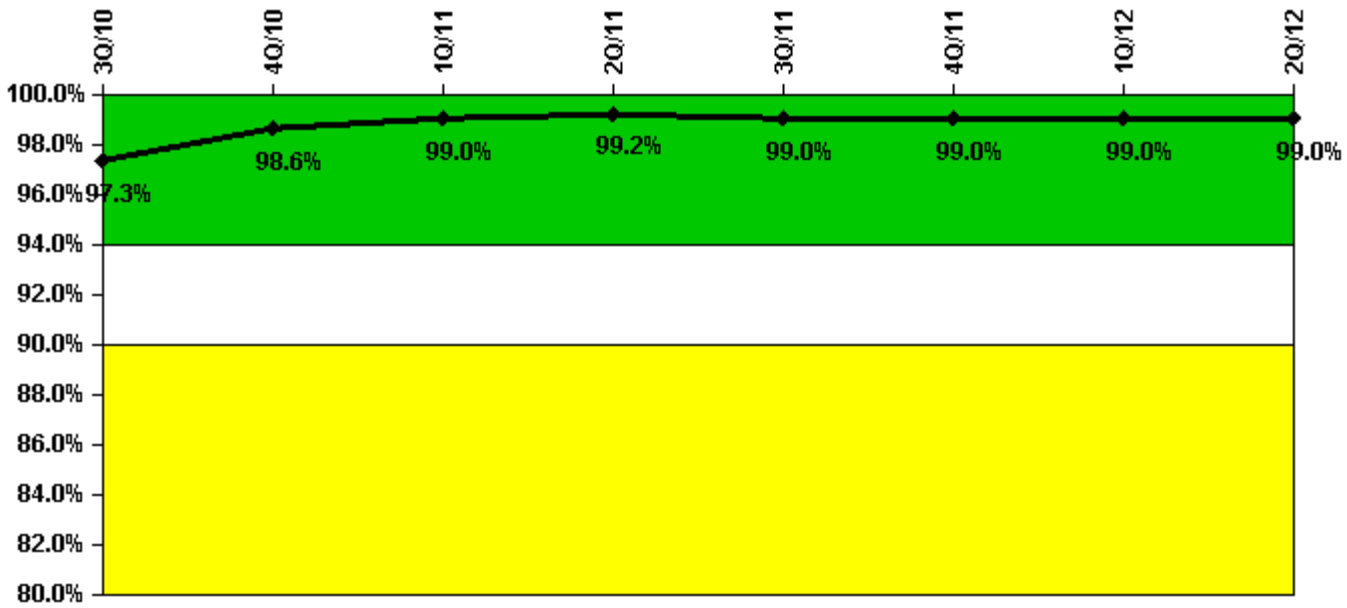
### Licensee Comments:

3Q/11: Participating key personnel revised from 68 to 67 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

2Q/11: Participating key personnel revised from 70 to 68 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

1Q/11: Participating key personnel revised from 68 to 67 in March for this quarterly indicator - CR-GGN-2011-08346. No change in indicator color.

## Alert & Notification System



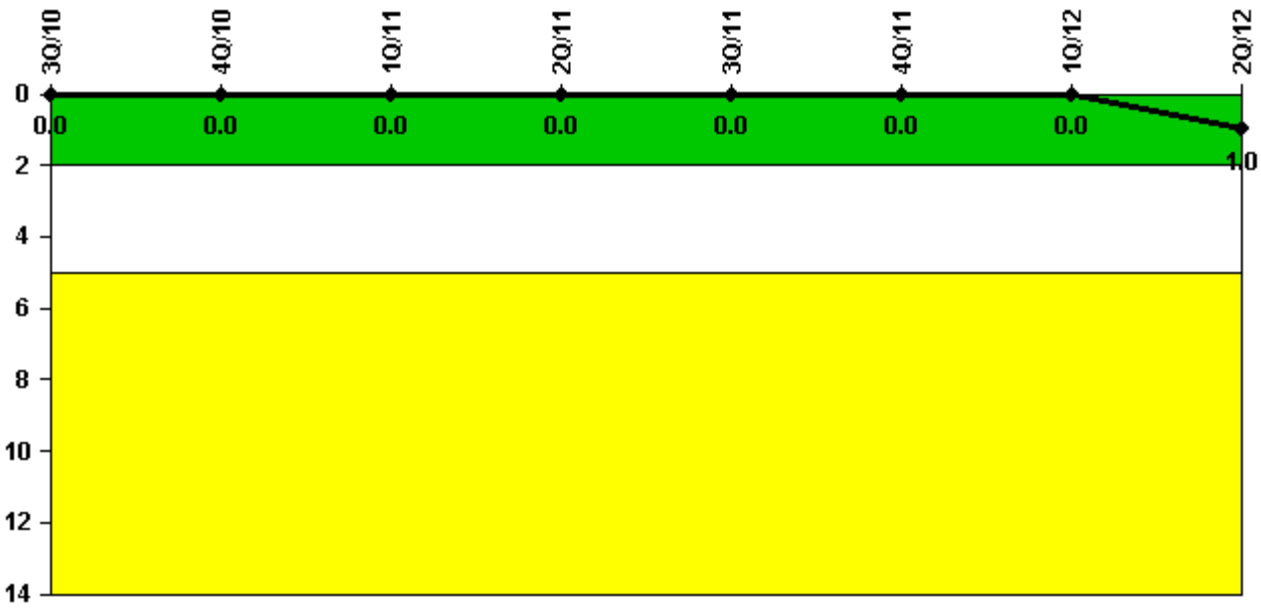
Thresholds: White < 94.0% Yellow < 90.0%

### Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	126	129	129	121	122	129	129	128
Total sirens-tests	129	129	129	122	126	129	129	129
Indicator value	97.3%	98.6%	99.0%	99.2%	99.0%	99.0%	99.0%	99.0%

Licensee Comments: none

## Occupational Exposure Control Effectiveness



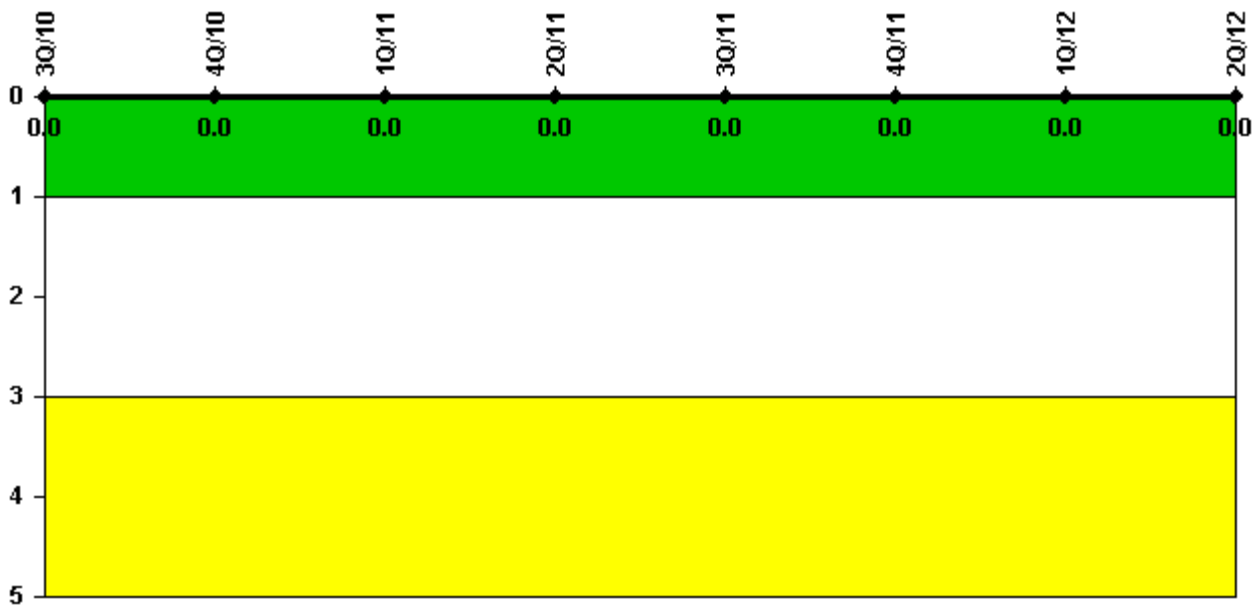
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
High radiation area occurrences	0	0	0	0	0	0	0	1
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>1</b>

Licensee Comments: none

## RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

### Notes

RETS/ODCM Radiological Effluent	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

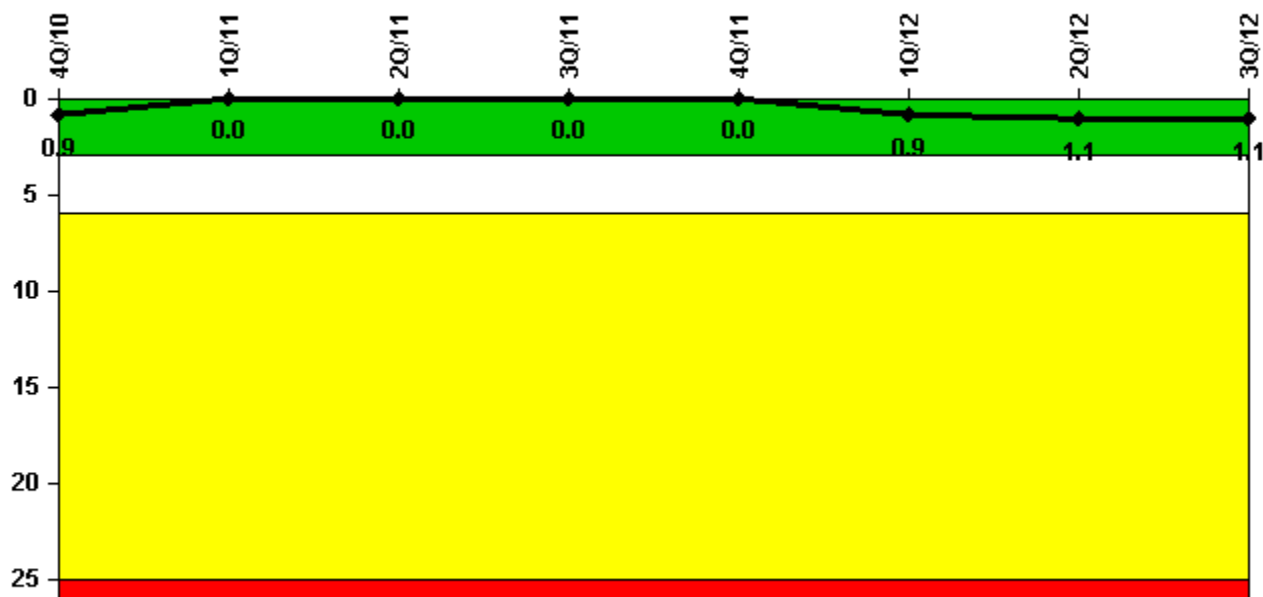
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# Grand Gulf 1

## 3Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

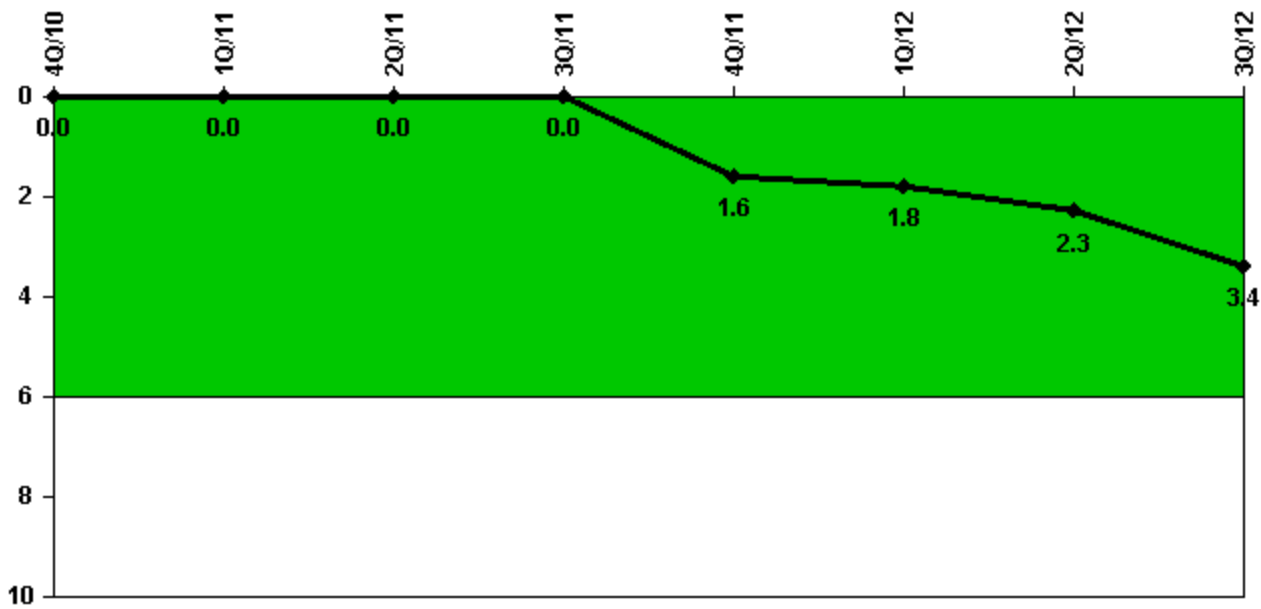
### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	2209.0	1195.1	521.5	2208.0
<b>Indicator value</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>1.1</b>	<b>1.1</b>

Licensee Comments:

1Q/12: Unplanned manual scram from ~25% power as a result of partial closure of the N11F014B RFPT B HP Steam Admission Valve. This resulted in starting RF-18 ~1 hour early (2/19/2012 at 1904 versus 2/19/2012 at 2000)

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

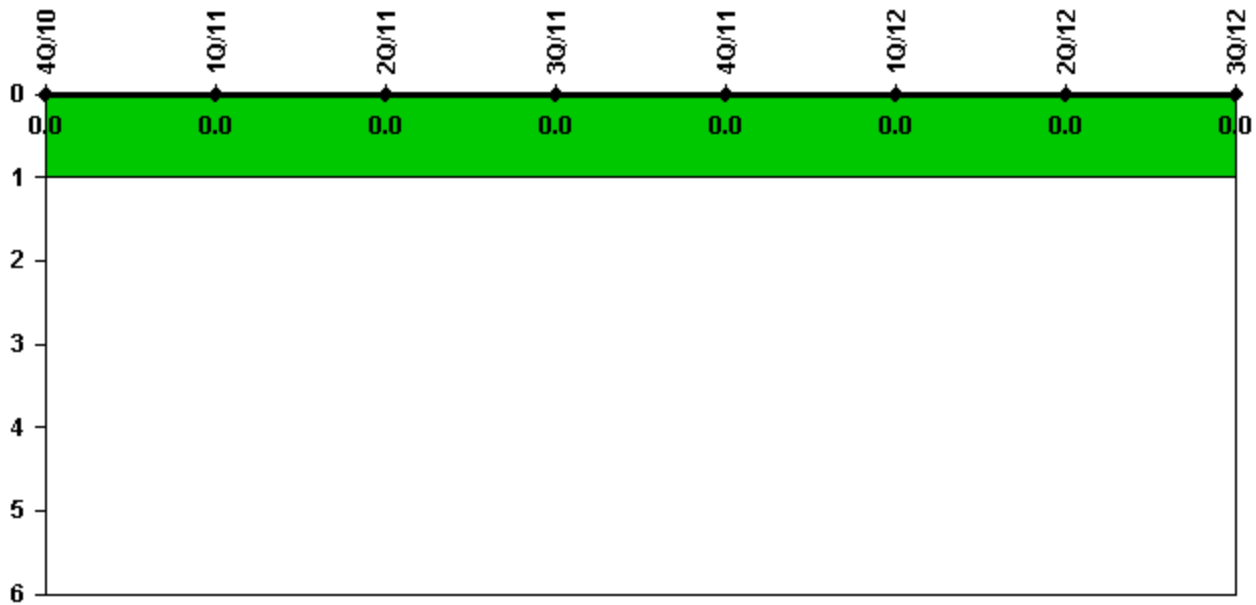
Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	0	0	0	0	2.0	0	0	1.0
Critical hours	2209.0	2159.0	2184.0	2208.0	2209.0	1195.1	521.5	2208.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.6</b>	<b>1.8</b>	<b>2.3</b>	<b>3.4</b>

Licensee Comments:

4Q/11: Two unplanned Downpowers >20% in November: Feed pump trip and Partial PSW Loss.



### Unplanned Scrams with Complications



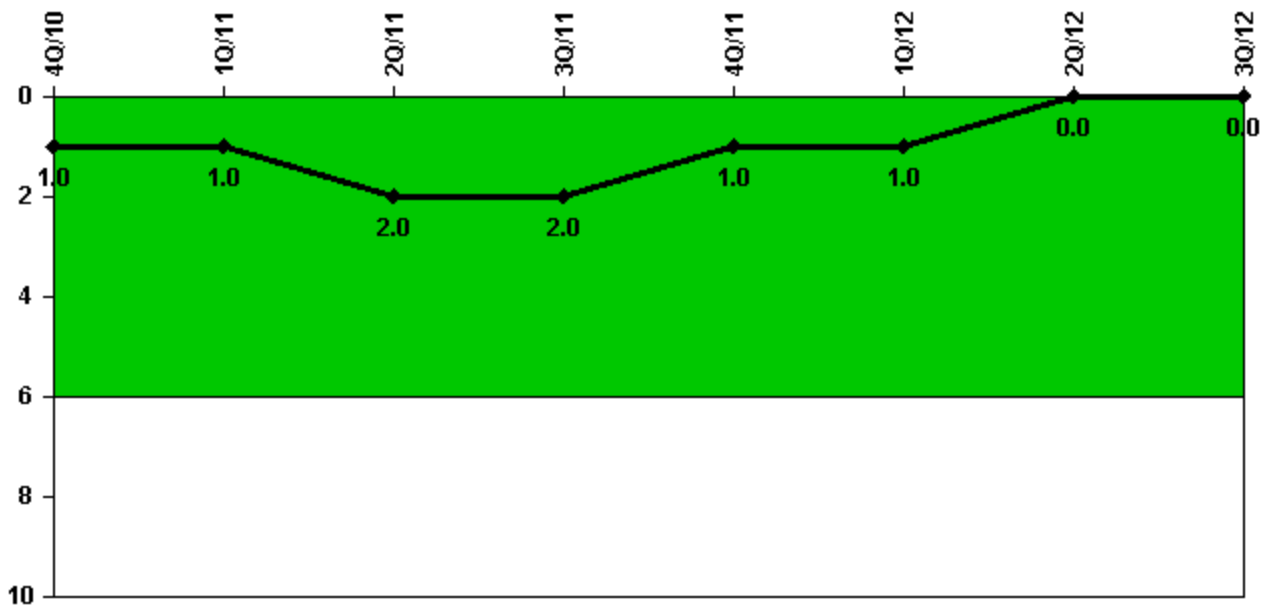
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

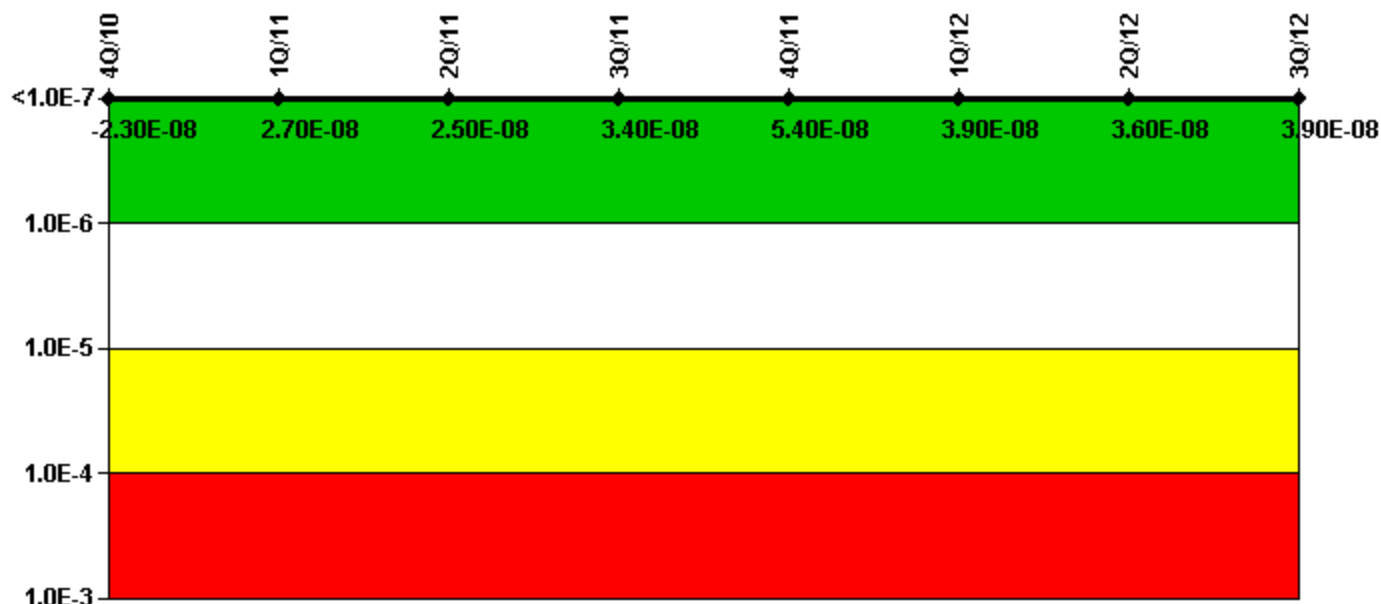
Safety System Functional Failures (BWR)	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Safety System Functional Failures	1	0	1	0	0	0	0	0
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>

Licensee Comments:

2Q/11: Reference: GGNS LER 2011-001

4Q/10: Reference GGNS LER 2010-002

### Mitigating Systems Performance Index, Emergency AC Power System



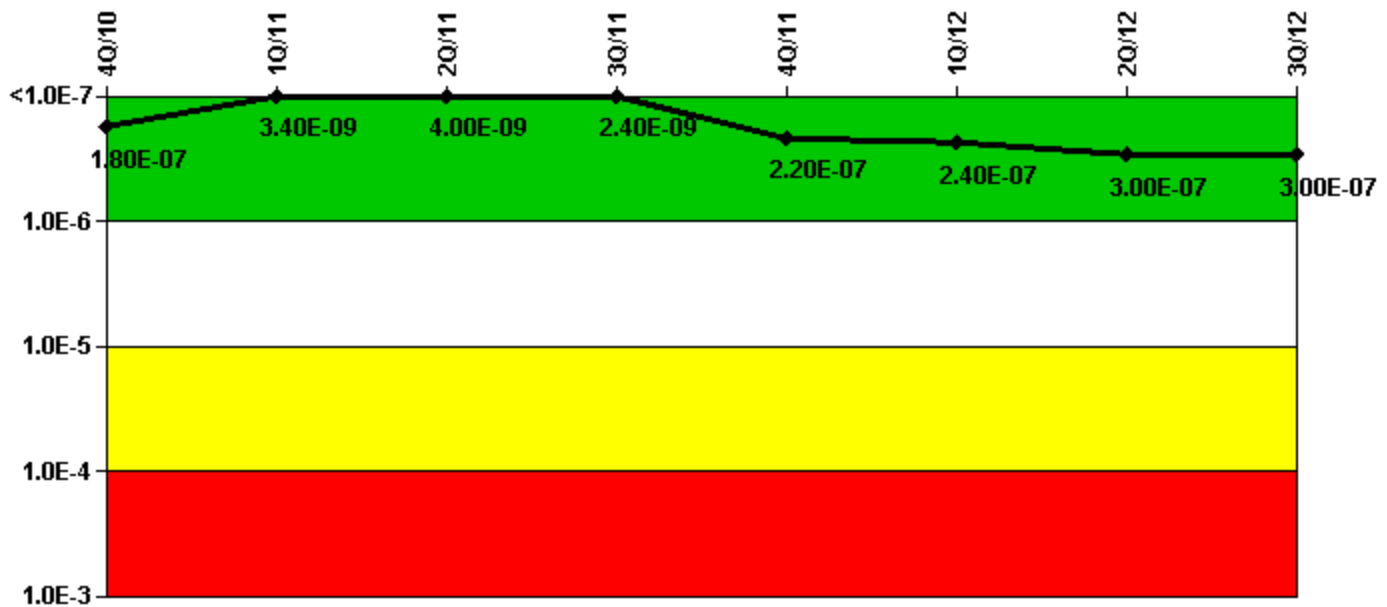
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI ( $\Delta$ CDF)	-4.44E-09	5.68E-09	5.64E-09	4.70E-09	6.70E-09	-7.61E-09	-7.51E-09	-7.51E-09
URI ( $\Delta$ CDF)	-1.87E-08	2.17E-08	1.97E-08	2.91E-08	4.76E-08	4.65E-08	4.39E-08	4.63E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-08	2.70E-08	2.50E-08	3.40E-08	5.40E-08	3.90E-08	3.60E-08	3.90E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



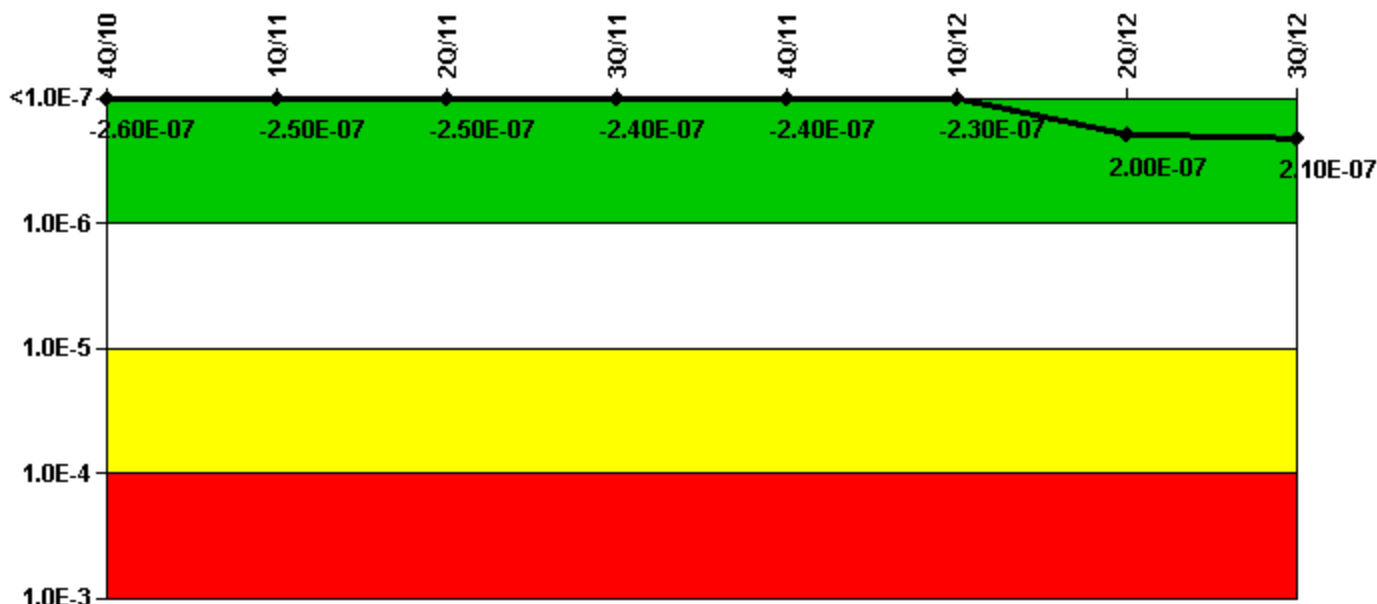
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI ( $\Delta$ CDF)	2.30E-07	1.89E-08	1.46E-08	1.36E-08	2.39E-07	2.60E-07	2.96E-07	2.96E-07
URI ( $\Delta$ CDF)	-5.36E-08	-1.55E-08	-1.06E-08	-1.12E-08	-1.73E-08	-1.70E-08	8.31E-09	8.44E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.80E-07	3.40E-09	4.00E-09	2.40E-09	2.20E-07	2.40E-07	3.00E-07	3.00E-07

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/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI ( $\Delta$ CDF)	-5.31E-08	-5.32E-08	-5.32E-08	-5.33E-08	-6.20E-08	-6.20E-08	-4.37E-08	-4.37E-08
URI ( $\Delta$ CDF)	-2.03E-07	-2.01E-07	-1.93E-07	-1.87E-07	-1.78E-07	-1.70E-07	2.43E-07	2.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-07	-2.50E-07	-2.50E-07	-2.40E-07	-2.40E-07	-2.30E-07	2.00E-07	2.10E-07

#### Licensee Comments:

4Q/11: No Changes Made to this indicator in the 1Q12 update, relocked data only.

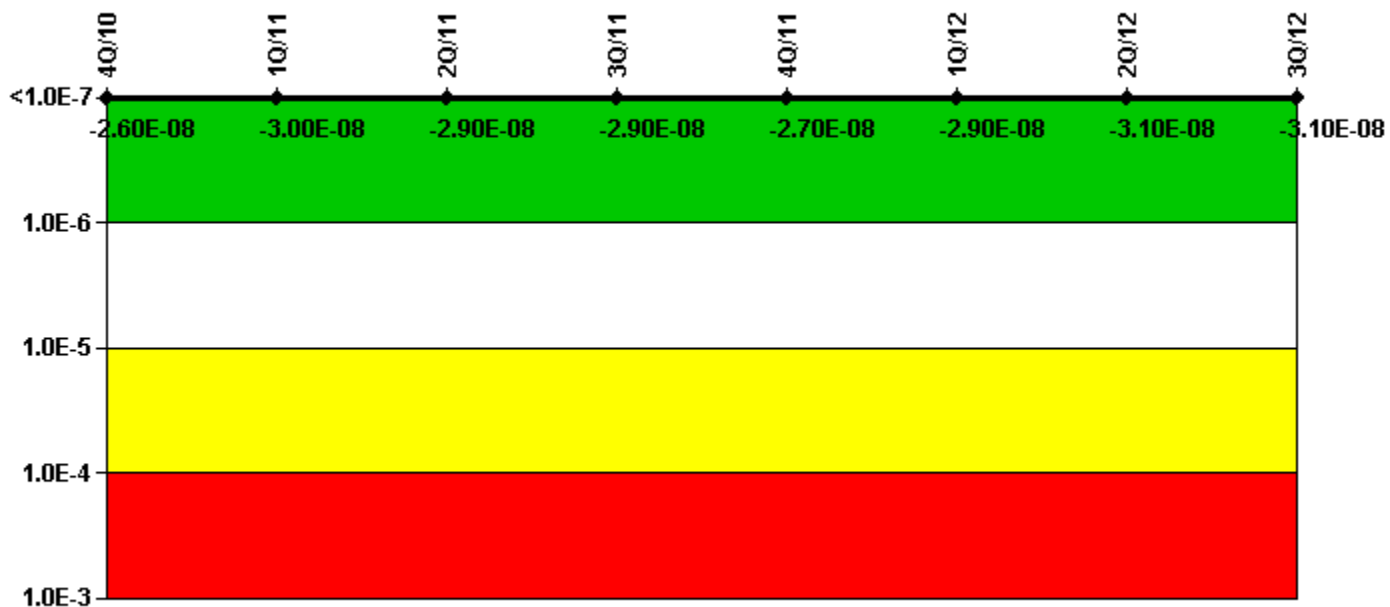
3Q/11: September Valve Demand Numbers revised and no change to indicator color (green).

2Q/11: June Valve Demand Numbers revised and no change to indicator color (green).

1Q/11: March Valve Demand Numbers revised and no change to indicator color (green).

4Q/10: December Valve Demand Numbers revised and no change to indicator color (green).

### Mitigating Systems Performance Index, Residual Heat Removal System



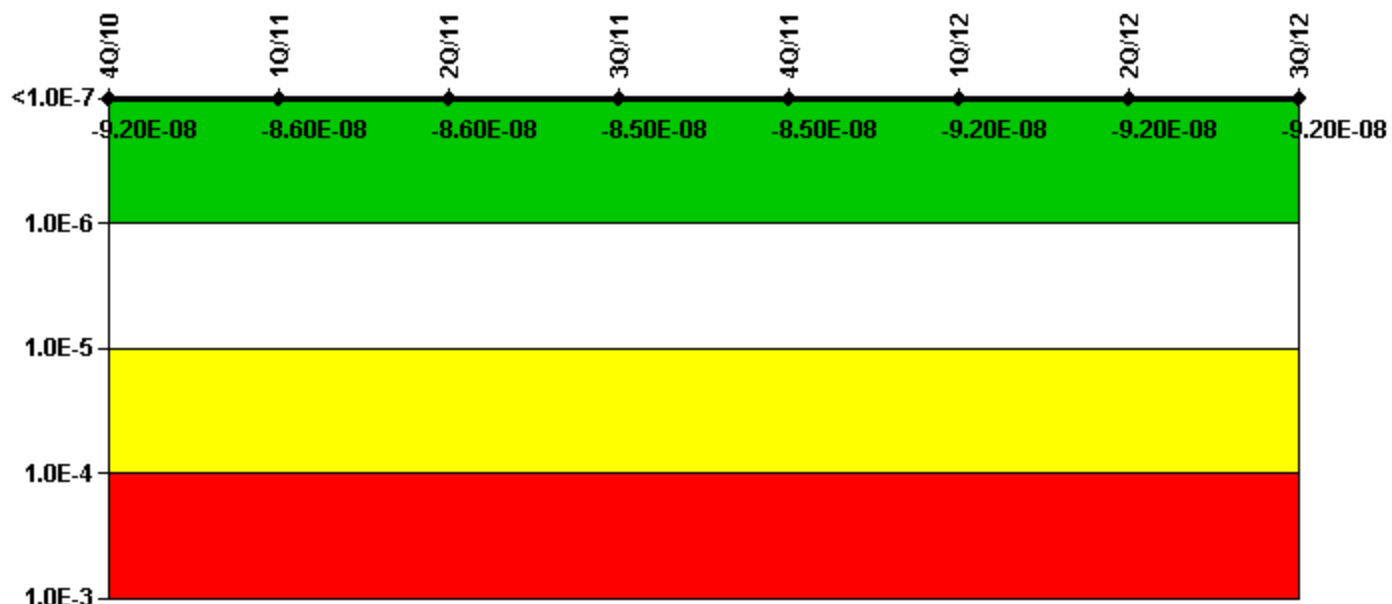
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI ( $\Delta$ CDF)	-4.65E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.12E-08	-2.11E-08	-2.08E-08	-1.99E-08	-1.83E-08	-2.04E-08	-2.27E-08	-2.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-08	-3.00E-08	-2.90E-08	-2.90E-08	-2.70E-08	-2.90E-08	-3.10E-08	-3.10E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



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

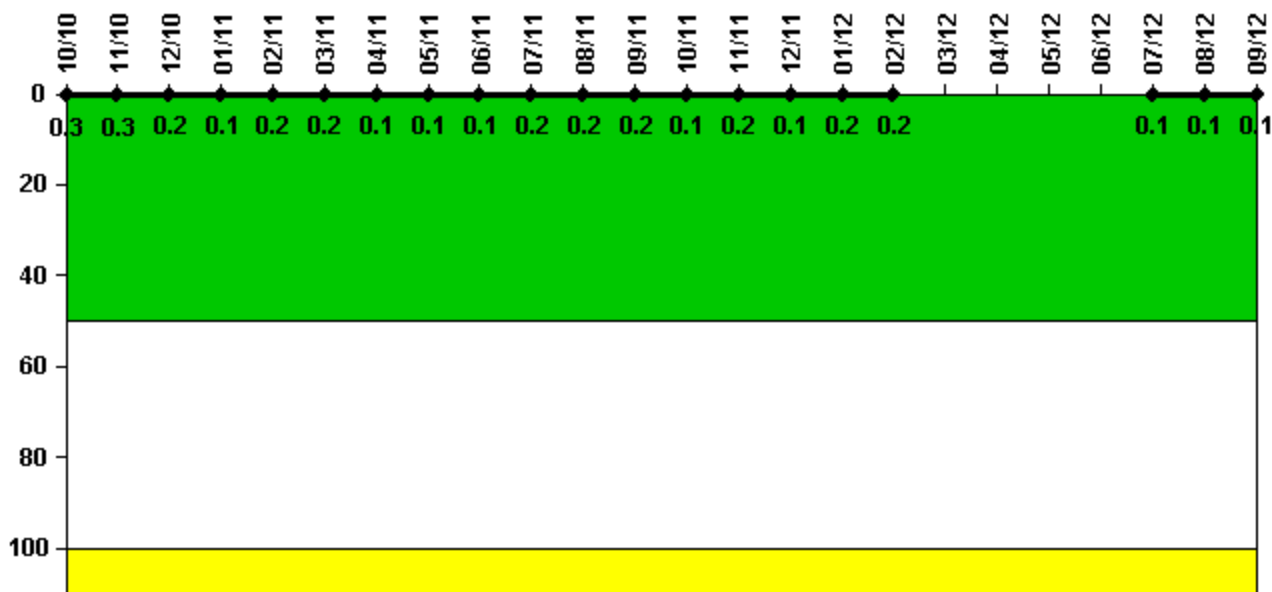
#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI ( $\Delta$ CDF)	-1.71E-09	5.19E-09	5.19E-09	4.92E-09	4.27E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.05E-08	-9.12E-08	-9.10E-08	-9.01E-08	-8.92E-08	-9.01E-08	-9.06E-08	-9.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-08	-8.60E-08	-8.60E-08	-8.50E-08	-8.50E-08	-9.20E-08	-9.20E-08	-9.20E-08

Licensee Comments:

2Q/11: April pump start and run times were revised and no change to indicator color (green).

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

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	0.000548	0.000532	0.000336	0.000290	0.000330	0.000328	0.000262	0.000247	0.000257	0.000465	0.000372	0.000326
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	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2

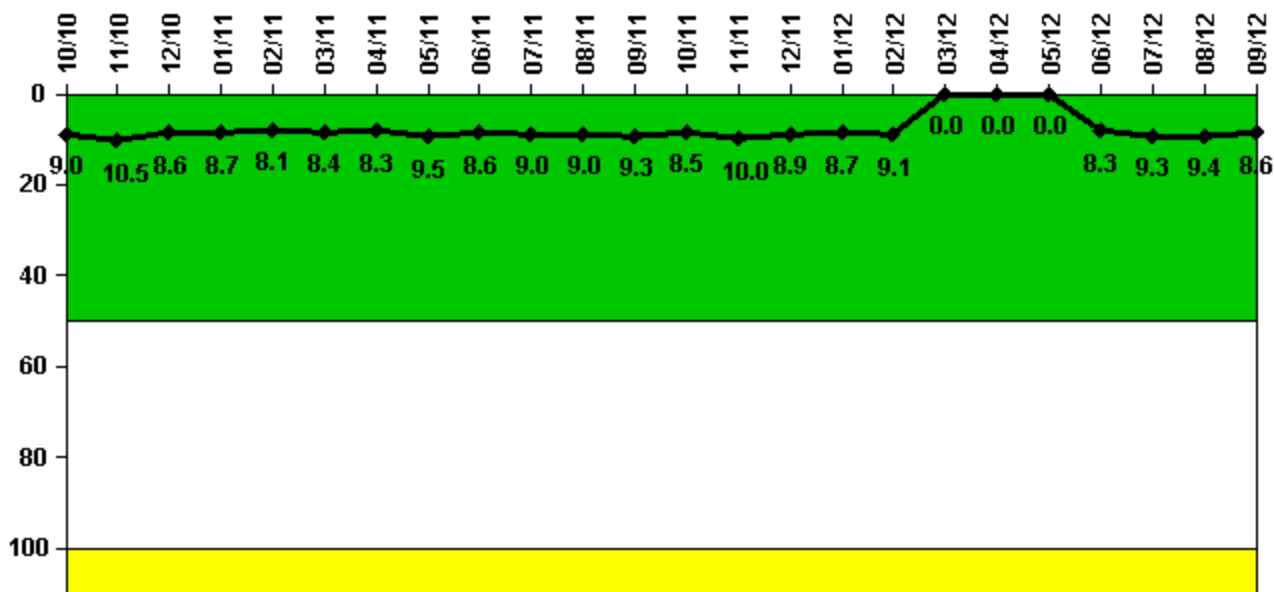
  

Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.000284	0.000327	0.000254	0.000347	0.000322	N/A	N/A	N/A	N/A	0.000132	0.000170	0.000183
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.2	0.1	0.2	0.2	N/A	N/A	N/A	N/A	0.1	0.1	0.1

Licensee Comments: none



### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

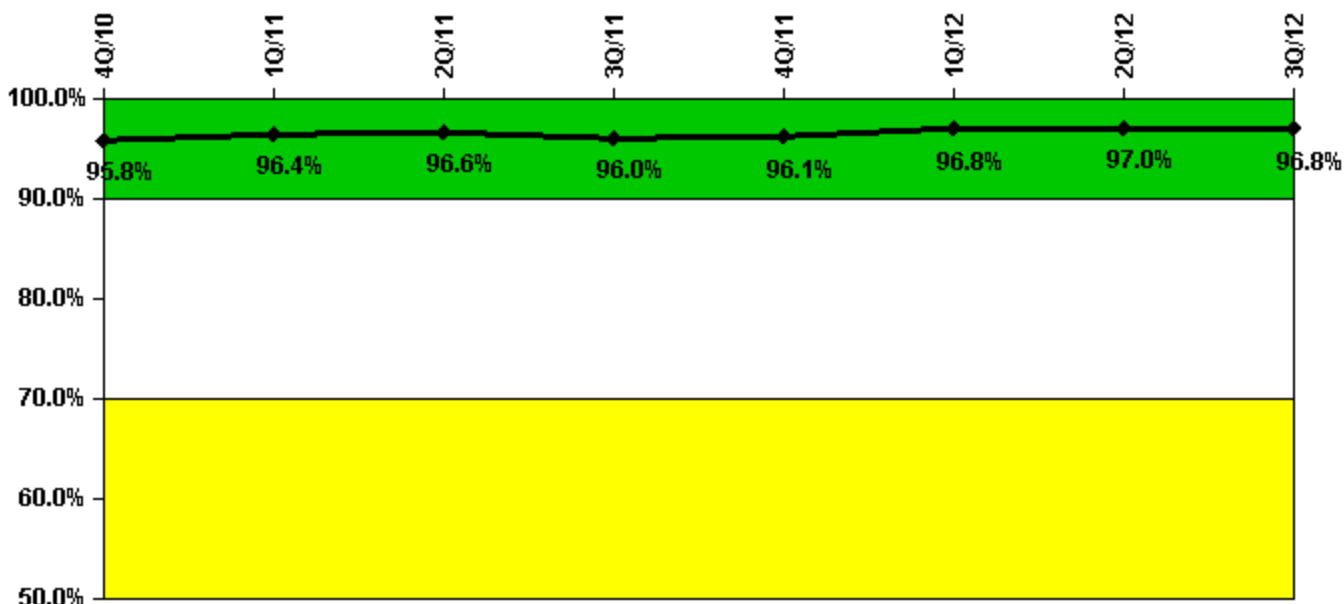
Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	2.710	3.140	2.590	2.600	2.420	2.510	2.500	2.850	2.570	2.690	2.700	2.780
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>9.0</b>	<b>10.5</b>	<b>8.6</b>	<b>8.7</b>	<b>8.1</b>	<b>8.4</b>	<b>8.3</b>	<b>9.5</b>	<b>8.6</b>	<b>9.0</b>	<b>9.0</b>	<b>9.3</b>

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	2.560	3.000	2.680	2.620	2.720	0	0	0	2.500	2.780	2.820	2.580
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>8.5</b>	<b>10.0</b>	<b>8.9</b>	<b>8.7</b>	<b>9.1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8.3</b>	<b>9.3</b>	<b>9.4</b>	<b>8.6</b>

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

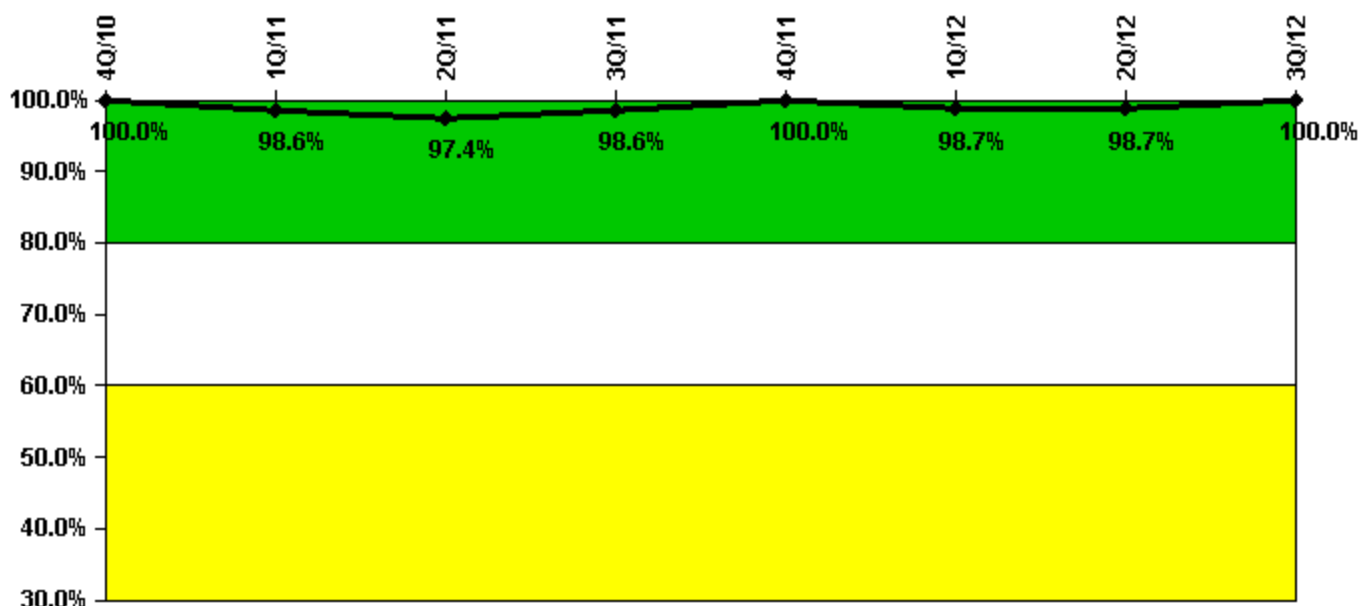
#### Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	22.0	28.0	29.0	28.0	47.0	0	9.0	21.0
Total opportunities	23.0	28.0	29.0	31.0	48.0	0	9.0	22.0
Indicator value	95.8%	96.4%	96.6%	96.0%	96.1%	96.8%	97.0%	96.8%

Licensee Comments:

4Q/10: December DEP changed from 5 of 5 to 4 of 4 - CR-GGN-2011-04751

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	68.0	73.0	74.0	73.0	76.0	76.0	74.0	72.0
Total Key personnel	68.0	74.0	76.0	74.0	76.0	77.0	75.0	72.0
Indicator value	100.0%	98.6%	97.4%	98.6%	100.0%	98.7%	98.7%	100.0%

#### Licensee Comments:

2Q/12: Participating key personnel revised from 68 to 74 and Total Key personnel revised from 69 to 75 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

1Q/12: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 71 to 77 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

4Q/11: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 70 to 76 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

3Q/11: Participating key personnel revised from 67 to 73 and Total Key personnel revised from 68 to 74 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

3Q/11: Participating key personnel revised from 68 to 67 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

2Q/11: Participating key personnel revised from 70 to 68 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

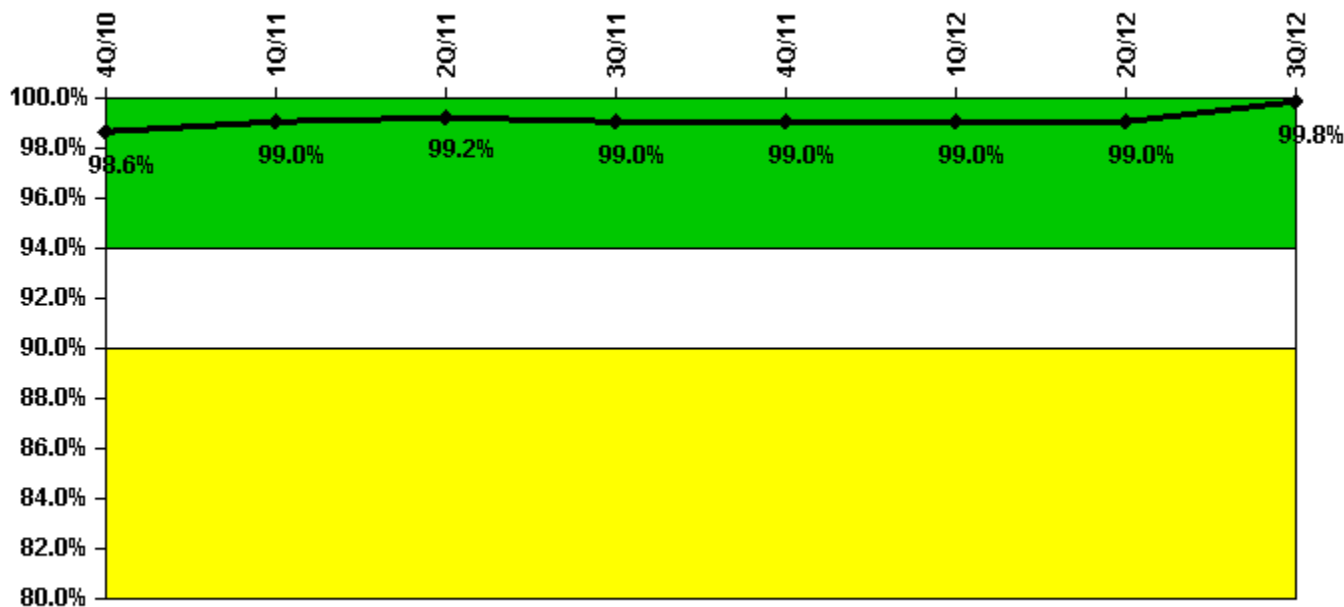
2Q/11: Participating key personnel revised from 68 to 74 and Total Key personnel revised from 70 to 76 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

1Q/11: Participating key personnel revised from 68 to 67 in March for this quarterly indicator - CR-GGN-2011-08346. No change in indicator color.

1Q/11: Participating key personnel revised from 67 to 73 and Total Key personnel revised from 68 to 74 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

4Q/10: Participating key personnel revised from 64 to 68 and Total Key personnel revised from 64 to 68 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

### Alert & Notification System



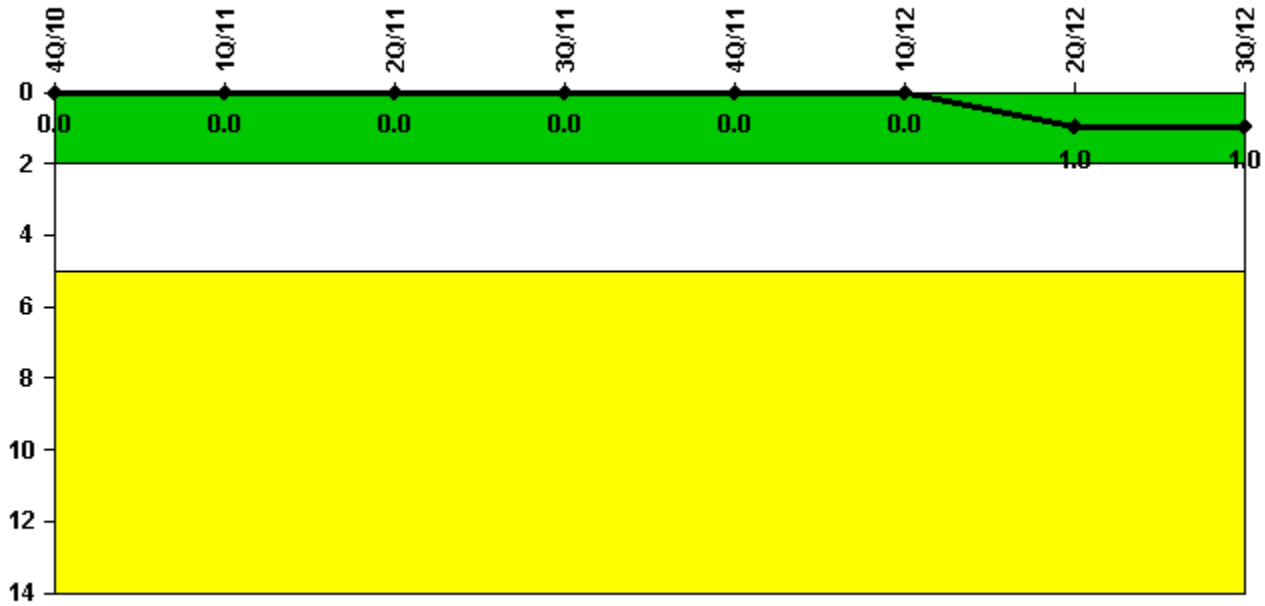
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	129	129	121	122	129	129	128	129
Total sirens-tests	129	129	122	126	129	129	129	129
Indicator value	98.6%	99.0%	99.2%	99.0%	99.0%	99.0%	99.0%	99.8%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



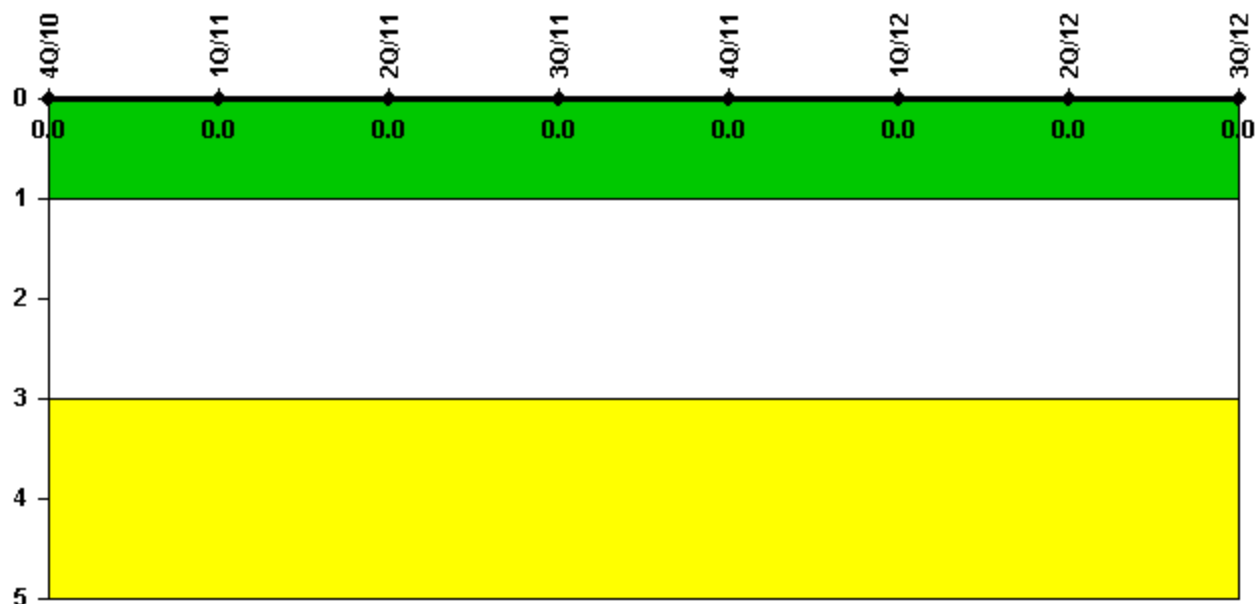
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
High radiation area occurrences	0	0	0	0	0	0	1	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>1</b>	<b>1</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

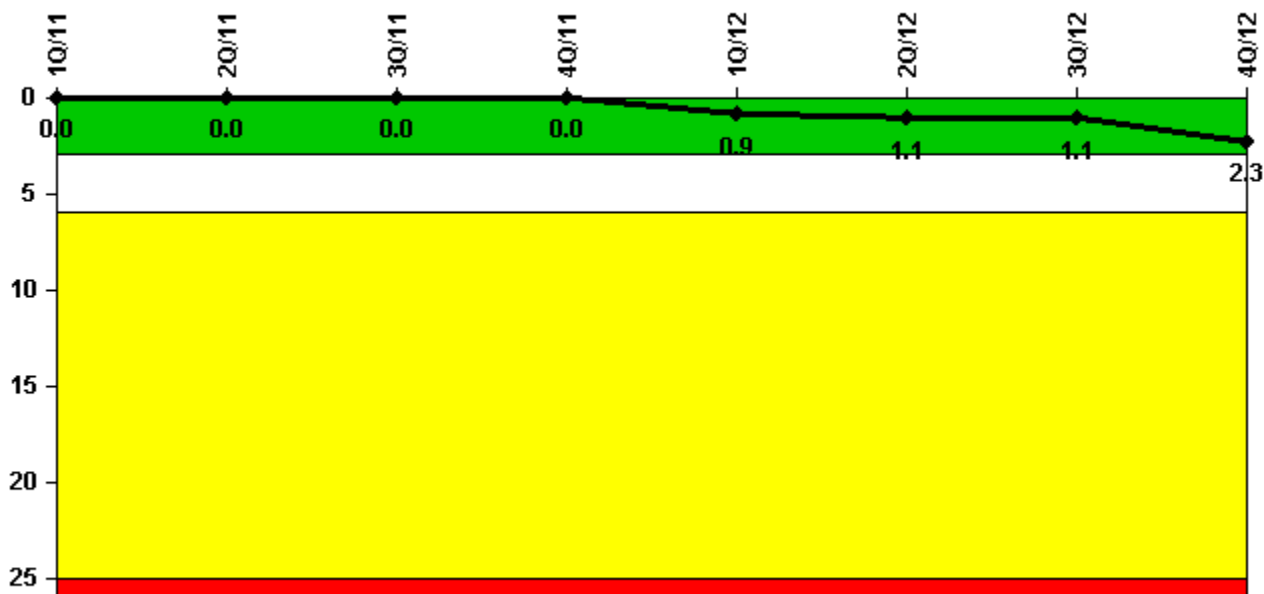
*Last Modified: October 24, 2012*

# Grand Gulf 1

## 4Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

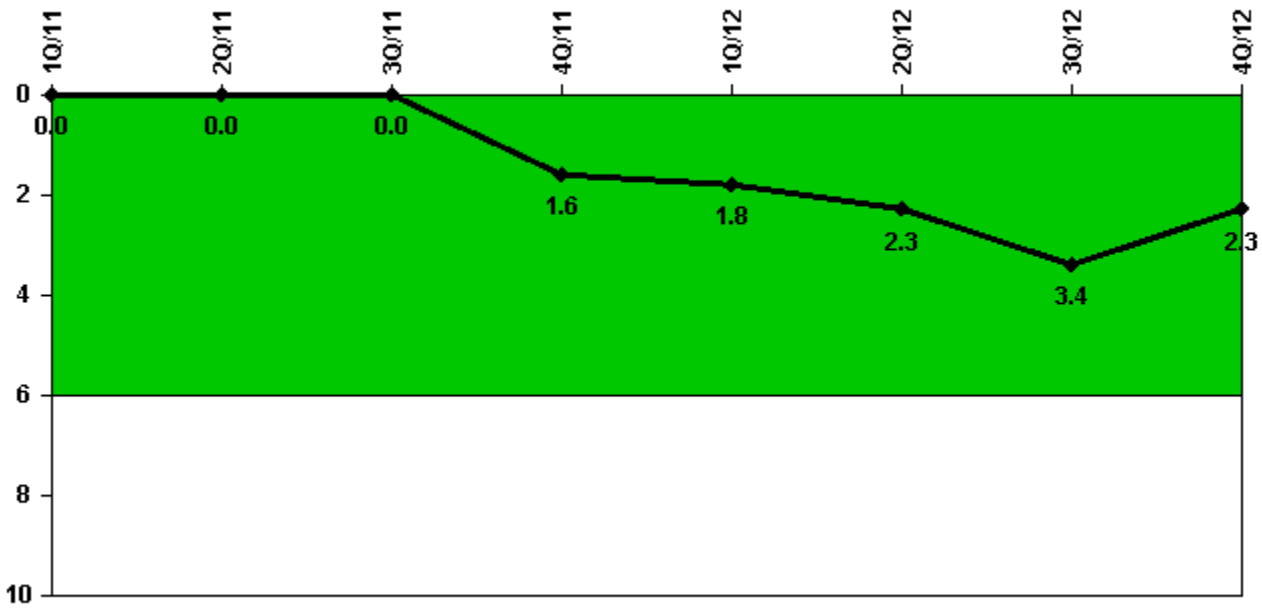
Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	0	0	0	0	1.0	0	0	1.0
Critical hours	2159.0	2184.0	2208.0	2209.0	1195.1	521.5	2208.0	2033.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>1.1</b>	<b>1.1</b>	<b>2.3</b>

Licensee Comments:

1Q/12: Unplanned manual scram from ~25% power as a result of partial closure of the N11F014B RFPT B HP Steam Admission Valve. This resulted in starting RF-18 ~1 hour early (2/19/2012 at 1904 versus 2/19/2012 at 2000)



### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

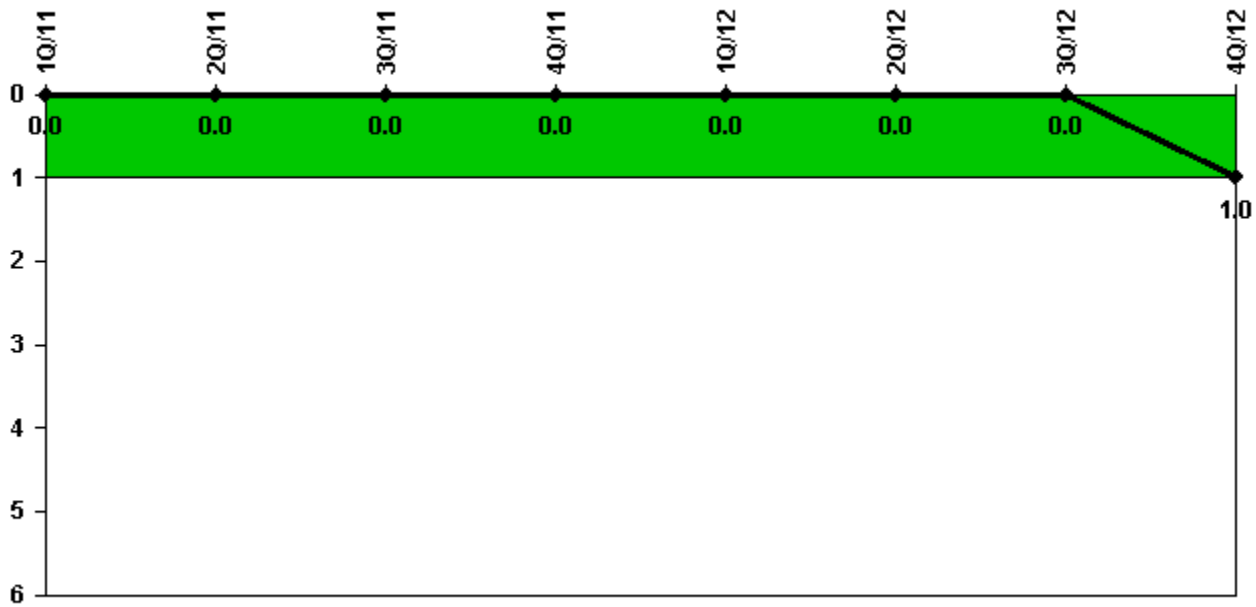
#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	0	0	2.0	0	0	1.0	1.0
Critical hours	2159.0	2184.0	2208.0	2209.0	1195.1	521.5	2208.0	2033.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.6</b>	<b>1.8</b>	<b>2.3</b>	<b>3.4</b>	<b>2.3</b>

Licensee Comments:

4Q/11: Two unplanned Downpowers >20% in November: Feed pump trip and Partial PSW Loss.

### Unplanned Scrams with Complications



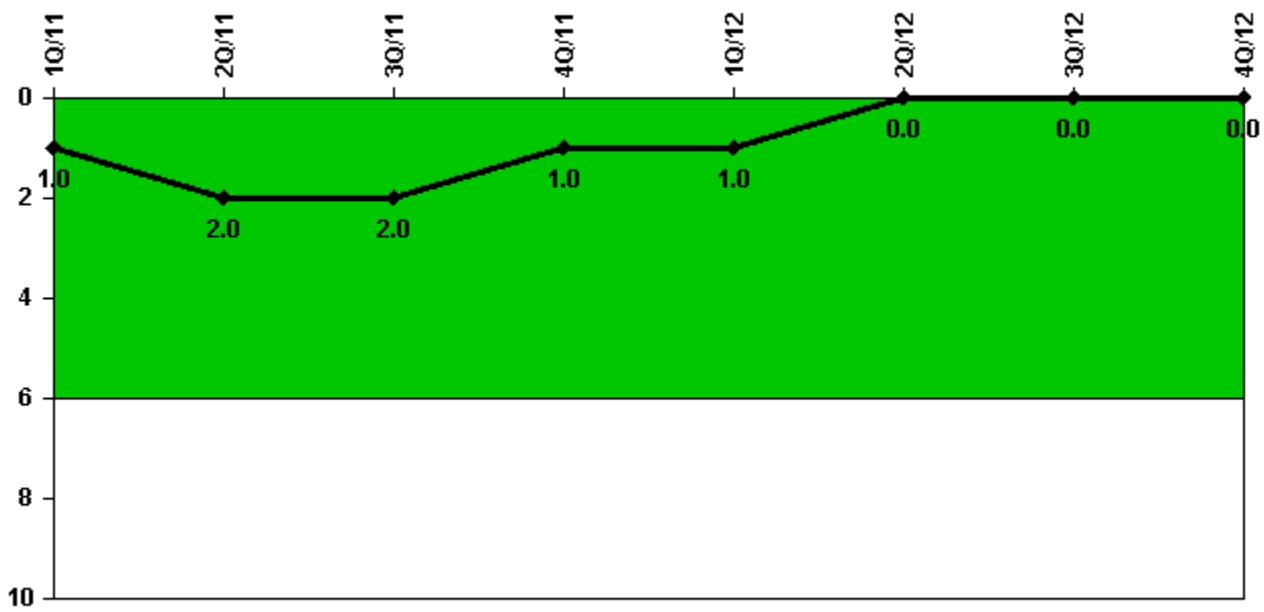
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Scrams with complications	0	0	0	0	0	0	0	1.0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

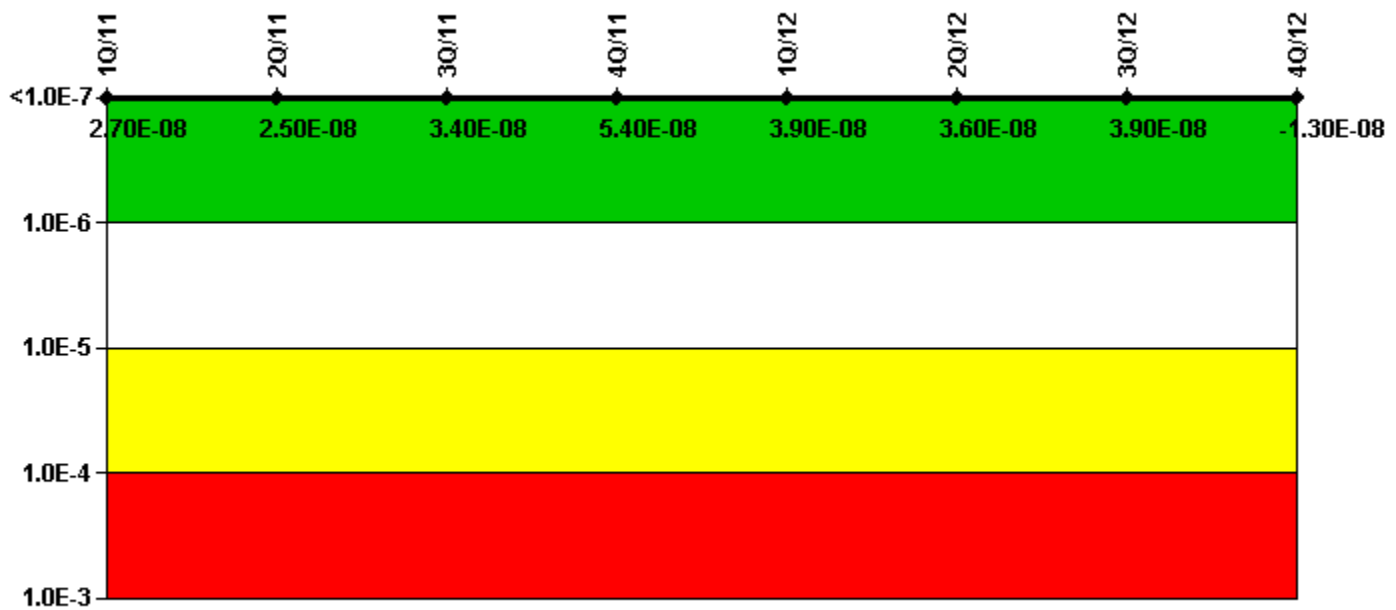
#### Notes

Safety System Functional Failures (BWR)	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Safety System Functional Failures	0	1	0	0	0	0	0	0
<b>Indicator value</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments:

2Q/11: Reference: GGNS LER 2011-001

### Mitigating Systems Performance Index, Emergency AC Power System



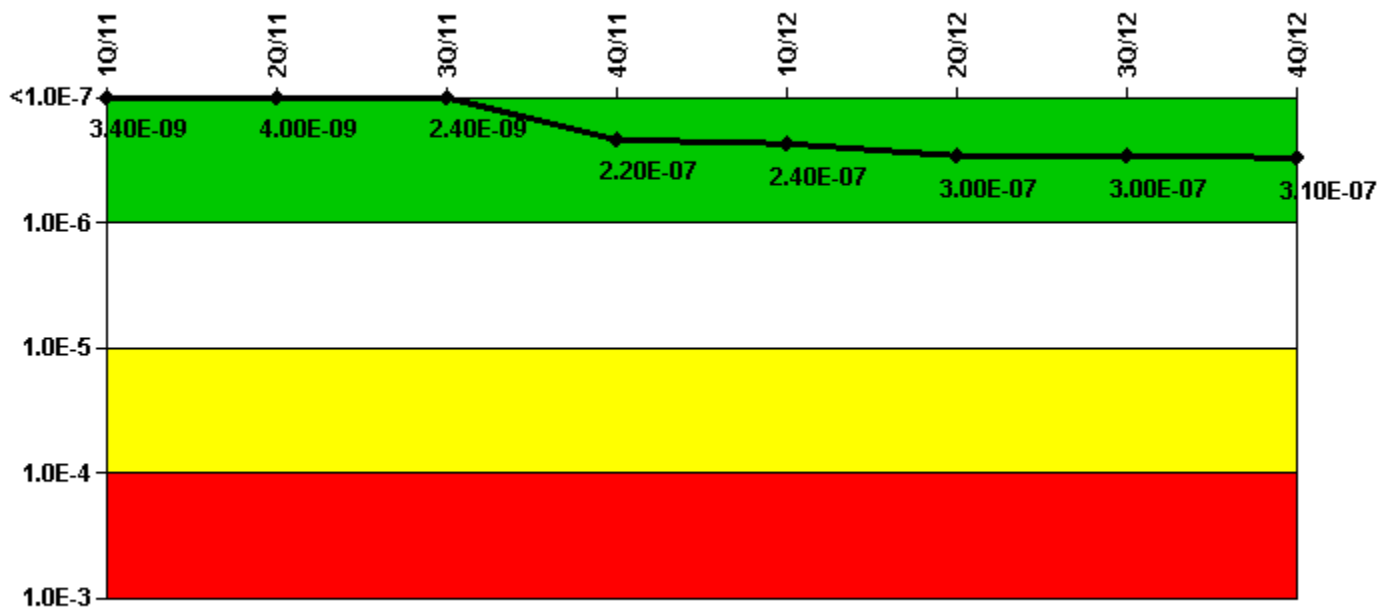
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI ( $\Delta$ CDF)	5.68E-09	5.64E-09	4.70E-09	6.70E-09	-7.61E-09	-7.51E-09	-7.51E-09	-8.84E-09
URI ( $\Delta$ CDF)	2.17E-08	1.97E-08	2.91E-08	4.76E-08	4.65E-08	4.39E-08	4.63E-08	-3.73E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.70E-08	2.50E-08	3.40E-08	5.40E-08	3.90E-08	3.60E-08	3.90E-08	-1.30E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



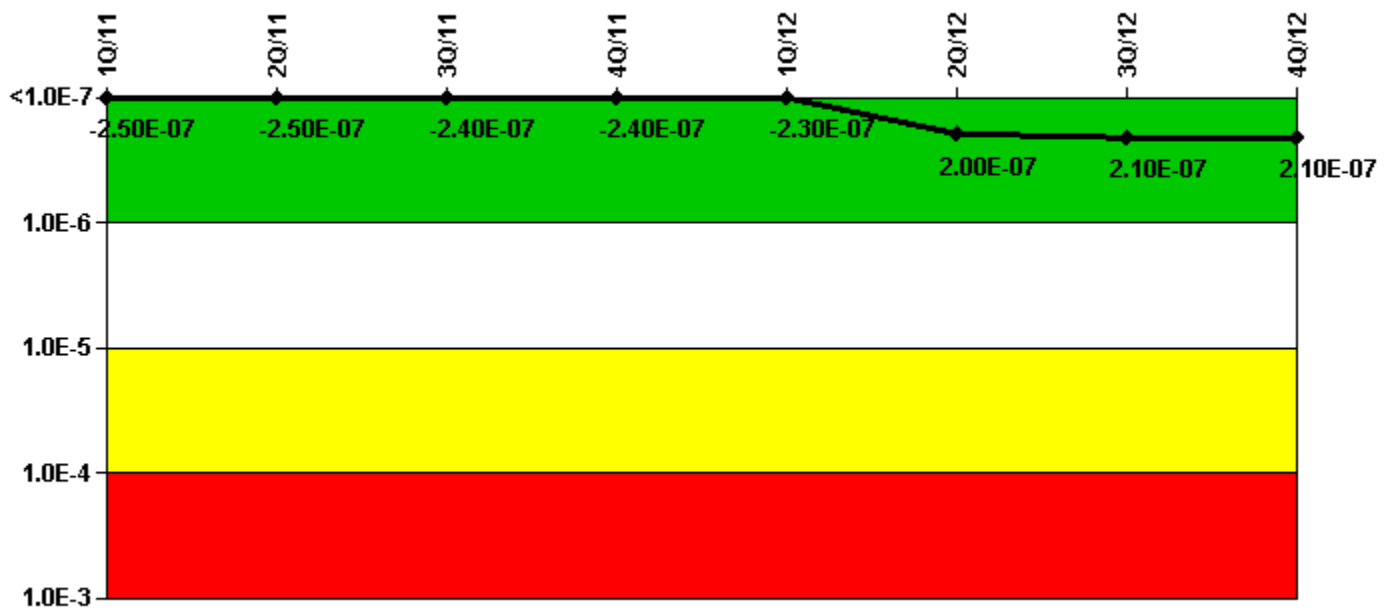
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI ( $\Delta$ CDF)	1.89E-08	1.46E-08	1.36E-08	2.39E-07	2.60E-07	2.96E-07	2.96E-07	3.01E-07
URI ( $\Delta$ CDF)	-1.55E-08	-1.06E-08	-1.12E-08	-1.73E-08	-1.70E-08	8.31E-09	8.44E-09	1.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.40E-09	4.00E-09	2.40E-09	2.20E-07	2.40E-07	3.00E-07	3.00E-07	3.10E-07

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/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	-5.32E-08	-5.32E-08	-5.33E-08	-6.20E-08	-6.20E-08	-4.37E-08	-4.37E-08	-4.36E-08
URI (ΔCDF)	-2.01E-07	-1.93E-07	-1.87E-07	-1.78E-07	-1.70E-07	2.43E-07	2.52E-07	2.51E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-07	-2.50E-07	-2.40E-07	-2.40E-07	-2.30E-07	2.00E-07	2.10E-07	2.10E-07

Licensee Comments:

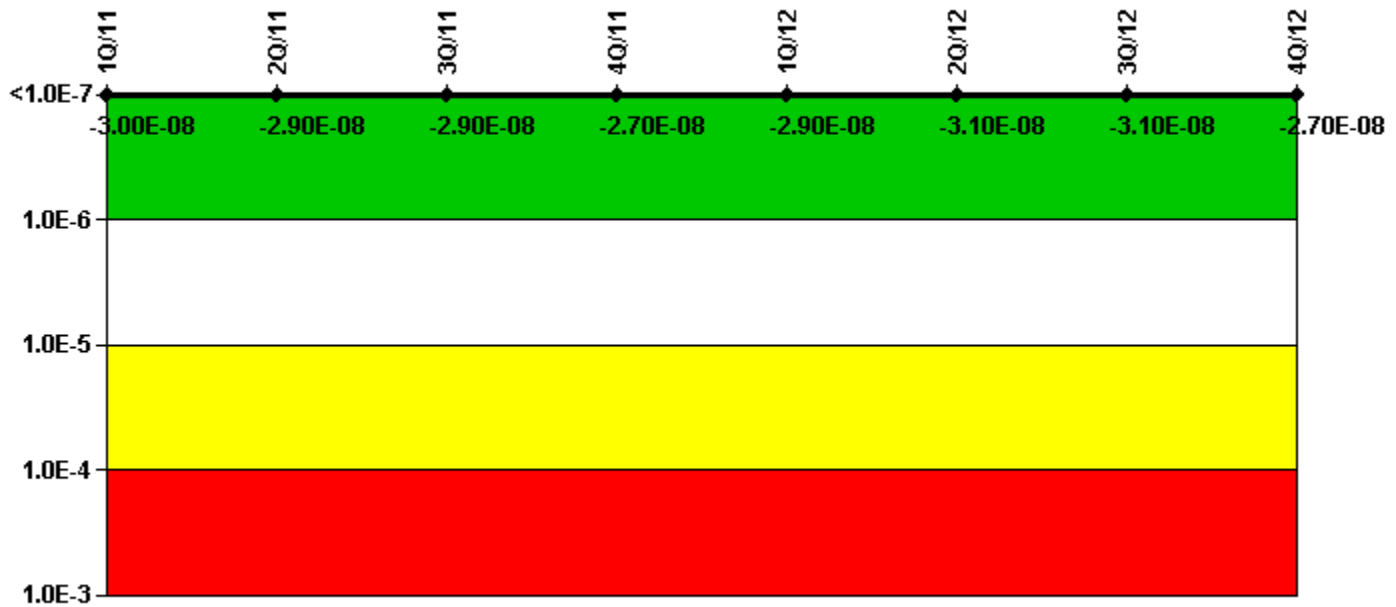
4Q/11: No Changes Made to this indicator in the 1Q12 update, relocked data only.

3Q/11: September Valve Demand Numbers revised and no change to indicator color (green).

2Q/11: June Valve Demand Numbers revised and no change to indicator color (green).

1Q/11: March Valve Demand Numbers revised and no change to indicator color (green).

### Mitigating Systems Performance Index, Residual Heat Removal System



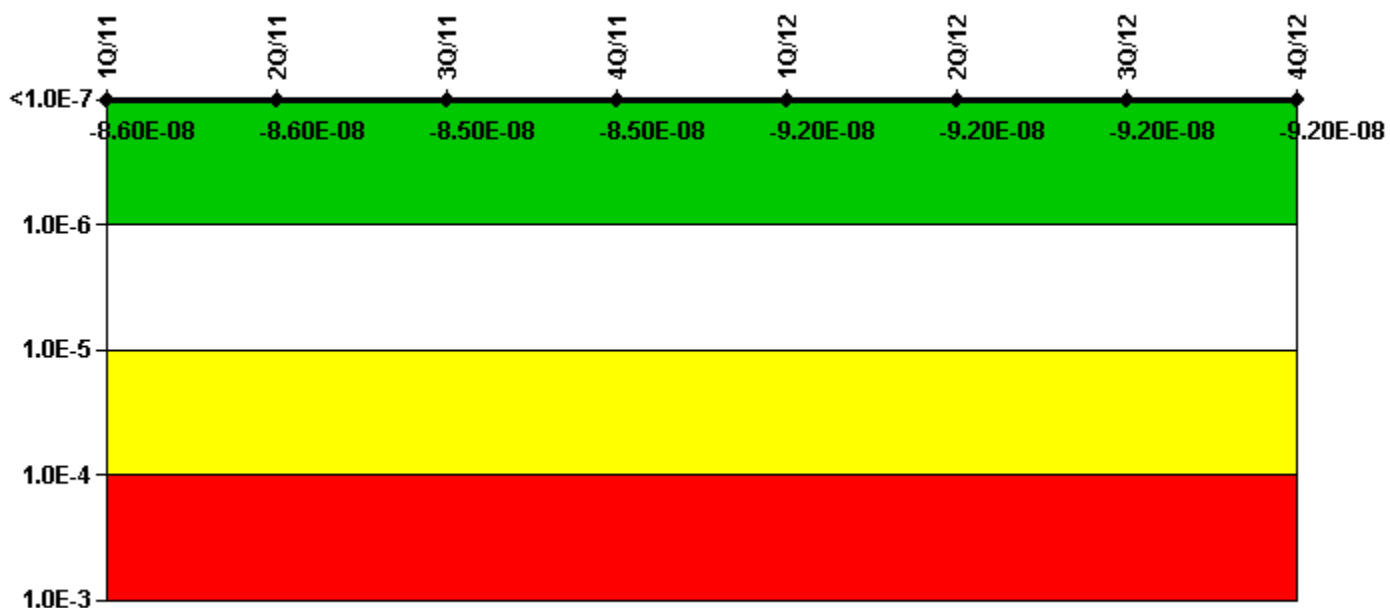
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI ( $\Delta$ CDF)	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-4.75E-09
URI ( $\Delta$ CDF)	-2.11E-08	-2.08E-08	-1.99E-08	-1.83E-08	-2.04E-08	-2.27E-08	-2.23E-08	-2.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	<b>-3.00E-08</b>	<b>-2.90E-08</b>	<b>-2.90E-08</b>	<b>-2.70E-08</b>	<b>-2.90E-08</b>	<b>-3.10E-08</b>	<b>-3.10E-08</b>	<b>-2.70E-08</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



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

#### Notes

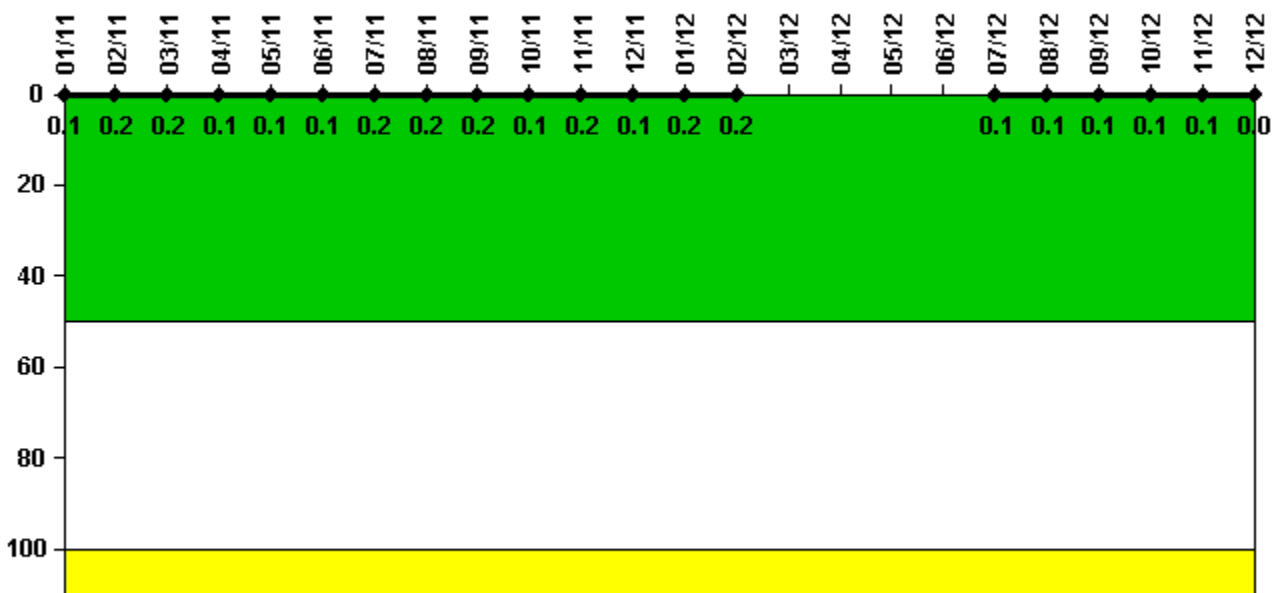
Mitigating Systems Performance Index, Cooling Water Systems	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI ( $\Delta$ CDF)	5.19E-09	5.19E-09	4.92E-09	4.27E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.12E-08	-9.10E-08	-9.01E-08	-8.92E-08	-9.01E-08	-9.06E-08	-9.04E-08	-9.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	<b>-8.60E-08</b>	<b>-8.60E-08</b>	<b>-8.50E-08</b>	<b>-8.50E-08</b>	<b>-9.20E-08</b>	<b>-9.20E-08</b>	<b>-9.20E-08</b>	<b>-9.20E-08</b>

Licensee Comments:

2Q/11: April pump start and run times were revised and no change to indicator color (green).



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

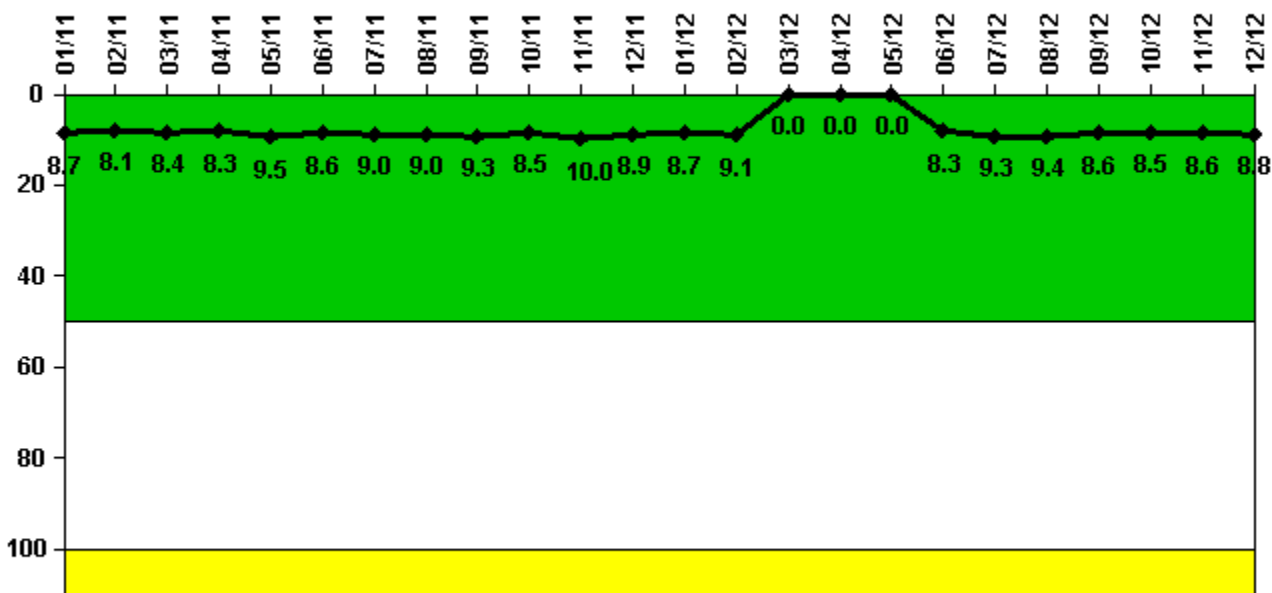
Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000290	0.000330	0.000328	0.000262	0.000247	0.000257	0.000465	0.000372	0.000326	0.000284	0.000327	0.000254
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1

Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.000347	0.000322	N/A	N/A	N/A	N/A	0.000132	0.000170	0.000183	0.000206	0.000157	0.000082
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	0.2	0.2	N/A	N/A	N/A	N/A	0.1	0.1	0.1	0.1	0.1	0

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

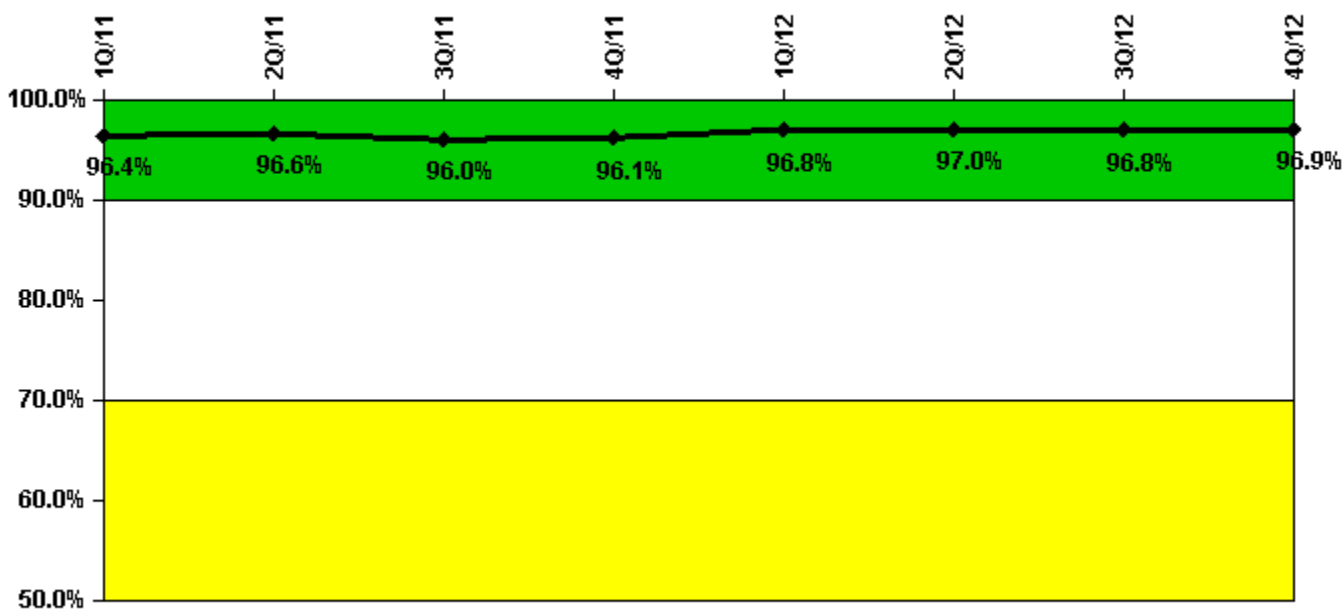
Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	2.600	2.420	2.510	2.500	2.850	2.570	2.690	2.700	2.780	2.560	3.000	2.680
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.7	8.1	8.4	8.3	9.5	8.6	9.0	9.0	9.3	8.5	10.0	8.9

Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	2.620	2.720	0	0	0	2.500	2.780	2.820	2.580	2.560	2.570	2.650
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.7	9.1	0	0	0	8.3	9.3	9.4	8.6	8.5	8.6	8.8

Licensee Comments: none

### Drill/Exercise Performance



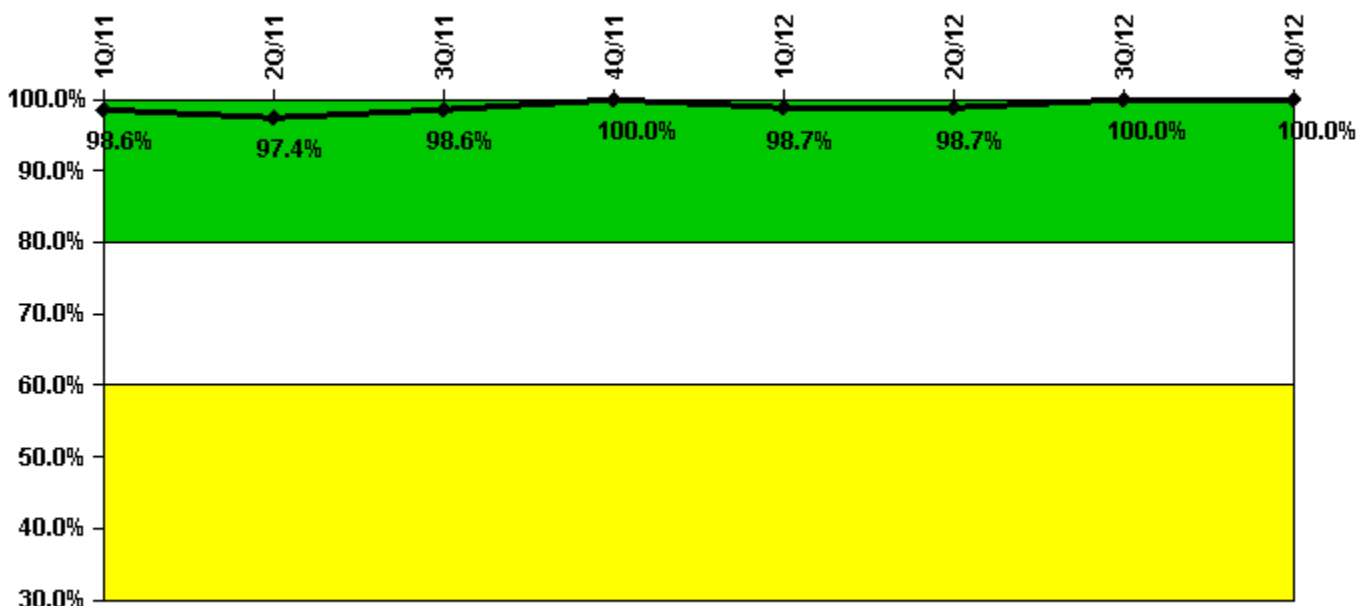
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	28.0	29.0	28.0	47.0	0	9.0	21.0	27.0
Total opportunities	28.0	29.0	31.0	48.0	0	9.0	22.0	28.0
Indicator value	96.4%	96.6%	96.0%	96.1%	96.8%	97.0%	96.8%	96.9%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Participating Key personnel	73.0	74.0	73.0	76.0	76.0	74.0	72.0	70.0
Total Key personnel	74.0	76.0	74.0	76.0	77.0	75.0	72.0	70.0
Indicator value	98.6%	97.4%	98.6%	100.0%	98.7%	98.7%	100.0%	100.0%

#### Licensee Comments:

2Q/12: Participating key personnel revised from 68 to 74 and Total Key personnel revised from 69 to 75 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

1Q/12: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 71 to 77 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

4Q/11: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 70 to 76 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

3Q/11: Participating key personnel revised from 67 to 73 and Total Key personnel revised from 68 to 74 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

3Q/11: Participating key personnel revised from 68 to 67 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

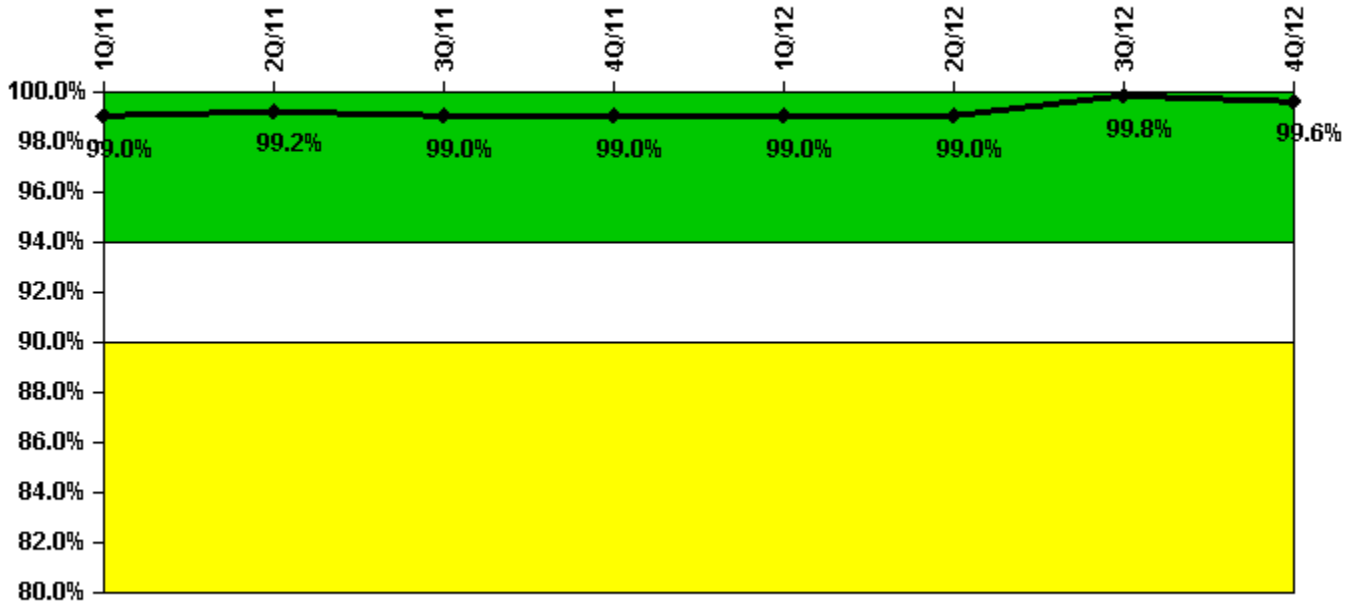
2Q/11: Participating key personnel revised from 68 to 74 and Total Key personnel revised from 70 to 76 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

2Q/11: Participating key personnel revised from 70 to 68 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

1Q/11: Participating key personnel revised from 68 to 67 in March for this quarterly indicator - CR-GGN-2011-08346. No change in indicator color.

1Q/11: Participating key personnel revised from 67 to 73 and Total Key personnel revised from 68 to 74 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

### Alert & Notification System



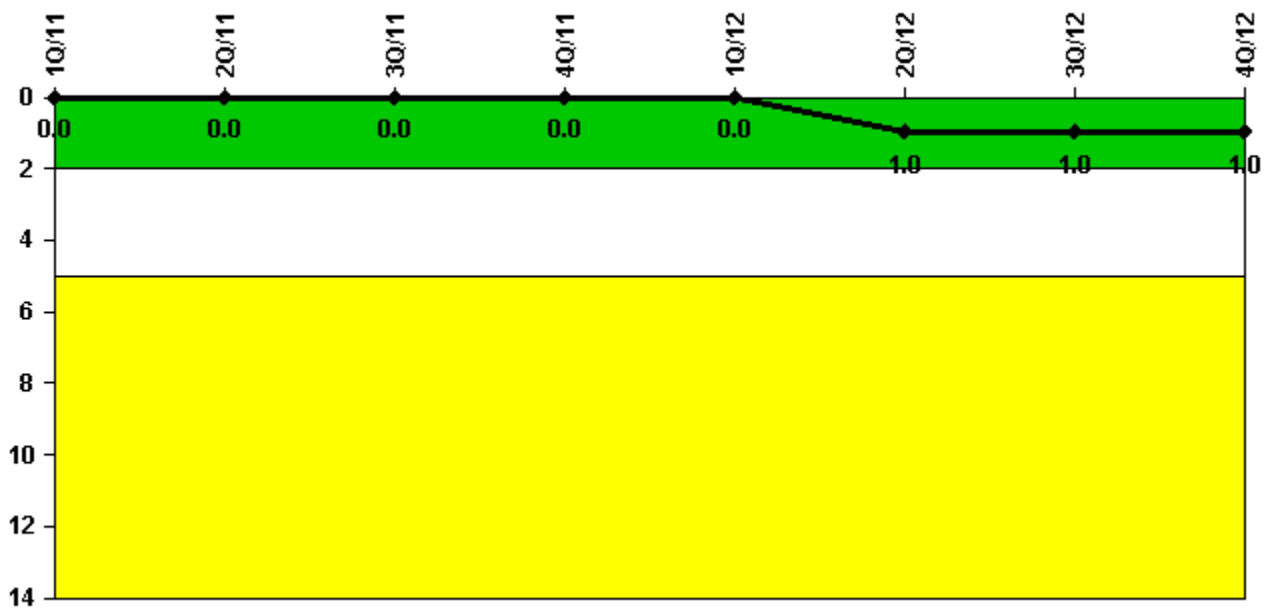
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	129	121	122	129	129	128	129	128
Total sirens-tests	129	122	126	129	129	129	129	129
Indicator value	99.0%	99.2%	99.0%	99.0%	99.0%	99.0%	99.8%	99.6%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



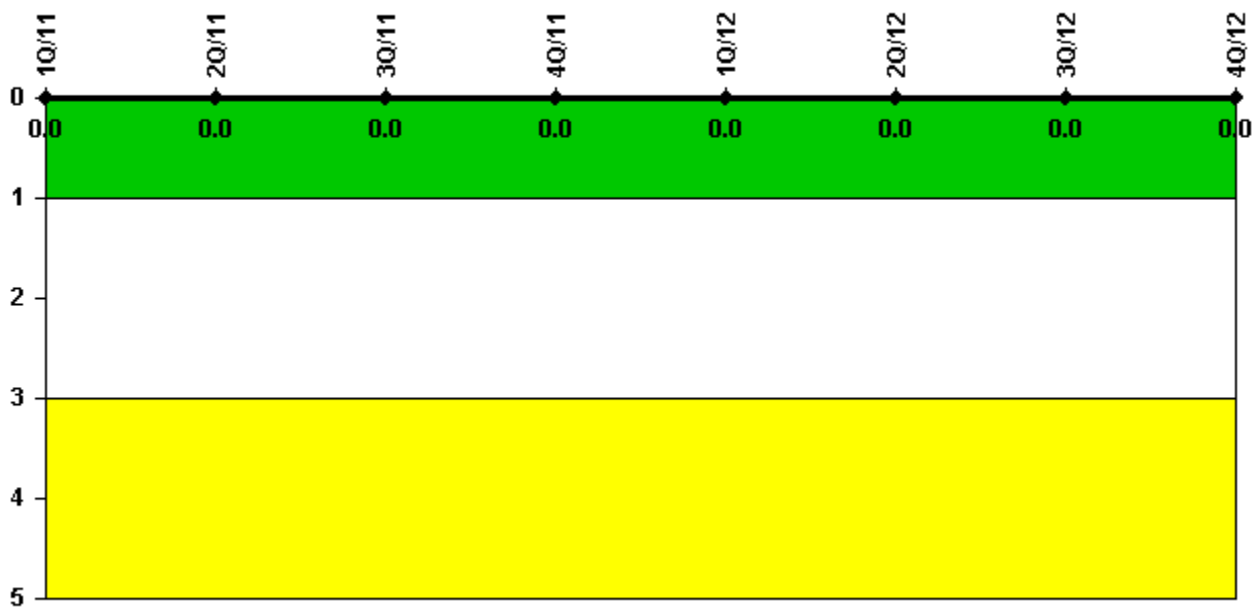
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
High radiation area occurrences	0	0	0	0	0	1	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>1</b>	<b>1</b>	<b>1</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
RETS/ODCM 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

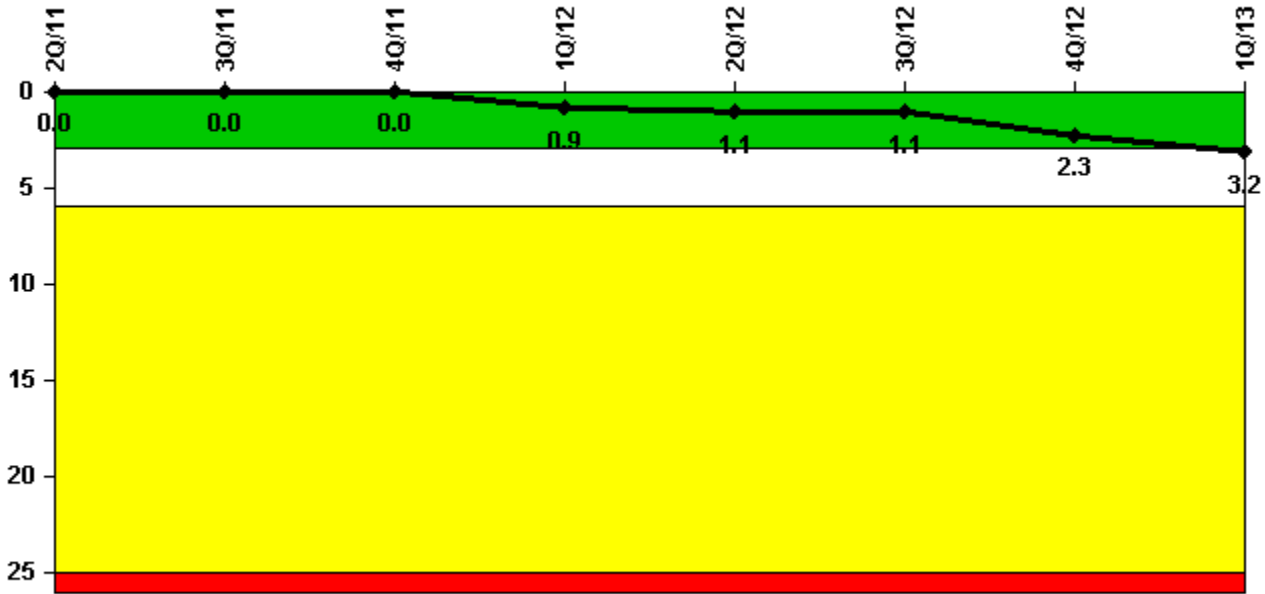
Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

# Grand Gulf 1

## 1Q/2013 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

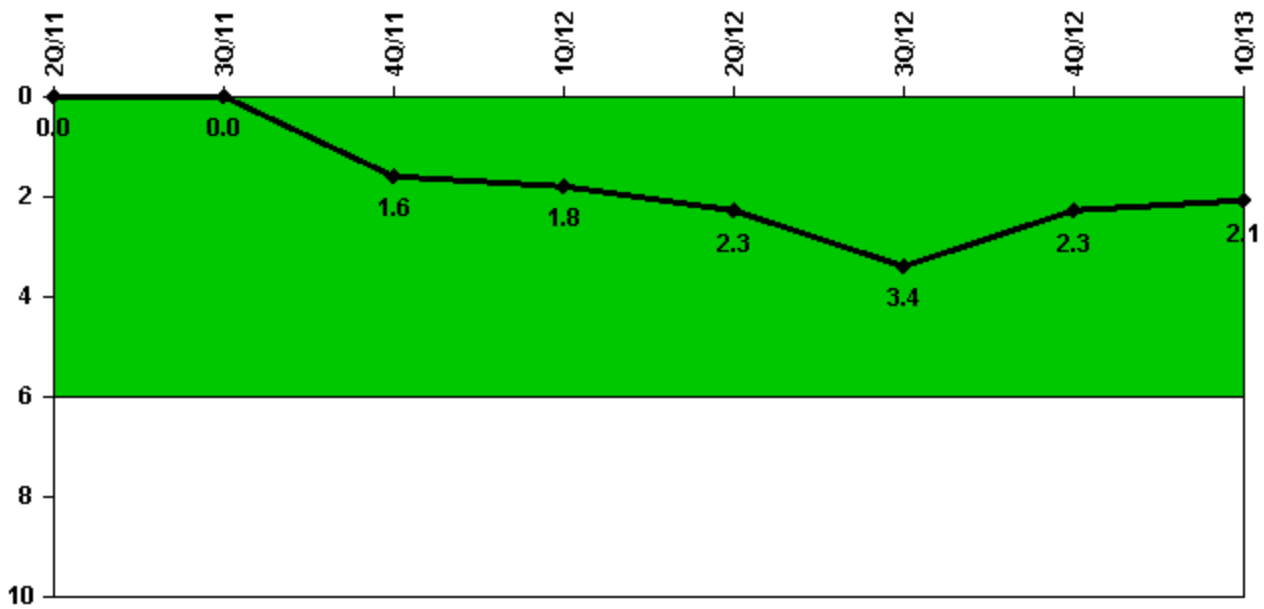
Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	0	0	0	1.0	0	0	1.0	2.0
Critical hours	2184.0	2208.0	2209.0	1195.1	521.5	2208.0	2033.0	1780.9
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>1.1</b>	<b>1.1</b>	<b>2.3</b>	<b>3.2</b>

Licensee Comments:

1Q/12: Unplanned manual scram from ~25% power as a result of partial closure of the N11F014B RFPT B HP Steam Admission Valve. This resulted in starting RF-18 ~1 hour early (2/19/2012 at 1904 versus 2/19/2012 at 2000)



### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

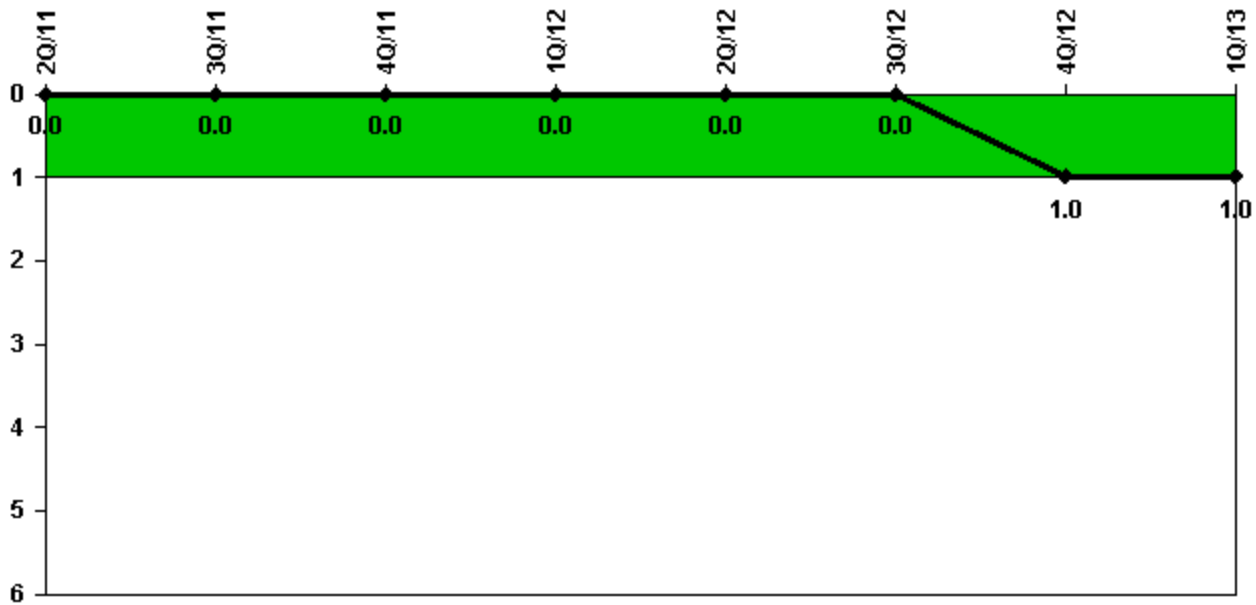
#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	0	0	2.0	0	0	1.0	1.0	0
Critical hours	2184.0	2208.0	2209.0	1195.1	521.5	2208.0	2033.0	1780.9
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>1.6</b>	<b>1.8</b>	<b>2.3</b>	<b>3.4</b>	<b>2.3</b>	<b>2.1</b>

Licensee Comments:

4Q/11: Two unplanned Downpowers >20% in November: Feed pump trip and Partial PSW Loss.

### Unplanned Scrams with Complications



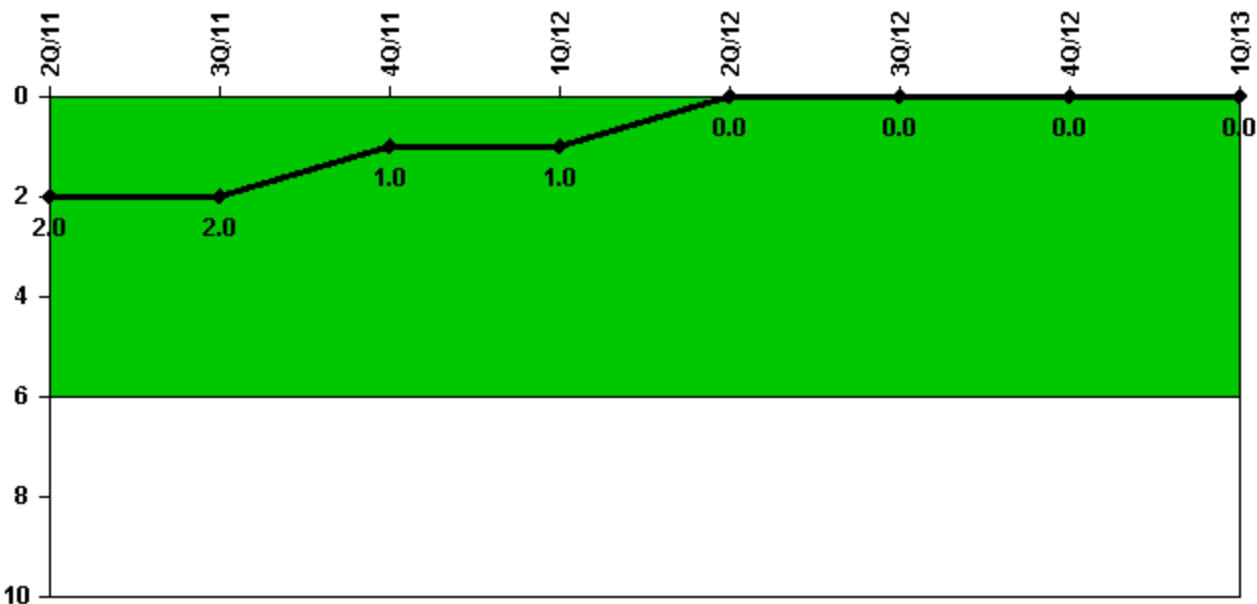
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Scrams with complications	0	0	0	0	0	0	1.0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>1.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

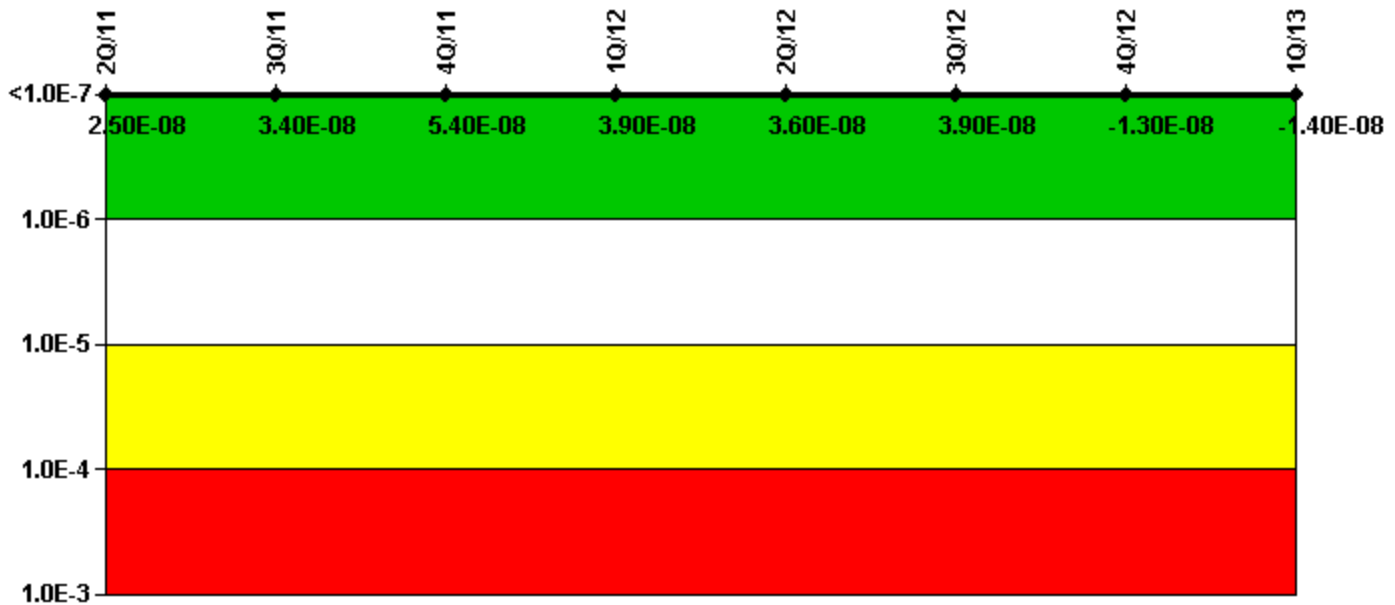
#### Notes

Safety System Functional Failures (BWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	1	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments:

2Q/11: Reference: GGNS LER 2011-001

### Mitigating Systems Performance Index, Emergency AC Power System



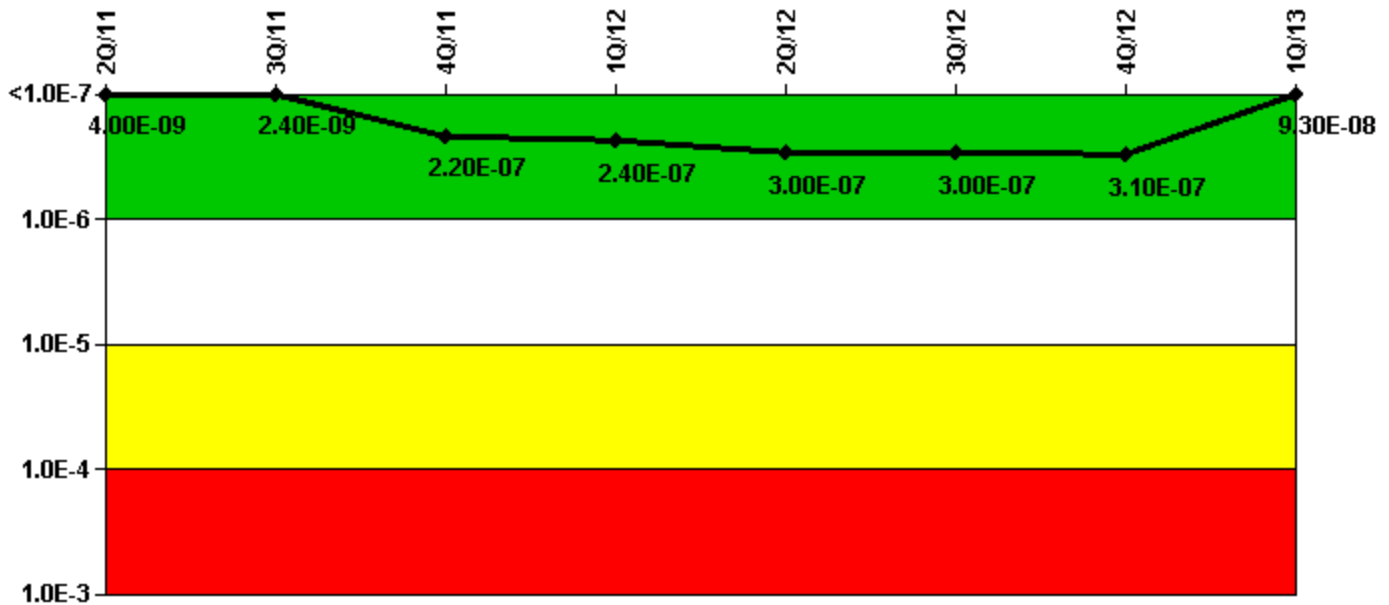
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI ( $\Delta$ CDF)	5.64E-09	4.70E-09	6.70E-09	-7.61E-09	-7.51E-09	-7.51E-09	-8.84E-09	-8.84E-09
URI ( $\Delta$ CDF)	1.97E-08	2.91E-08	4.76E-08	4.65E-08	4.39E-08	4.63E-08	-3.73E-09	-5.22E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-08	3.40E-08	5.40E-08	3.90E-08	3.60E-08	3.90E-08	-1.30E-08	-1.40E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



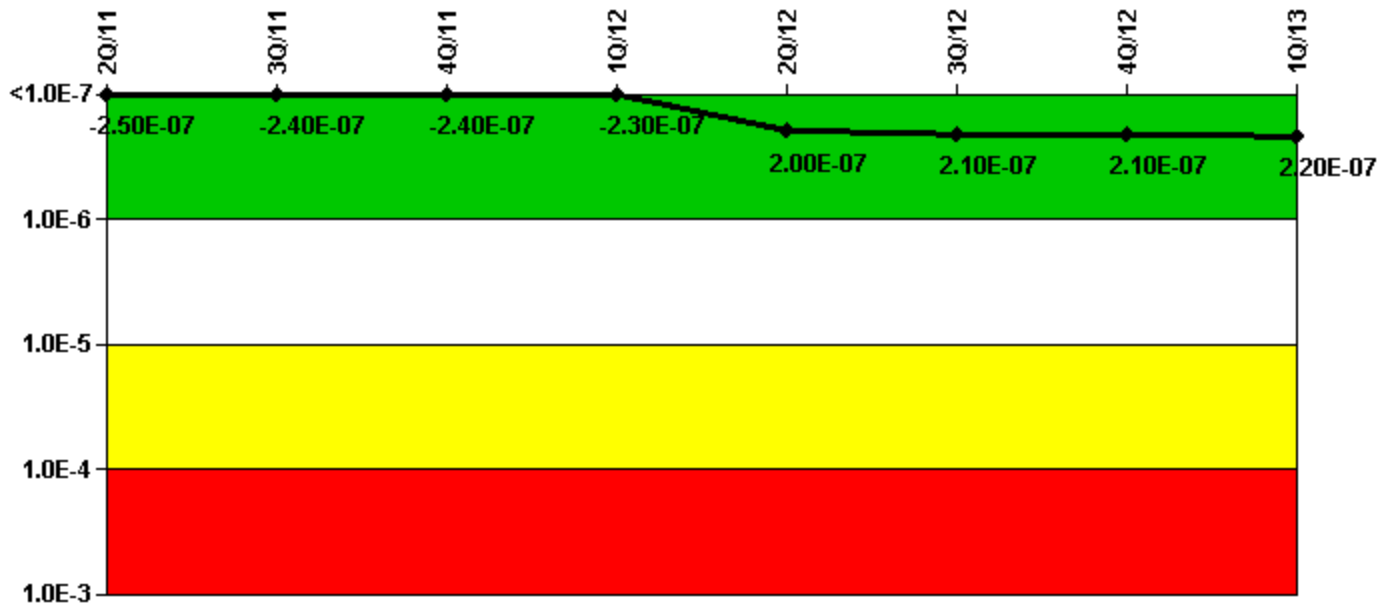
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	1.46E-08	1.36E-08	2.39E-07	2.60E-07	2.96E-07	2.96E-07	3.01E-07	7.24E-08
URI (ΔCDF)	-1.06E-08	-1.12E-08	-1.73E-08	-1.70E-08	8.31E-09	8.44E-09	1.26E-08	2.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.00E-09	2.40E-09	2.20E-07	2.40E-07	3.00E-07	3.00E-07	3.10E-07	9.30E-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	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI ( $\Delta$ CDF)	-5.32E-08	-5.33E-08	-6.20E-08	-6.20E-08	-4.37E-08	-4.37E-08	-4.36E-08	3.57E-09
URI ( $\Delta$ CDF)	-1.93E-07	-1.87E-07	-1.78E-07	-1.70E-07	2.43E-07	2.52E-07	2.51E-07	2.13E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-07	-2.40E-07	-2.40E-07	-2.30E-07	2.00E-07	2.10E-07	2.10E-07	2.20E-07

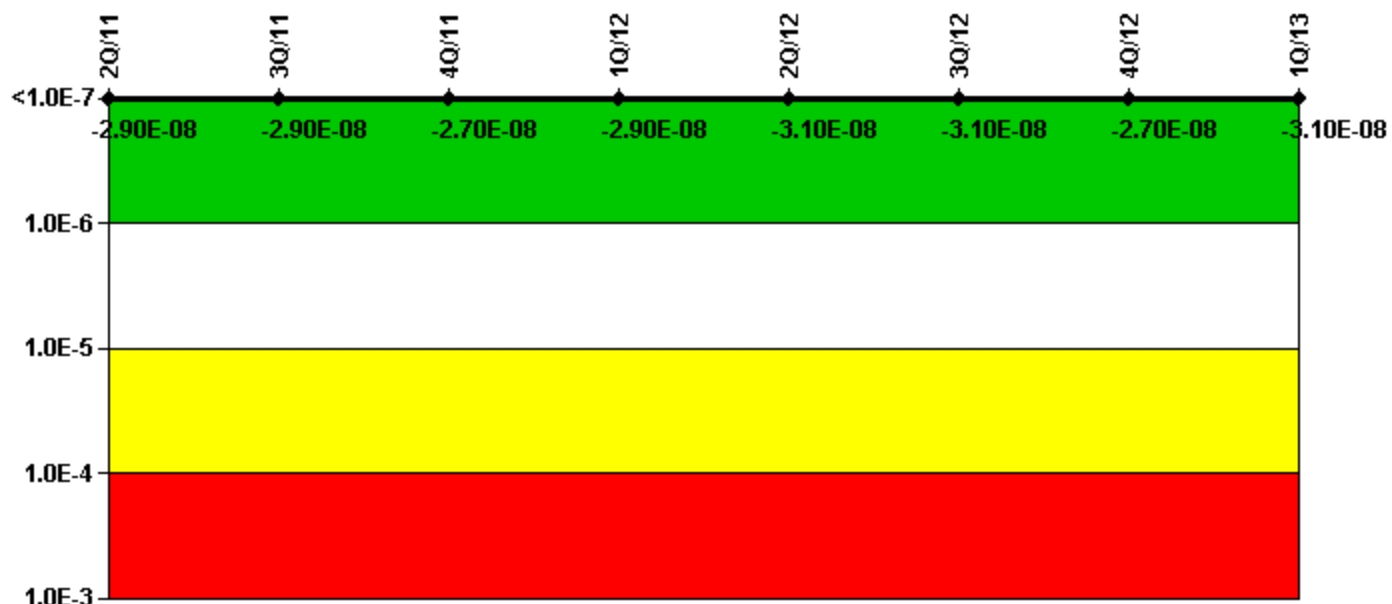
Licensee Comments:

4Q/11: No Changes Made to this indicator in the 1Q12 update, relocked data only.

3Q/11: September Valve Demand Numbers revised and no change to indicator color (green).

2Q/11: June Valve Demand Numbers revised and no change to indicator color (green).

### Mitigating Systems Performance Index, Residual Heat Removal System



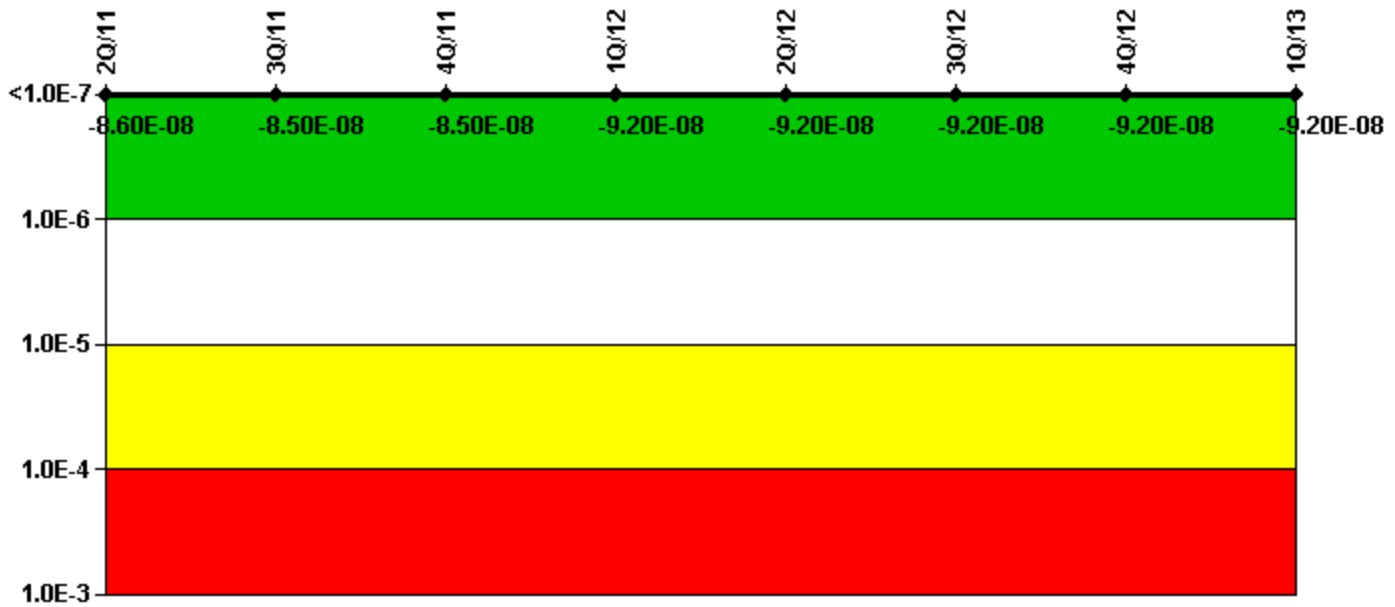
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI ( $\Delta$ CDF)	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-4.75E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.08E-08	-1.99E-08	-1.83E-08	-2.04E-08	-2.27E-08	-2.23E-08	-2.25E-08	-2.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-2.90E-08	-2.70E-08	-2.90E-08	-3.10E-08	-3.10E-08	-2.70E-08	-3.10E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



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

#### Notes

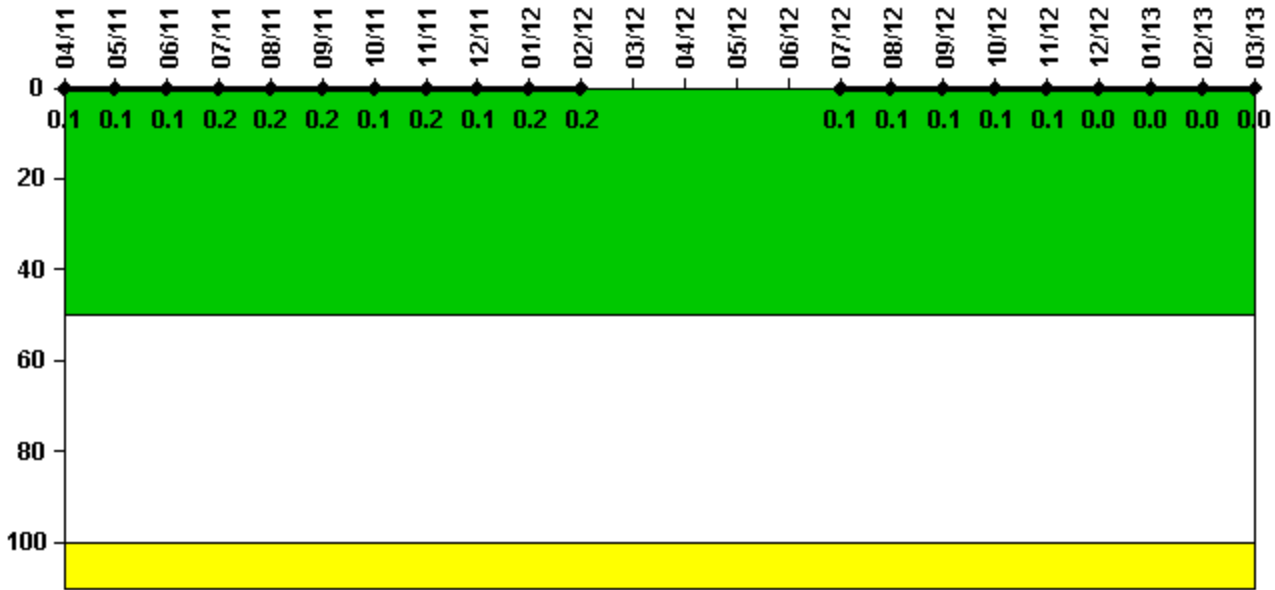
Mitigating Systems Performance Index, Cooling Water Systems	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI ( $\Delta$ CDF)	5.19E-09	4.92E-09	4.27E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.10E-08	-9.01E-08	-8.92E-08	-9.01E-08	-9.06E-08	-9.04E-08	-9.06E-08	-9.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.60E-08	-8.50E-08	-8.50E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08

Licensee Comments:

2Q/11: April pump start and run times were revised and no change to indicator color (green).



### Reactor Coolant System Activity



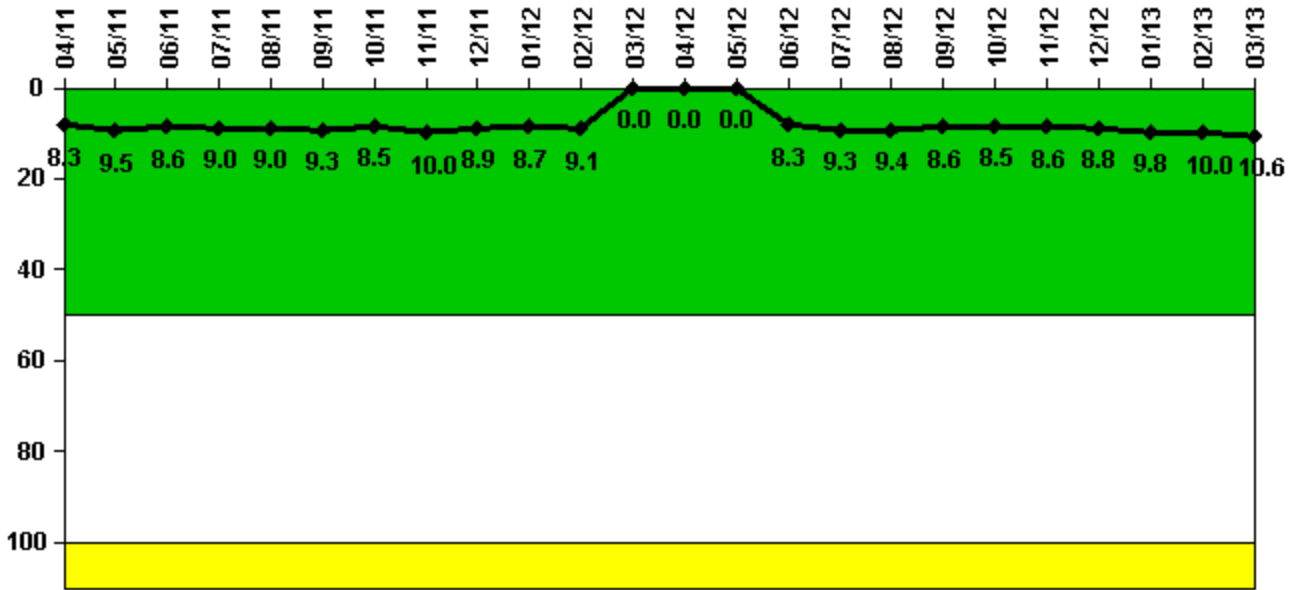
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000262	0.000247	0.000257	0.000465	0.000372	0.000326	0.000284	0.000327	0.000254	0.000347	0.000322	N/A
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	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	N/A
Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	N/A	N/A	N/A	0.000132	0.000170	0.000183	0.000206	0.000157	0.000082	0.000057	0.000048	0.000059
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	N/A	N/A	N/A	0.1	0.1	0.1	0.1	0.1	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



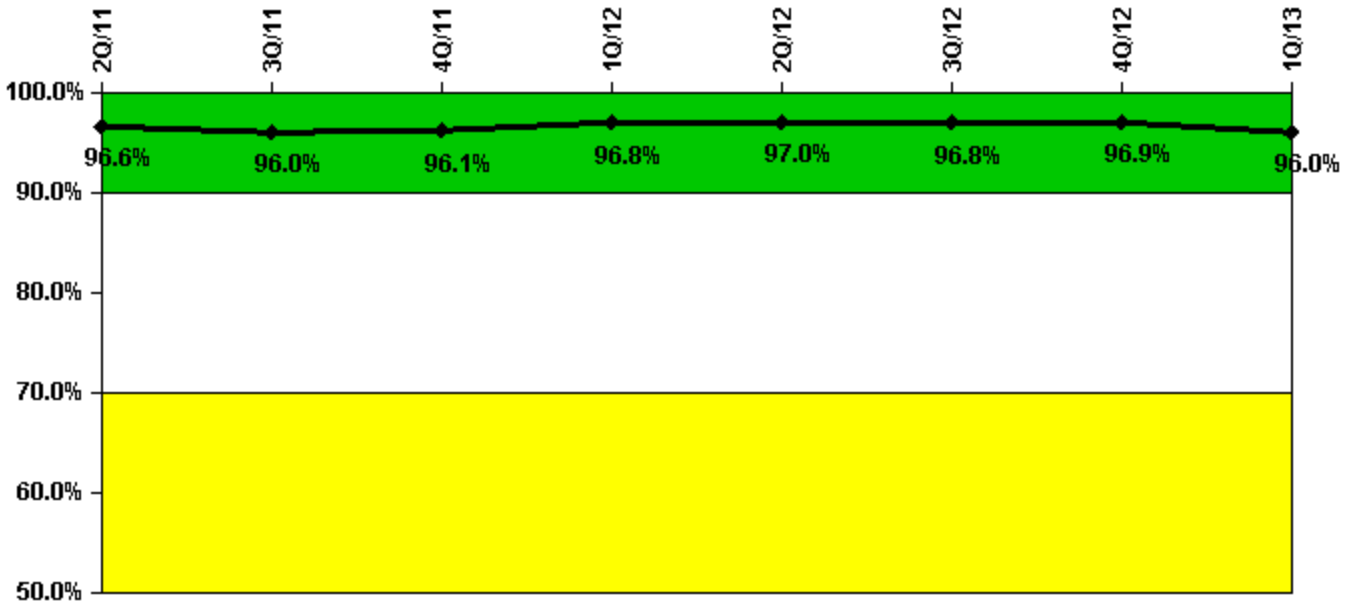
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	2.500	2.850	2.570	2.690	2.700	2.780	2.560	3.000	2.680	2.620	2.720	0
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.3	9.5	8.6	9.0	9.0	9.3	8.5	10.0	8.9	8.7	9.1	0
Reactor Coolant System Leakage	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum leakage	0	0	2.500	2.780	2.820	2.580	2.560	2.570	2.650	2.950	2.990	3.180
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	0	0	8.3	9.3	9.4	8.6	8.5	8.6	8.8	9.8	10.0	10.6

Licensee Comments: none

### Drill/Exercise Performance



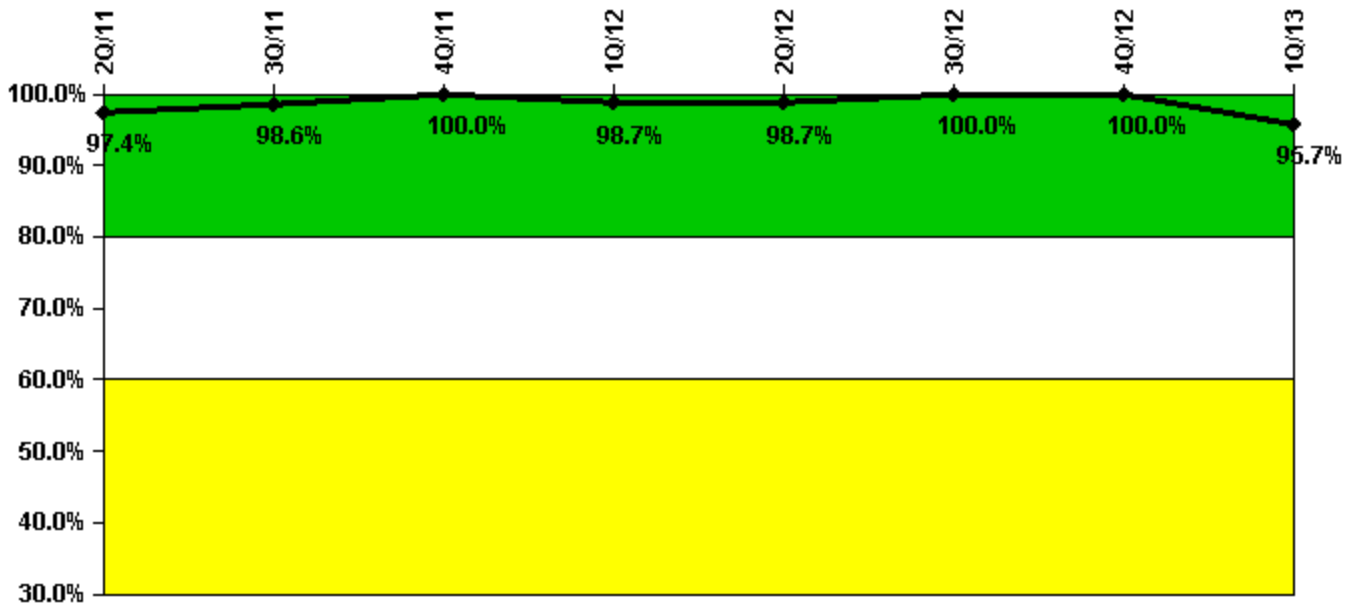
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	29.0	28.0	47.0	0	9.0	21.0	27.0	9.0
Total opportunities	29.0	31.0	48.0	0	9.0	22.0	28.0	10.0
Indicator value	96.6%	96.0%	96.1%	96.8%	97.0%	96.8%	96.9%	96.0%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	74.0	73.0	76.0	76.0	74.0	72.0	70.0	66.0
Total Key personnel	76.0	74.0	76.0	77.0	75.0	72.0	70.0	69.0
Indicator value	97.4%	98.6%	100.0%	98.7%	98.7%	100.0%	100.0%	95.7%

#### Licensee Comments:

2Q/12: Participating key personnel revised from 68 to 74 and Total Key personnel revised from 69 to 75 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

1Q/12: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 71 to 77 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

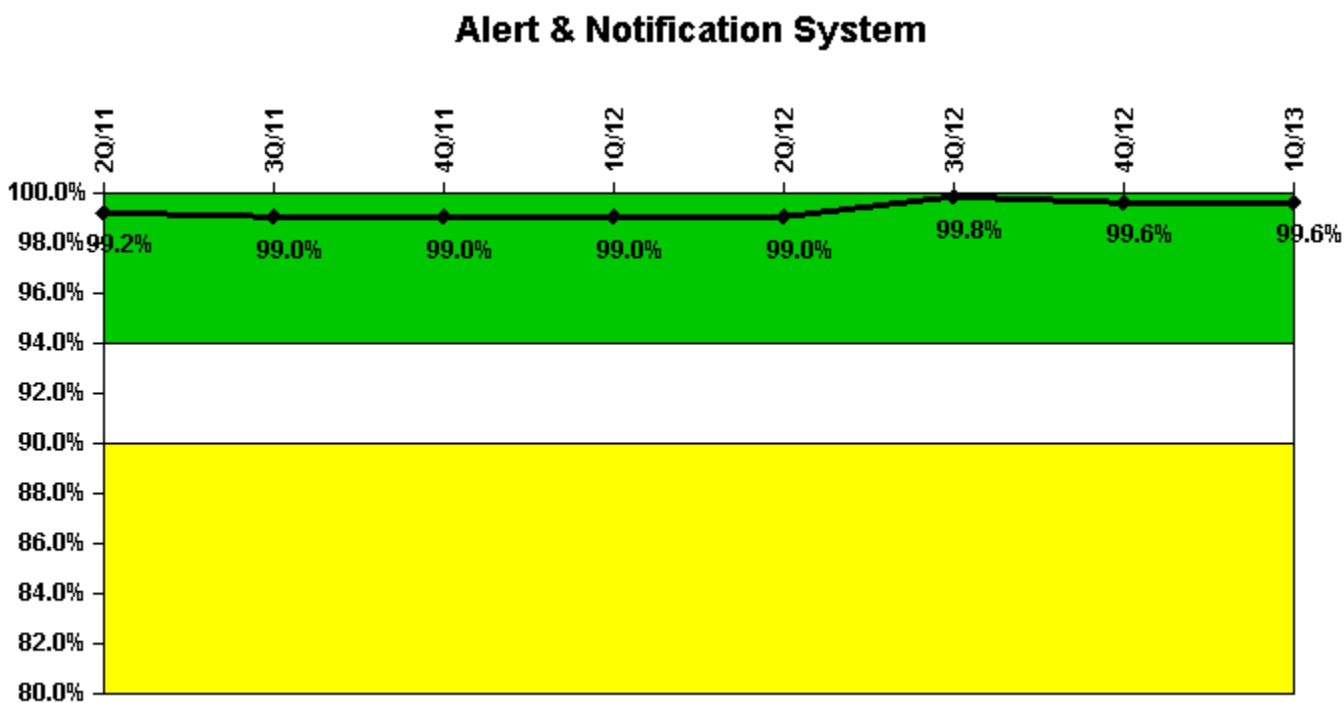
4Q/11: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 70 to 76 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

3Q/11: Participating key personnel revised from 67 to 73 and Total Key personnel revised from 68 to 74 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

3Q/11: Participating key personnel revised from 68 to 67 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

2Q/11: Participating key personnel revised from 68 to 74 and Total Key personnel revised from 70 to 76 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

2Q/11: Participating key personnel revised from 70 to 68 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.



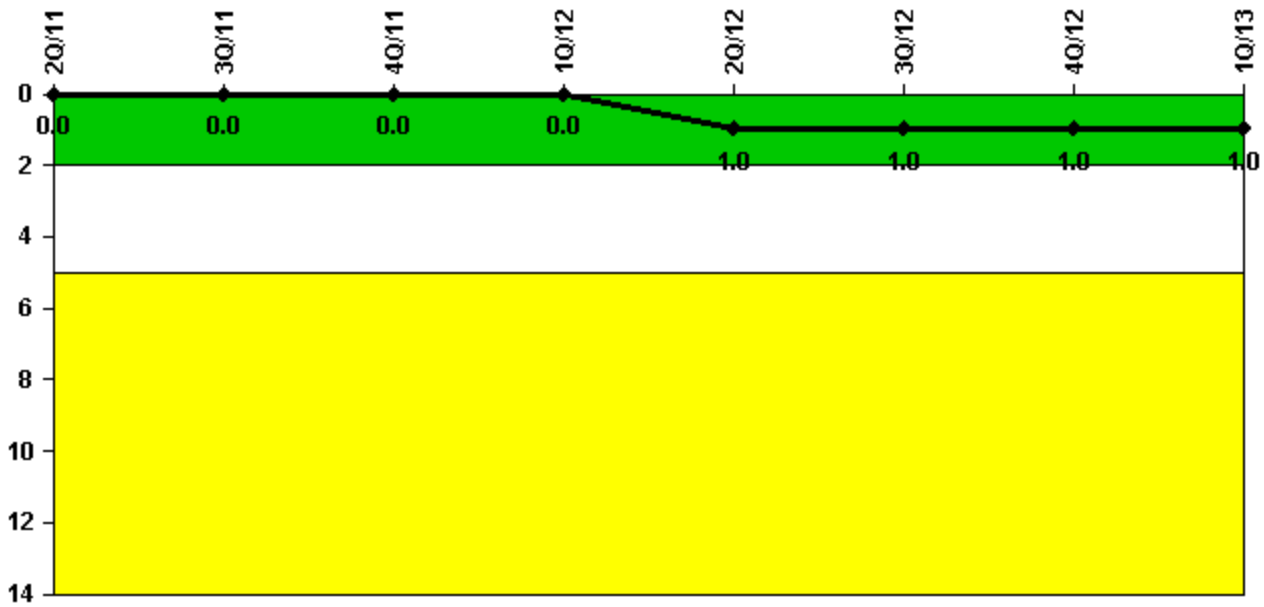
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	121	122	129	129	128	129	128	129
Total sirens-tests	122	126	129	129	129	129	129	129
Indicator value	99.2%	99.0%	99.0%	99.0%	99.0%	99.8%	99.6%	99.6%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



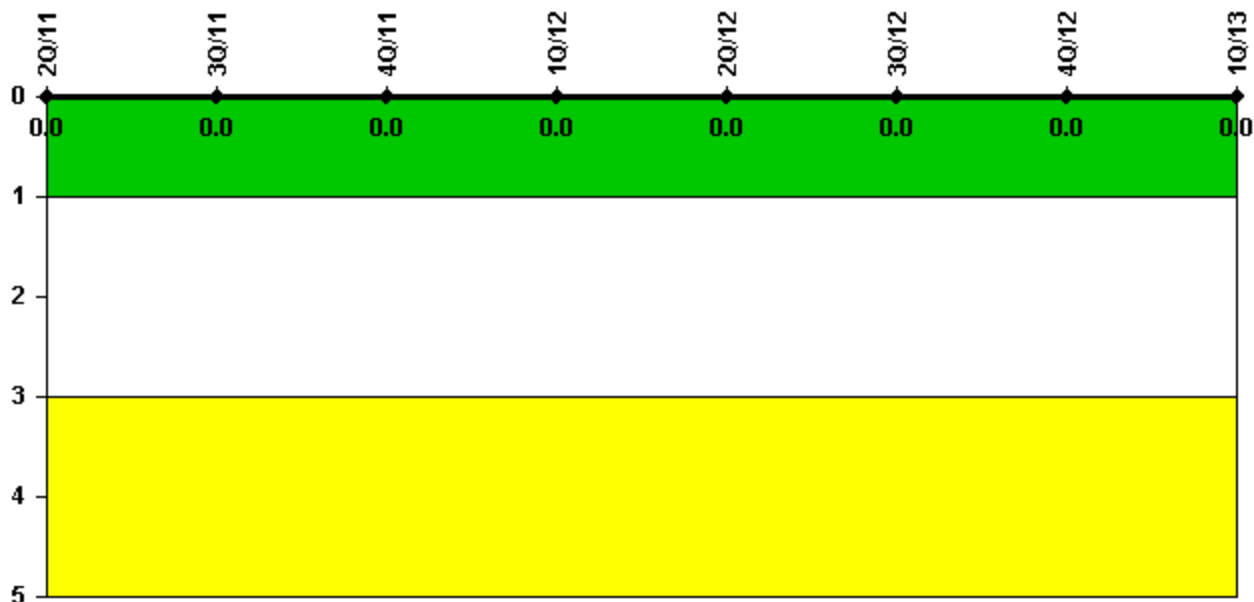
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
High radiation area occurrences	0	0	0	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: April 23, 2013*



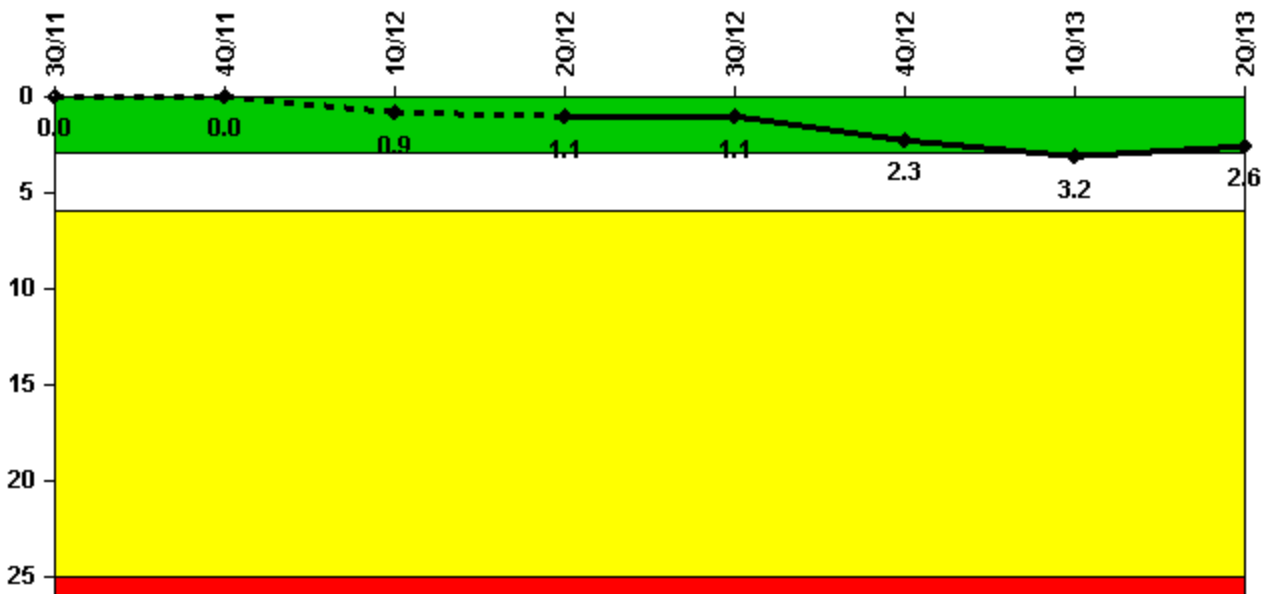
# Grand Gulf 1

## 2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

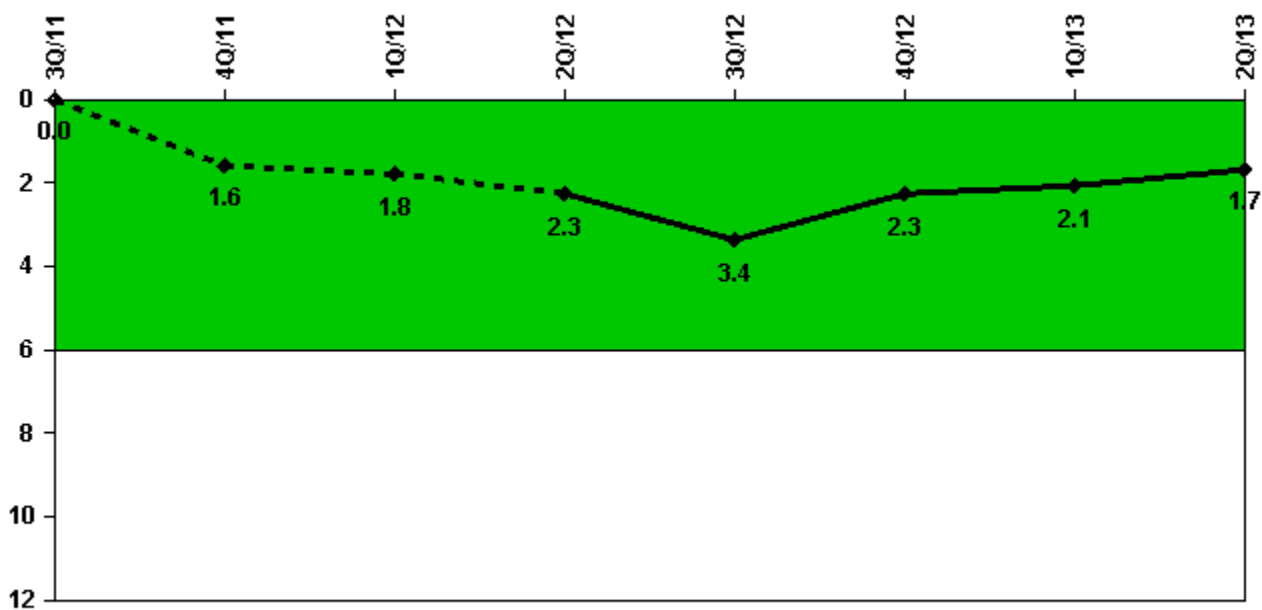
### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned scrams	0	0	1.0	0	0	1.0	2.0	0
Critical hours	2208.0	2209.0	1195.1	521.5	2208.0	2033.0	1780.9	2184.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>1.1</b>	<b>1.1</b>	<b>2.3</b>	<b>3.2</b>	<b>2.6</b>

Licensee Comments:

1Q/12: Unplanned manual scram from ~25% power as a result of partial closure of the N11F014B RFPT B HP Steam Admission Valve. This resulted in starting RF-18 ~1 hour early (2/19/2012 at 1904 versus 2/19/2012 at 2000)

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

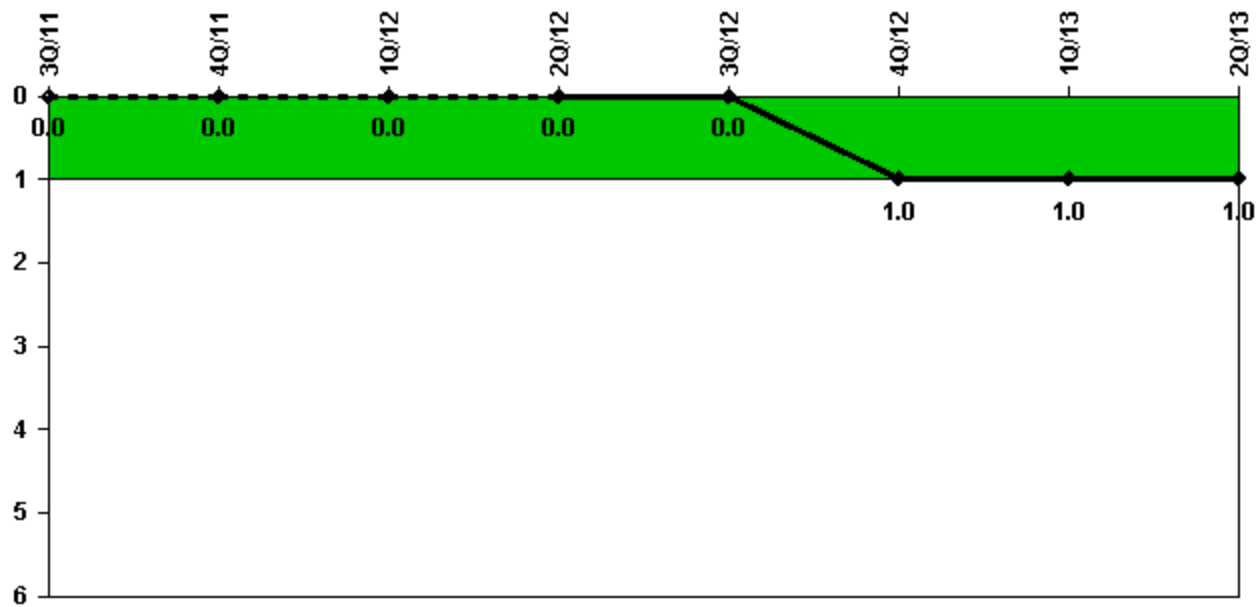
#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	2.0	0	0	1.0	1.0	0	0
Critical hours	2208.0	2209.0	1195.1	521.5	2208.0	2033.0	1780.9	2184.0
<b>Indicator value</b>	<b>0</b>	<b>1.6</b>	<b>1.8</b>	<b>2.3</b>	<b>3.4</b>	<b>2.3</b>	<b>2.1</b>	<b>1.7</b>

Licensee Comments:

4Q/11: Two unplanned Downpowers >20% in November: Feed pump trip and Partial PSW Loss.

### Unplanned Scrams with Complications



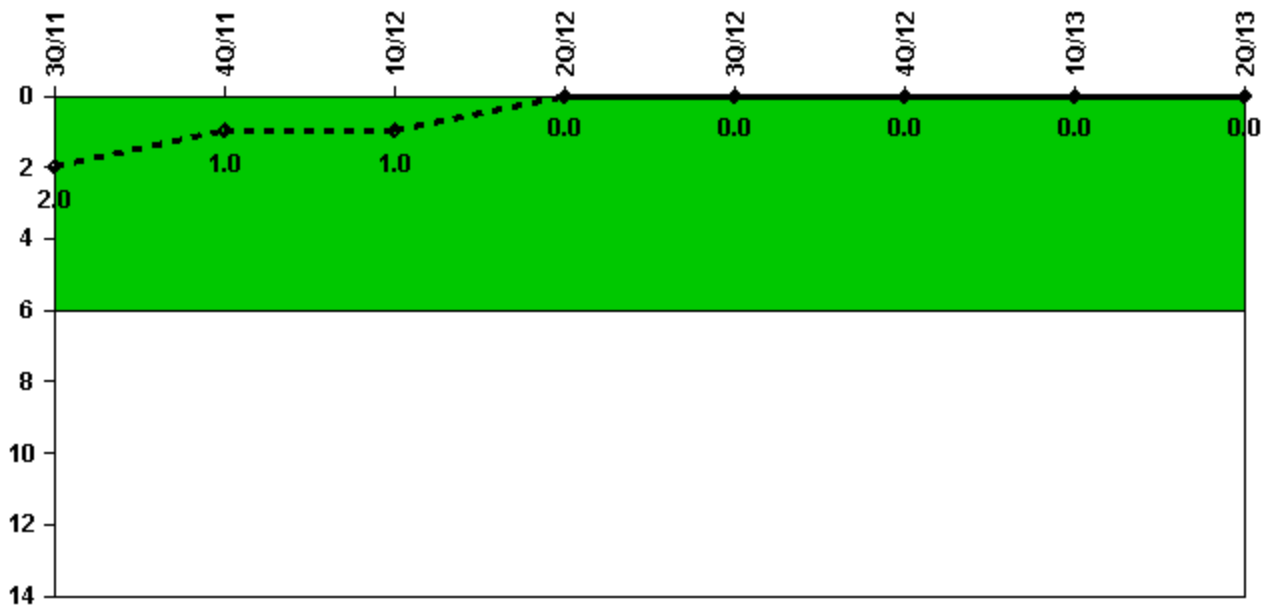
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Scrams with complications	0	0	0	0	0	1.0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



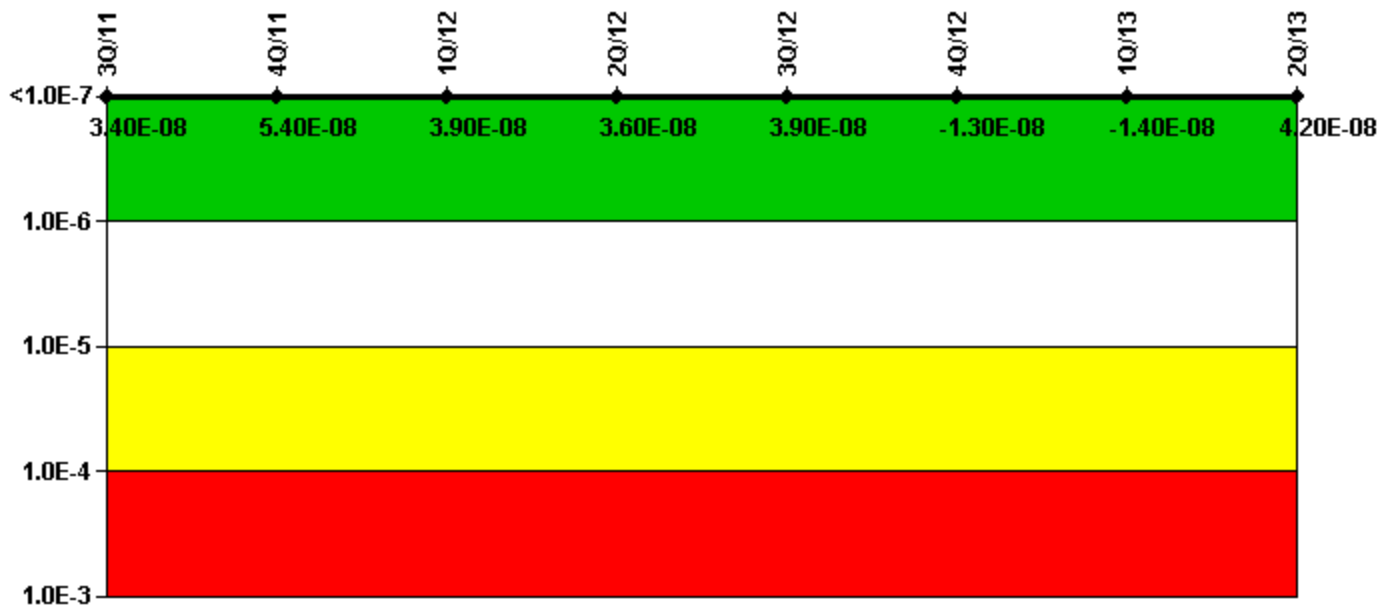
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Emergency AC Power System



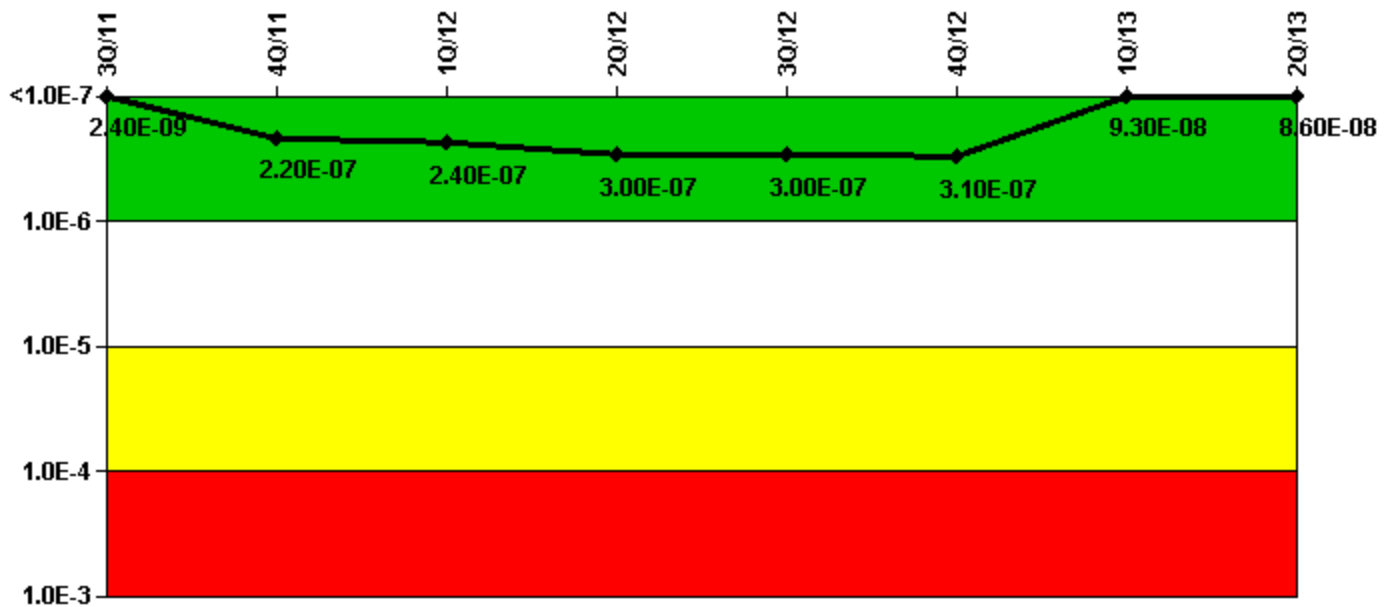
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	4.70E-09	6.70E-09	-7.61E-09	-7.51E-09	-7.51E-09	-8.84E-09	-8.84E-09	9.33E-09
URI ( $\Delta$ CDF)	2.91E-08	4.76E-08	4.65E-08	4.39E-08	4.63E-08	-3.73E-09	-5.22E-09	3.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.40E-08	5.40E-08	3.90E-08	3.60E-08	3.90E-08	-1.30E-08	-1.40E-08	4.20E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



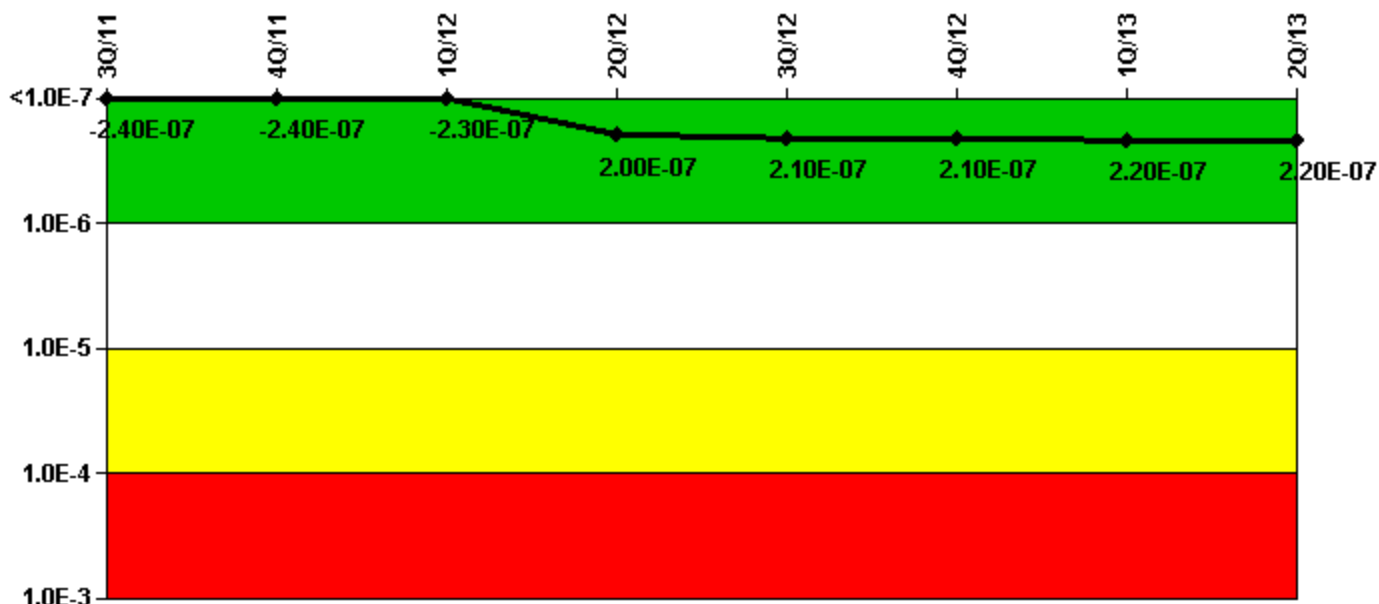
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	1.36E-08	2.39E-07	2.60E-07	2.96E-07	2.96E-07	3.01E-07	7.24E-08	6.35E-08
URI (ΔCDF)	-1.12E-08	-1.73E-08	-1.70E-08	8.31E-09	8.44E-09	1.26E-08	2.05E-08	2.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.40E-09	2.20E-07	2.40E-07	3.00E-07	3.00E-07	3.10E-07	9.30E-08	8.60E-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

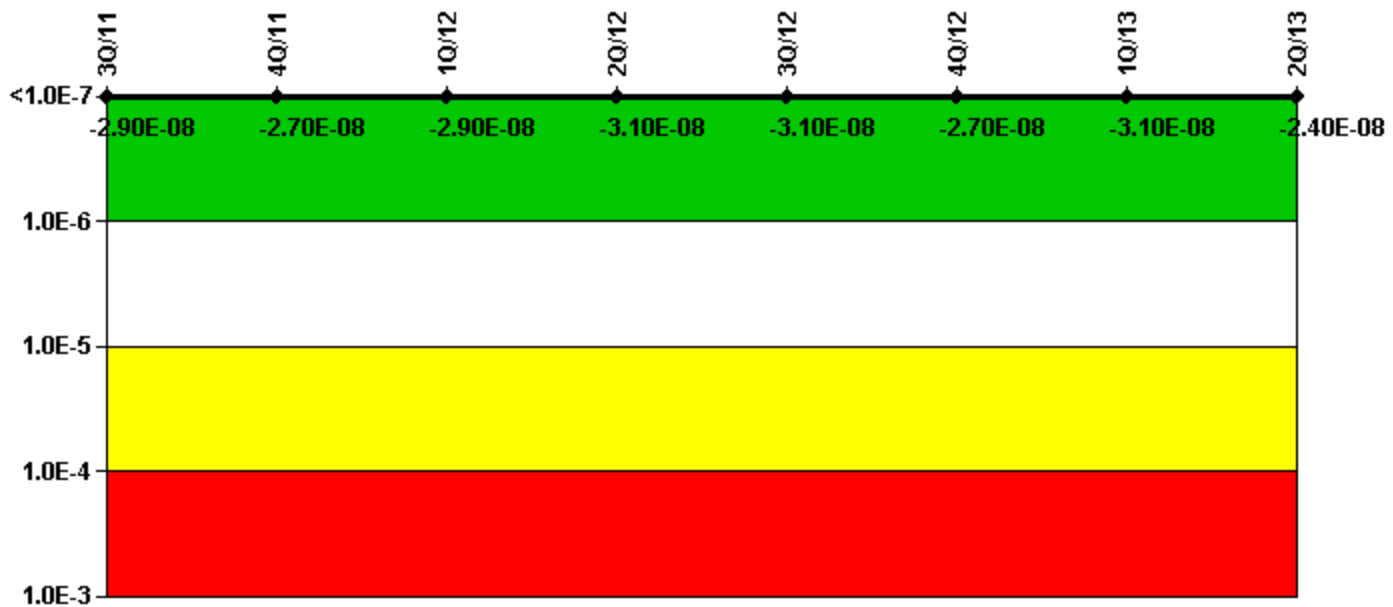
Mitigating Systems Performance Index, Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	-5.33E-08	-6.20E-08	-6.20E-08	-4.37E-08	-4.37E-08	-4.36E-08	3.57E-09	1.65E-09
URI ( $\Delta$ CDF)	-1.87E-07	-1.78E-07	-1.70E-07	2.43E-07	2.52E-07	2.51E-07	2.13E-07	2.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-07	-2.40E-07	-2.30E-07	2.00E-07	2.10E-07	2.10E-07	2.20E-07	2.20E-07

Licensee Comments:

4Q/11: No Changes Made to this indicator in the 1Q12 update, relocked data only.

3Q/11: September Valve Demand Numbers revised and no change to indicator color (green).

### Mitigating Systems Performance Index, Residual Heat Removal System



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

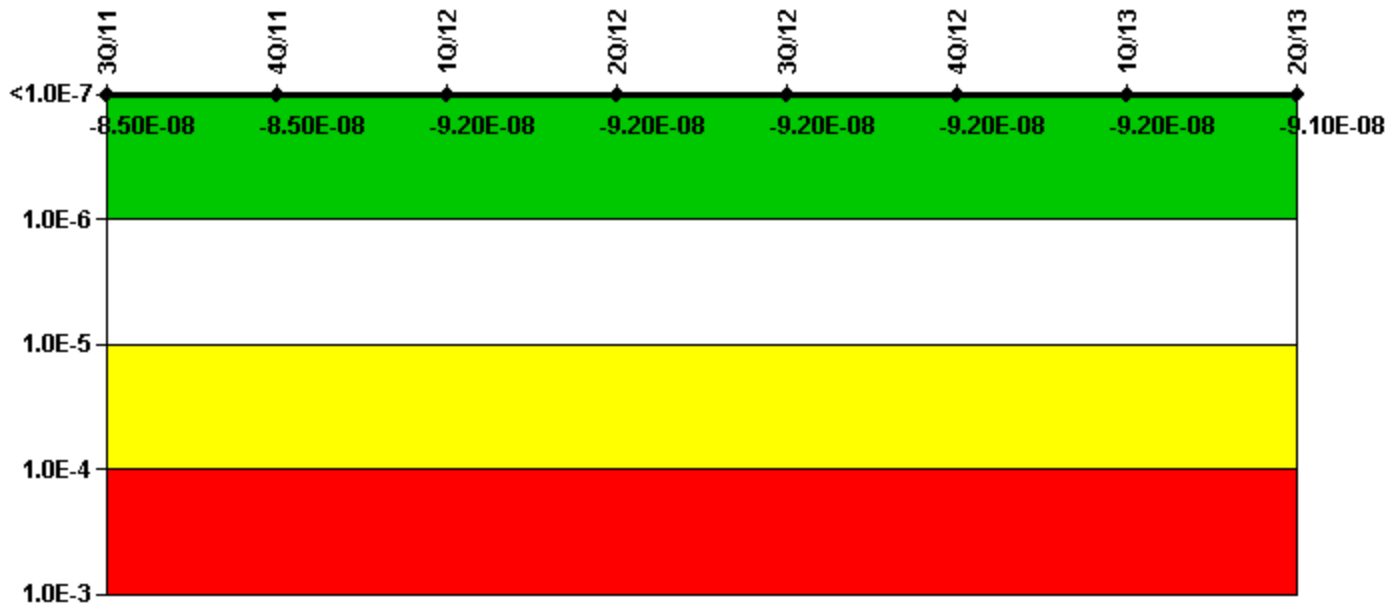
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-4.75E-09	-8.56E-09	-2.03E-09
URI ( $\Delta$ CDF)	-1.99E-08	-1.83E-08	-2.04E-08	-2.27E-08	-2.23E-08	-2.25E-08	-2.28E-08	-2.16E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-2.70E-08	-2.90E-08	-3.10E-08	-3.10E-08	-2.70E-08	-3.10E-08	-2.40E-08

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



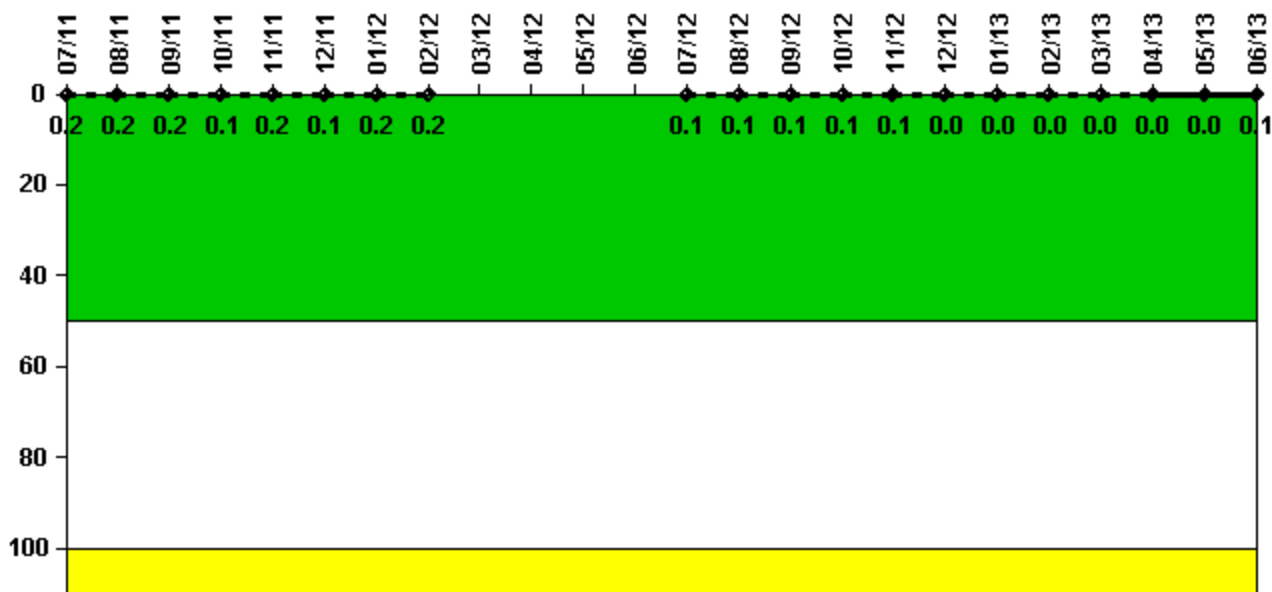
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	4.92E-09	4.27E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.01E-08	-8.92E-08	-9.01E-08	-9.06E-08	-9.04E-08	-9.06E-08	-9.00E-08	-8.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.50E-08	-8.50E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.10E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000465	0.000372	0.000326	0.000284	0.000327	0.000254	0.000347	0.000322	N/A	N/A	N/A	N/A
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	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	N/A	N/A	N/A	N/A

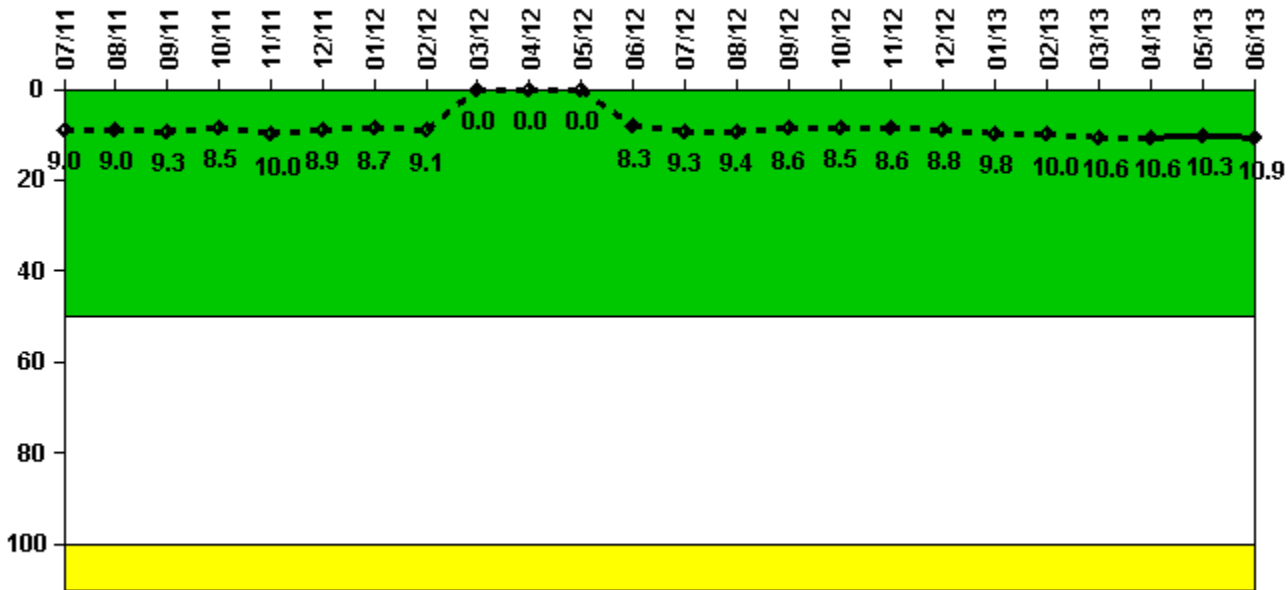
  

Reactor Coolant System Activity	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum activity	0.000132	0.000170	0.000183	0.000206	0.000157	0.000082	0.000057	0.000048	0.000059	0.000090	0.000086	0.000105
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0.1

Licensee Comments:

6/13: June only one Reactor Water Clean-Up (RWCU) Filter in-service.

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

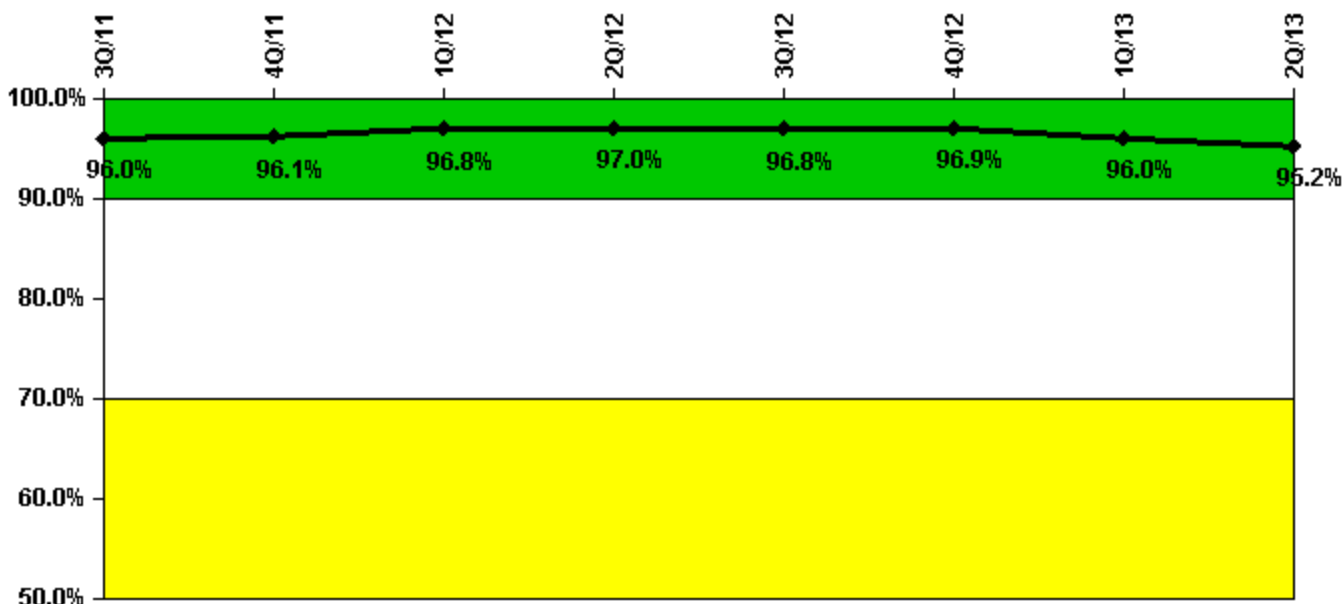
Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	2.690	2.700	2.780	2.560	3.000	2.680	2.620	2.720	0	0	0	2.500
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.0	9.0	9.3	8.5	10.0	8.9	8.7	9.1	0	0	0	8.3

Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	2.780	2.820	2.580	2.560	2.570	2.650	2.950	2.990	3.180	3.180	3.090	3.270
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.3	9.4	8.6	8.5	8.6	8.8	9.8	10.0	10.6	10.6	10.3	10.9

Licensee Comments: none

### Drill/Exercise Performance



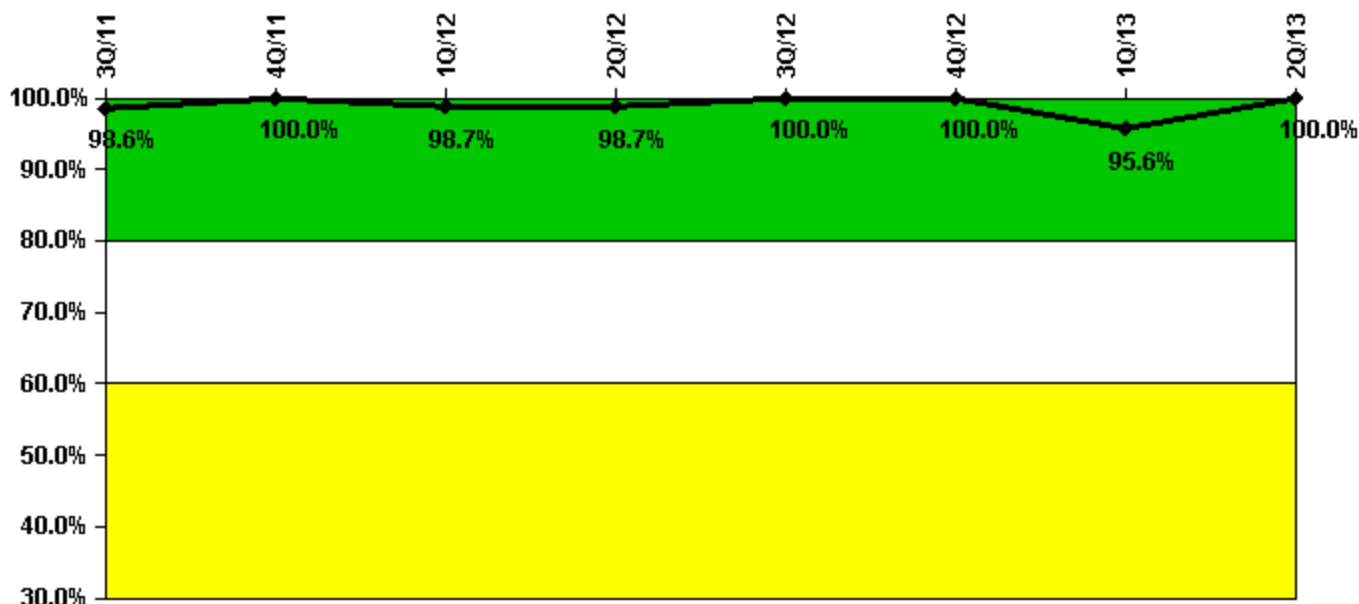
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	28.0	47.0	0	9.0	21.0	27.0	9.0	17.0
Total opportunities	31.0	48.0	0	9.0	22.0	28.0	10.0	18.0
Indicator value	96.0%	96.1%	96.8%	97.0%	96.8%	96.9%	96.0%	95.2%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	73.0	76.0	76.0	74.0	72.0	70.0	65.0	67.0
Total Key personnel	74.0	76.0	77.0	75.0	72.0	70.0	68.0	67.0
Indicator value	98.6%	100.0%	98.7%	98.7%	100.0%	100.0%	95.6%	100.0%

#### Licensee Comments:

2Q/13: First Quarter 2013 revised do to a retirement in March 2013 and not noticed until July 203. CR-GGN-2013-4296 written to address issue. This change does not affect the color of the indicator (green).

2Q/12: Participating key personnel revised from 68 to 74 and Total Key personnel revised from 69 to 75 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

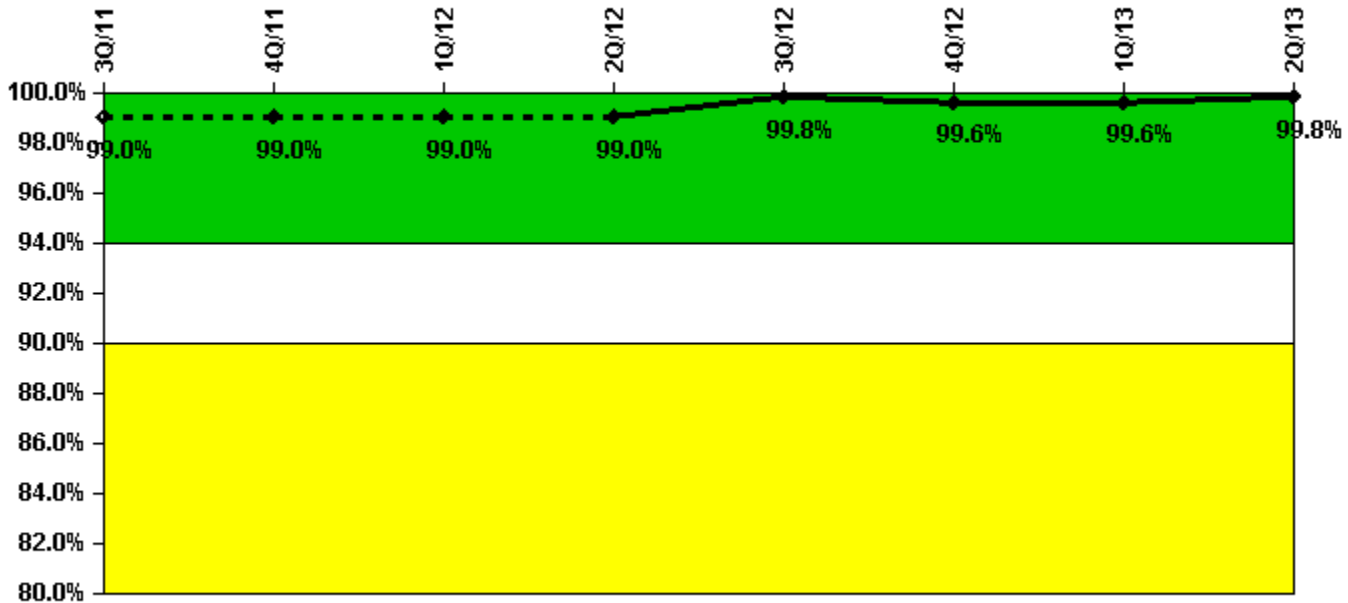
1Q/12: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 71 to 77 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

4Q/11: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 70 to 76 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

3Q/11: Participating key personnel revised from 67 to 73 and Total Key personnel revised from 68 to 74 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

3Q/11: Participating key personnel revised from 68 to 67 for this quarterly indicator. CR-GGN-2011-08346. No change in indicator color.

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

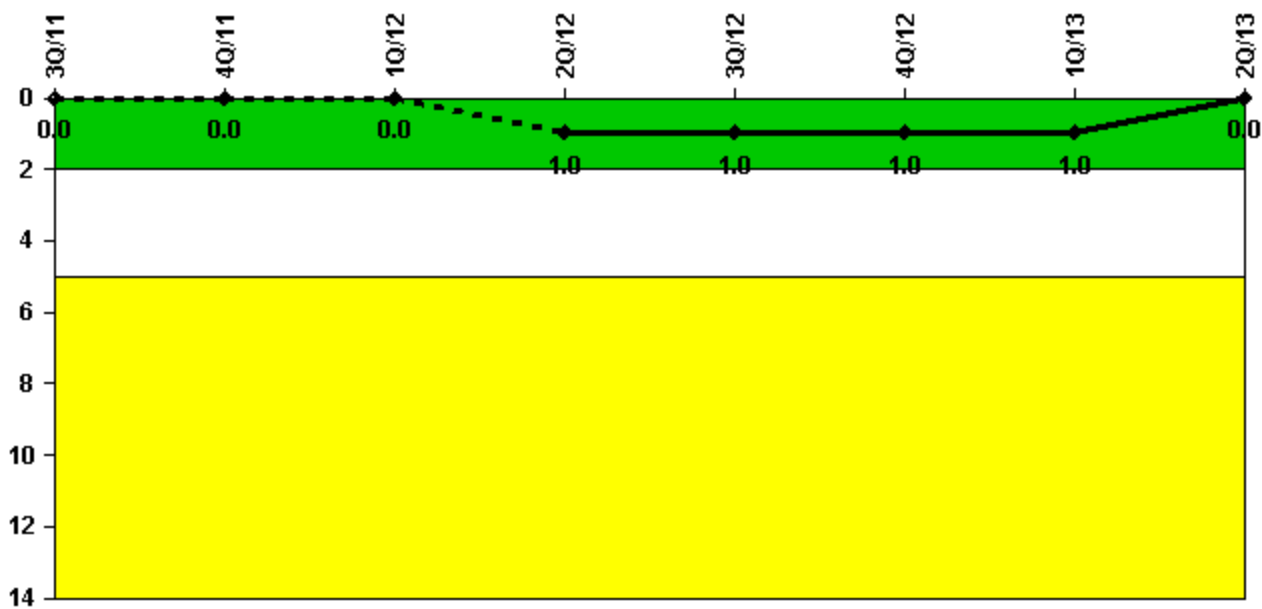
#### Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	122	129	129	128	129	128	129	128
Total sirens-tests	126	129	129	129	129	129	129	128
Indicator value	99.0%	99.0%	99.0%	99.0%	99.8%	99.6%	99.6%	99.8%

Licensee Comments:

2Q/13: In June, one siren is in an inaccessible area (area uninhabited due to river level) and is without AC power.

### Occupational Exposure Control Effectiveness



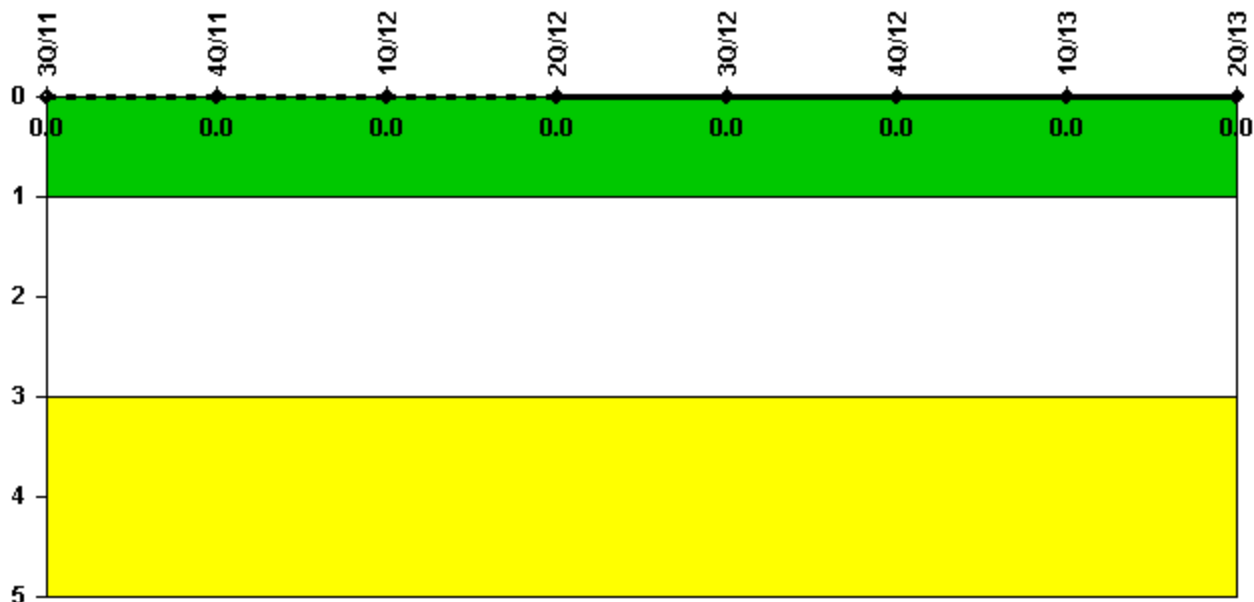
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
High radiation area occurrences	0	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>0</b>	<b>0</b>	<b>0</b>	<b>1</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	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



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

*Last Modified: August 19, 2013*

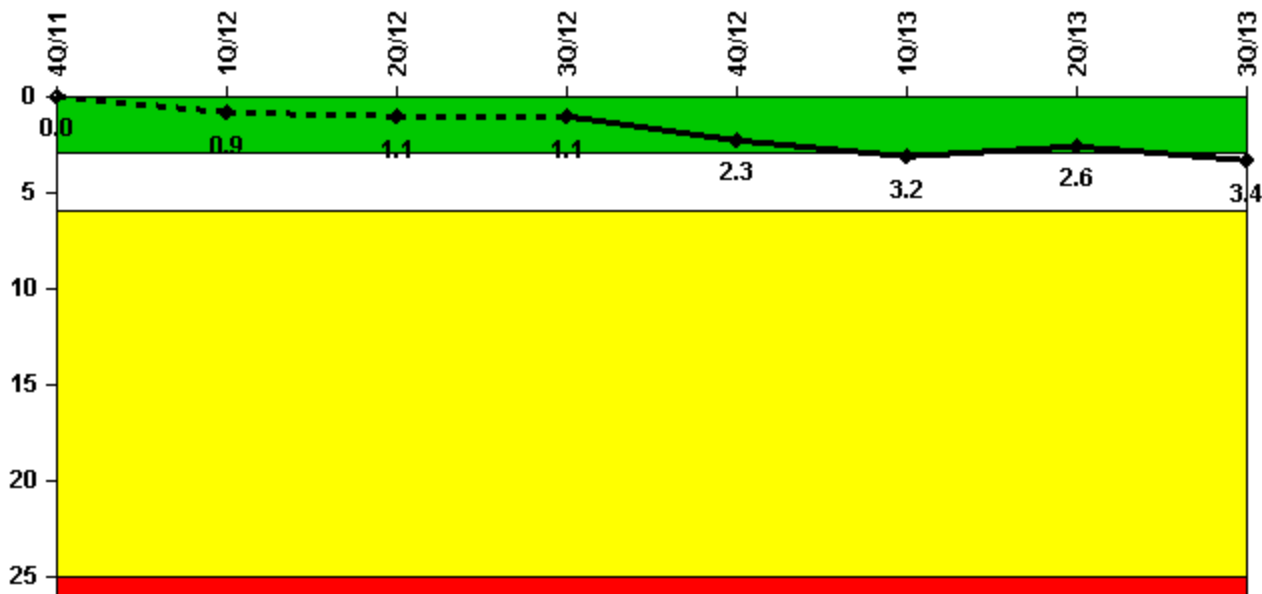
# Grand Gulf 1

## 3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

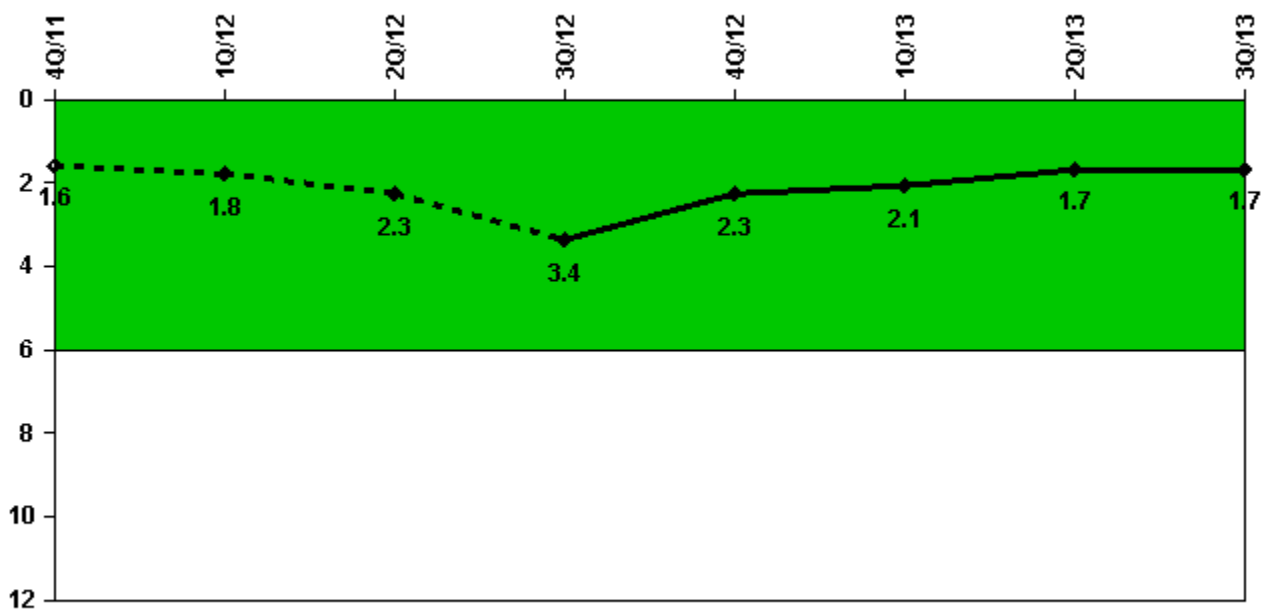
### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	0	1.0	0	0	1.0	2.0	0	1.0
Critical hours	2209.0	1195.1	521.5	2208.0	2033.0	1780.9	2184.0	2119.3
Indicator value	0	0.9	1.1	1.1	2.3	3.2	2.6	3.4

Licensee Comments:

1Q/12: Unplanned manual scram from ~25% power as a result of partial closure of the N11F014B RFPT B HP Steam Admission Valve. This resulted in starting RF-18 ~1 hour early (2/19/2012 at 1904 versus 2/19/2012 at 2000)

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

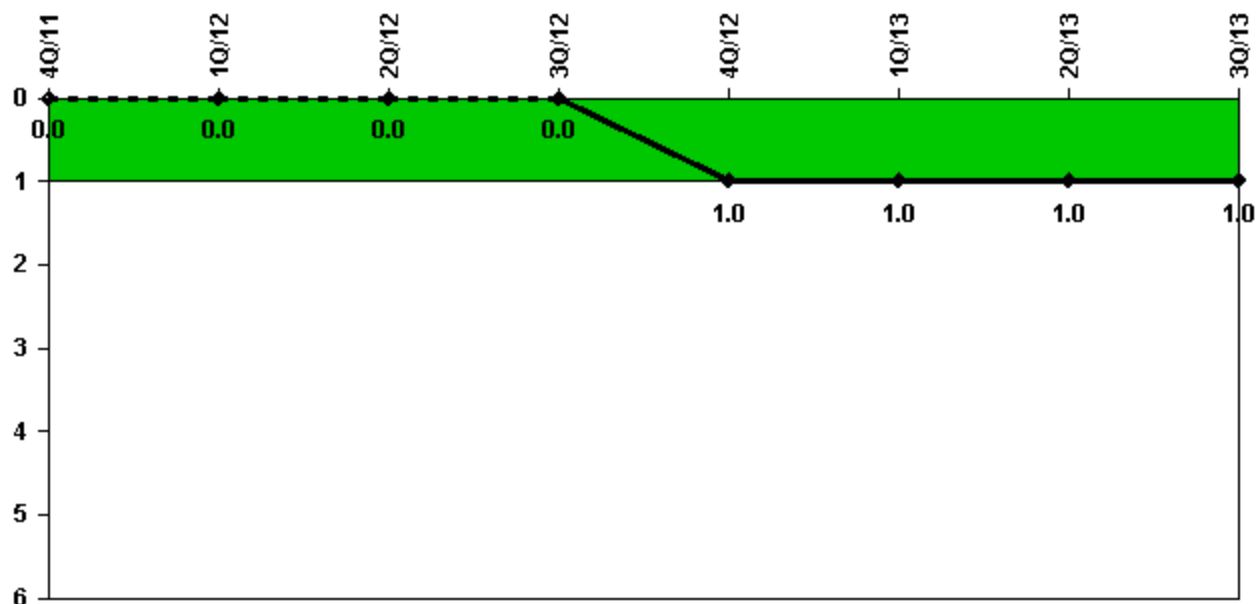
#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	2.0	0	0	1.0	1.0	0	0	1.0
Critical hours	2209.0	1195.1	521.5	2208.0	2033.0	1780.9	2184.0	2119.3
<b>Indicator value</b>	<b>1.6</b>	<b>1.8</b>	<b>2.3</b>	<b>3.4</b>	<b>2.3</b>	<b>2.1</b>	<b>1.7</b>	<b>1.7</b>

Licensee Comments:

4Q/11: Two unplanned Downpowers >20% in November: Feed pump trip and Partial PSW Loss.

### Unplanned Scrams with Complications



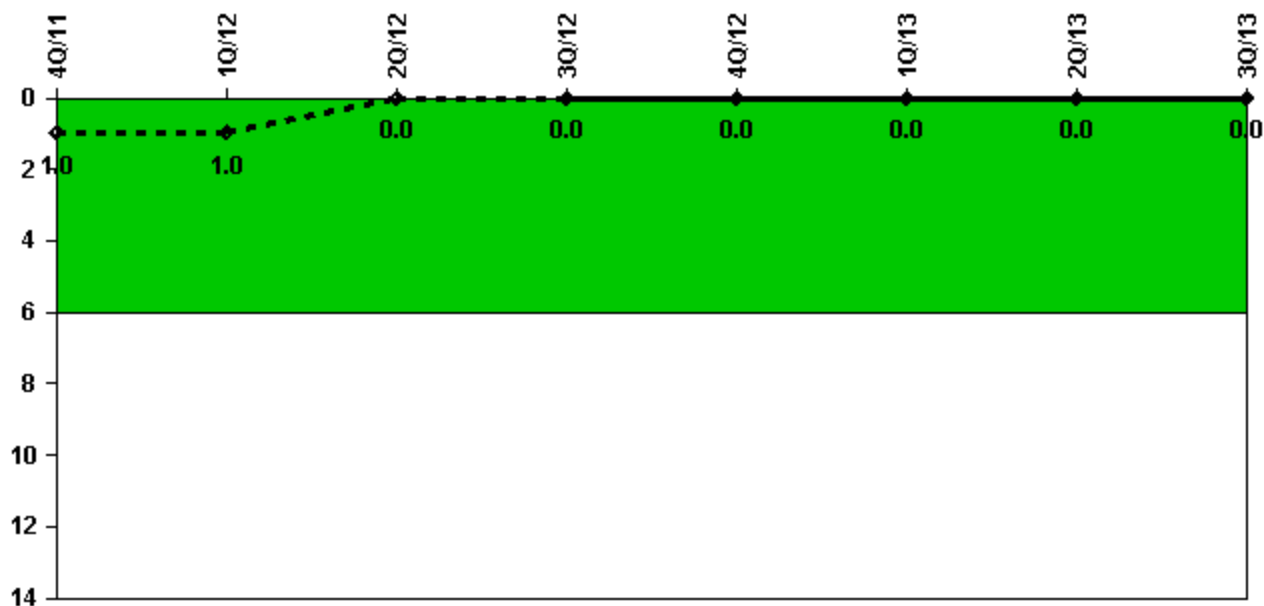
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Scrams with complications	0	0	0	0	1.0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



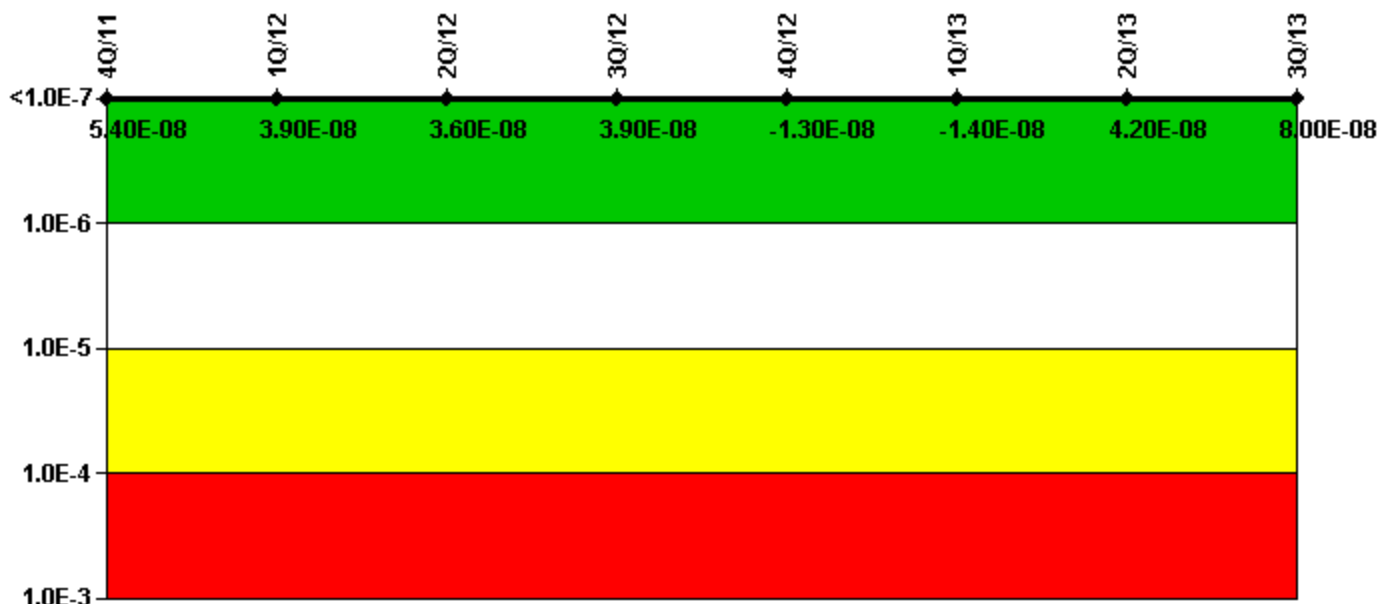
Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Emergency AC Power System



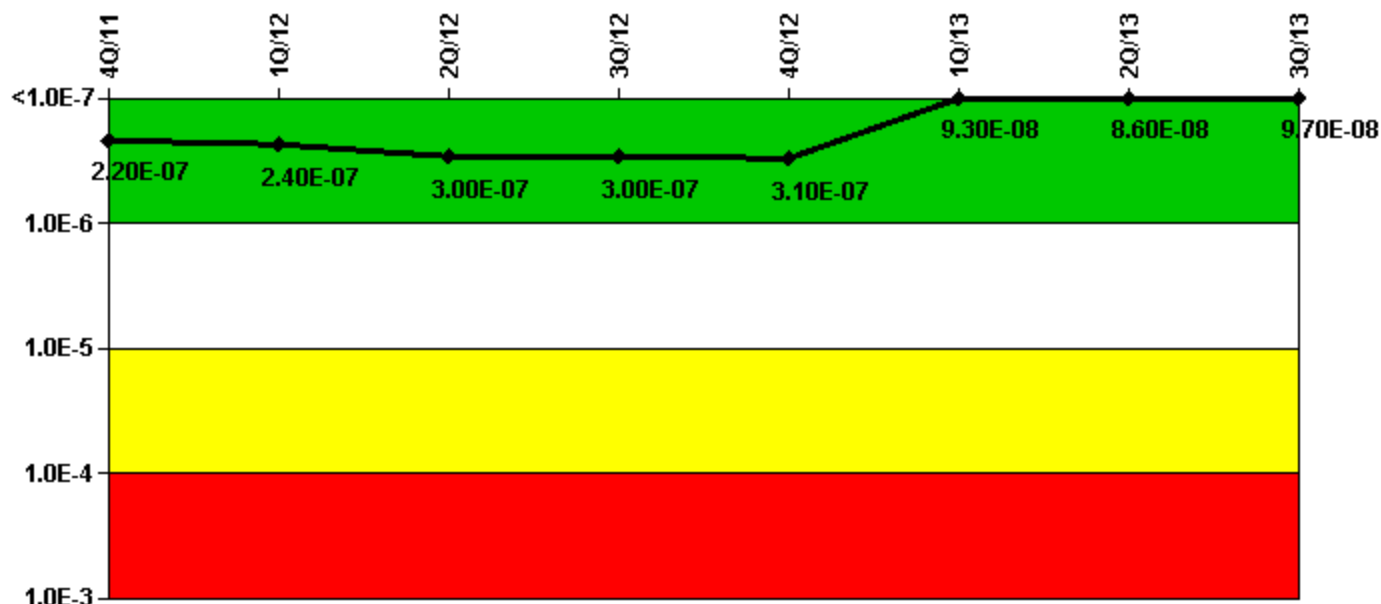
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI ( $\Delta$ CDF)	6.70E-09	-7.61E-09	-7.51E-09	-7.51E-09	-8.84E-09	-8.84E-09	9.33E-09	1.26E-08
URI ( $\Delta$ CDF)	4.76E-08	4.65E-08	4.39E-08	4.63E-08	-3.73E-09	-5.22E-09	3.25E-08	6.77E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.40E-08	3.90E-08	3.60E-08	3.90E-08	-1.30E-08	-1.40E-08	4.20E-08	8.00E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



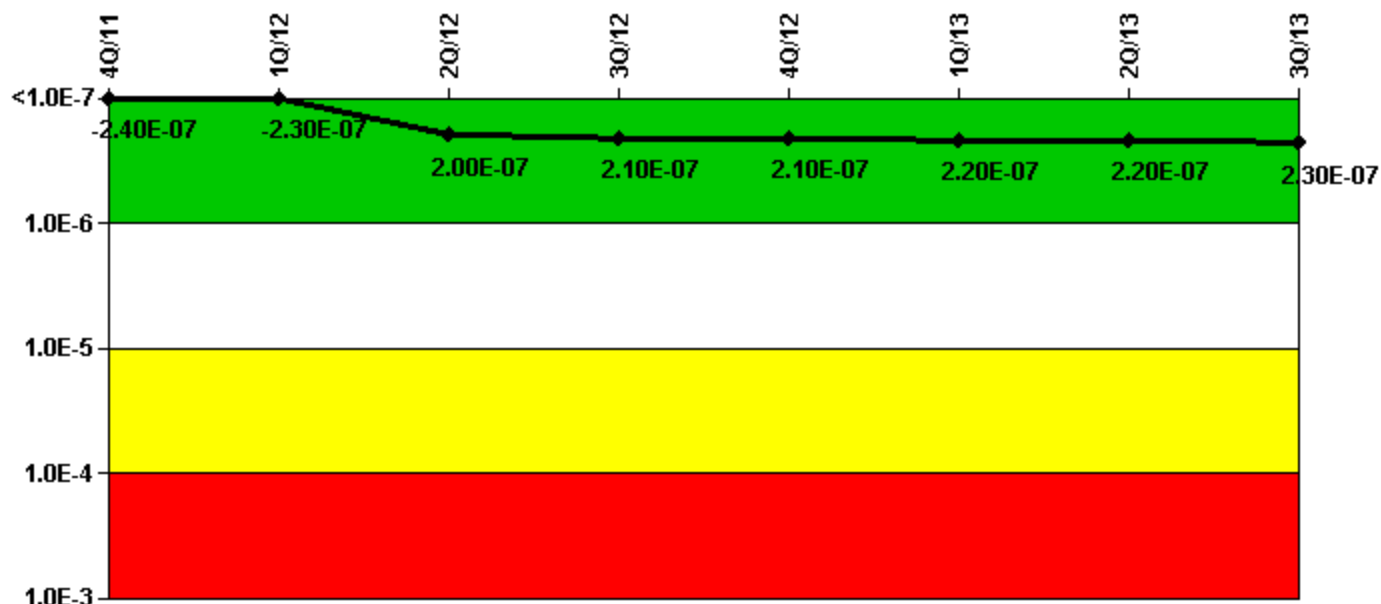
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	2.39E-07	2.60E-07	2.96E-07	2.96E-07	3.01E-07	7.24E-08	6.35E-08	7.95E-08
URI (ΔCDF)	-1.73E-08	-1.70E-08	8.31E-09	8.44E-09	1.26E-08	2.05E-08	2.25E-08	1.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.20E-07	2.40E-07	3.00E-07	3.00E-07	3.10E-07	9.30E-08	8.60E-08	9.70E-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

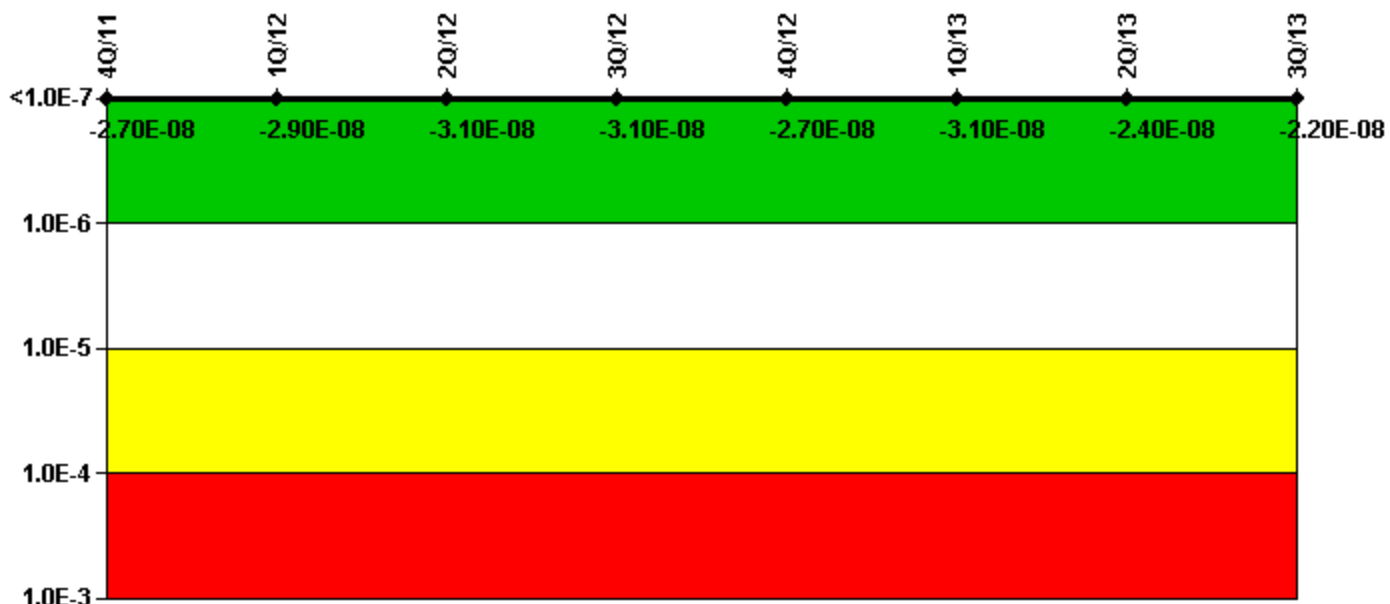
Mitigating Systems Performance Index, Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI ( $\Delta$ CDF)	-6.20E-08	-6.20E-08	-4.37E-08	-4.37E-08	-4.36E-08	3.57E-09	1.65E-09	1.89E-09
URI ( $\Delta$ CDF)	-1.78E-07	-1.70E-07	2.43E-07	2.52E-07	2.51E-07	2.13E-07	2.14E-07	2.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-2.40E-07$	$-2.30E-07$	$2.00E-07$	$2.10E-07$	$2.10E-07$	$2.20E-07$	$2.20E-07$	$2.30E-07$

Licensee Comments:

4Q/11: No Changes Made to this indicator in the 1Q12 update, relocked data only.



### Mitigating Systems Performance Index, Residual Heat Removal System



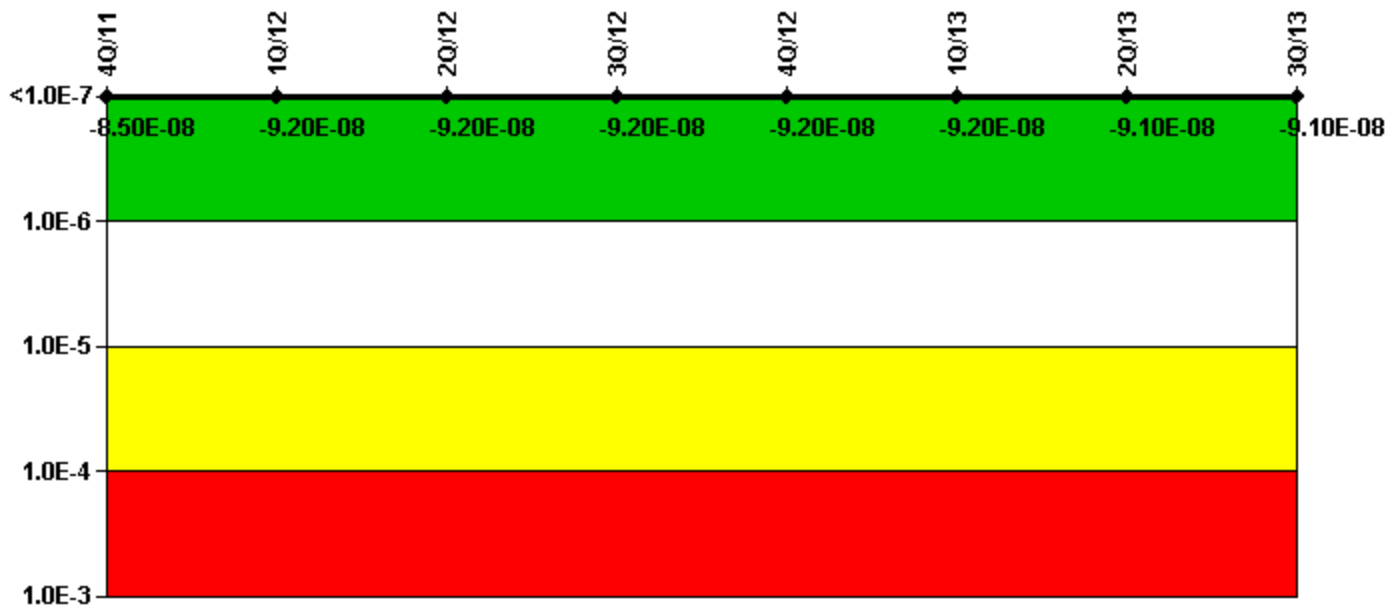
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI ( $\Delta$ CDF)	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-4.75E-09	-8.56E-09	-2.03E-09	-4.69E-10
URI ( $\Delta$ CDF)	-1.83E-08	-2.04E-08	-2.27E-08	-2.23E-08	-2.25E-08	-2.28E-08	-2.16E-08	-2.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-08	-2.90E-08	-3.10E-08	-3.10E-08	-2.70E-08	-3.10E-08	-2.40E-08	-2.20E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



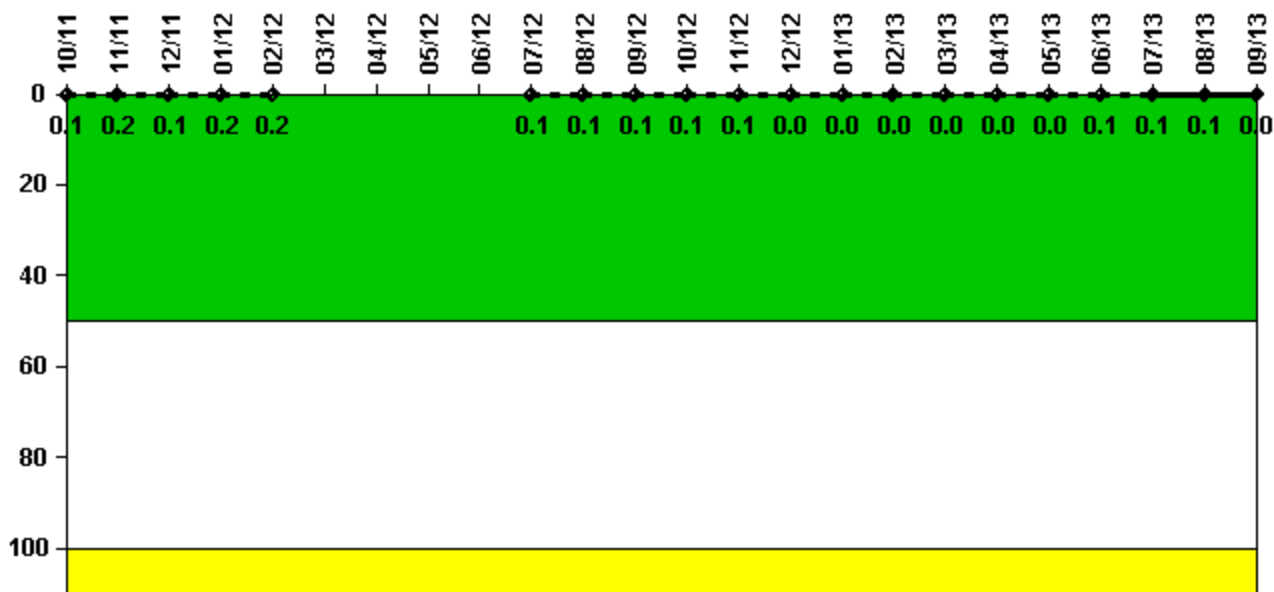
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI ( $\Delta$ CDF)	4.27E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-8.92E-08	-9.01E-08	-9.06E-08	-9.04E-08	-9.06E-08	-9.00E-08	-8.93E-08	-8.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.50E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.10E-08	-9.10E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.000284	0.000327	0.000254	0.000347	0.000322	N/A	N/A	N/A	N/A	0.000132	0.000170	0.000183
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	0.1	0.2	0.1	0.2	0.2	N/A	N/A	N/A	N/A	0.1	0.1	0.1

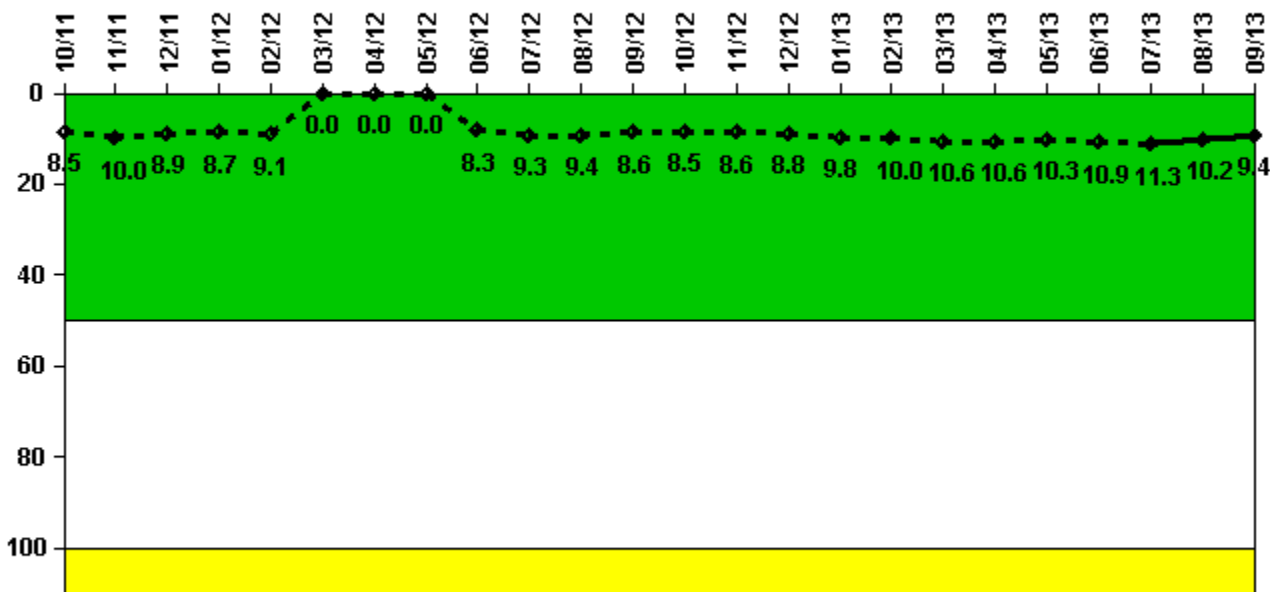
  

Reactor Coolant System Activity	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum activity	0.000206	0.000157	0.000082	0.000057	0.000048	0.000059	0.000090	0.000086	0.000105	0.000105	0.000101	0.000089
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.1	0	0	0	0	0	0	0.1	0.1	0.1	0

Licensee Comments:

6/13: June only one Reactor Water Clean-Up (RWCU) Filter in-service.

### Reactor Coolant System Leakage



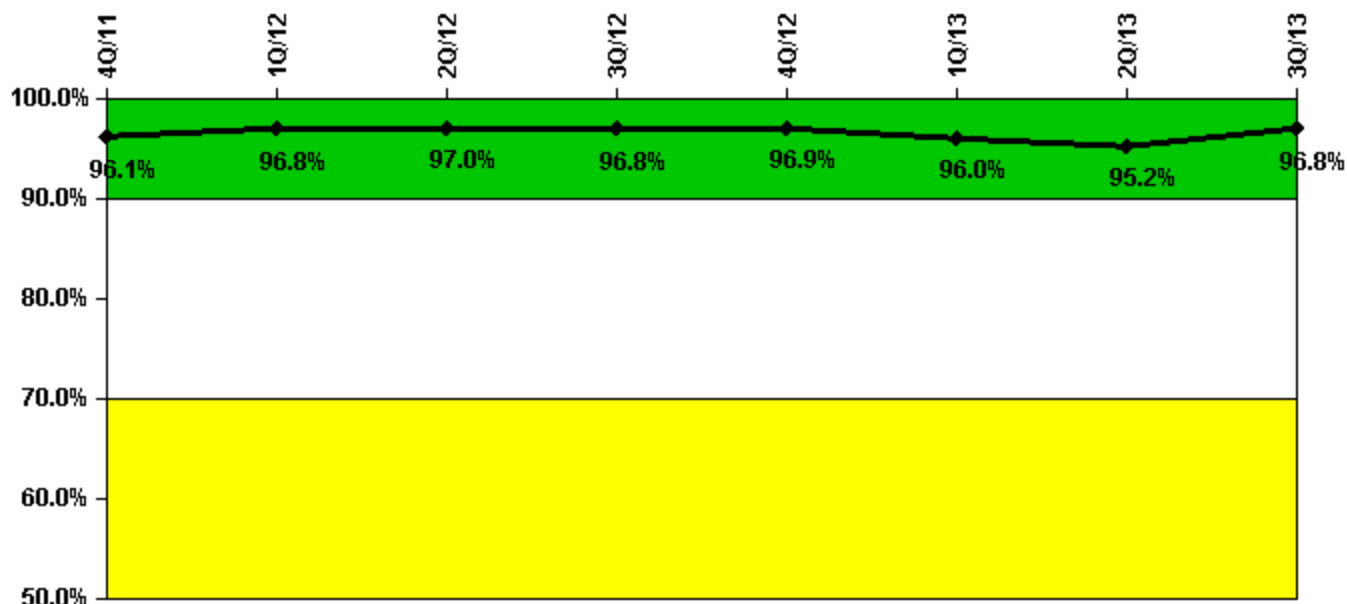
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	2.560	3.000	2.680	2.620	2.720	0	0	0	2.500	2.780	2.820	2.580
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>8.5</b>	<b>10.0</b>	<b>8.9</b>	<b>8.7</b>	<b>9.1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8.3</b>	<b>9.3</b>	<b>9.4</b>	<b>8.6</b>
Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	2.560	2.570	2.650	2.950	2.990	3.180	3.180	3.090	3.270	3.400	3.050	2.810
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>8.5</b>	<b>8.6</b>	<b>8.8</b>	<b>9.8</b>	<b>10.0</b>	<b>10.6</b>	<b>10.6</b>	<b>10.3</b>	<b>10.9</b>	<b>11.3</b>	<b>10.2</b>	<b>9.4</b>

Licensee Comments: none

### Drill/Exercise Performance



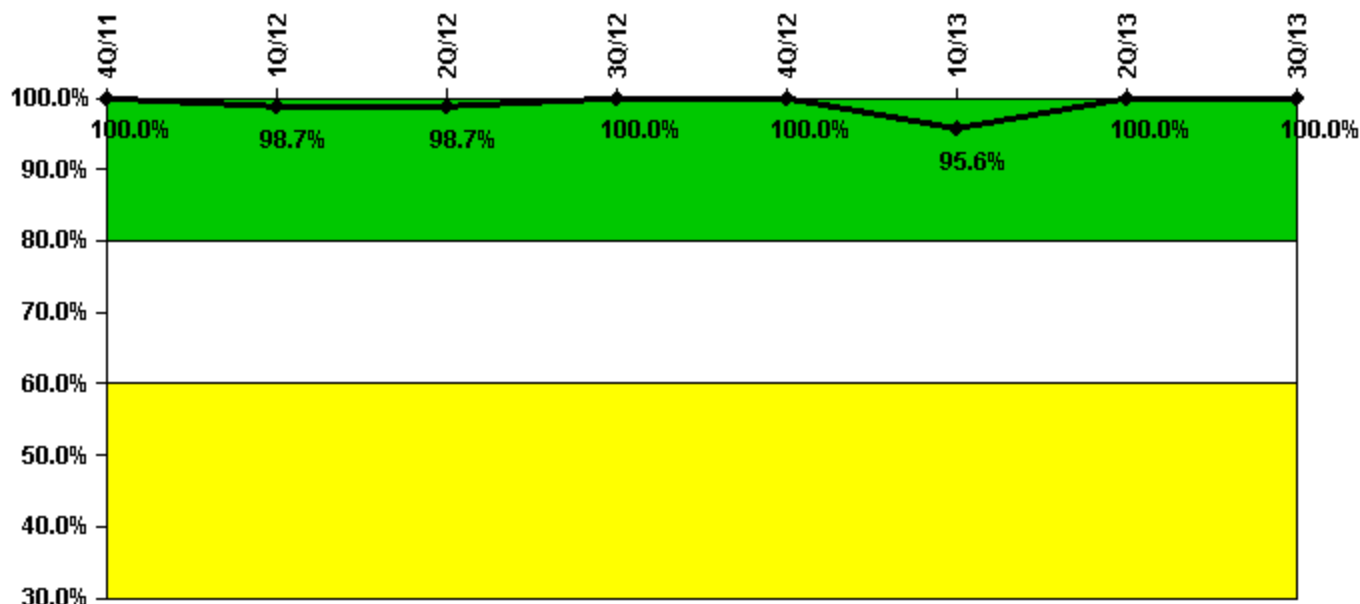
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful opportunities	47.0	0	9.0	21.0	27.0	9.0	17.0	23.0
Total opportunities	48.0	0	9.0	22.0	28.0	10.0	18.0	23.0
Indicator value	96.1%	96.8%	97.0%	96.8%	96.9%	96.0%	95.2%	96.8%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	76.0	76.0	74.0	72.0	70.0	65.0	67.0	66.0
Total Key personnel	76.0	77.0	75.0	72.0	70.0	68.0	67.0	66.0
Indicator value	100.0%	98.7%	98.7%	100.0%	100.0%	95.6%	100.0%	100.0%

#### Licensee Comments:

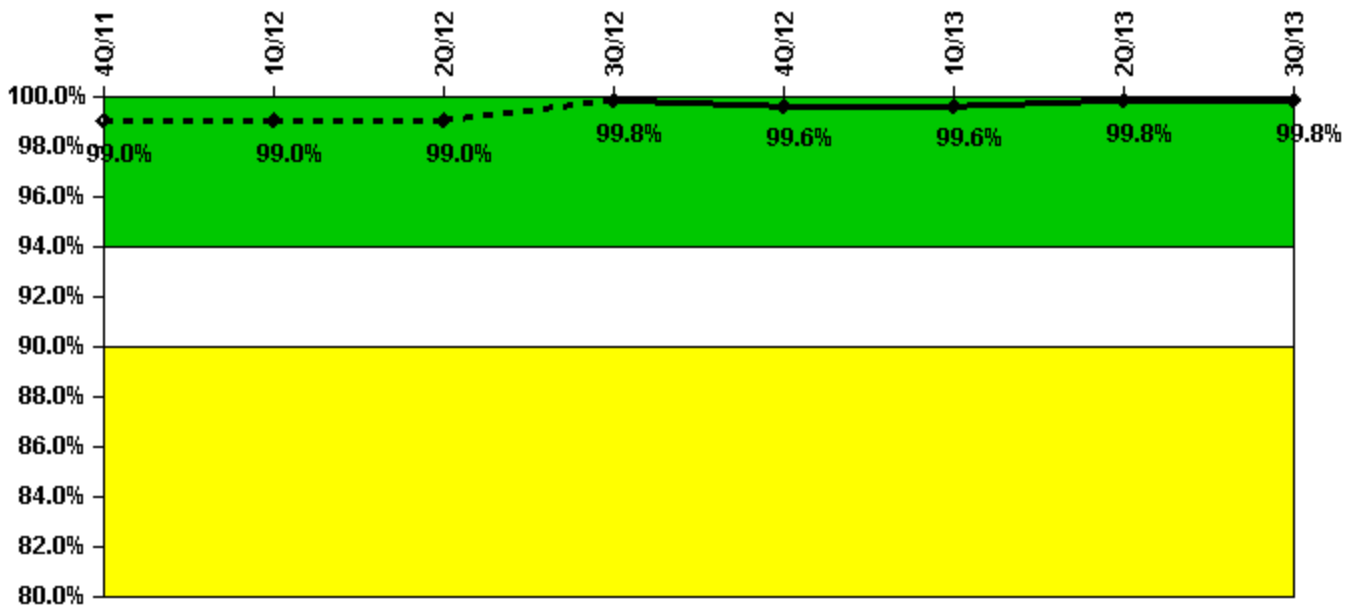
2Q/13: First Quarter 2013 revised do to a retirement in March 2013 and not noticed until July 2013. CR-GGN-2013-4296 written to address issue. This change does not affect the color of the indicator (green).

2Q/12: Participating key personnel revised from 68 to 74 and Total Key personnel revised from 69 to 75 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

1Q/12: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 71 to 77 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

4Q/11: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 70 to 76 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

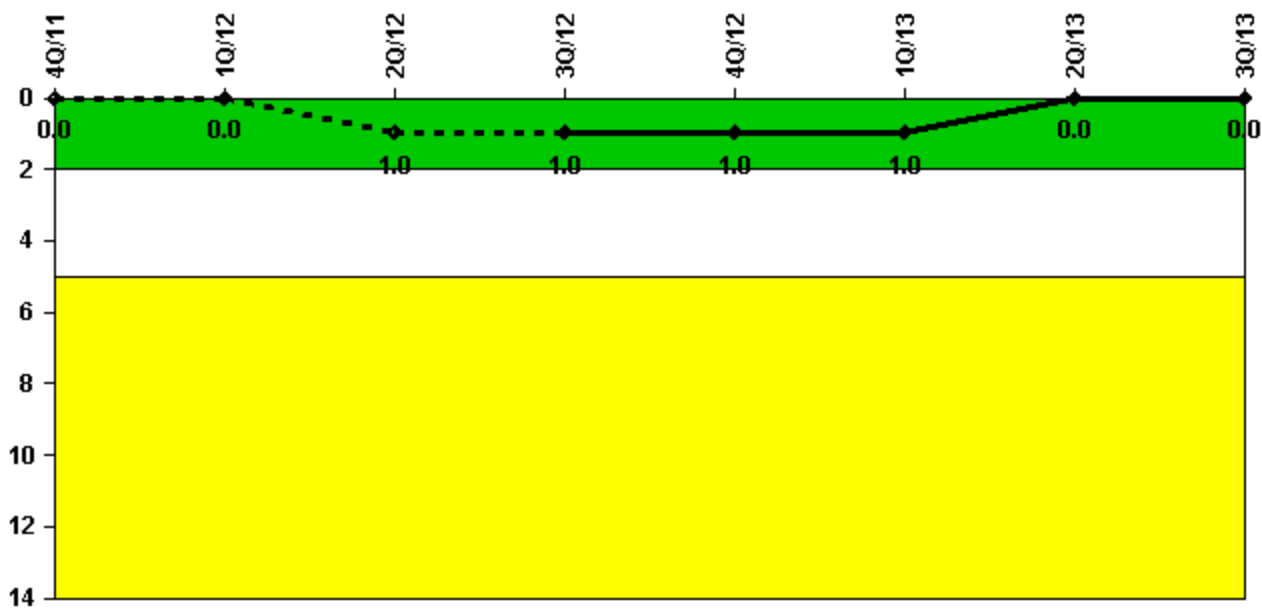
#### Notes

Alert & Notification System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	129	129	128	129	128	129	128	129
Total sirens-tests	129	129	129	129	129	129	128	129
Indicator value	99.0%	99.0%	99.0%	99.8%	99.6%	99.6%	99.8%	99.8%

Licensee Comments:

2Q/13: In June, one siren is in an inaccessible area (area uninhabited due to river level) and is without AC power.

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

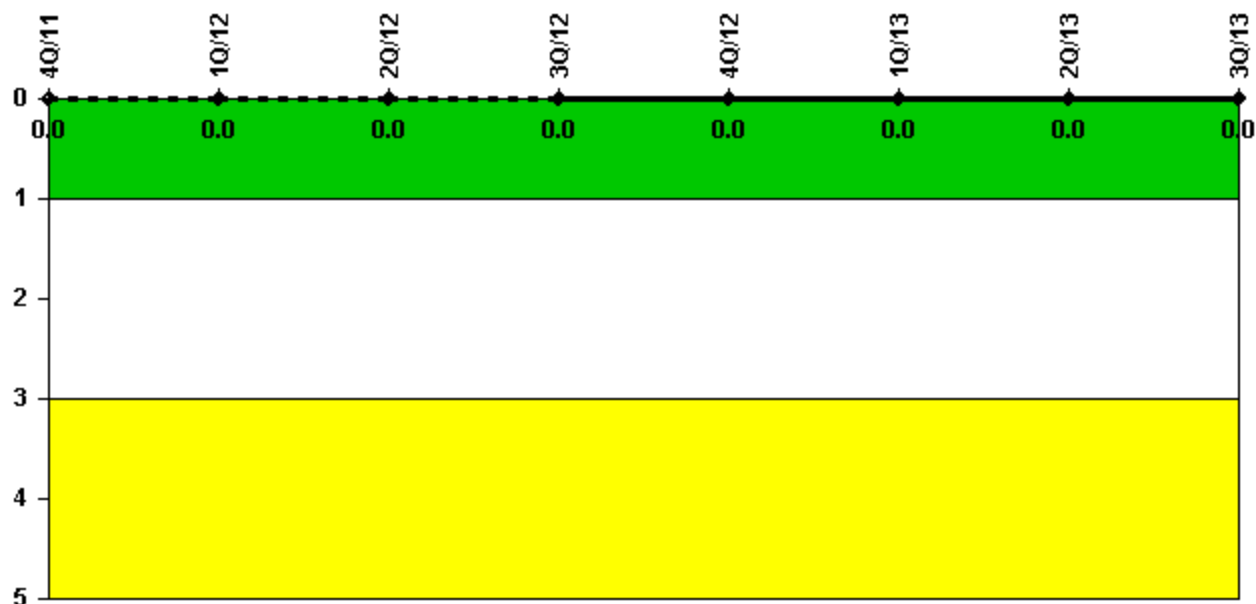
**Notes**

Occupational Exposure Control Effectiveness	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
High radiation area occurrences	0	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>1</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	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: October 22, 2013*

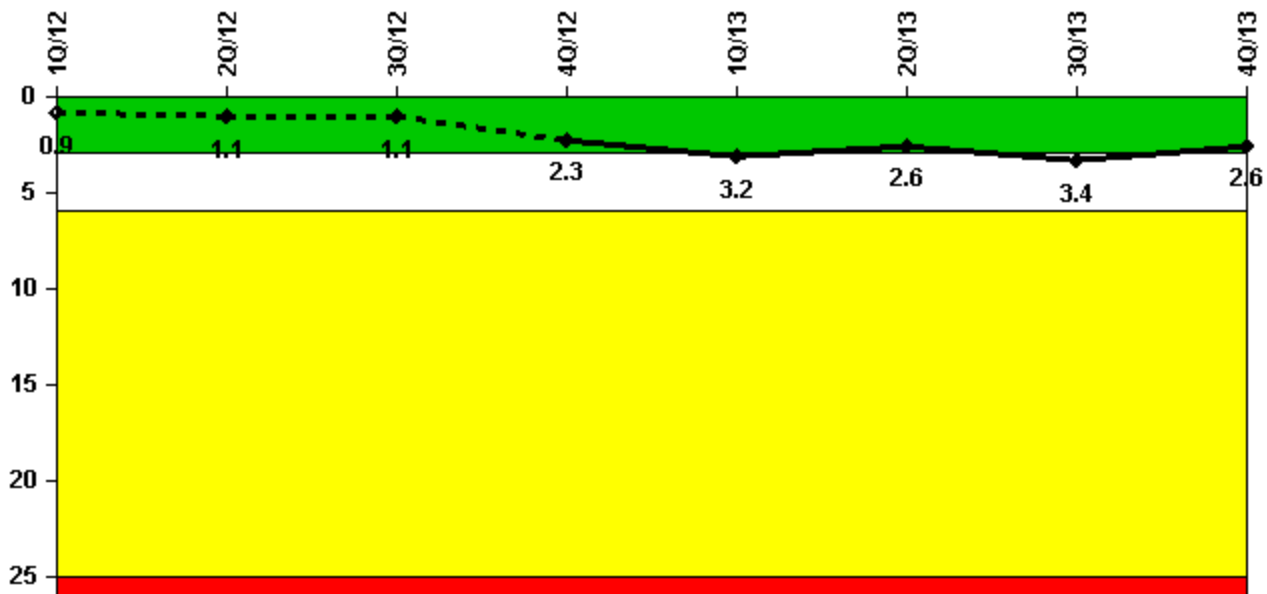
# Grand Gulf 1

## 4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

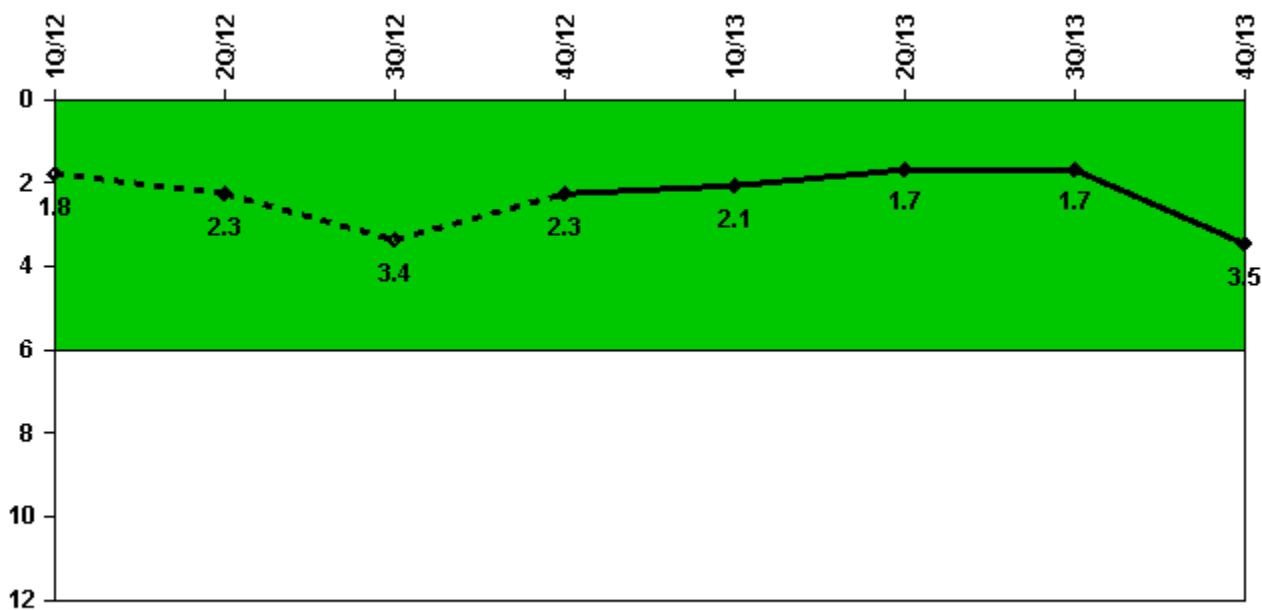
### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	1.0	0	0	1.0	2.0	0	1.0	0
Critical hours	1195.1	521.5	2208.0	2033.0	1780.9	2184.0	2119.3	1994.1
<b>Indicator value</b>	<b>0.9</b>	<b>1.1</b>	<b>1.1</b>	<b>2.3</b>	<b>3.2</b>	<b>2.6</b>	<b>3.4</b>	<b>2.6</b>

Licensee Comments:

1Q/12: Unplanned manual scram from ~25% power as a result of partial closure of the N11F014B RFPT B HP Steam Admission Valve. This resulted in starting RF-18 ~1 hour early (2/19/2012 at 1904 versus 2/19/2012 at 2000)

### Unplanned Power Changes per 7000 Critical Hrs



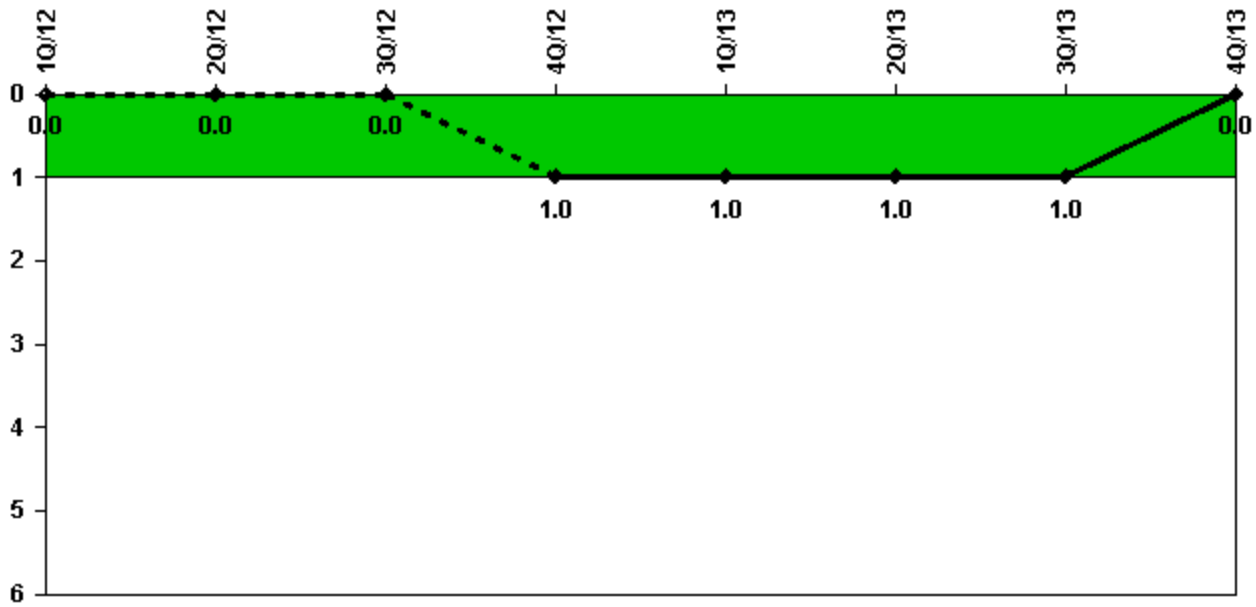
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	1.0	1.0	0	0	1.0	3.0
Critical hours	1195.1	521.5	2208.0	2033.0	1780.9	2184.0	2119.3	1994.1
<b>Indicator value</b>	<b>1.8</b>	<b>2.3</b>	<b>3.4</b>	<b>2.3</b>	<b>2.1</b>	<b>1.7</b>	<b>1.7</b>	<b>3.5</b>

Licensee Comments: none

### Unplanned Scrams with Complications



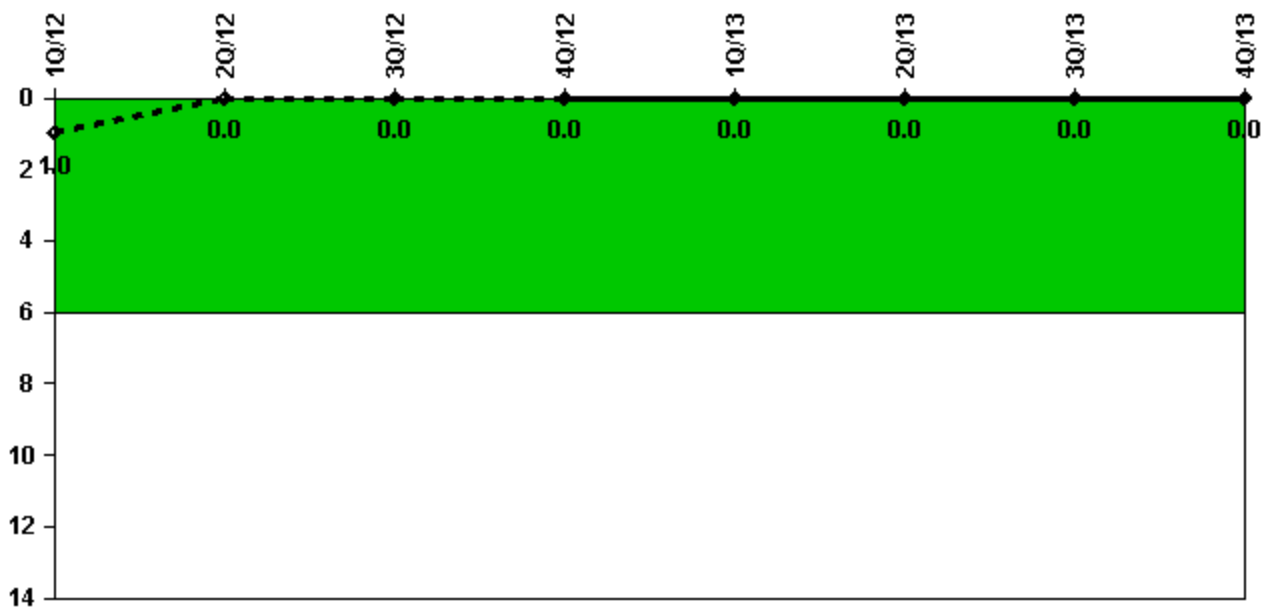
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Scrams with complications	0	0	0	1.0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

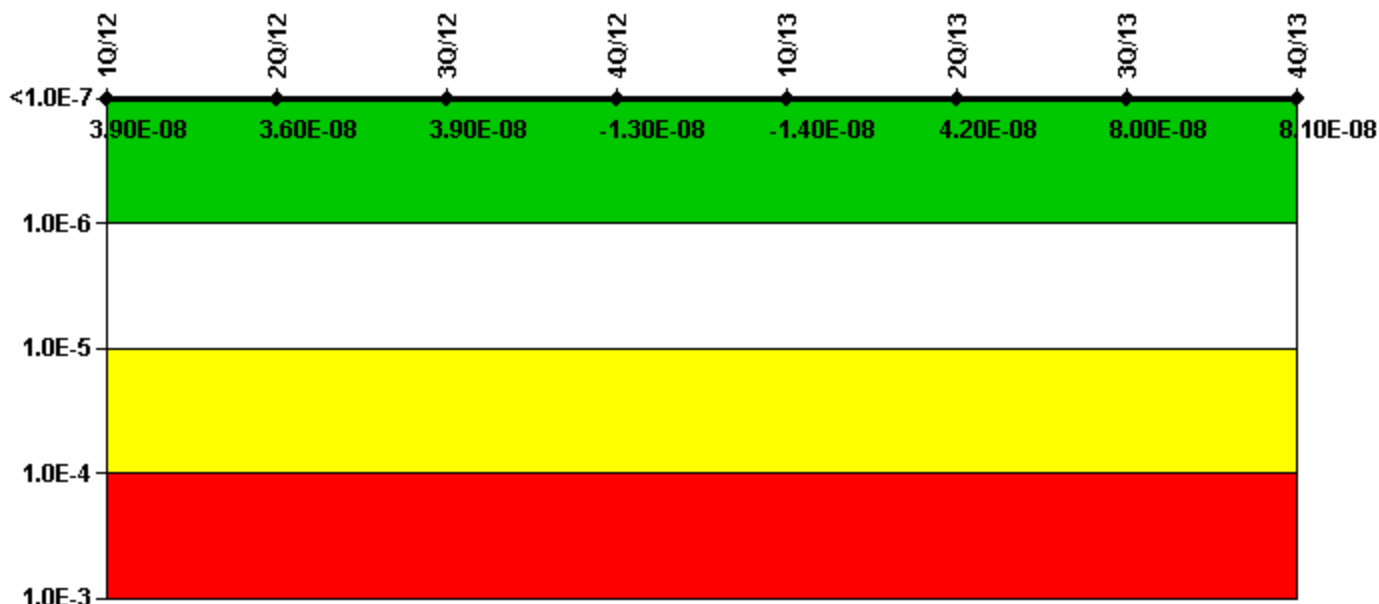
#### Notes

Safety System Functional Failures (BWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments:

4Q/13: No LERs for November 2013

### Mitigating Systems Performance Index, Emergency AC Power System



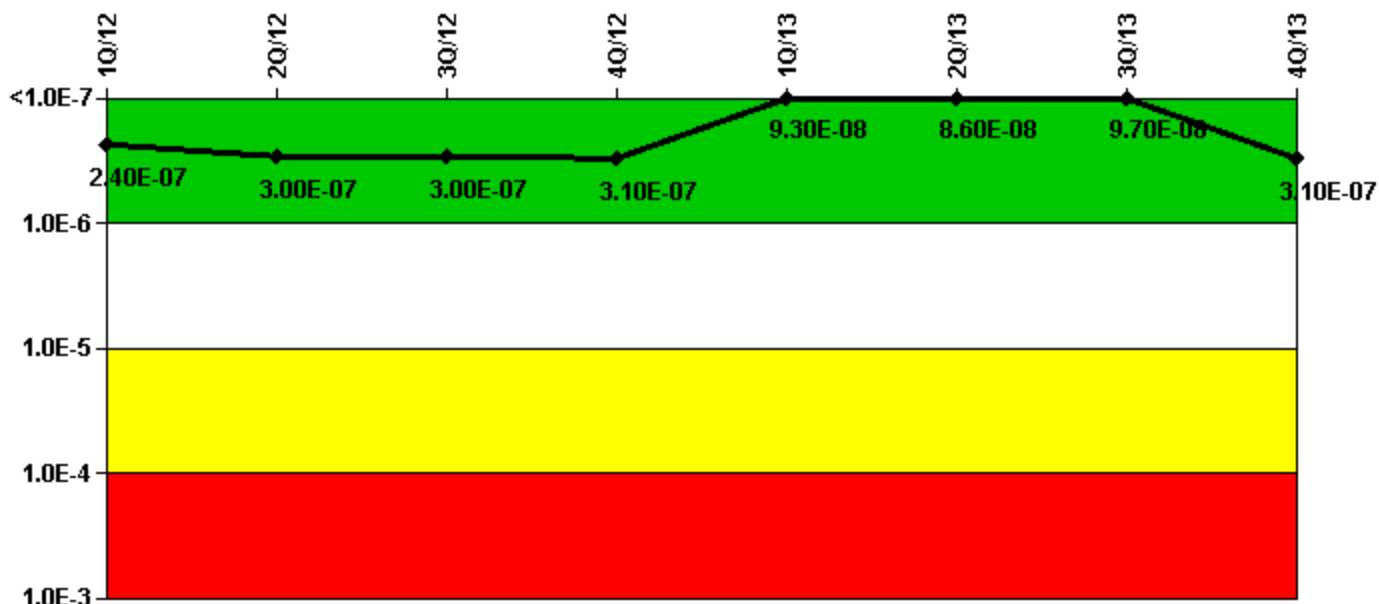
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI ( $\Delta$ CDF)	-7.61E-09	-7.51E-09	-7.51E-09	-8.84E-09	-8.84E-09	9.33E-09	1.26E-08	1.31E-08
URI ( $\Delta$ CDF)	4.65E-08	4.39E-08	4.63E-08	-3.73E-09	-5.22E-09	3.25E-08	6.77E-08	6.77E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.90E-08	3.60E-08	3.90E-08	-1.30E-08	-1.40E-08	4.20E-08	8.00E-08	8.10E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



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

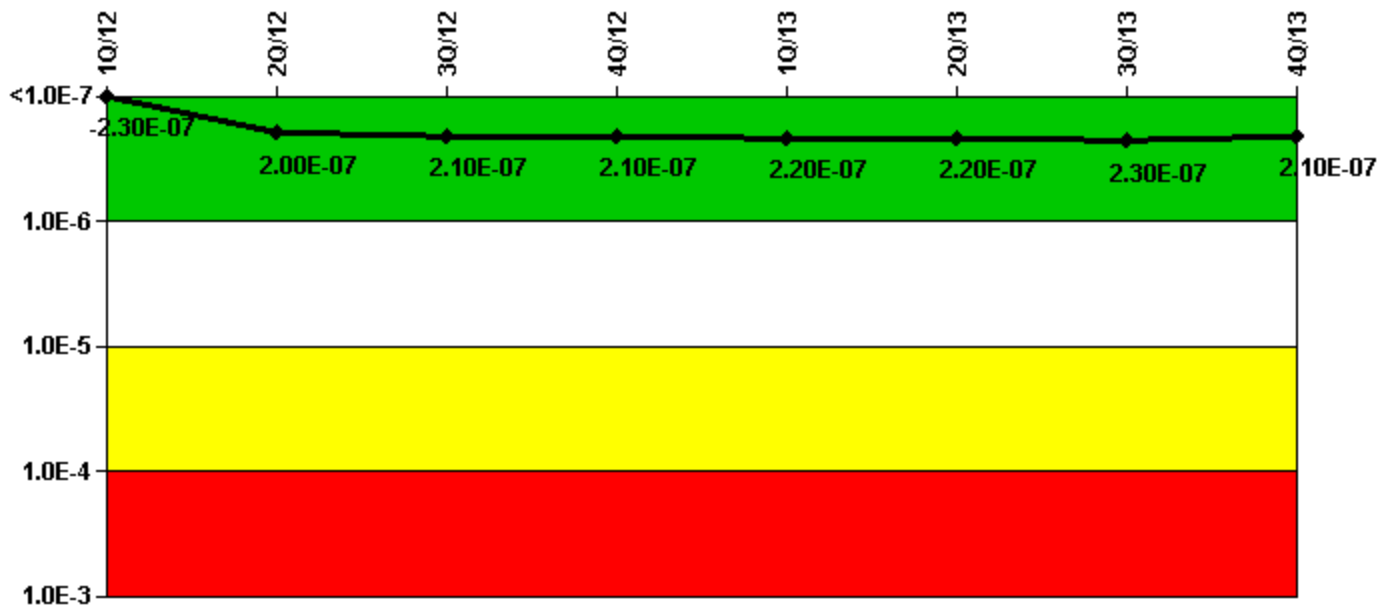
#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	2.60E-07	2.96E-07	2.96E-07	3.01E-07	7.24E-08	6.35E-08	7.95E-08	2.93E-07
URI (ΔCDF)	-1.70E-08	8.31E-09	8.44E-09	1.26E-08	2.05E-08	2.25E-08	1.80E-08	1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.40E-07	3.00E-07	3.00E-07	3.10E-07	9.30E-08	8.60E-08	9.70E-08	3.10E-07

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/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI ( $\Delta$ CDF)	-6.20E-08	-4.37E-08	-4.37E-08	-4.36E-08	3.57E-09	1.65E-09	1.89E-09	2.50E-09
URI ( $\Delta$ CDF)	-1.70E-07	2.43E-07	2.52E-07	2.51E-07	2.13E-07	2.14E-07	2.32E-07	2.05E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-07	2.00E-07	2.10E-07	2.10E-07	2.20E-07	2.20E-07	2.30E-07	2.10E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



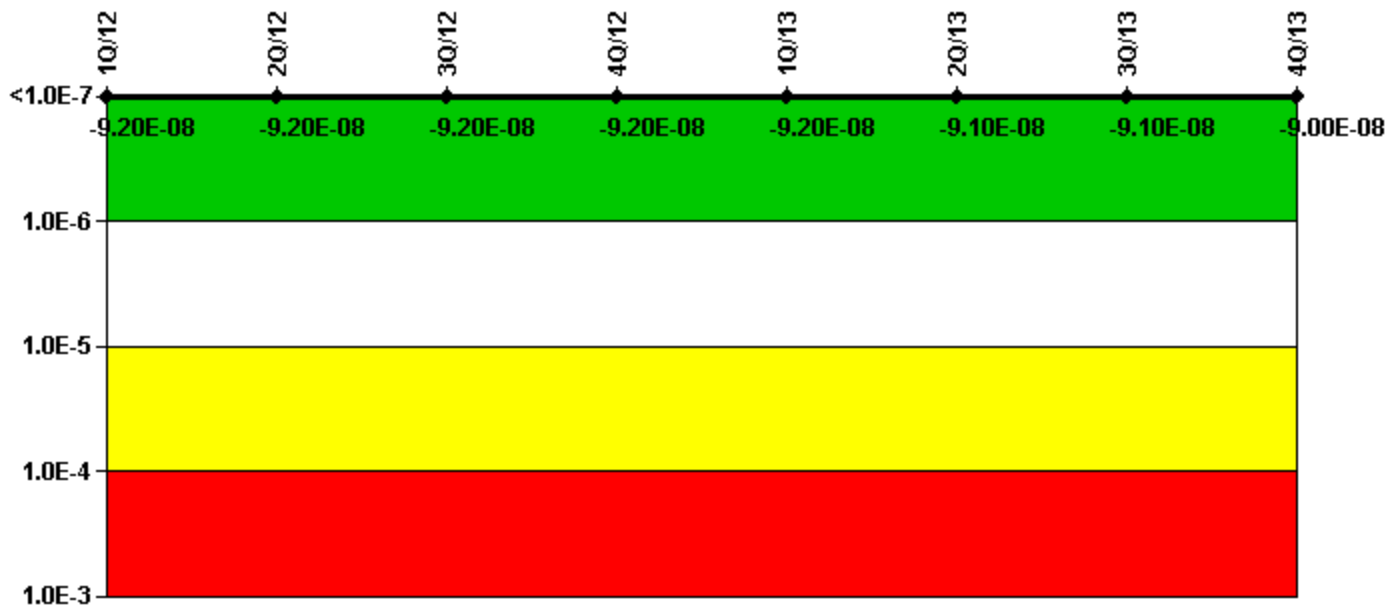
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI ( $\Delta$ CDF)	-8.56E-09	-8.56E-09	-8.56E-09	-4.75E-09	-8.56E-09	-2.03E-09	-4.69E-10	3.02E-10
URI ( $\Delta$ CDF)	-2.04E-08	-2.27E-08	-2.23E-08	-2.25E-08	-2.28E-08	-2.16E-08	-2.12E-08	-2.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-3.10E-08	-3.10E-08	-2.70E-08	-3.10E-08	-2.40E-08	-2.20E-08	-2.20E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



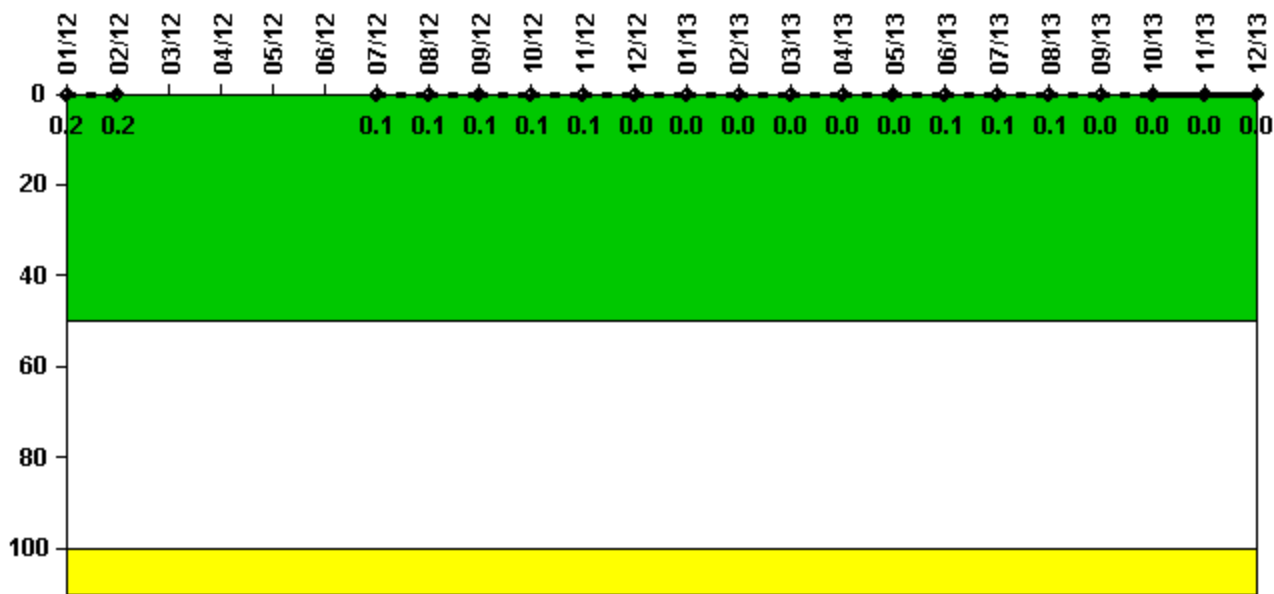
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.50E-09
URI ( $\Delta$ CDF)	-9.01E-08	-9.06E-08	-9.04E-08	-9.06E-08	-9.00E-08	-8.93E-08	-8.90E-08	-8.88E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.10E-08	-9.10E-08	-9.00E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.000347	0.000322	N/A	N/A	N/A	N/A	0.000132	0.000170	0.000183	0.000206	0.000157	0.000082
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	0.2	0.2	N/A	N/A	N/A	N/A	0.1	0.1	0.1	0.1	0.1	0

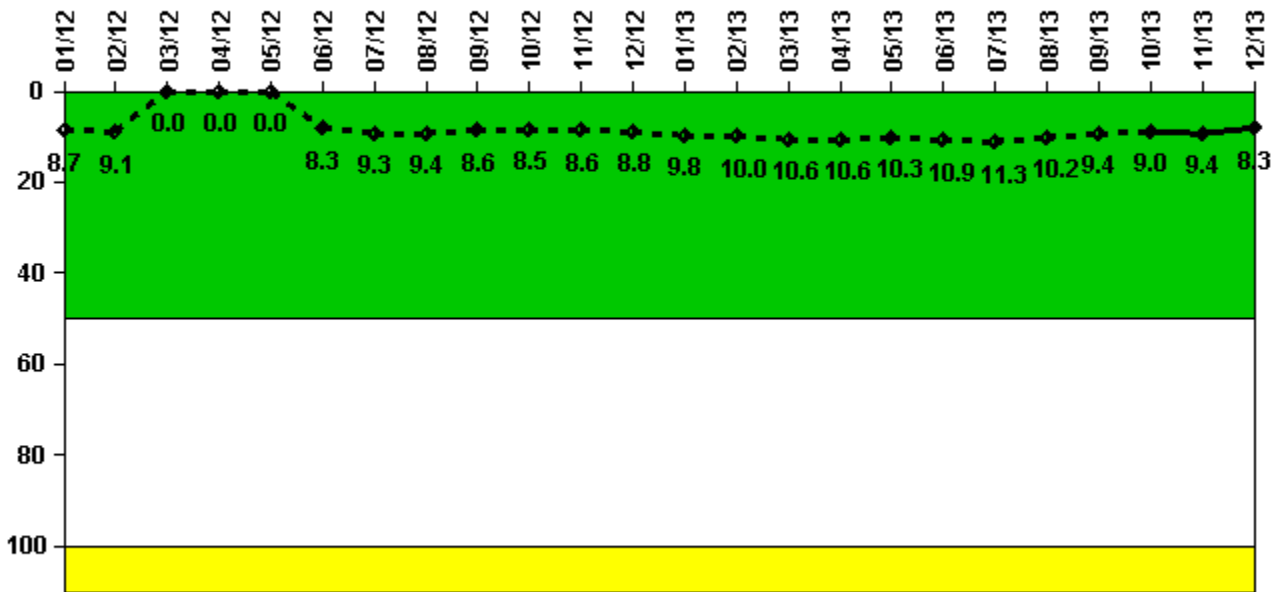
  

Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000057	0.000048	0.000059	0.000090	0.000086	0.000105	0.000105	0.000101	0.000089	0.000092	0.000026	0.000049
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0

Licensee Comments:

6/13: June only one Reactor Water Clean-Up (RWCU) Filter in-service.

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

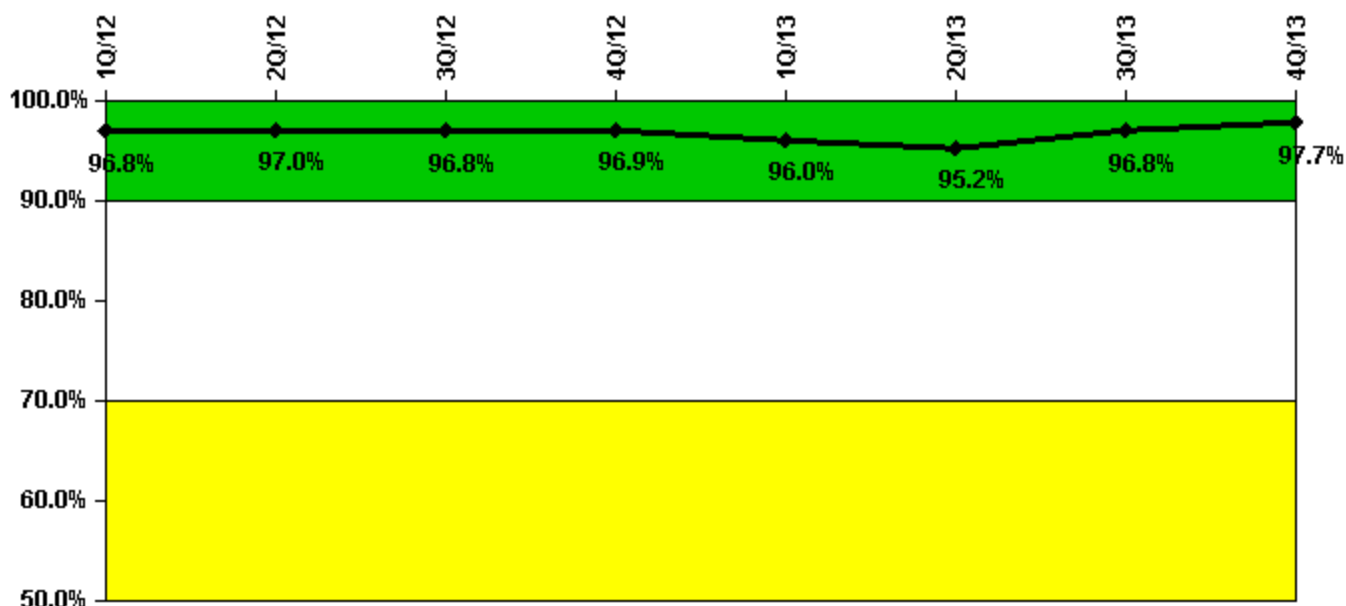
Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	2.620	2.720	0	0	0	2.500	2.780	2.820	2.580	2.560	2.570	2.650
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.7	9.1	0	0	0	8.3	9.3	9.4	8.6	8.5	8.6	8.8

Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	2.950	2.990	3.180	3.180	3.090	3.270	3.400	3.050	2.810	2.690	2.810	2.500
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.8	10.0	10.6	10.6	10.3	10.9	11.3	10.2	9.4	9.0	9.4	8.3

Licensee Comments: none

### Drill/Exercise Performance



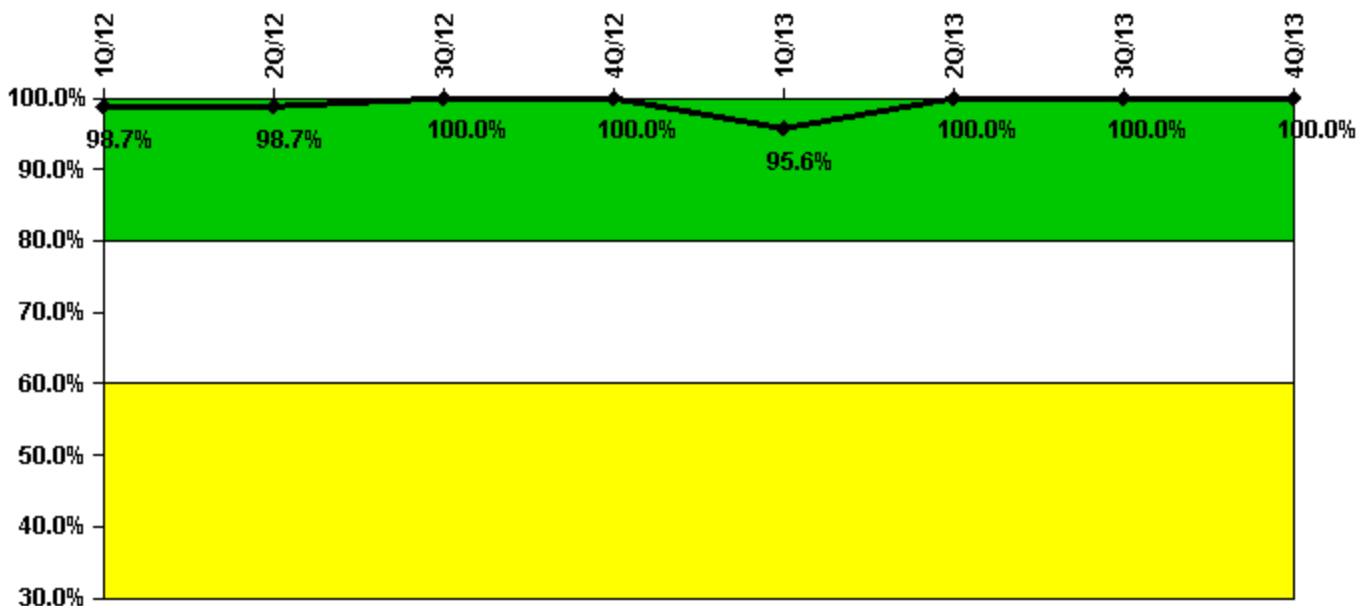
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	0	9.0	21.0	27.0	9.0	17.0	23.0	66.0
Total opportunities	0	9.0	22.0	28.0	10.0	18.0	23.0	66.0
Indicator value	96.8%	97.0%	96.8%	96.9%	96.0%	95.2%	96.8%	97.7%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	76.0	74.0	72.0	70.0	65.0	67.0	66.0	74.0
Total Key personnel	77.0	75.0	72.0	70.0	68.0	67.0	66.0	74.0
Indicator value	98.7%	98.7%	100.0%	100.0%	95.6%	100.0%	100.0%	100.0%

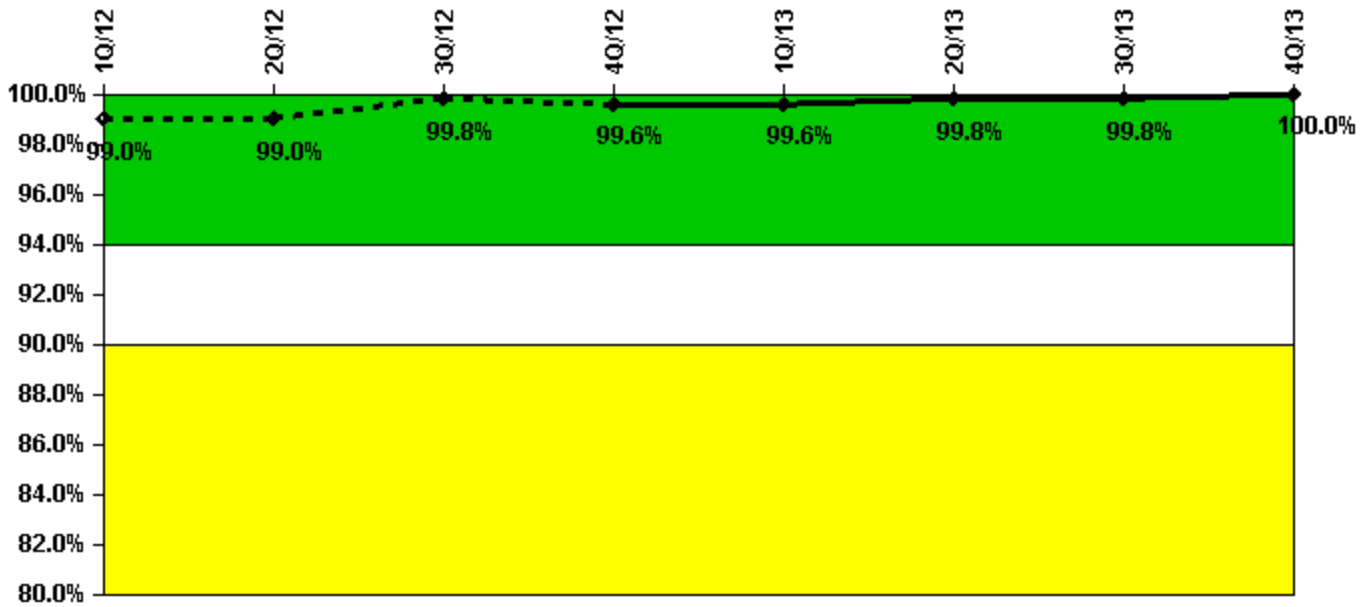
#### Licensee Comments:

2Q/13: First Quarter 2013 revised do to a retirement in March 2013 and not noticed until July 203. CR-GGN-2013-4296 written to address issue. This change does not affect the color of the indicator (green).

2Q/12: Participating key personnel revised from 68 to 74 and Total Key personnel revised from 69 to 75 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

1Q/12: Participating key personnel revised from 70 to 76 and Total Key personnel revised from 71 to 77 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

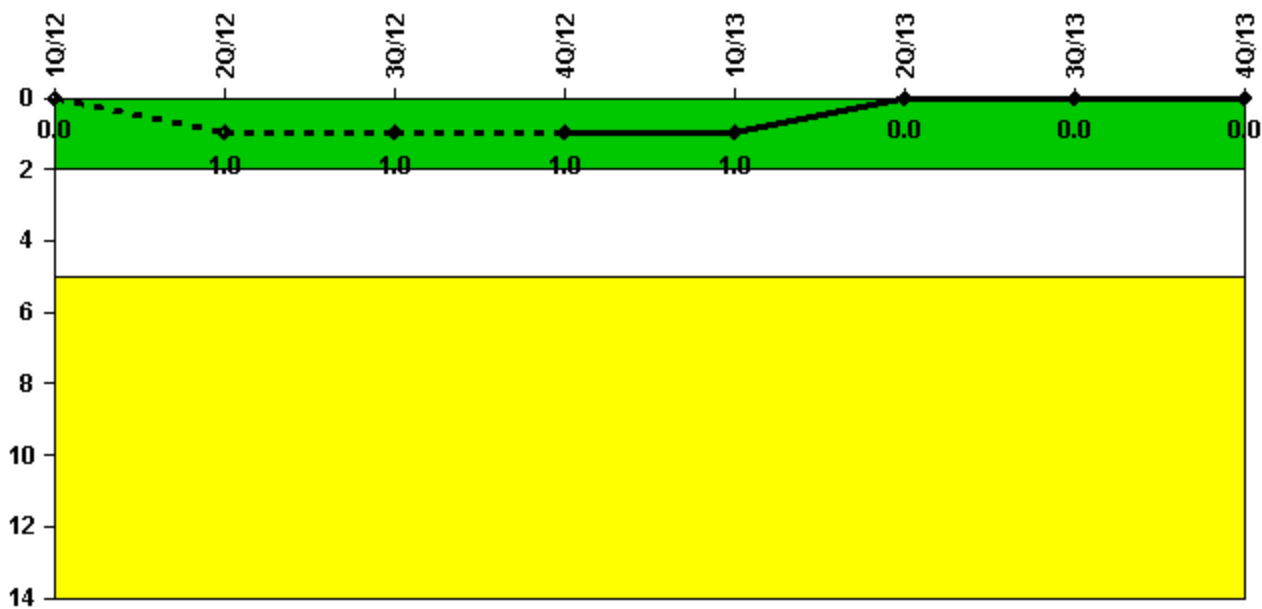
Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	129	128	129	128	129	128	129	129
Total sirens-tests	129	129	129	129	129	128	129	129
Indicator value	99.0%	99.0%	99.8%	99.6%	99.6%	99.8%	99.8%	100.0%

Licensee Comments:

2Q/13: In June, one siren is in an inaccessible area (area uninhabited due to river level) and is without AC power.



### Occupational Exposure Control Effectiveness



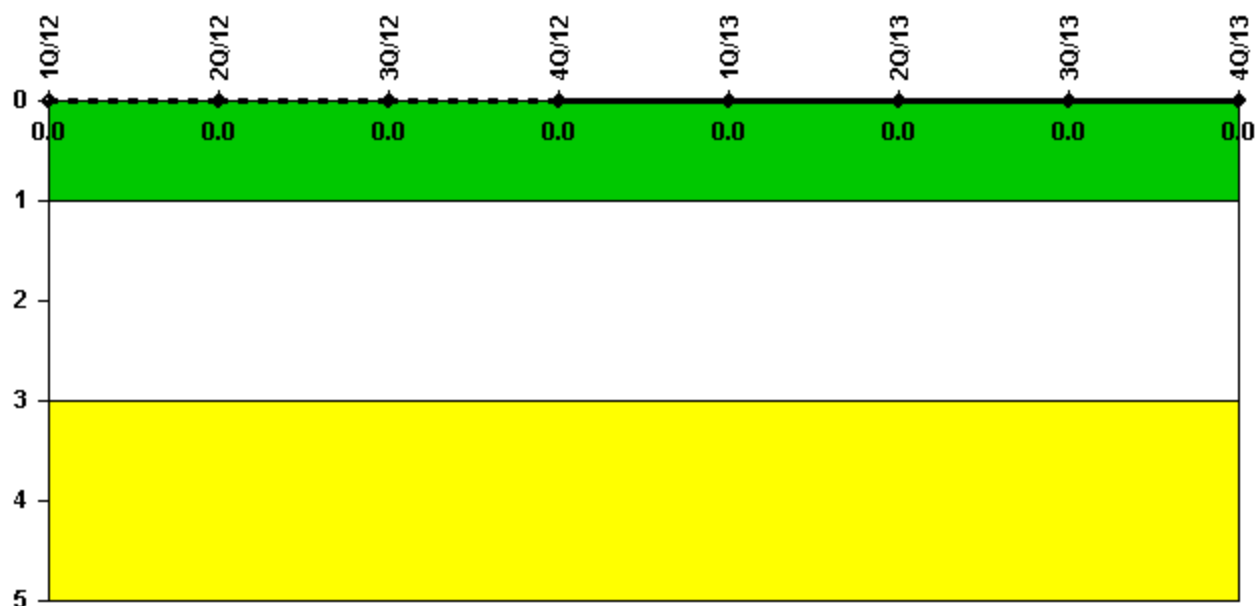
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
High radiation area occurrences	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>1</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	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: January 22, 2014*

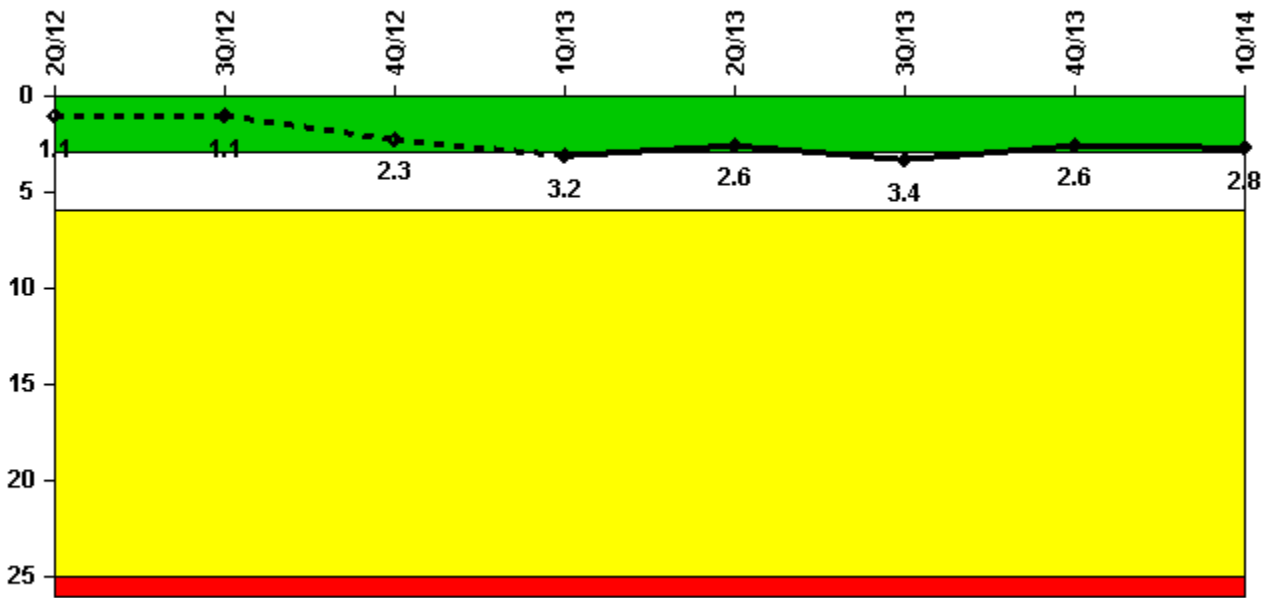
# Grand Gulf 1

## 1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: CR-GGN-2014-514, Unavailability of the RCIC was revised from planned to unplanned.

**Unplanned Scrams per 7000 Critical Hrs**



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

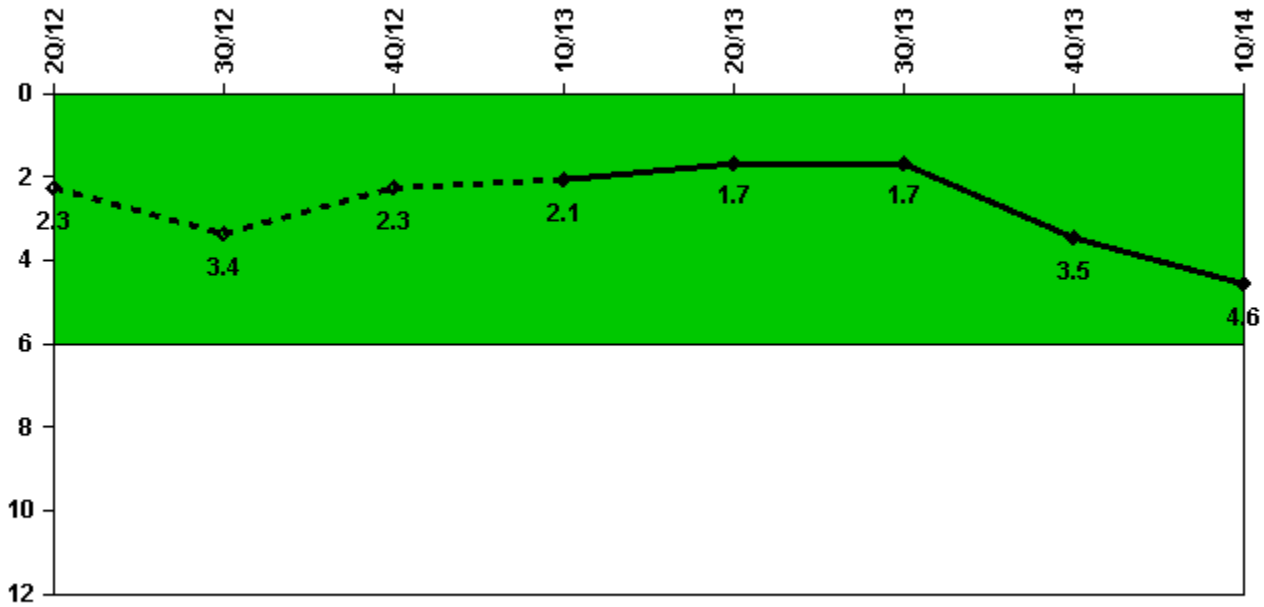
### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned scrams	0	0	1.0	2.0	0	1.0	0	2.0
Critical hours	521.5	2208.0	2033.0	1780.9	2184.0	2119.3	1994.1	1238.2
<b>Indicator value</b>	<b>1.1</b>	<b>1.1</b>	<b>2.3</b>	<b>3.2</b>	<b>2.6</b>	<b>3.4</b>	<b>2.6</b>	<b>2.8</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 and 3/29/14 included in March data.

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

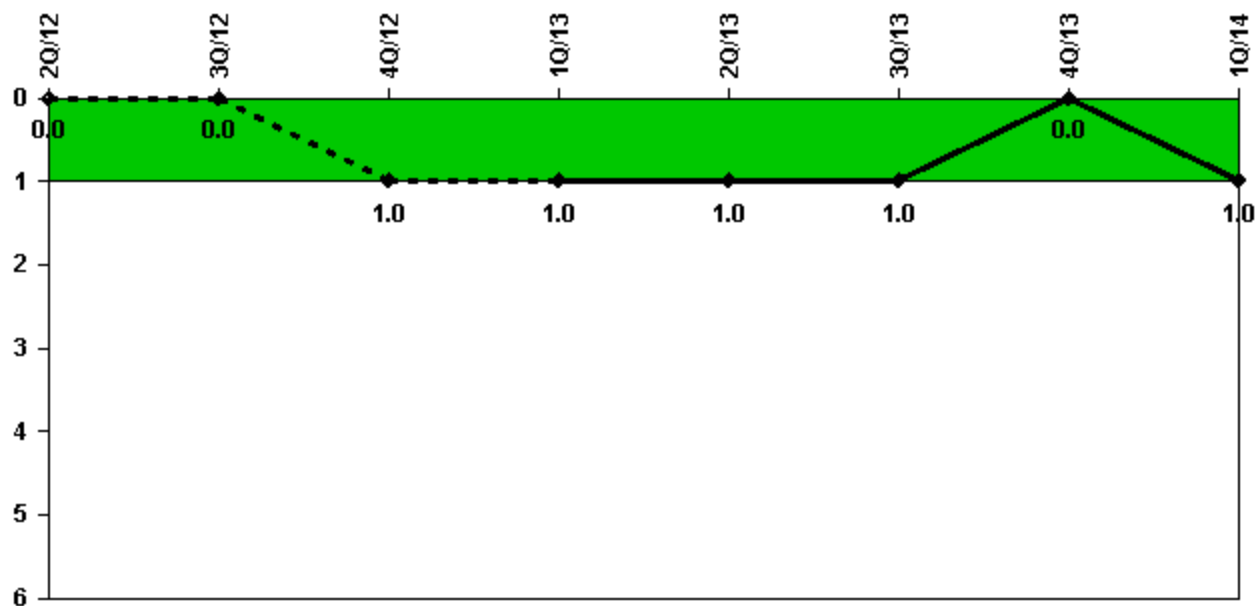
#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned power changes	0	1.0	1.0	0	0	1.0	3.0	1.0
Critical hours	521.5	2208.0	2033.0	1780.9	2184.0	2119.3	1994.1	1238.2
<b>Indicator value</b>	<b>2.3</b>	<b>3.4</b>	<b>2.3</b>	<b>2.1</b>	<b>1.7</b>	<b>1.7</b>	<b>3.5</b>	<b>4.6</b>

Licensee Comments:

1Q/14: Unplanned power change for TVR issue included in March data.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

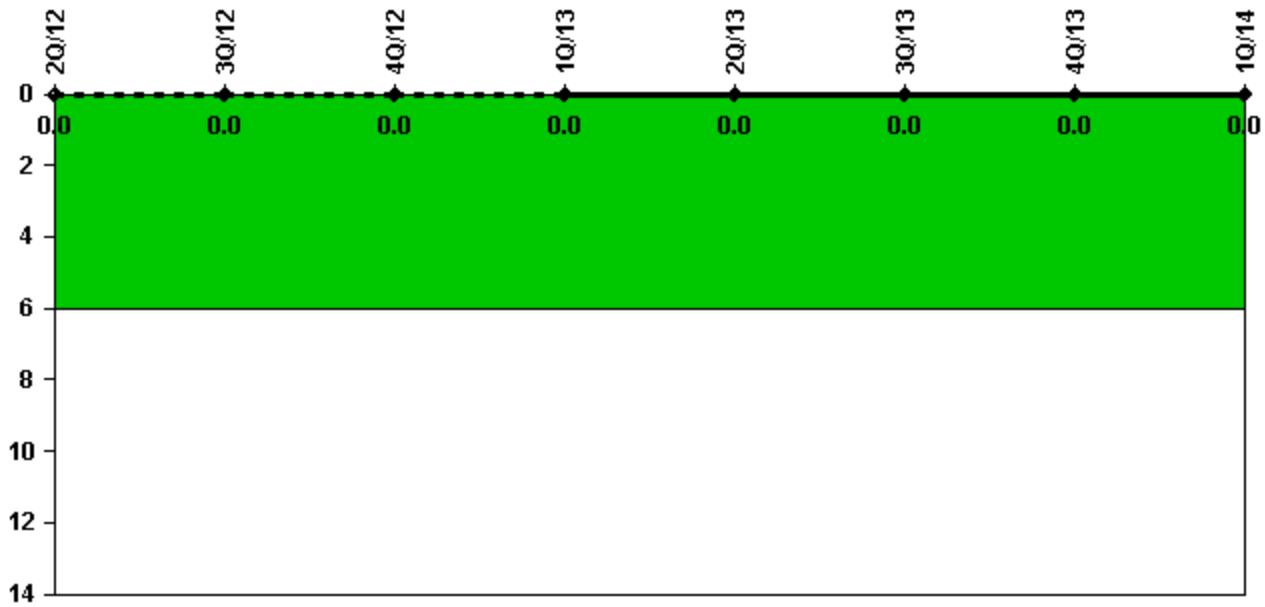
#### Notes

Unplanned Scrams with Complications	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Scrams with complications	0	0	1.0	0	0	0	0	1.0
Indicator value	0.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 with Complications included in March data.

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

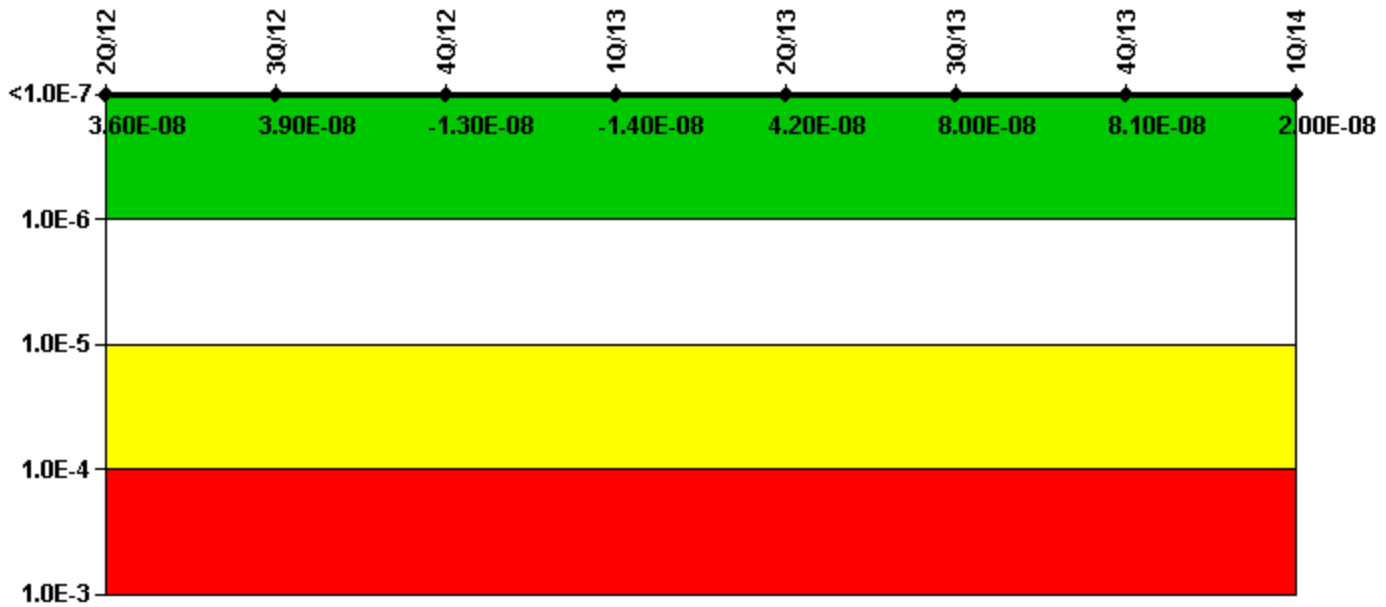
#### Notes

Safety System Functional Failures (BWR)	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Safety System Functional Failures	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:

4Q/13: No LERs for November 2013

### Mitigating Systems Performance Index, Emergency AC Power System



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

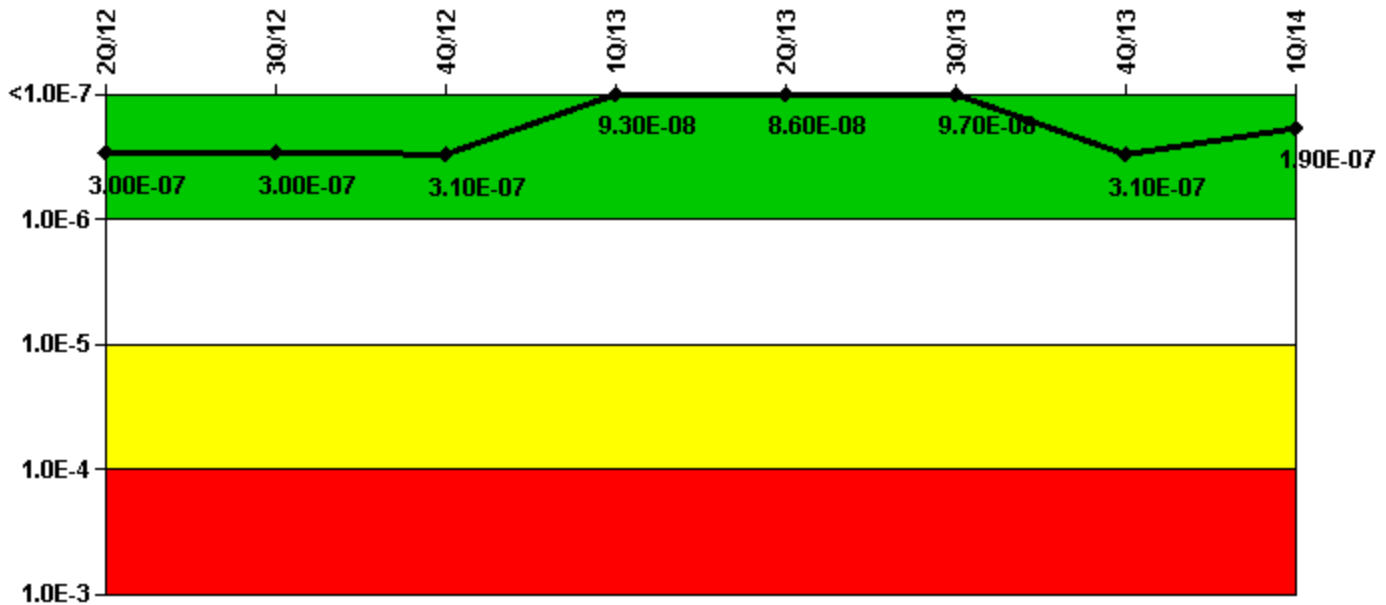
#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI ( $\Delta$ CDF)	-7.51E-09	-7.51E-09	-8.84E-09	-8.84E-09	9.33E-09	1.26E-08	1.31E-08	2.39E-09
URI ( $\Delta$ CDF)	4.39E-08	4.63E-08	-3.73E-09	-5.22E-09	3.25E-08	6.77E-08	6.77E-08	1.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.60E-08	3.90E-08	-1.30E-08	-1.40E-08	4.20E-08	8.00E-08	8.10E-08	2.00E-08

Licensee Comments: none



### Mitigating Systems Performance Index, High Pressure Injection System



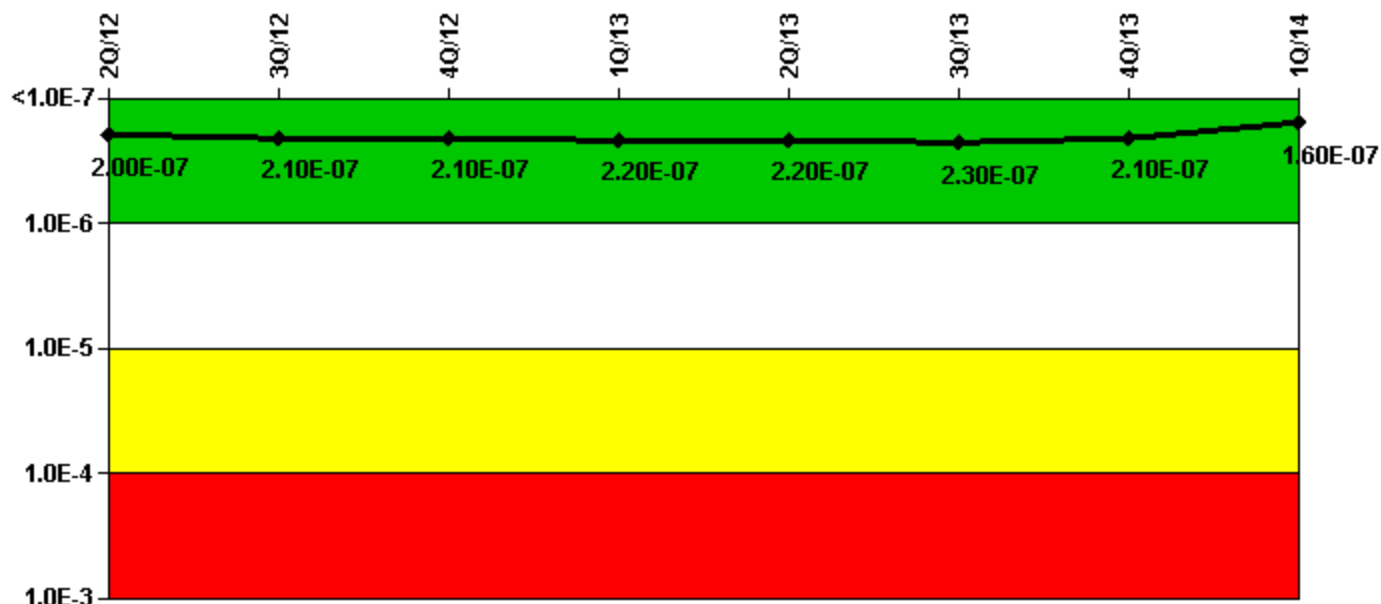
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	2.96E-07	2.96E-07	3.01E-07	7.24E-08	6.35E-08	7.95E-08	2.93E-07	2.86E-07
URI (ΔCDF)	8.31E-09	8.44E-09	1.26E-08	2.05E-08	2.25E-08	1.80E-08	1.60E-08	-9.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.00E-07	3.00E-07	3.10E-07	9.30E-08	8.60E-08	9.70E-08	3.10E-07	1.90E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



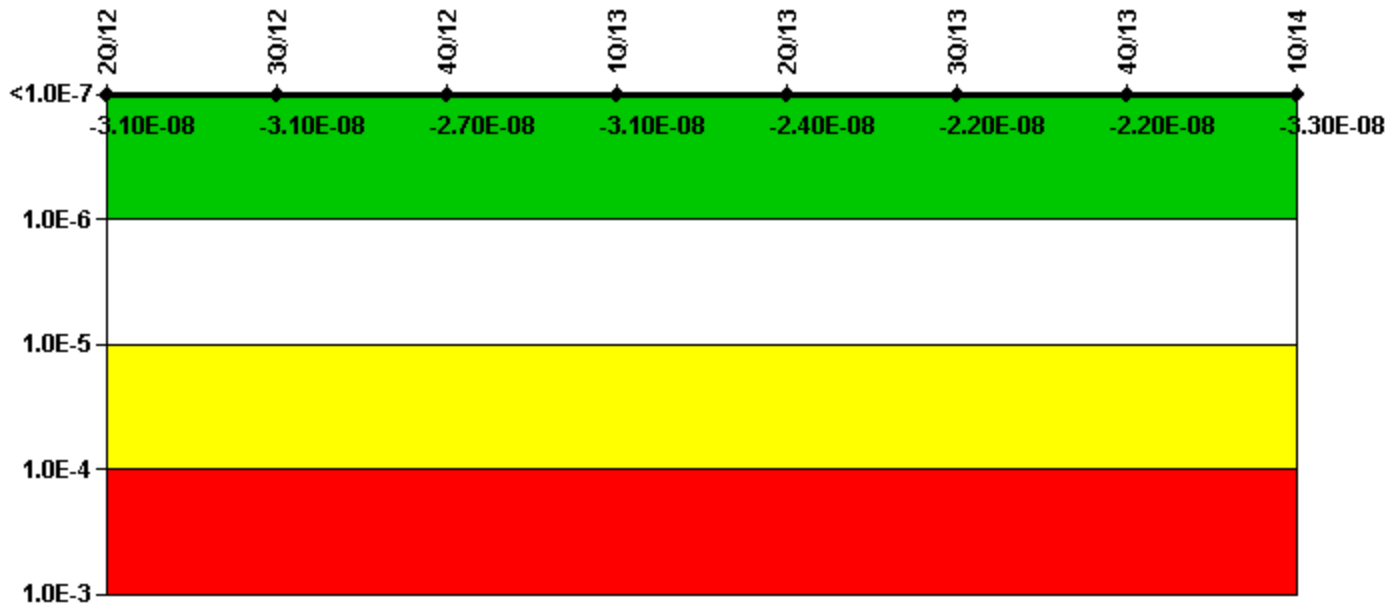
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI ( $\Delta$ CDF)	-4.37E-08	-4.37E-08	-4.36E-08	3.57E-09	1.65E-09	1.89E-09	2.81E-09	7.21E-09
URI ( $\Delta$ CDF)	2.43E-07	2.52E-07	2.51E-07	2.13E-07	2.14E-07	2.32E-07	2.05E-07	1.49E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	2.10E-07	2.10E-07	2.20E-07	2.20E-07	2.30E-07	2.10E-07	1.60E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



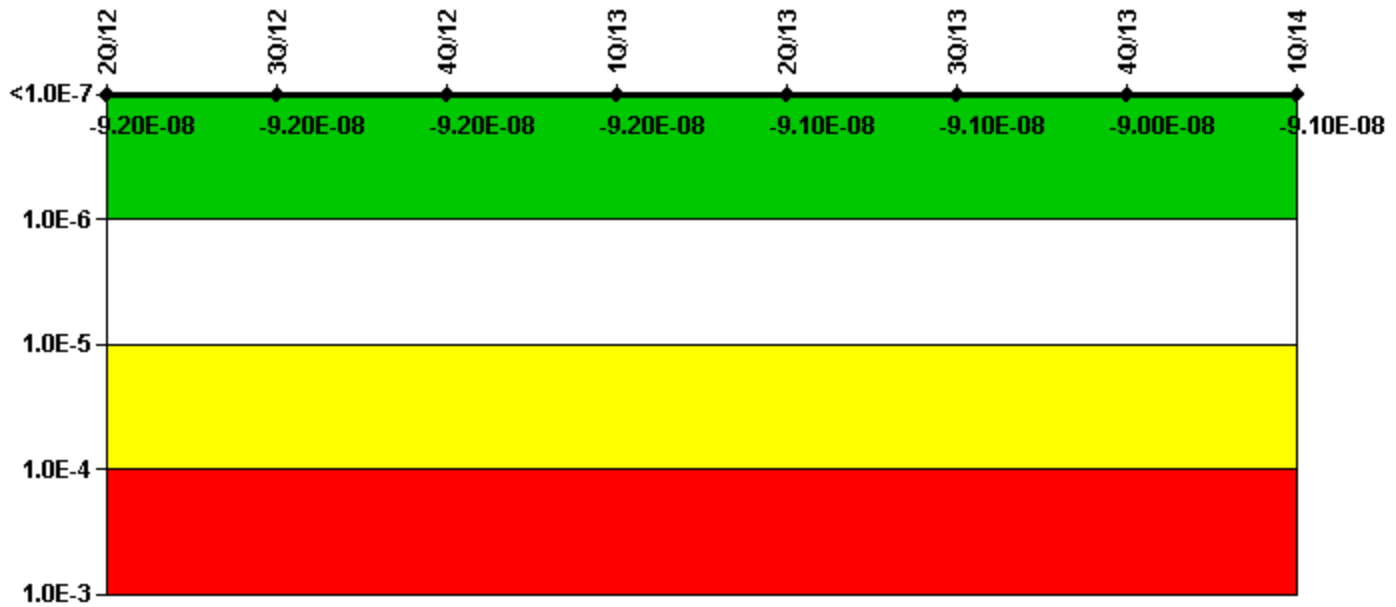
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI ( $\Delta$ CDF)	-8.56E-09	-8.56E-09	-4.75E-09	-8.56E-09	-2.03E-09	-4.69E-10	3.02E-10	-8.56E-09
URI ( $\Delta$ CDF)	-2.27E-08	-2.23E-08	-2.25E-08	-2.28E-08	-2.16E-08	-2.12E-08	-2.18E-08	-2.44E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.10E-08	-3.10E-08	-2.70E-08	-3.10E-08	-2.40E-08	-2.20E-08	-2.20E-08	-3.30E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



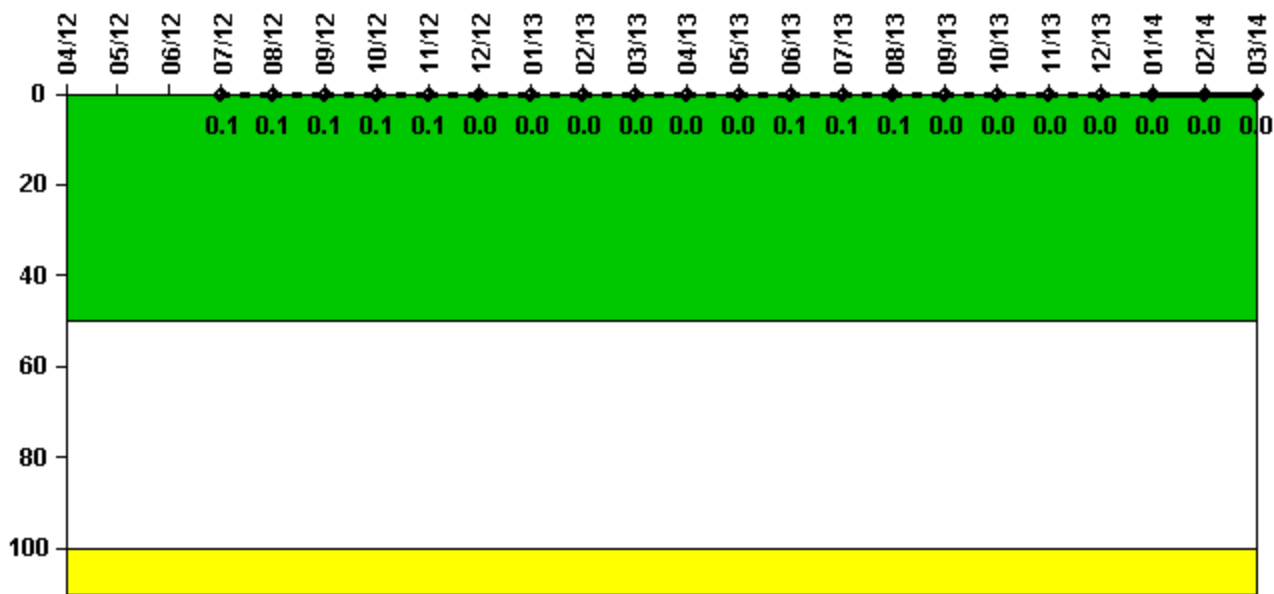
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.50E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.06E-08	-9.04E-08	-9.06E-08	-9.00E-08	-8.93E-08	-8.90E-08	-8.88E-08	-8.97E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.10E-08	-9.10E-08	-9.00E-08	-9.10E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

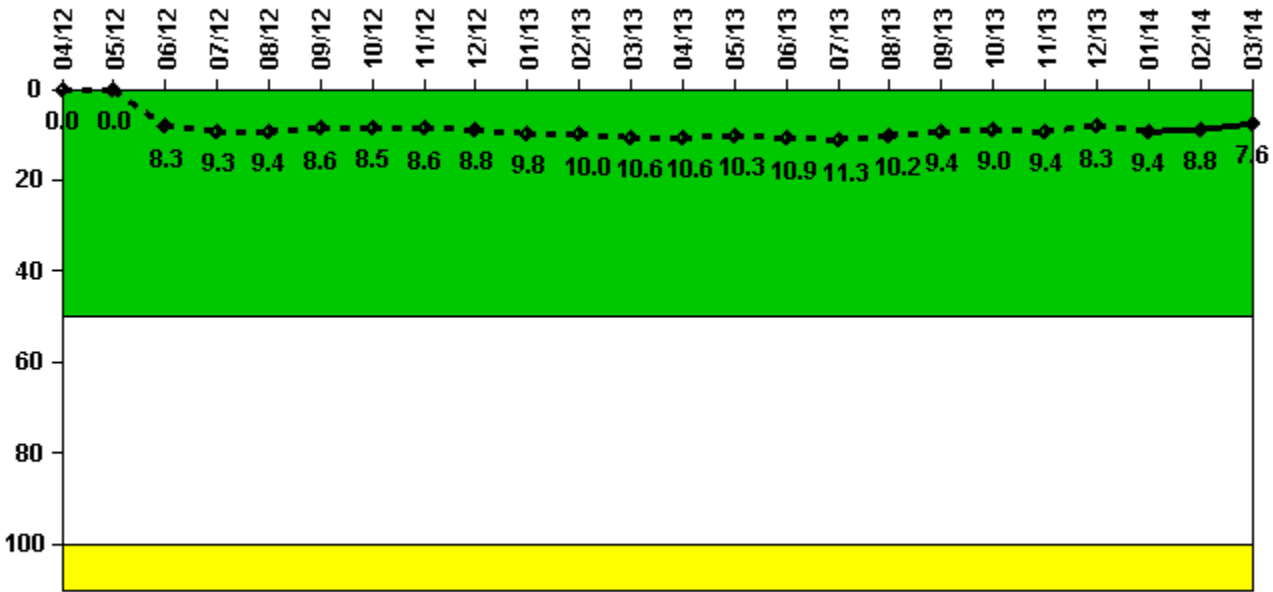
#### Notes

Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	N/A	N/A	N/A	0.000132	0.000170	0.000183	0.000206	0.000157	0.000082	0.000057	0.000048	0.000059
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	N/A	N/A	N/A	0.1	0.1	0.1	0.1	0.1	0	0	0	0
Reactor Coolant System Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.000090	0.000086	0.000105	0.000105	0.000101	0.000089	0.000092	0.000026	0.000049	0.000055	0.000055	0.000084
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	0.1	0.1	0.1	0	0	0	0	0	0	0

Licensee Comments:

6/13: June only one Reactor Water Clean-Up (RWCU) Filter in-service.

### Reactor Coolant System Leakage



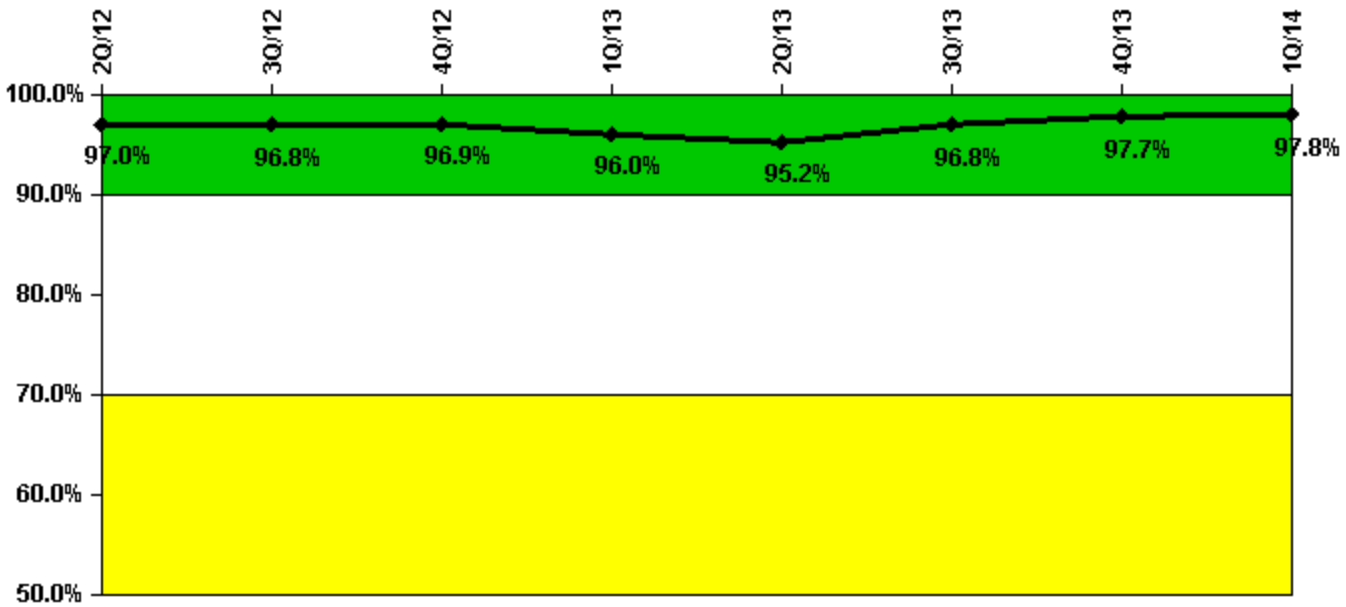
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum leakage	0	0	2.500	2.780	2.820	2.580	2.560	2.570	2.650	2.950	2.990	3.180
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>8.3</b>	<b>9.3</b>	<b>9.4</b>	<b>8.6</b>	<b>8.5</b>	<b>8.6</b>	<b>8.8</b>	<b>9.8</b>	<b>10.0</b>	<b>10.6</b>
Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	3.180	3.090	3.270	3.400	3.050	2.810	2.690	2.810	2.500	2.810	2.640	2.280
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>10.6</b>	<b>10.3</b>	<b>10.9</b>	<b>11.3</b>	<b>10.2</b>	<b>9.4</b>	<b>9.0</b>	<b>9.4</b>	<b>8.3</b>	<b>9.4</b>	<b>8.8</b>	<b>7.6</b>

Licensee Comments: none

### Drill/Exercise Performance



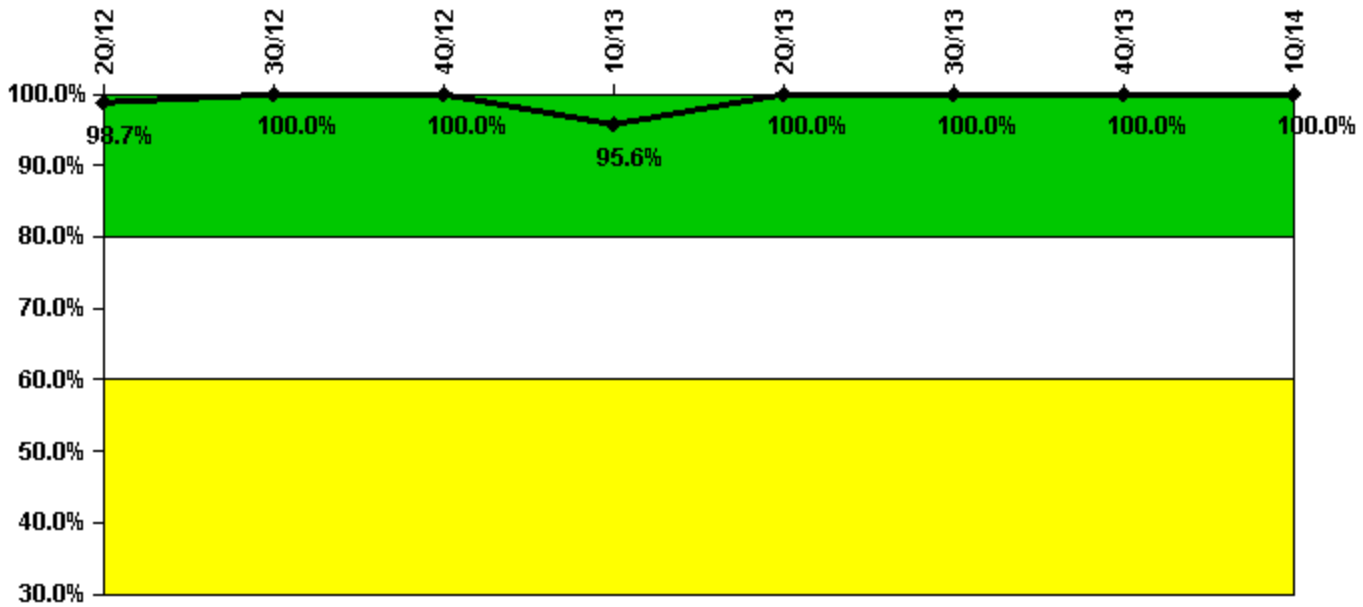
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful opportunities	9.0	21.0	27.0	9.0	17.0	23.0	66.0	10.0
Total opportunities	9.0	22.0	28.0	10.0	18.0	23.0	66.0	10.0
Indicator value	97.0%	96.8%	96.9%	96.0%	95.2%	96.8%	97.7%	97.8%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Participating Key personnel	74.0	72.0	70.0	65.0	67.0	66.0	74.0	68.0
Total Key personnel	75.0	72.0	70.0	68.0	67.0	66.0	74.0	68.0
Indicator value	98.7%	100.0%	100.0%	95.6%	100.0%	100.0%	100.0%	100.0%

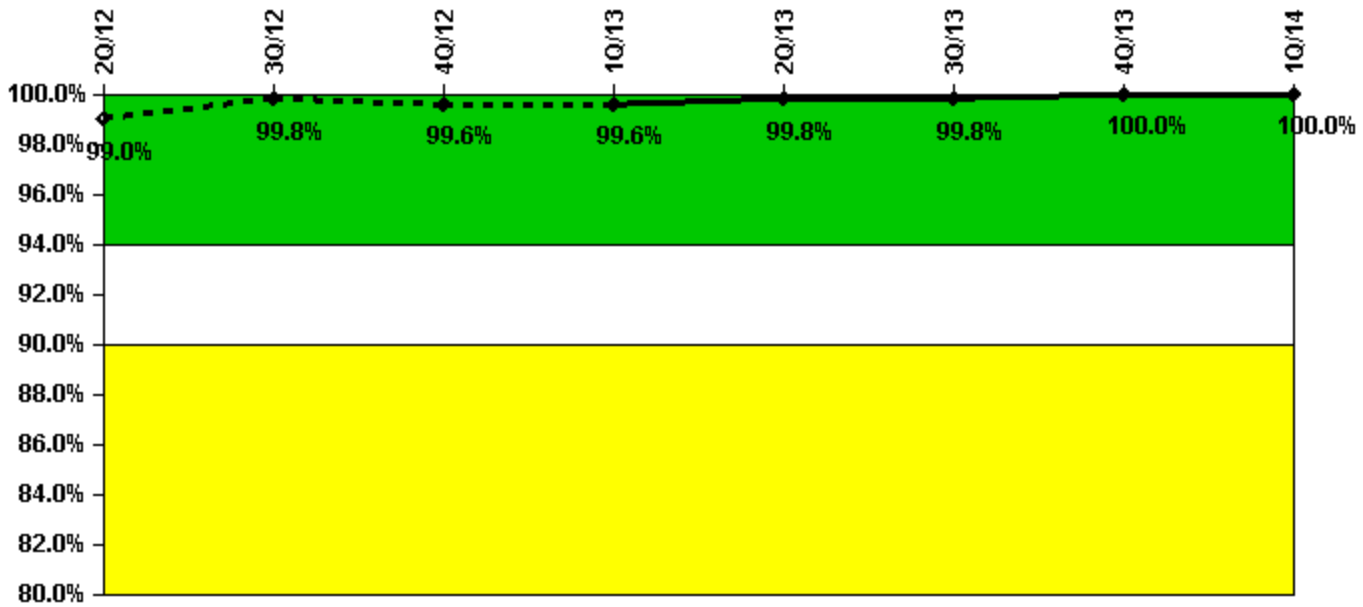
#### Licensee Comments:

2Q/13: First Quarter 2013 revised do to a retirement in March 2013 and not noticed until July 203. CR-GGN-2013-4296 written to address issue. This change does not affect the color of the indicator (green).

2Q/12: Participating key personnel revised from 68 to 74 and Total Key personnel revised from 69 to 75 for this quarterly indicator. CR-GGN-2012-11330. No change in indicator color.



### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

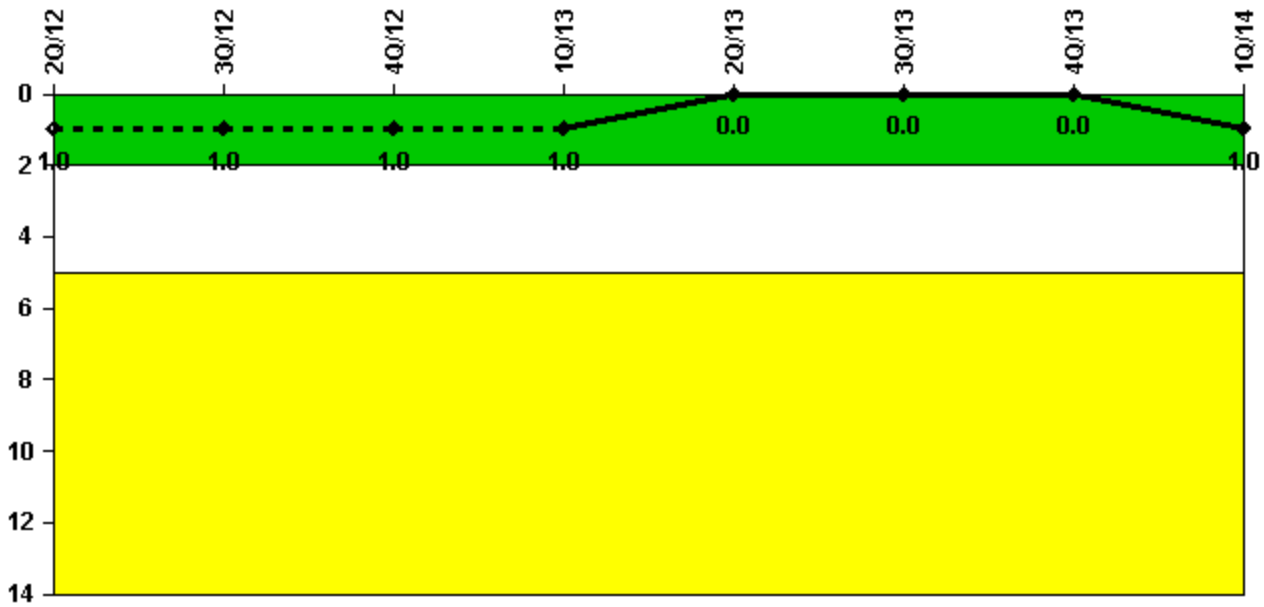
#### Notes

Alert & Notification System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful siren-tests	128	129	128	129	128	129	129	129
Total sirens-tests	129	129	129	129	128	129	129	129
Indicator value	99.0%	99.8%	99.6%	99.6%	99.8%	99.8%	100.0%	100.0%

Licensee Comments:

2Q/13: In June, one siren is in an inaccessible area (area uninhabited due to river level) and is without AC power.

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

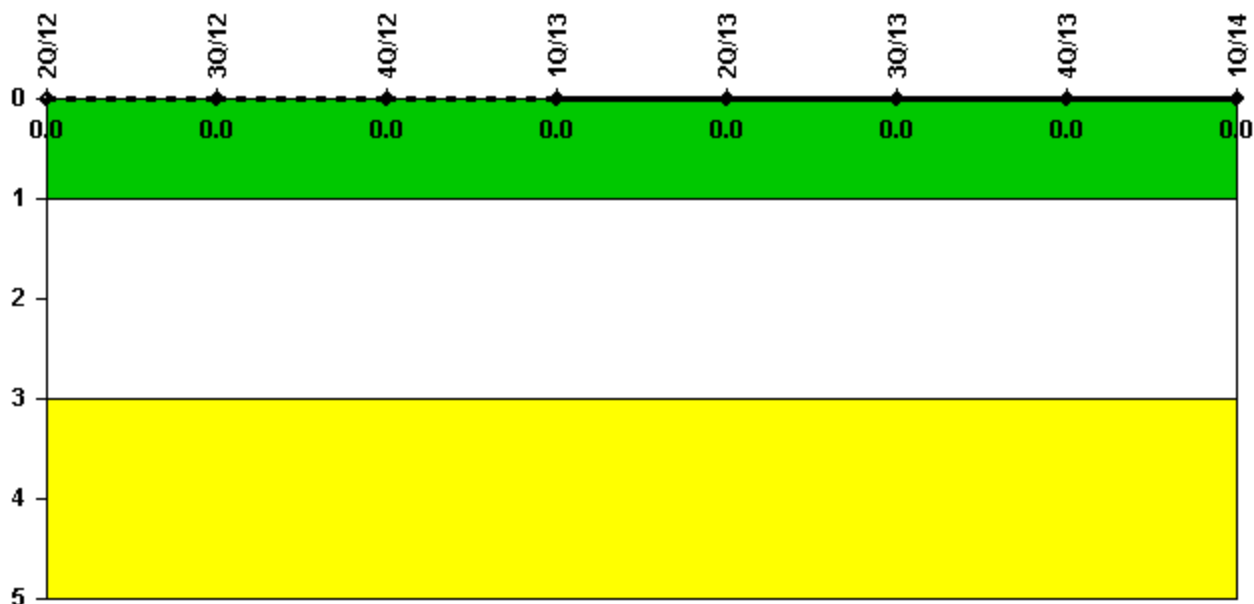
#### Notes

Occupational Exposure Control Effectiveness	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
High radiation area occurrences	1	0	0	0	0	0	0	1
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>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>

Licensee Comments:

1Q/14: March data includes event for a bucket containing irradiated components being lifted without proper controls being in place.

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: April 23, 2014*

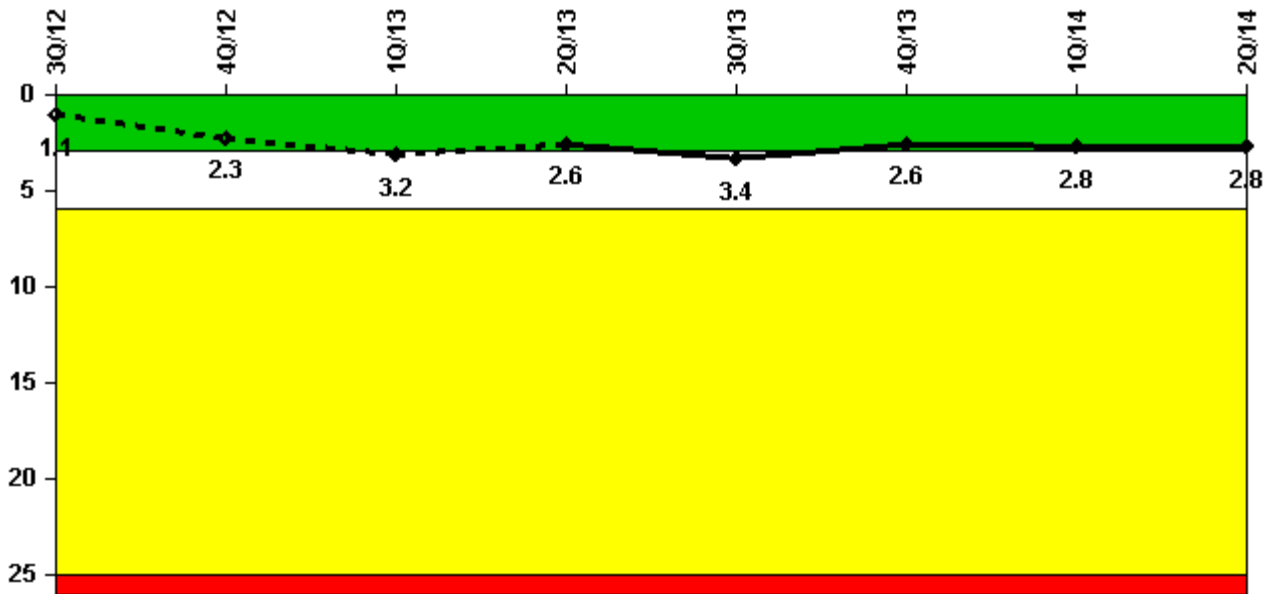
# Grand Gulf 1

## 2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

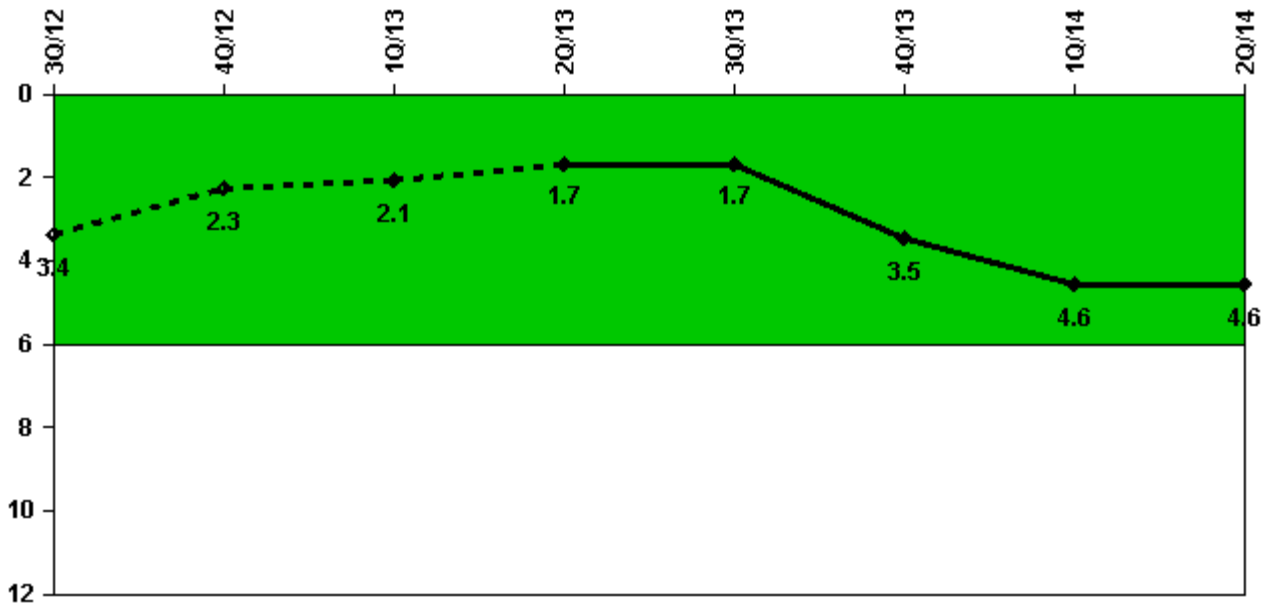
### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	0	1.0	2.0	0	1.0	0	2.0	0
Critical hours	2208.0	2033.0	1780.9	2184.0	2119.3	1994.1	1238.2	2184.0
<b>Indicator value</b>	<b>1.1</b>	<b>2.3</b>	<b>3.2</b>	<b>2.6</b>	<b>3.4</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 and 3/29/14 included in March data.

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

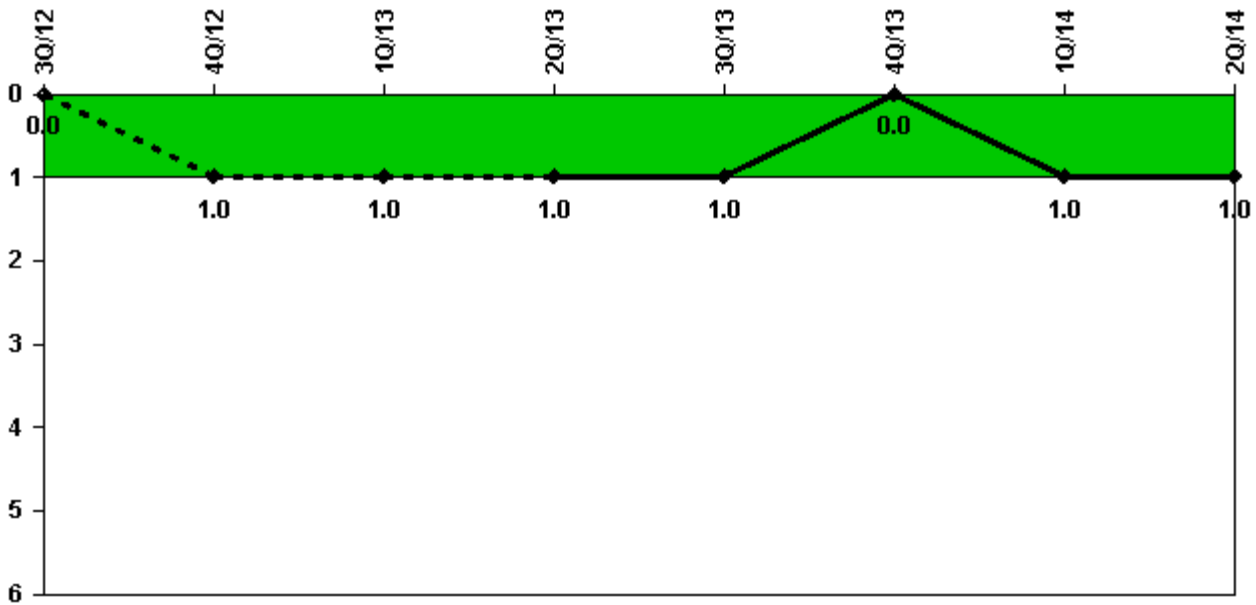
#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	1.0	1.0	0	0	1.0	3.0	1.0	0
Critical hours	2208.0	2033.0	1780.9	2184.0	2119.3	1994.1	1238.2	2184.0
<b>Indicator value</b>	<b>3.4</b>	<b>2.3</b>	<b>2.1</b>	<b>1.7</b>	<b>1.7</b>	<b>3.5</b>	<b>4.6</b>	<b>4.6</b>

Licensee Comments:

1Q/14: Unplanned power change for TVR issue included in March data.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

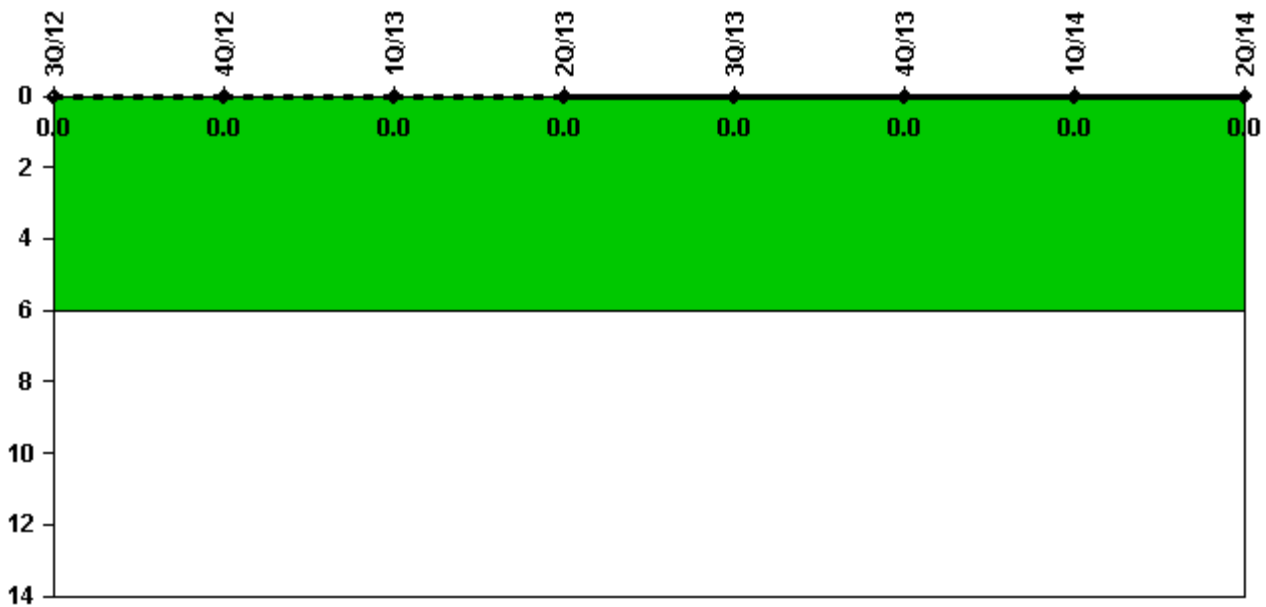
#### Notes

Unplanned Scrams with Complications	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Scrams with complications	0	1.0	0	0	0	0	1.0	0
Indicator value	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 with Complications included in March data.

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

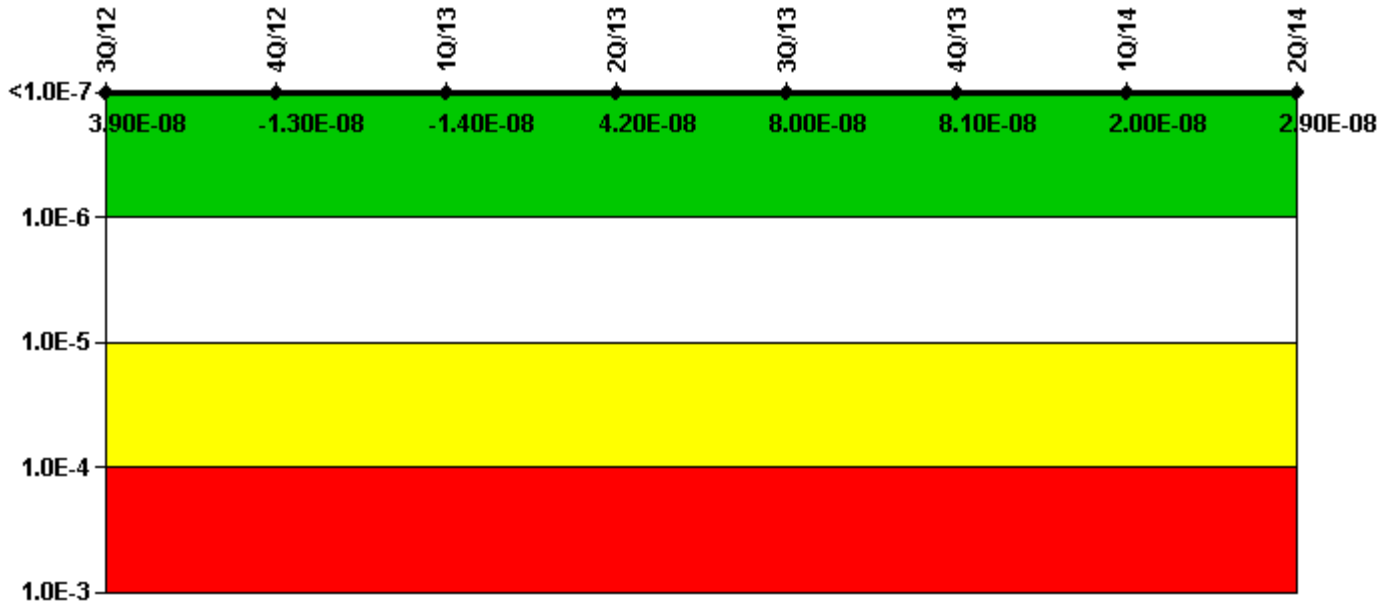
Safety System Functional Failures (BWR)	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Safety System Functional Failures	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments:

4Q/13: No LERs for November 2013



### Mitigating Systems Performance Index, Emergency AC Power System



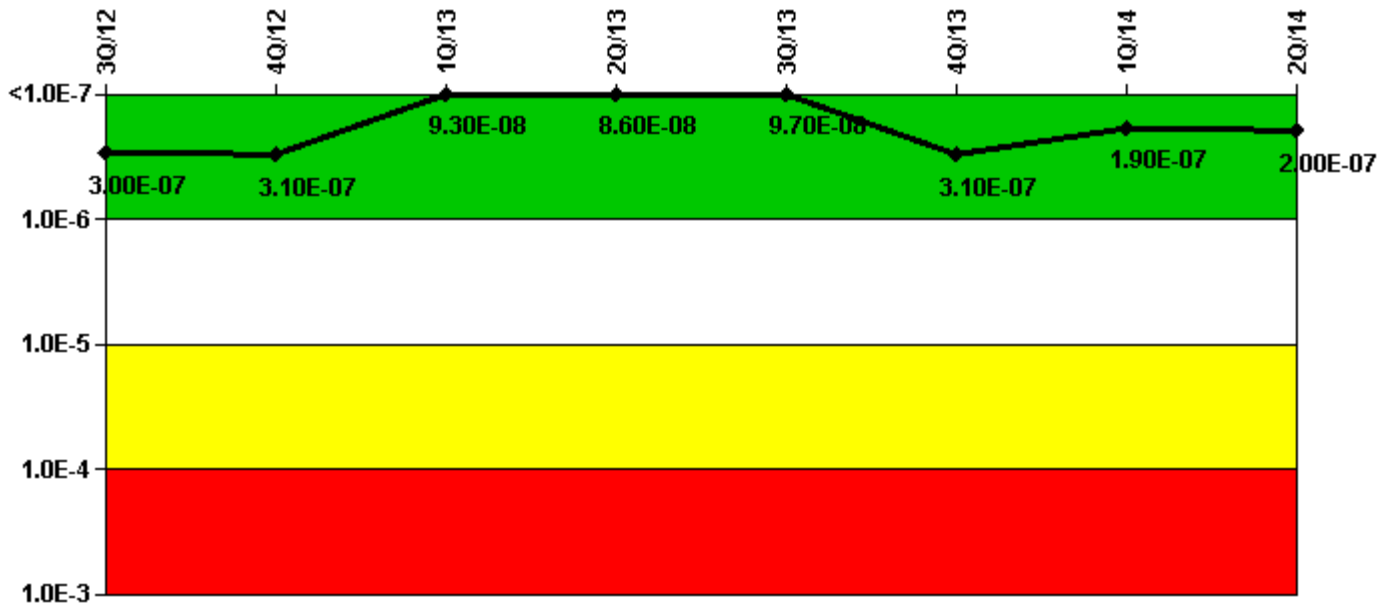
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI ( $\Delta$ CDF)	-7.51E-09	-8.84E-09	-8.84E-09	9.33E-09	1.26E-08	1.31E-08	2.39E-09	1.12E-08
URI ( $\Delta$ CDF)	4.63E-08	-3.73E-09	-5.22E-09	3.25E-08	6.77E-08	6.77E-08	1.78E-08	1.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	<b>3.90E-08</b>	<b>-1.30E-08</b>	<b>-1.40E-08</b>	<b>4.20E-08</b>	<b>8.00E-08</b>	<b>8.10E-08</b>	<b>2.00E-08</b>	<b>2.90E-08</b>

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



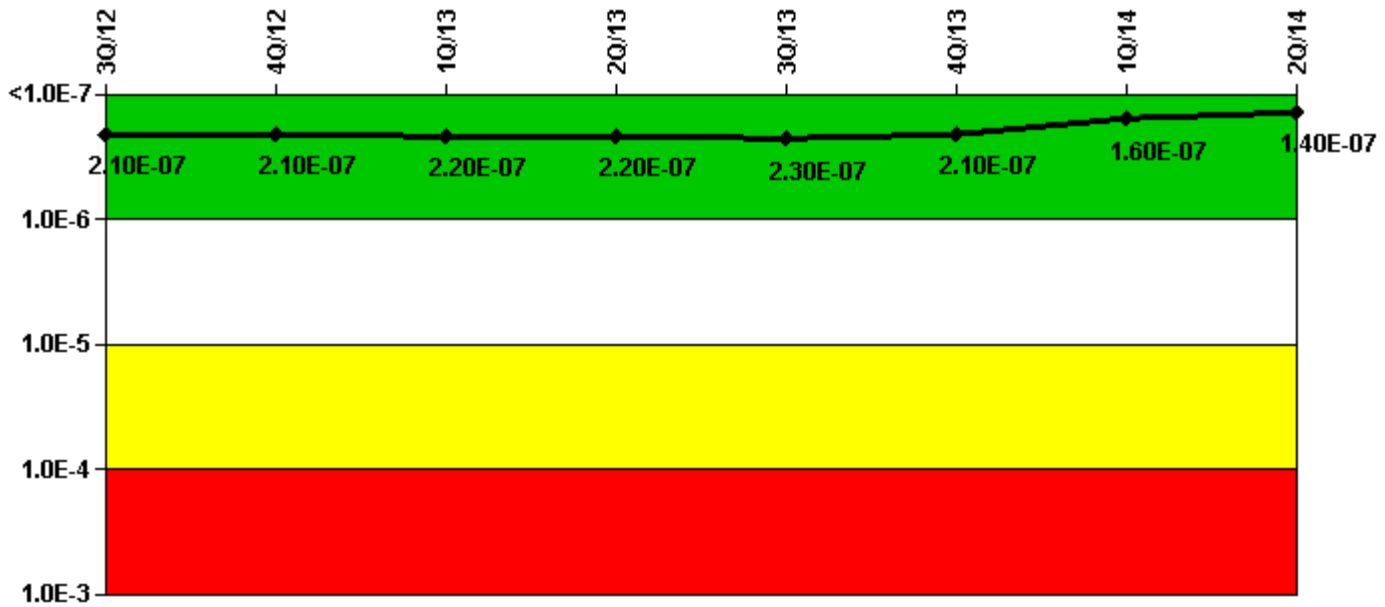
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	2.96E-07	3.01E-07	7.24E-08	6.35E-08	7.95E-08	2.93E-07	2.86E-07	2.85E-07
URI (ΔCDF)	8.44E-09	1.26E-08	2.05E-08	2.25E-08	1.80E-08	1.60E-08	-9.12E-08	-8.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.00E-07	3.10E-07	9.30E-08	8.60E-08	9.70E-08	3.10E-07	1.90E-07	2.00E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



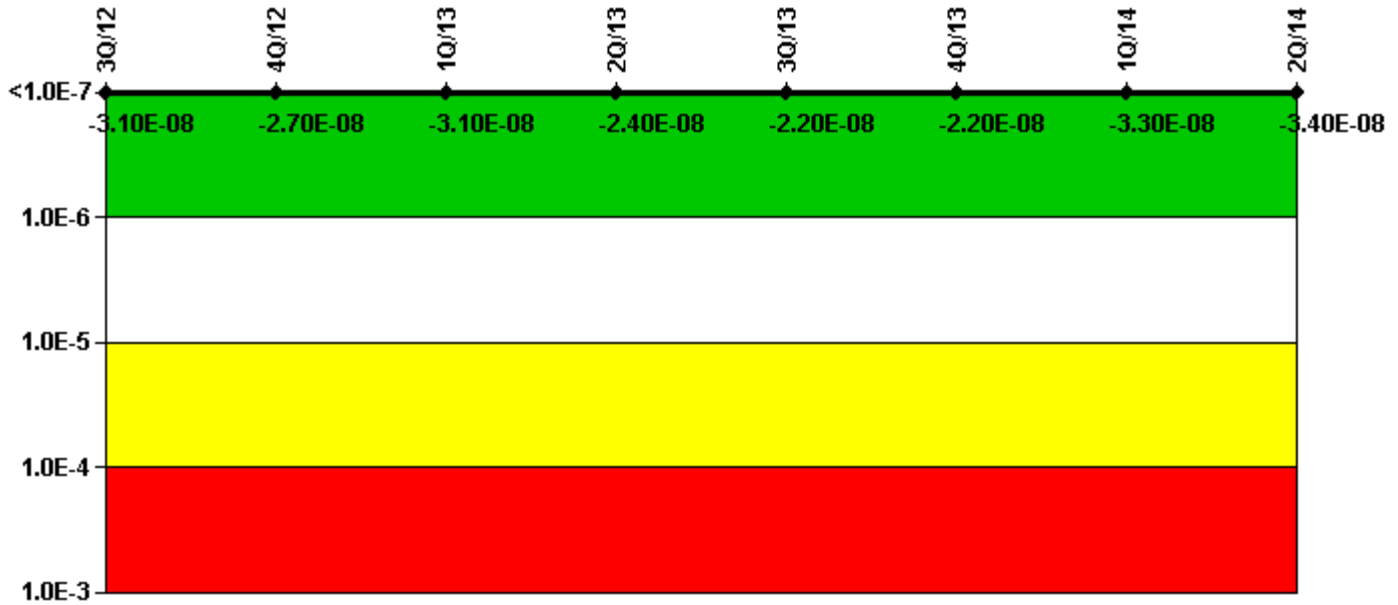
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI ( $\Delta$ CDF)	-4.37E-08	-4.36E-08	3.57E-09	1.65E-09	1.89E-09	2.81E-09	7.21E-09	7.21E-09
URI ( $\Delta$ CDF)	2.52E-07	2.51E-07	2.13E-07	2.14E-07	2.32E-07	2.05E-07	1.49E-07	1.28E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.10E-07	2.10E-07	2.20E-07	2.20E-07	2.30E-07	2.10E-07	1.60E-07	1.40E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



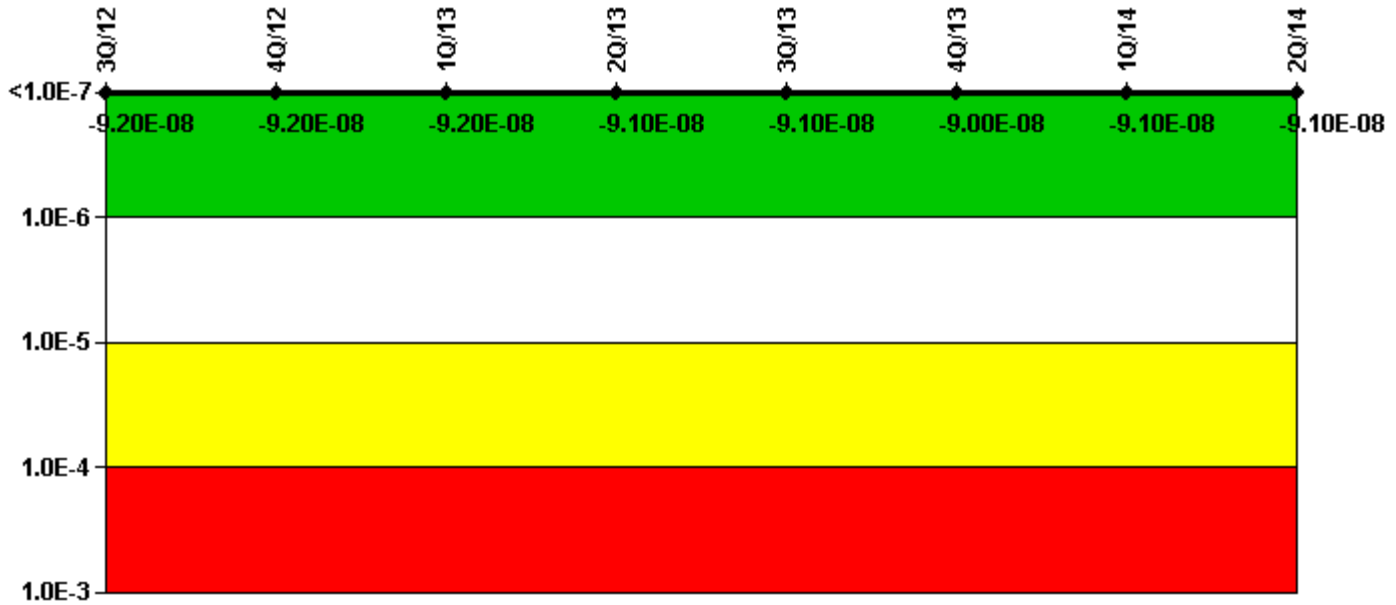
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI ( $\Delta$ CDF)	-8.56E-09	-4.75E-09	-8.56E-09	-2.03E-09	-4.69E-10	3.02E-10	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.23E-08	-2.25E-08	-2.28E-08	-2.16E-08	-2.12E-08	-2.18E-08	-2.44E-08	-2.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.10E-08	-2.70E-08	-3.10E-08	-2.40E-08	-2.20E-08	-2.20E-08	-3.30E-08	-3.40E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



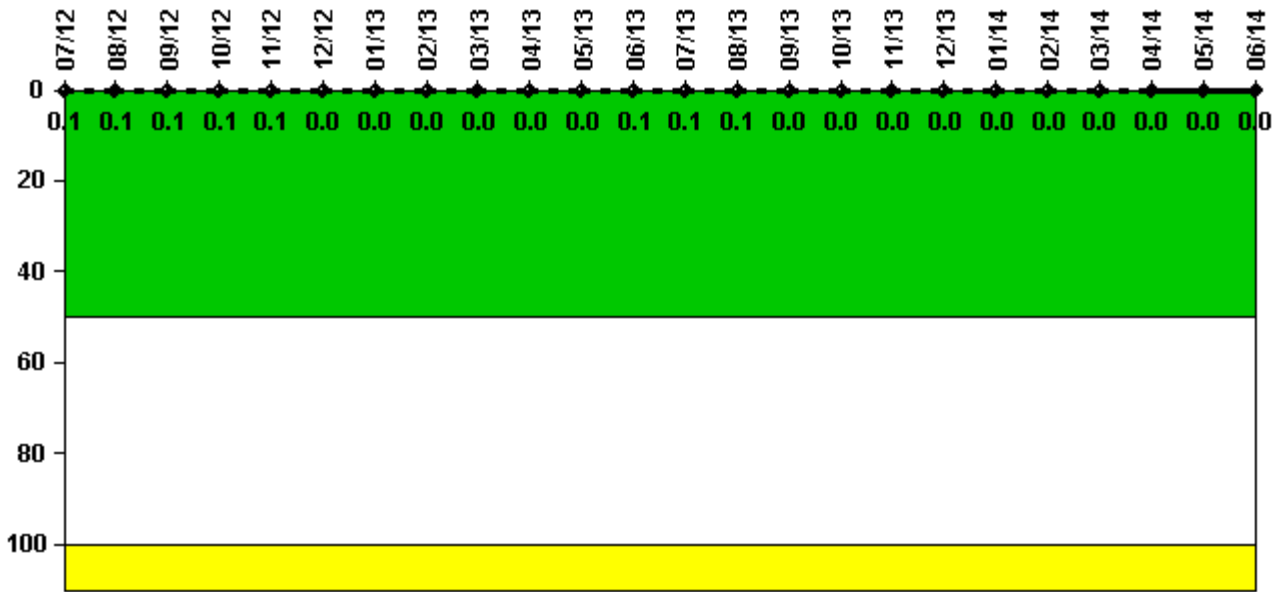
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.50E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.04E-08	-9.06E-08	-9.00E-08	-8.93E-08	-8.90E-08	-8.88E-08	-8.97E-08	-8.97E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-08	-9.20E-08	-9.20E-08	-9.10E-08	-9.10E-08	-9.00E-08	-9.10E-08	-9.10E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum activity	0.000132	0.000170	0.000183	0.000206	0.000157	0.000082	0.000057	0.000048	0.000059	0.000090	0.000086	0.000105
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	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0.1

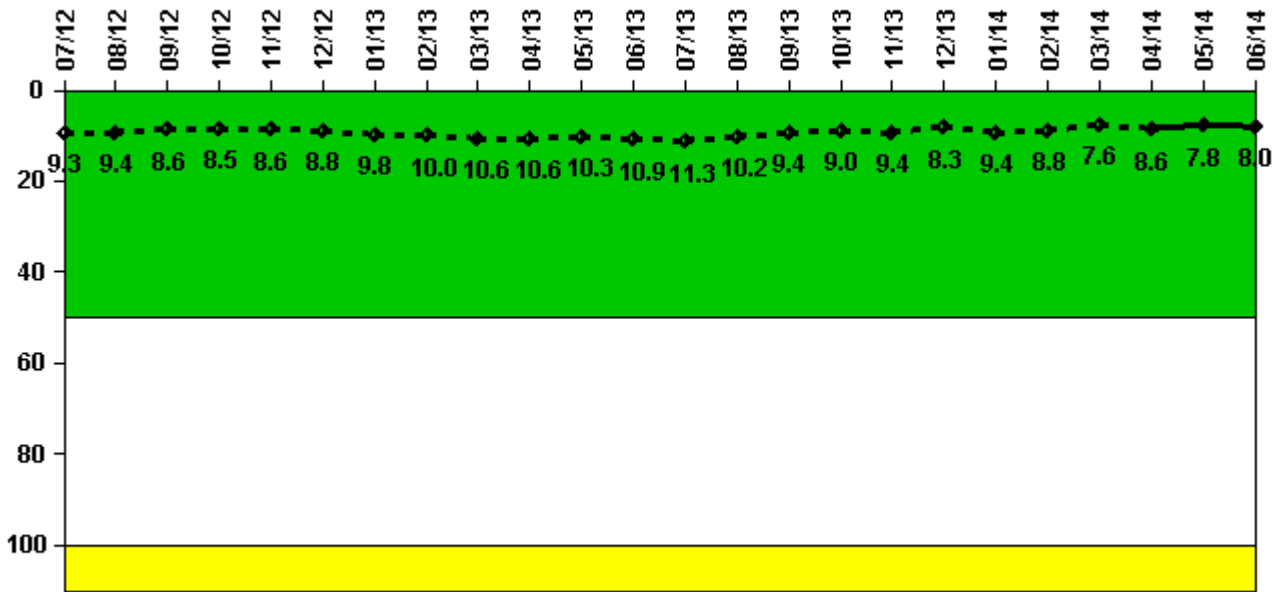
  

Reactor Coolant System Activity	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.000105	0.000101	0.000089	0.000092	0.000026	0.000049	0.000055	0.000055	0.000084	0.000070	0.000044	0.000034
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.1	0	0	0	0	0	0	0	0	0	0

Licensee Comments:

6/13: June only one Reactor Water Clean-Up (RWCU) Filter in-service.

### Reactor Coolant System Leakage



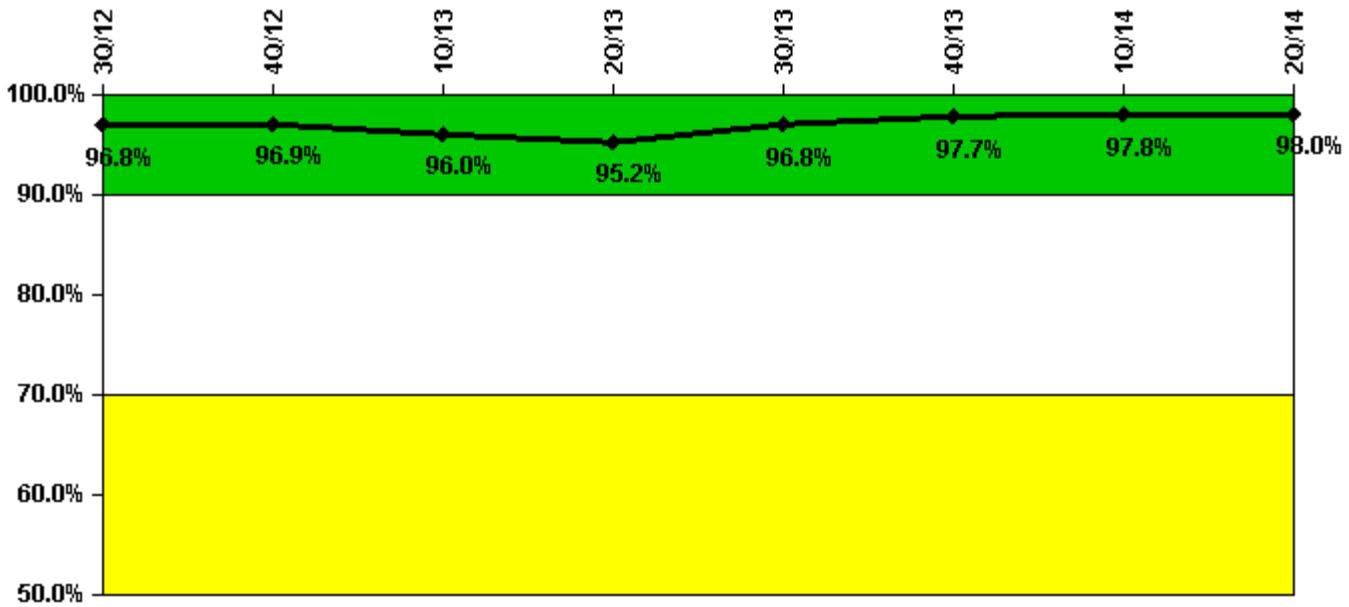
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	2.780	2.820	2.580	2.560	2.570	2.650	2.950	2.990	3.180	3.180	3.090	3.270
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>9.3</b>	<b>9.4</b>	<b>8.6</b>	<b>8.5</b>	<b>8.6</b>	<b>8.8</b>	<b>9.8</b>	<b>10.0</b>	<b>10.6</b>	<b>10.6</b>	<b>10.3</b>	<b>10.9</b>
Reactor Coolant System Leakage	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	3.400	3.050	2.810	2.690	2.810	2.500	2.810	2.640	2.280	2.570	2.350	2.410
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>11.3</b>	<b>10.2</b>	<b>9.4</b>	<b>9.0</b>	<b>9.4</b>	<b>8.3</b>	<b>9.4</b>	<b>8.8</b>	<b>7.6</b>	<b>8.6</b>	<b>7.8</b>	<b>8.0</b>

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

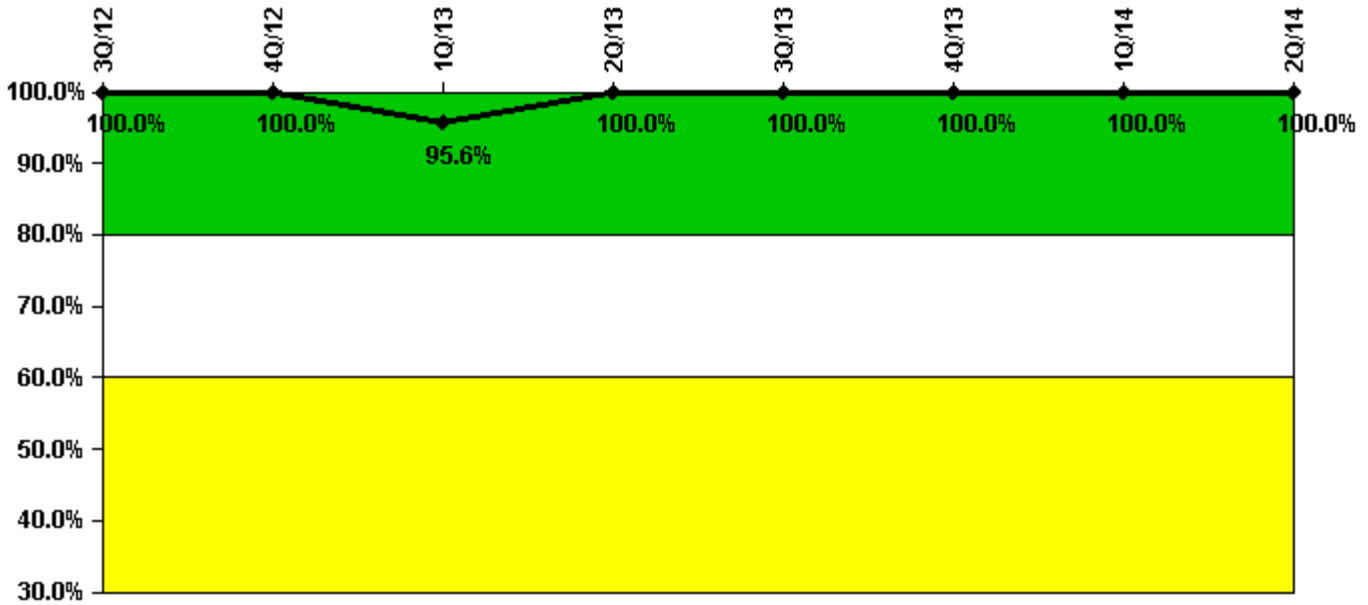
#### Notes

Drill/Exercise Performance	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful opportunities	21.0	27.0	9.0	17.0	23.0	66.0	10.0	24.0
Total opportunities	22.0	28.0	10.0	18.0	23.0	66.0	10.0	24.0
<b>Indicator value</b>	<b>96.8%</b>	<b>96.9%</b>	<b>96.0%</b>	<b>95.2%</b>	<b>96.8%</b>	<b>97.7%</b>	<b>97.8%</b>	<b>98.0%</b>

Licensee Comments: none



### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

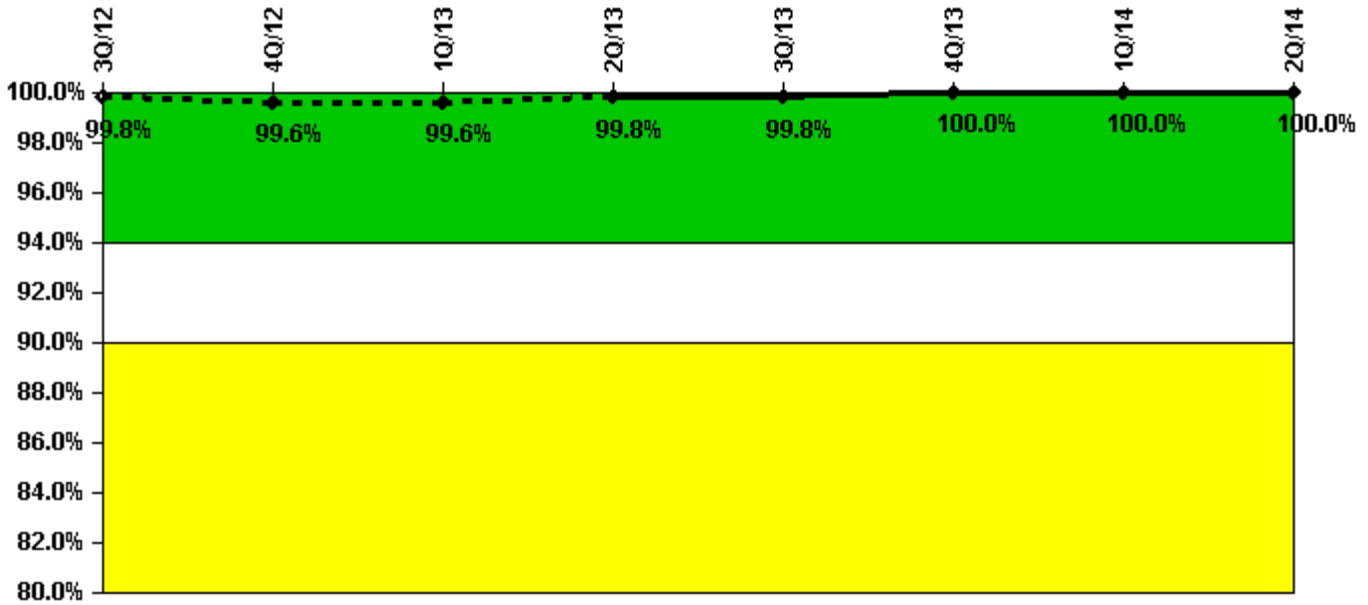
#### Notes

ERO Drill Participation	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Participating Key personnel	72.0	70.0	65.0	67.0	66.0	74.0	68.0	71.0
Total Key personnel	72.0	70.0	68.0	67.0	66.0	74.0	68.0	71.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>95.6%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments:

2Q/13: First Quarter 2013 revised do to a retirement in March 2013 and not noticed until July 203. CR-GGN-2013-4296 written to address issue. This change does not affect the color of the indicator (green).

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

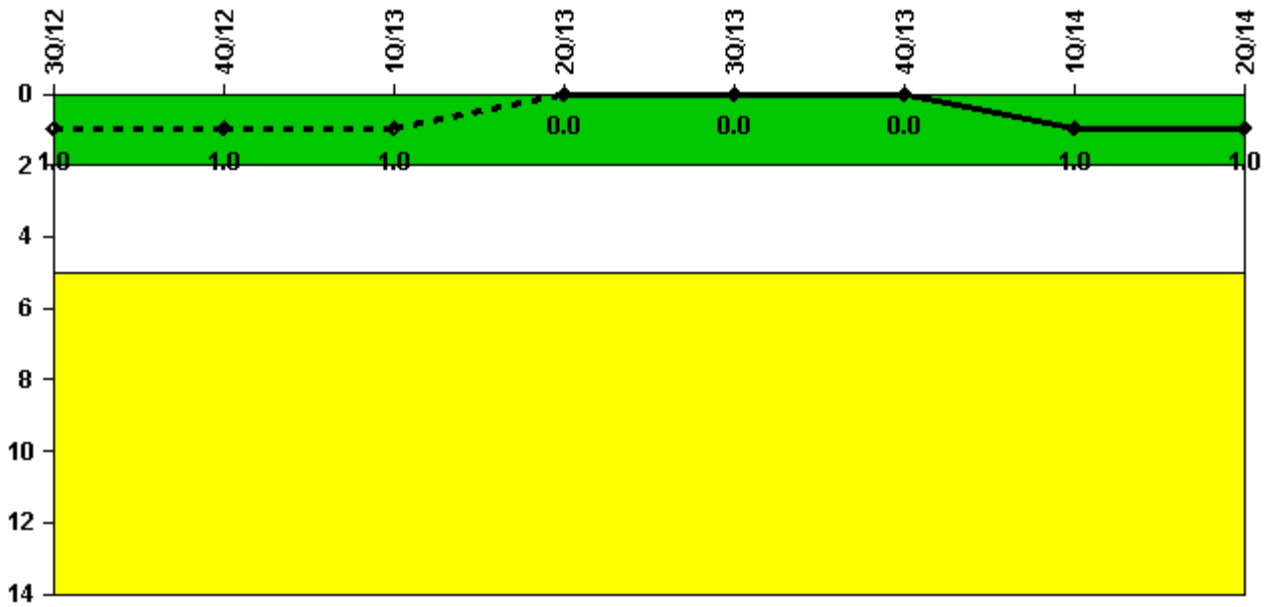
#### Notes

Alert & Notification System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	129	128	129	128	129	129	129	129
Total sirens-tests	129	129	129	128	129	129	129	129
Indicator value	99.8%	99.6%	99.6%	99.8%	99.8%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/13: In June, one siren is in an inaccessible area (area uninhabited due to river level) and is without AC power.

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

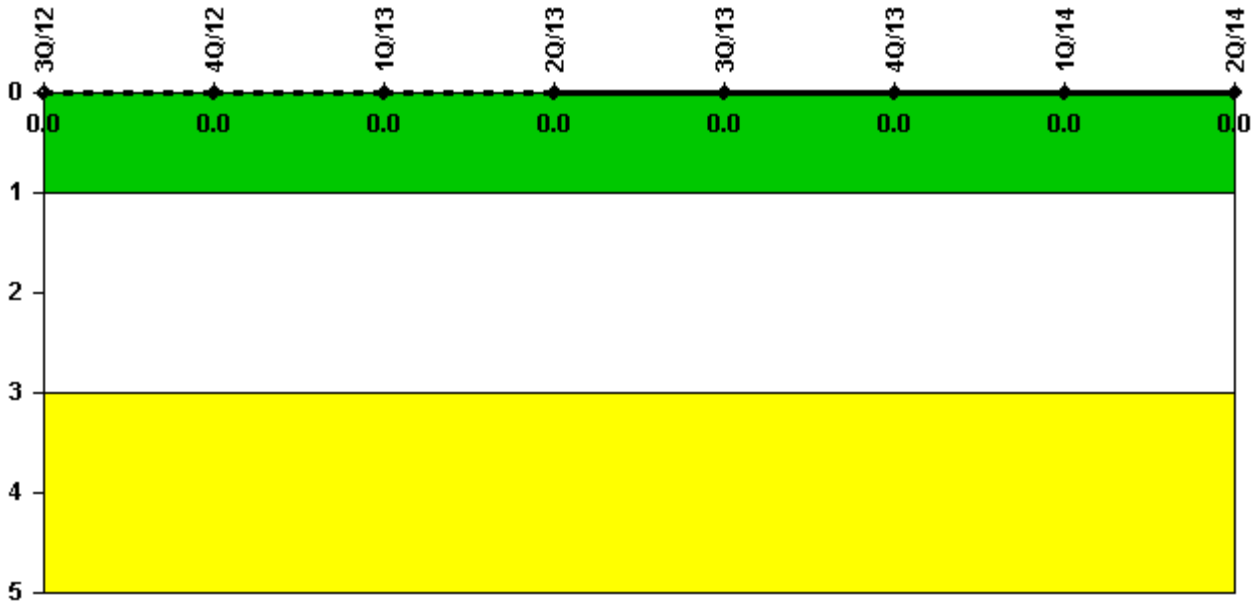
#### Notes

Occupational Exposure Control Effectiveness	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
High radiation area occurrences	0	0	0	0	0	0	1	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>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>

Licensee Comments:

1Q/14: March data includes event for a bucket containing irradiated components being lifted without proper controls being in place.

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: July 31, 2014*

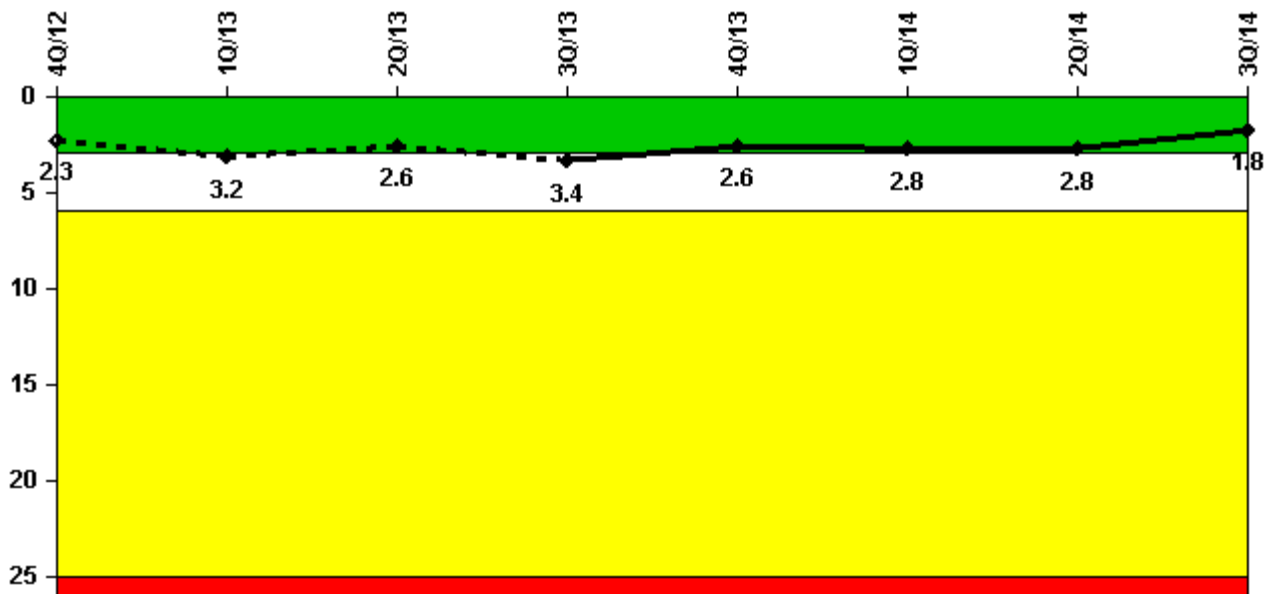
# Grand Gulf 1

## 3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

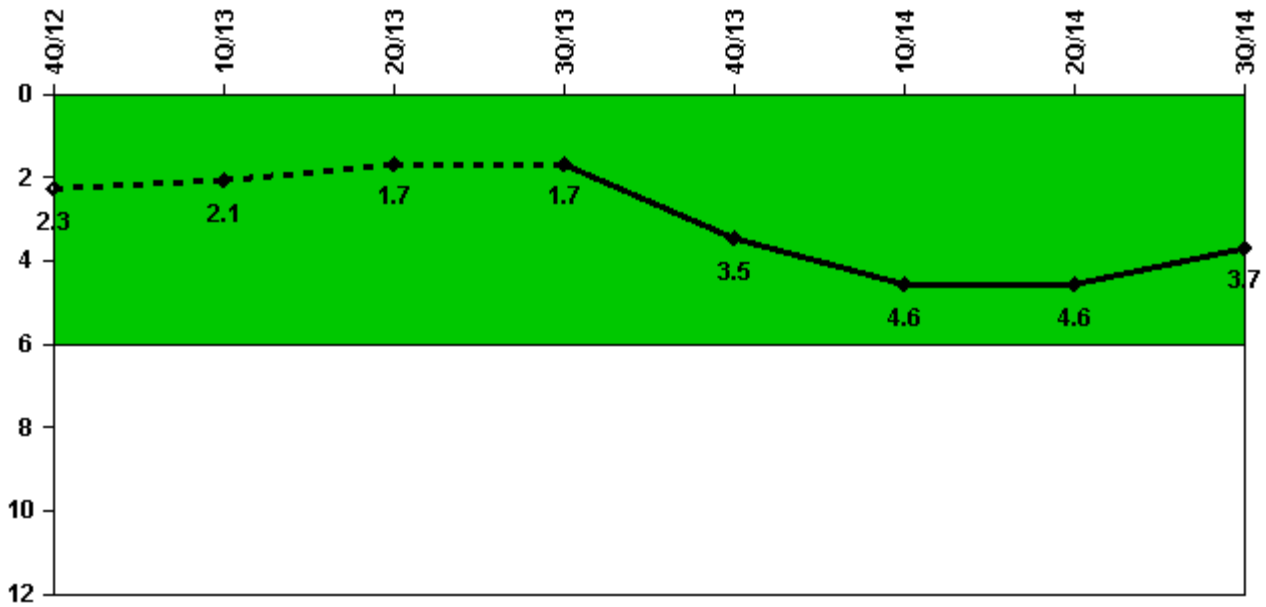
### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	1.0	2.0	0	1.0	0	2.0	0	0
Critical hours	2033.0	1780.9	2184.0	2119.3	1994.1	1238.2	2184.0	2208.0
<b>Indicator value</b>	<b>2.3</b>	<b>3.2</b>	<b>2.6</b>	<b>3.4</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>	<b>1.8</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 and 3/29/14 included in March data.

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

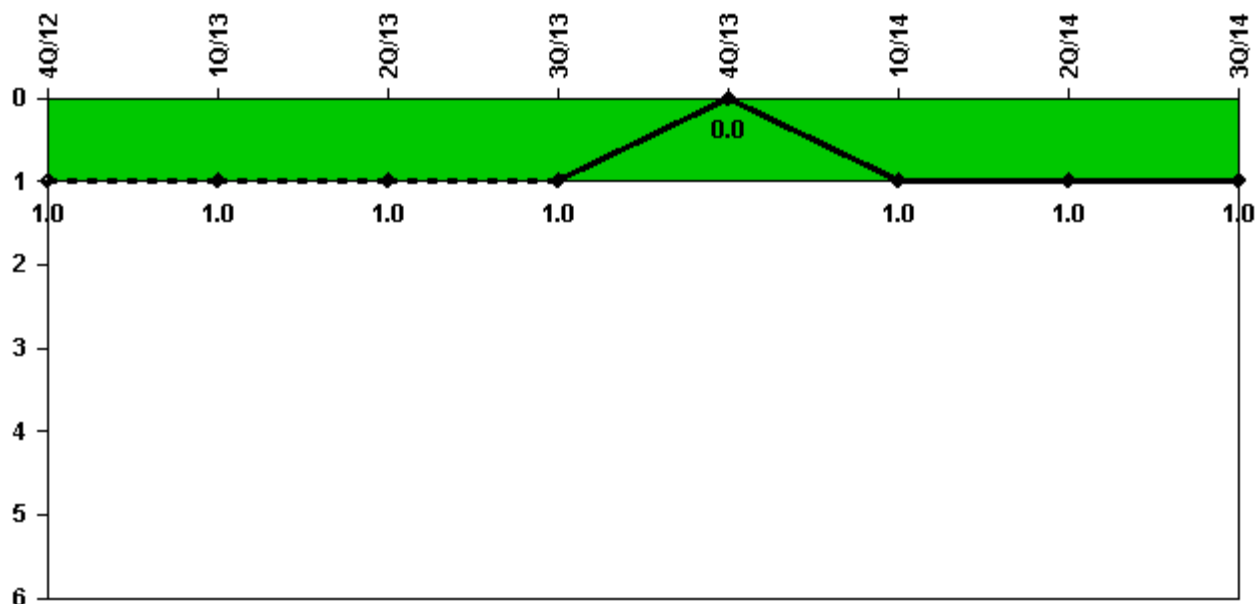
#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	1.0	0	0	1.0	3.0	1.0	0	0
Critical hours	2033.0	1780.9	2184.0	2119.3	1994.1	1238.2	2184.0	2208.0
<b>Indicator value</b>	<b>2.3</b>	<b>2.1</b>	<b>1.7</b>	<b>1.7</b>	<b>3.5</b>	<b>4.6</b>	<b>4.6</b>	<b>3.7</b>

Licensee Comments:

1Q/14: Unplanned power change for TVR issue included in March data.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

#### Notes

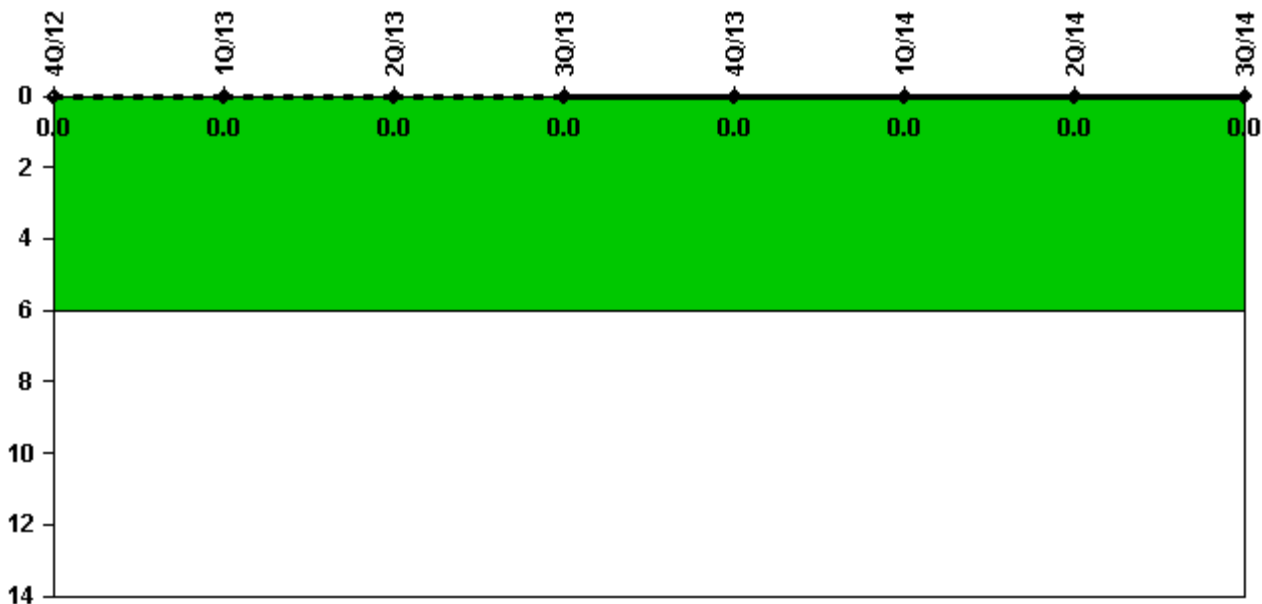
Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Scrams with complications	1.0	0	0	0	0	1.0	0	0
Indicator value	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 with Complications included in March data.



### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

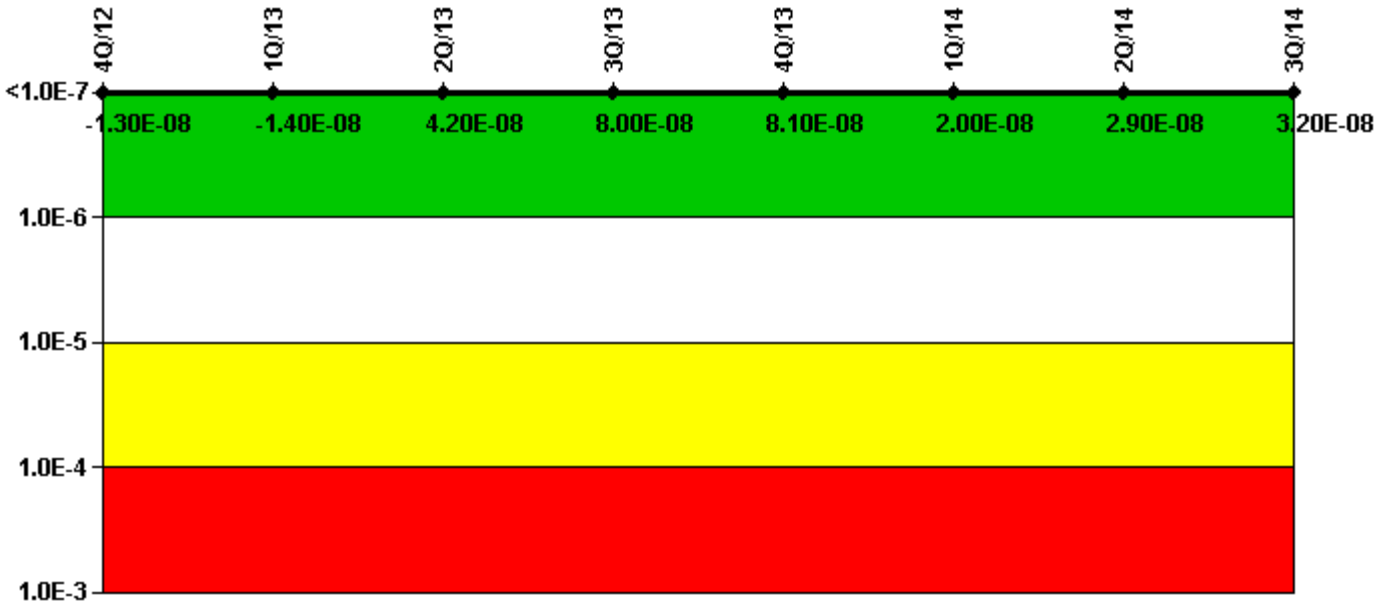
#### Notes

Safety System Functional Failures (BWR)	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Safety System Functional Failures	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:

4Q/13: No LERs for November 2013

### Mitigating Systems Performance Index, Emergency AC Power System



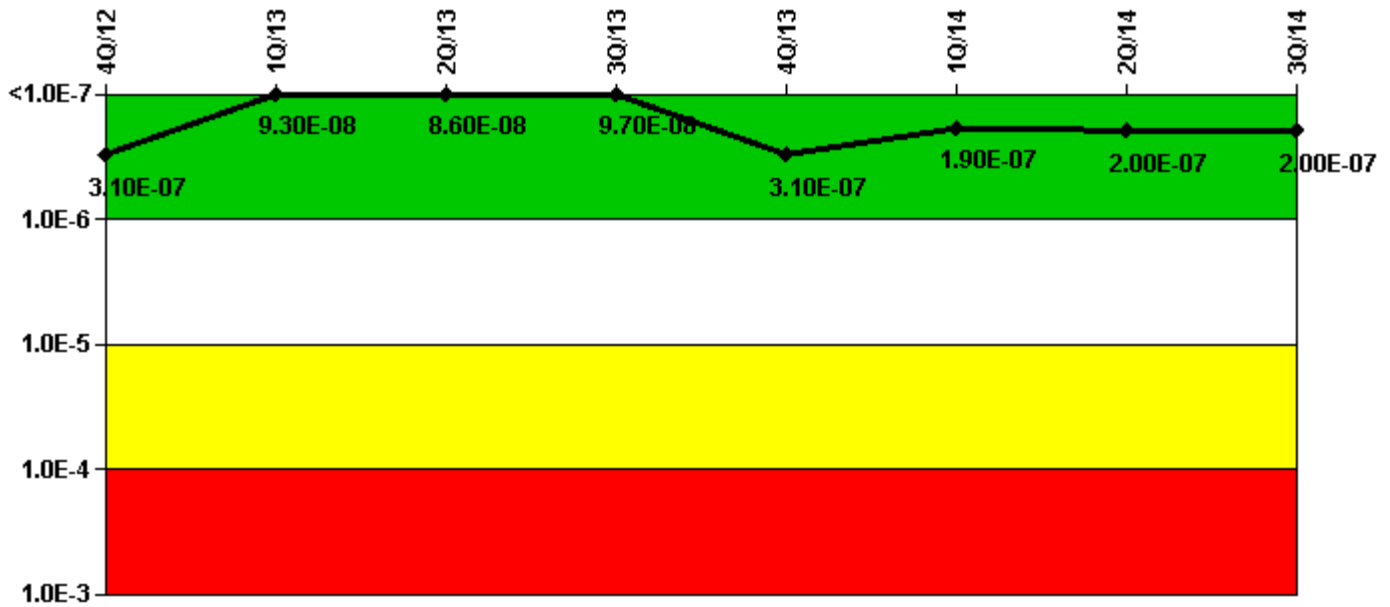
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI ( $\Delta$ CDF)	-8.84E-09	-8.84E-09	9.33E-09	1.26E-08	1.31E-08	2.39E-09	1.12E-08	1.42E-08
URI ( $\Delta$ CDF)	-3.73E-09	-5.22E-09	3.25E-08	6.77E-08	6.77E-08	1.78E-08	1.81E-08	1.74E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.40E-08	4.20E-08	8.00E-08	8.10E-08	2.00E-08	2.90E-08	3.20E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



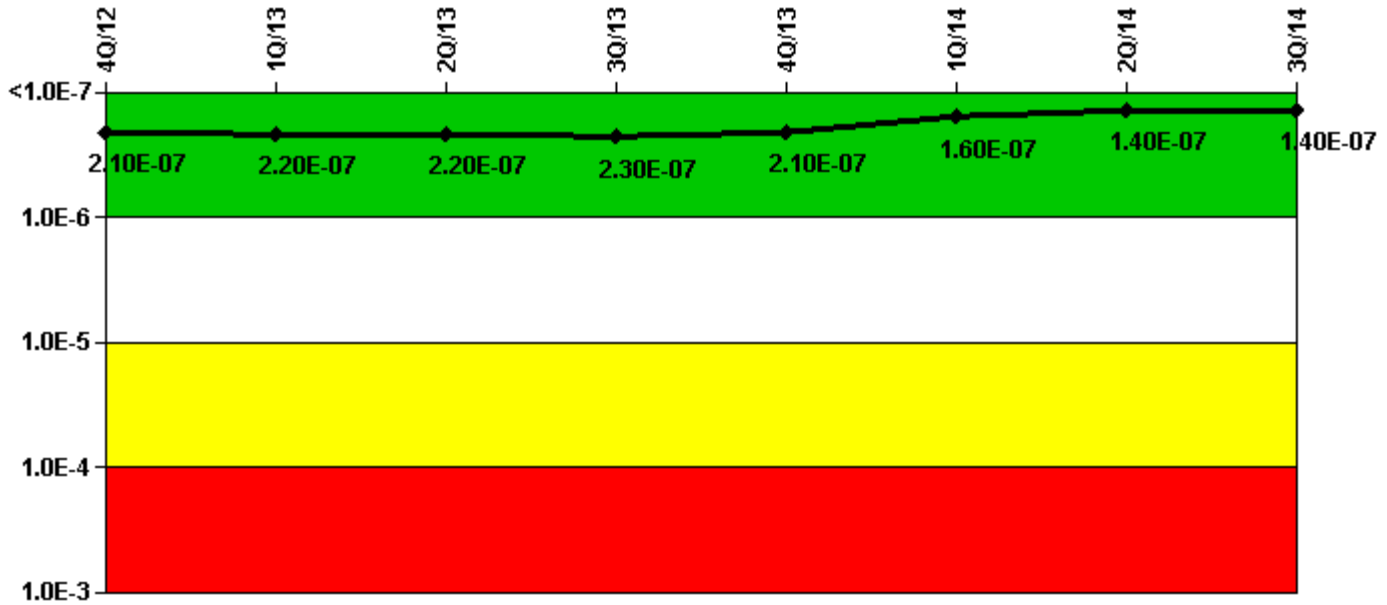
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	3.01E-07	7.24E-08	6.35E-08	7.95E-08	2.93E-07	2.86E-07	2.85E-07	2.85E-07
URI (ΔCDF)	1.26E-08	2.05E-08	2.25E-08	1.80E-08	1.60E-08	-9.12E-08	-8.76E-08	-8.56E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.10E-07	9.30E-08	8.60E-08	9.70E-08	3.10E-07	1.90E-07	2.00E-07	2.00E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



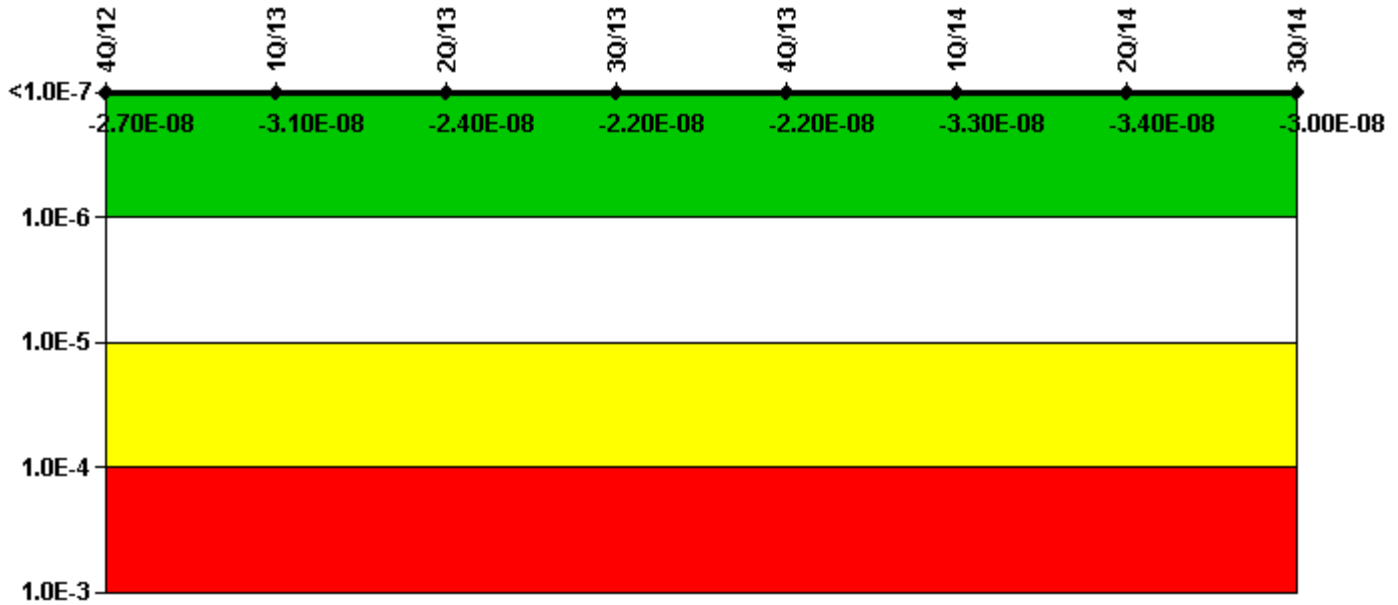
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	-4.36E-08	3.57E-09	1.65E-09	1.89E-09	2.81E-09	7.21E-09	7.21E-09	7.21E-09
URI (ΔCDF)	2.51E-07	2.13E-07	2.14E-07	2.32E-07	2.05E-07	1.49E-07	1.28E-07	1.28E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.10E-07	2.20E-07	2.20E-07	2.30E-07	2.10E-07	1.60E-07	1.40E-07	1.40E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



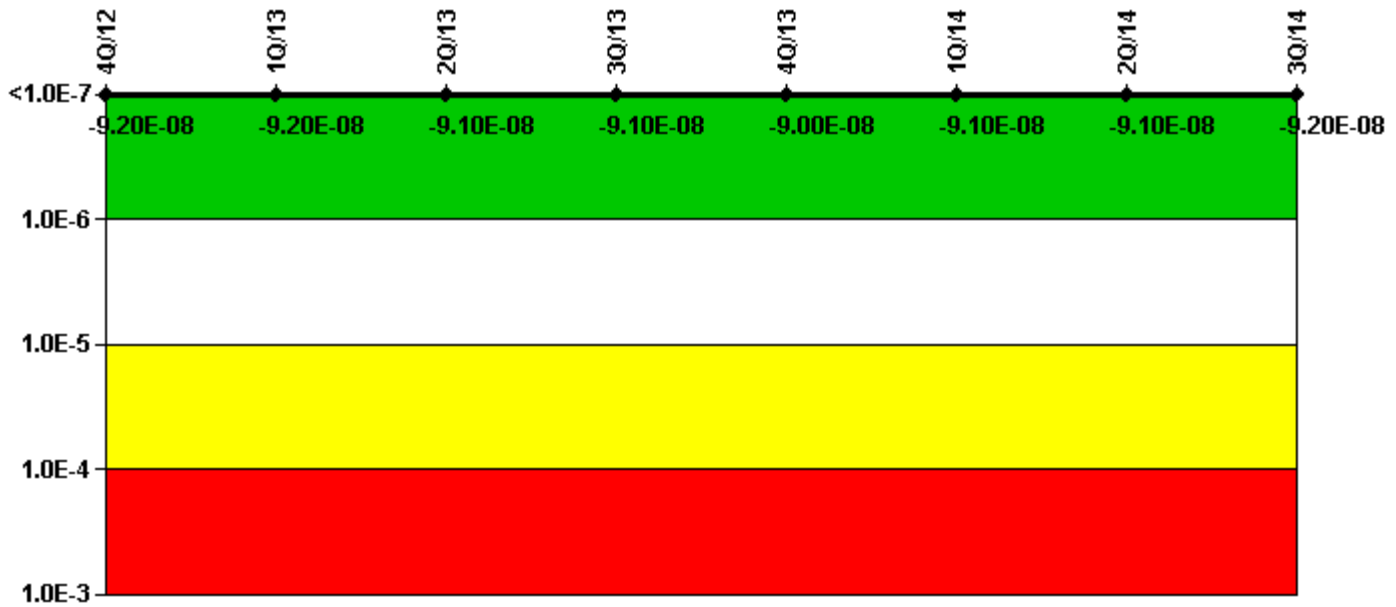
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI ( $\Delta$ CDF)	-4.75E-09	-8.56E-09	-2.03E-09	-4.69E-10	3.02E-10	-8.56E-09	-8.56E-09	-3.39E-09
URI ( $\Delta$ CDF)	-2.25E-08	-2.28E-08	-2.16E-08	-2.12E-08	-2.18E-08	-2.44E-08	-2.51E-08	-2.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-08	-3.10E-08	-2.40E-08	-2.20E-08	-2.20E-08	-3.30E-08	-3.40E-08	-3.00E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



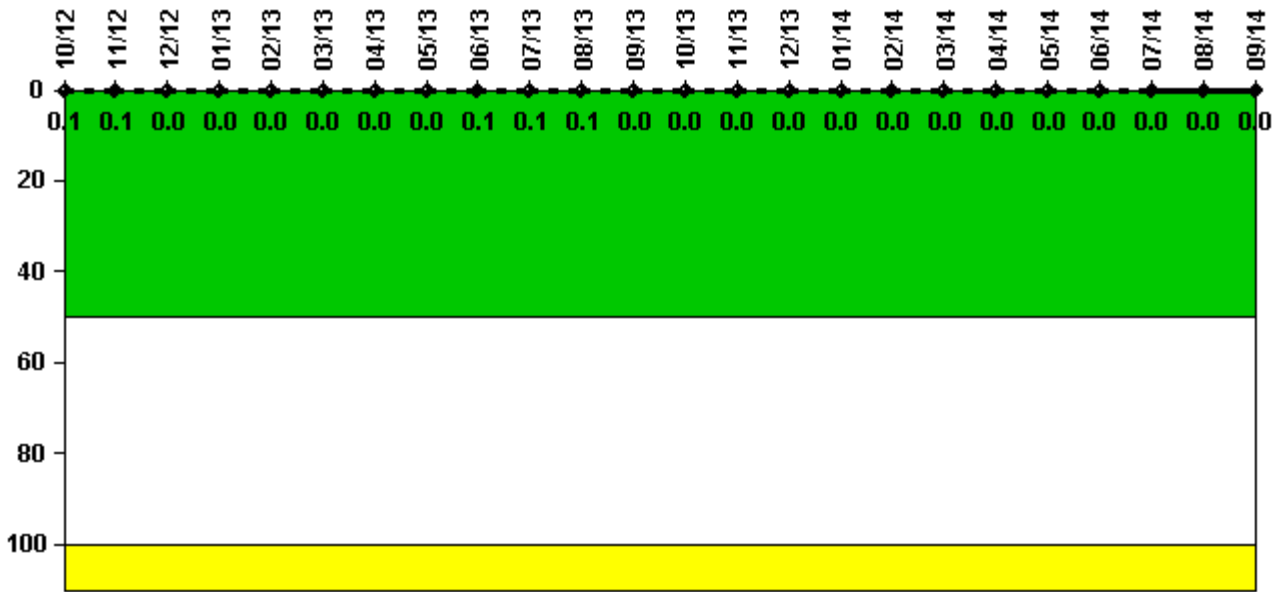
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.50E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.06E-08	-9.00E-08	-8.93E-08	-8.90E-08	-8.88E-08	-8.97E-08	-8.97E-08	-9.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-08	-9.20E-08	-9.10E-08	-9.10E-08	-9.00E-08	-9.10E-08	-9.10E-08	-9.20E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum activity	0.000206	0.000157	0.000082	0.000057	0.000048	0.000059	0.000090	0.000086	0.000105	0.000105	0.000101	0.000089
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	0.1	0.1	0	0	0	0	0	0	0.1	0.1	0.1	0

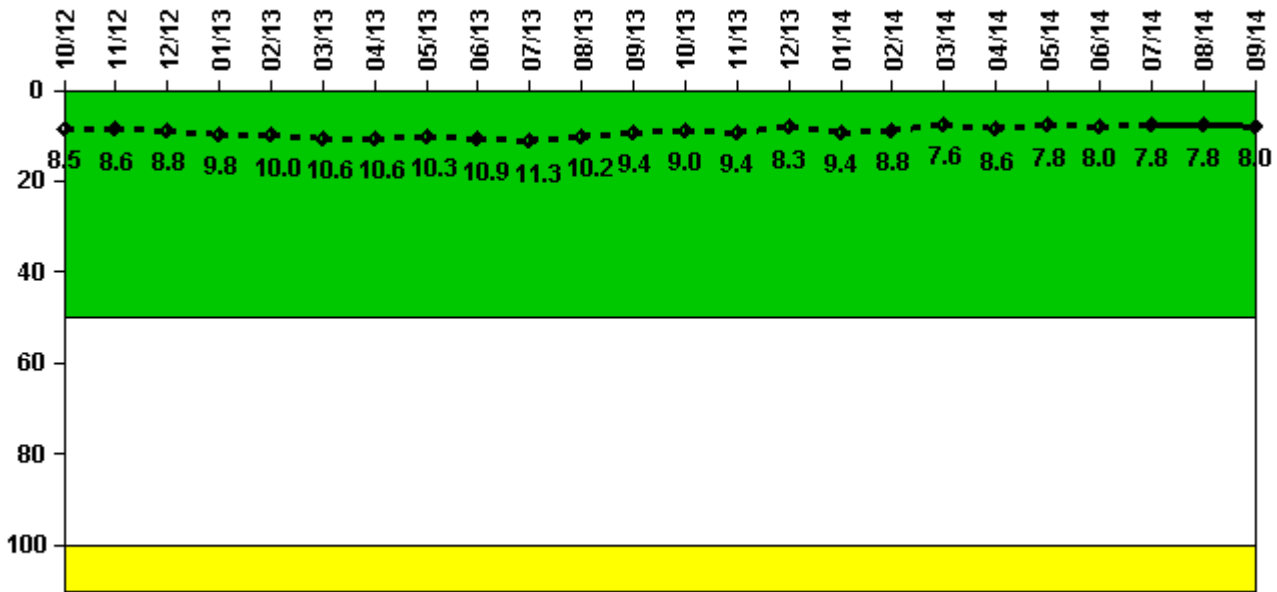
  

Reactor Coolant System Activity	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.000092	0.000026	0.000049	0.000055	0.000055	0.000084	0.000070	0.000044	0.000034	0.000043	0.000065	0.000069
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments:

6/13: June only one Reactor Water Clean-Up (RWCU) Filter in-service.

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

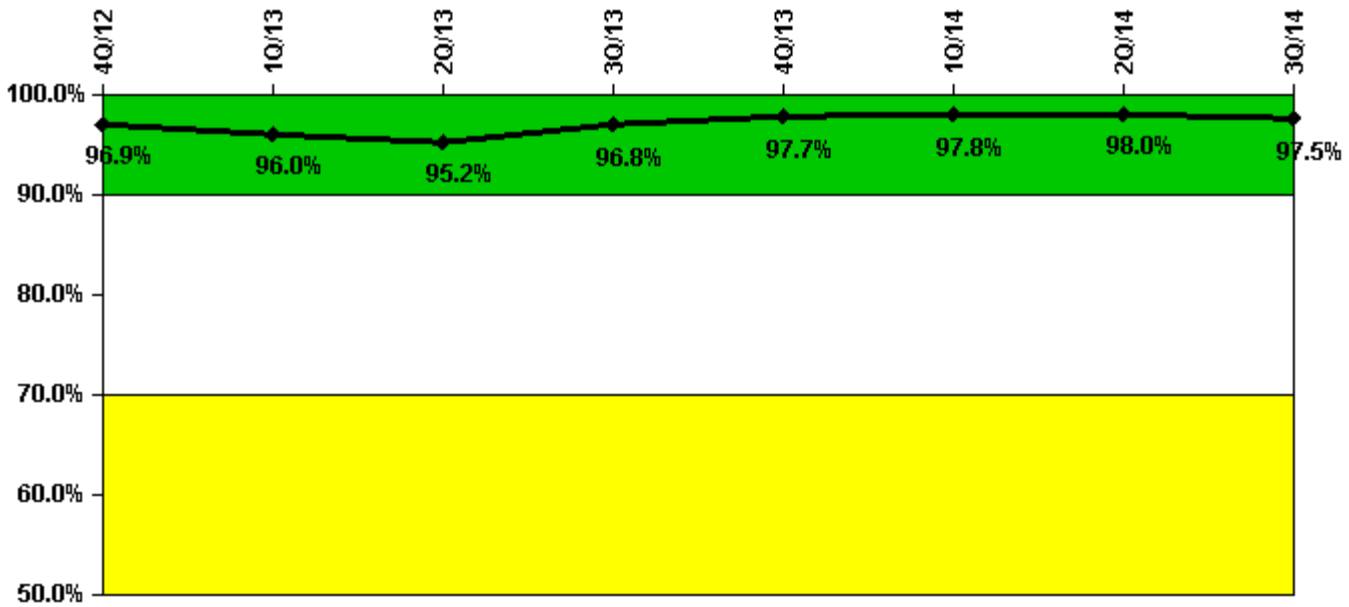
#### Notes

Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	2.560	2.570	2.650	2.950	2.990	3.180	3.180	3.090	3.270	3.400	3.050	2.810
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>8.5</b>	<b>8.6</b>	<b>8.8</b>	<b>9.8</b>	<b>10.0</b>	<b>10.6</b>	<b>10.6</b>	<b>10.3</b>	<b>10.9</b>	<b>11.3</b>	<b>10.2</b>	<b>9.4</b>
Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	2.690	2.810	2.500	2.810	2.640	2.280	2.570	2.350	2.410	2.340	2.350	2.410
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>9.0</b>	<b>9.4</b>	<b>8.3</b>	<b>9.4</b>	<b>8.8</b>	<b>7.6</b>	<b>8.6</b>	<b>7.8</b>	<b>8.0</b>	<b>7.8</b>	<b>7.8</b>	<b>8.0</b>

Licensee Comments: none



### Drill/Exercise Performance



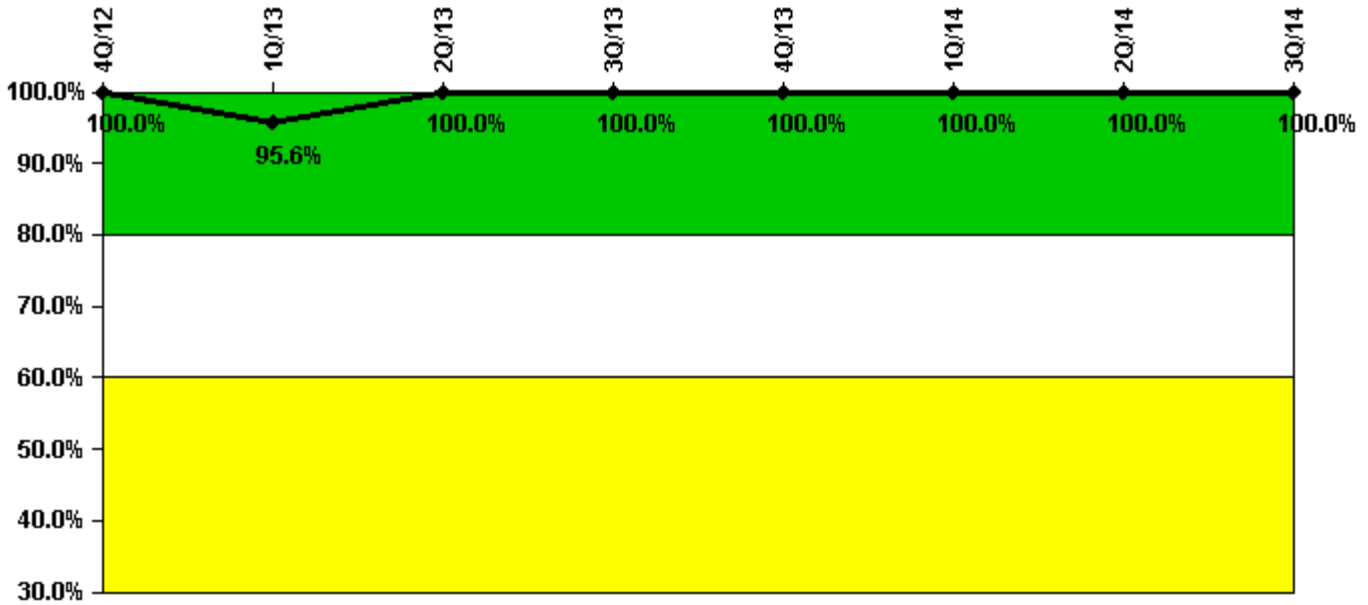
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful opportunities	27.0	9.0	17.0	23.0	66.0	10.0	24.0	92.0
Total opportunities	28.0	10.0	18.0	23.0	66.0	10.0	24.0	96.0
Indicator value	96.9%	96.0%	95.2%	96.8%	97.7%	97.8%	98.0%	97.5%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

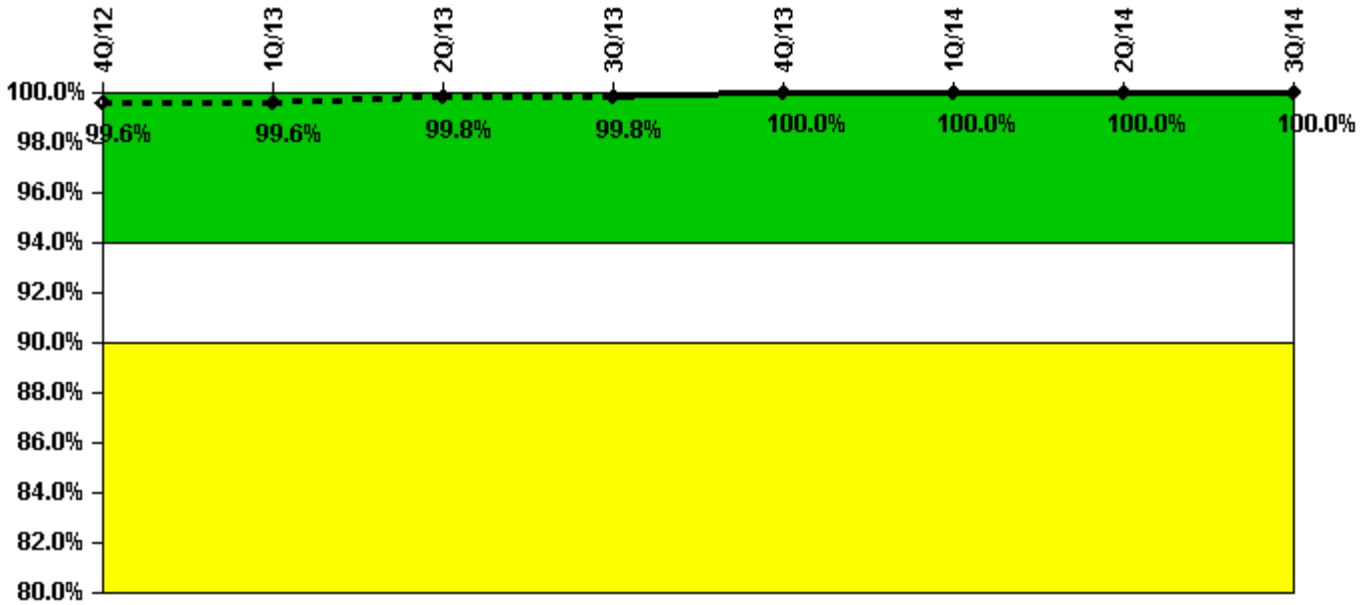
#### Notes

ERO Drill Participation	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Participating Key personnel	70.0	65.0	67.0	66.0	74.0	68.0	71.0	63.0
Total Key personnel	70.0	68.0	67.0	66.0	74.0	68.0	71.0	63.0
Indicator value	100.0%	95.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/13: First Quarter 2013 revised do to a retirement in March 2013 and not noticed until July 203. CR-GGN-2013-4296 written to address issue. This change does not affect the color of the indicator (green).

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

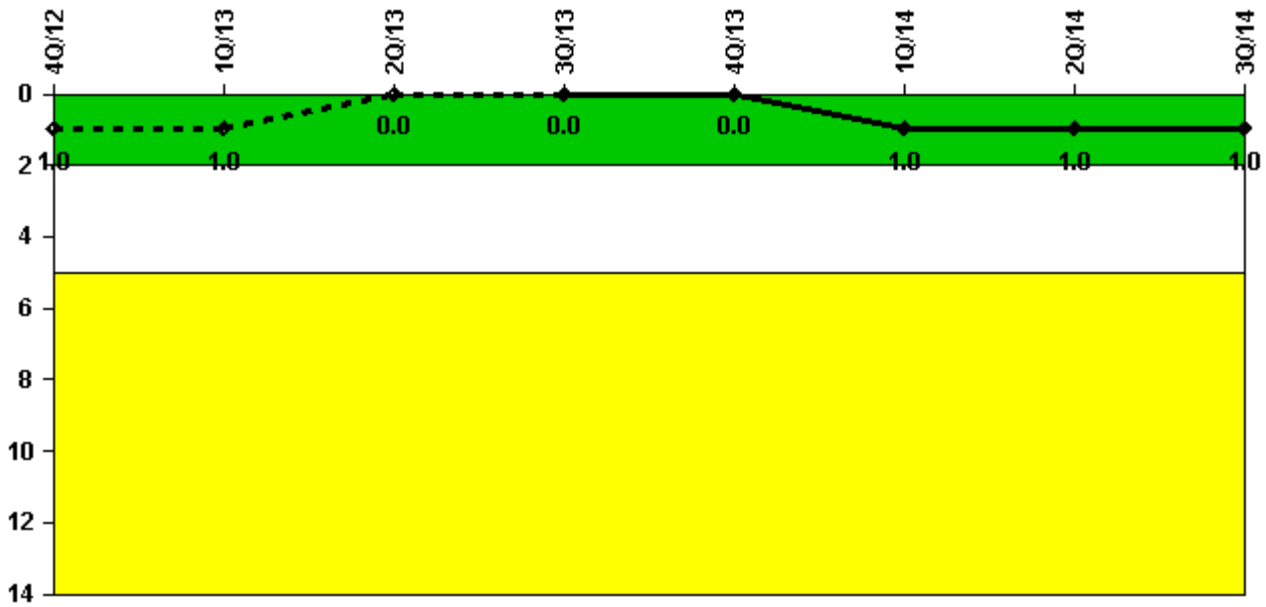
#### Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	128	129	128	129	129	129	129	129
Total sirens-tests	129	129	128	129	129	129	129	129
Indicator value	99.6%	99.6%	99.8%	99.8%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/13: In June, one siren is in an inaccessible area (area uninhabited due to river level) and is without AC power.

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

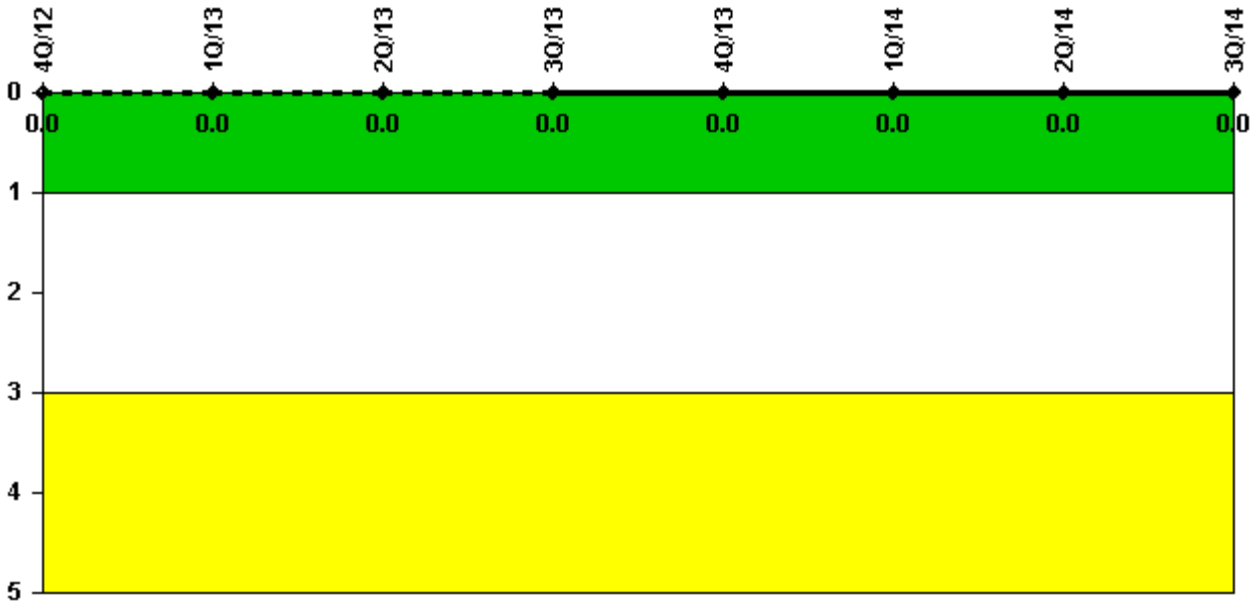
#### Notes

Occupational Exposure Control Effectiveness	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
High radiation area occurrences	0	0	0	0	0	1	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>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>

Licensee Comments:

1Q/14: March data includes event for a bucket containing irradiated components being lifted without proper controls being in place.

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: November 3, 2014*

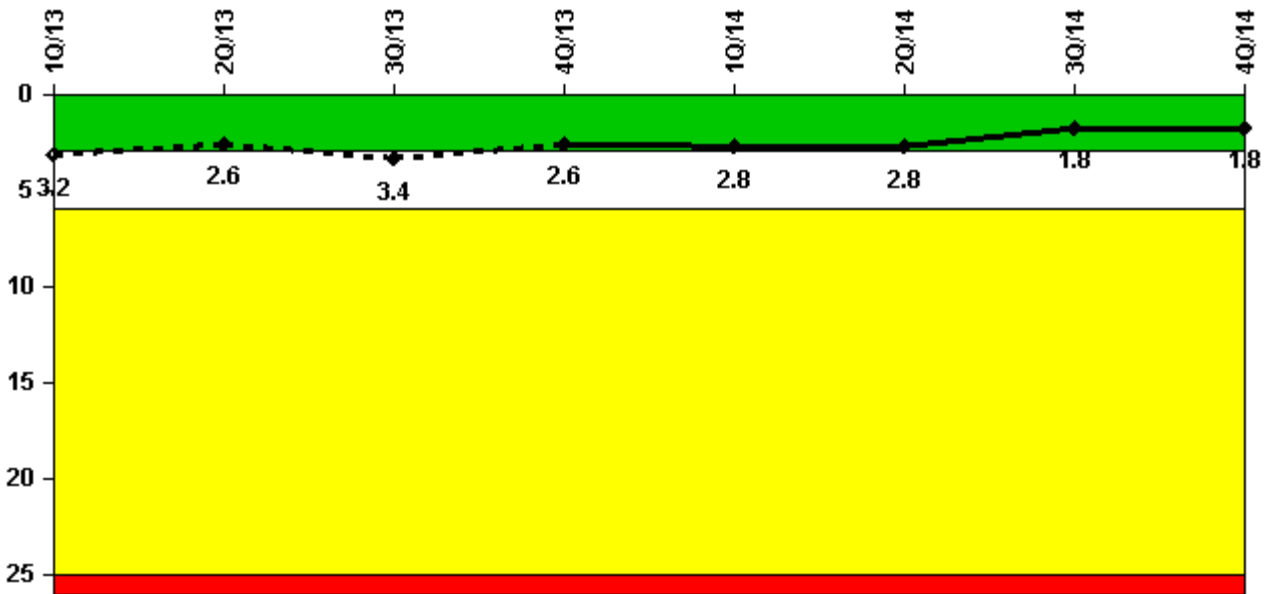
# Grand Gulf 1

## 4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

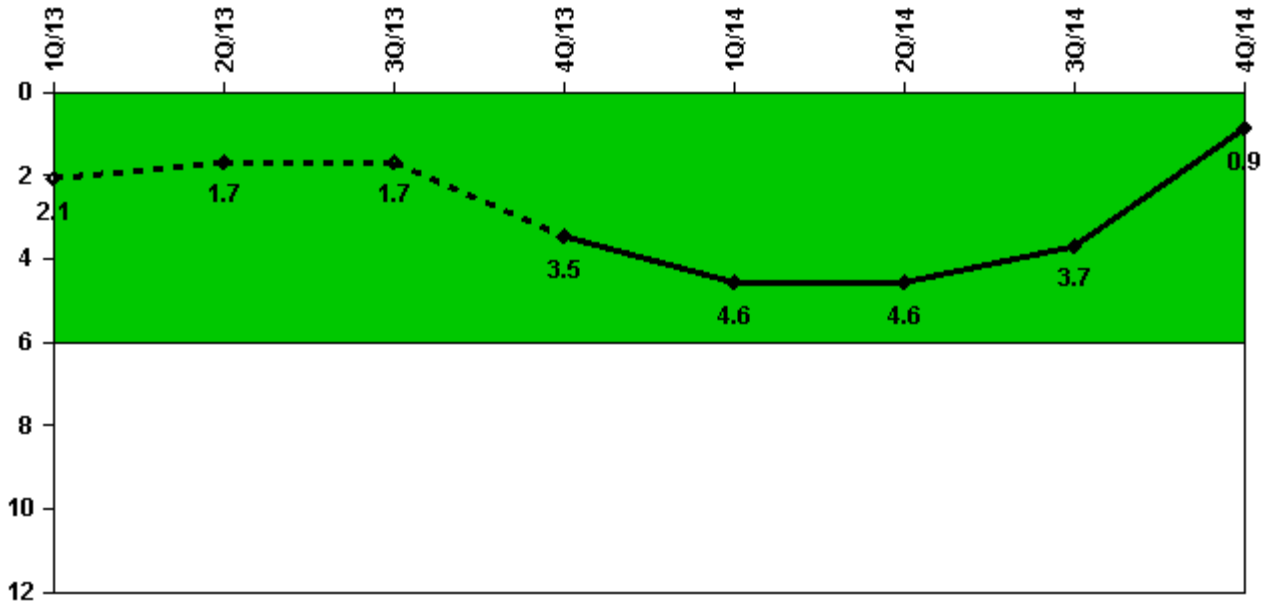
### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	2.0	0	1.0	0	2.0	0	0	0
Critical hours	1780.9	2184.0	2119.3	1994.1	1238.2	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>3.2</b>	<b>2.6</b>	<b>3.4</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>	<b>1.8</b>	<b>1.8</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 and 3/29/14 included in March data.

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	1.0	3.0	1.0	0	0	0
Critical hours	1780.9	2184.0	2119.3	1994.1	1238.2	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>2.1</b>	<b>1.7</b>	<b>1.7</b>	<b>3.5</b>	<b>4.6</b>	<b>4.6</b>	<b>3.7</b>	<b>0.9</b>

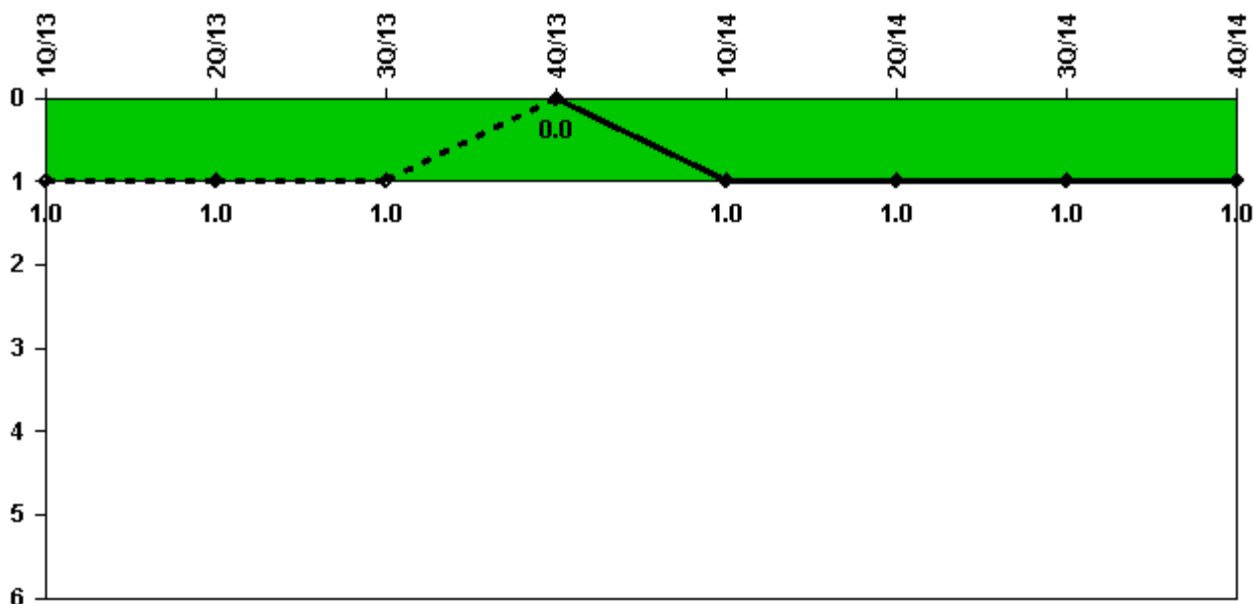
Licensee Comments:

4Q/14: Plant power was reduced by greater than 20% on November 23, 2014 at the direction of the grid dispatcher due to grid instability. This down power was outside of management control.

1Q/14: Unplanned power change for TVR issue included in March data.



### Unplanned Scrams with Complications



Thresholds: White > 1.0

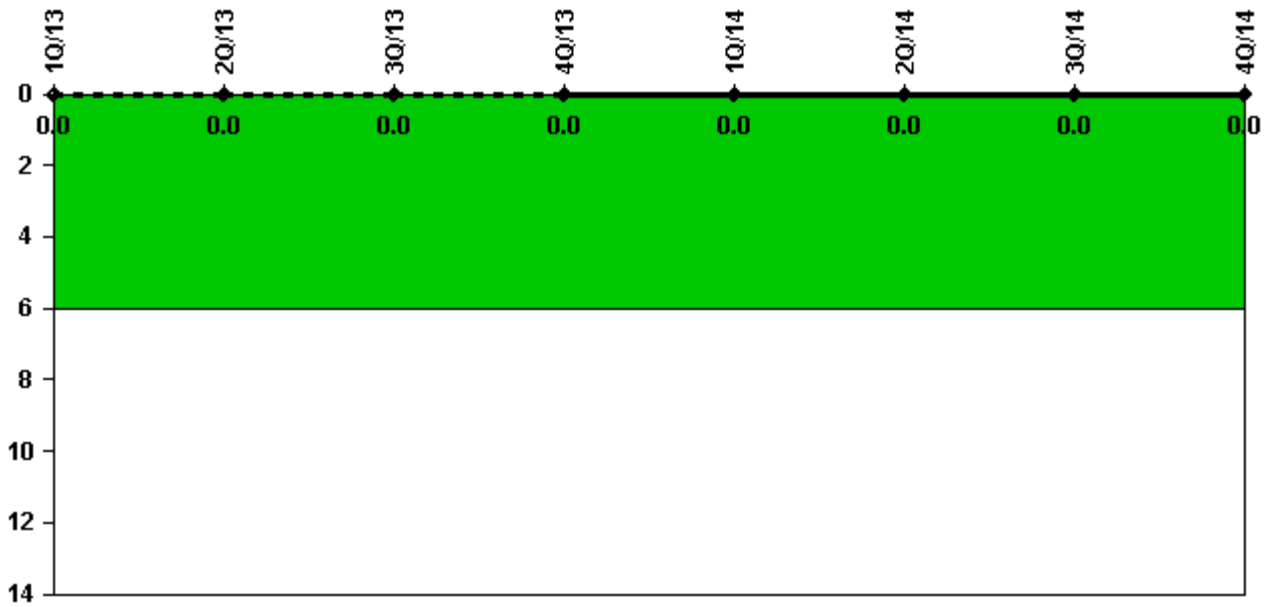
#### Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Scrams with complications	0	0	0	0	1.0	0	0	0
Indicator value	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 with Complications included in March data.

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

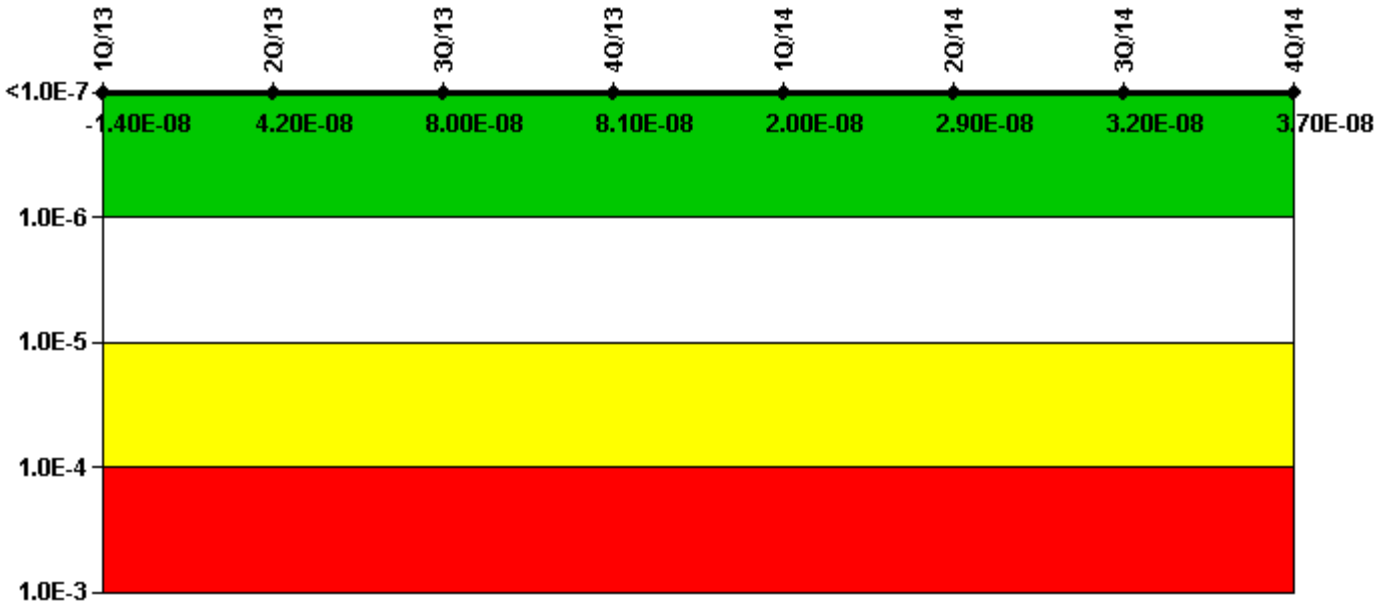
#### Notes

Safety System Functional Failures (BWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	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:

4Q/13: No LERs for November 2013

### Mitigating Systems Performance Index, Emergency AC Power System



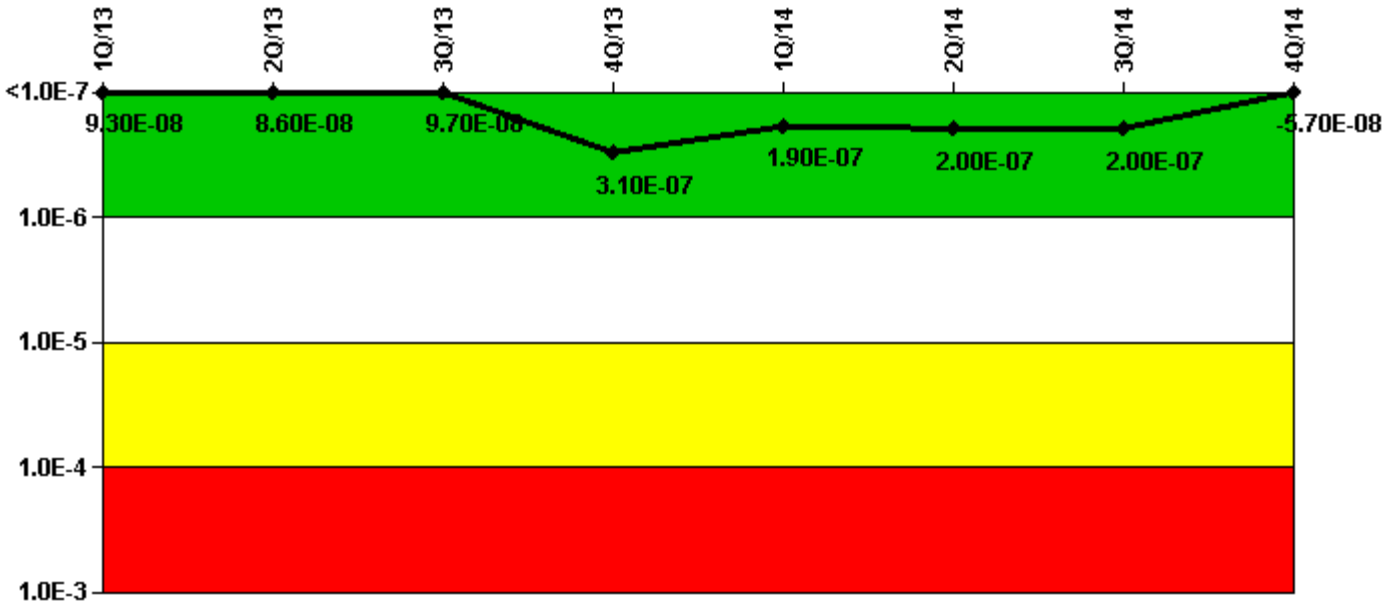
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI ( $\Delta$ CDF)	-8.84E-09	9.33E-09	1.26E-08	1.31E-08	2.39E-09	1.12E-08	1.42E-08	1.90E-08
URI ( $\Delta$ CDF)	-5.22E-09	3.25E-08	6.77E-08	6.77E-08	1.78E-08	1.81E-08	1.74E-08	1.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	4.20E-08	8.00E-08	8.10E-08	2.00E-08	2.90E-08	3.20E-08	3.70E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



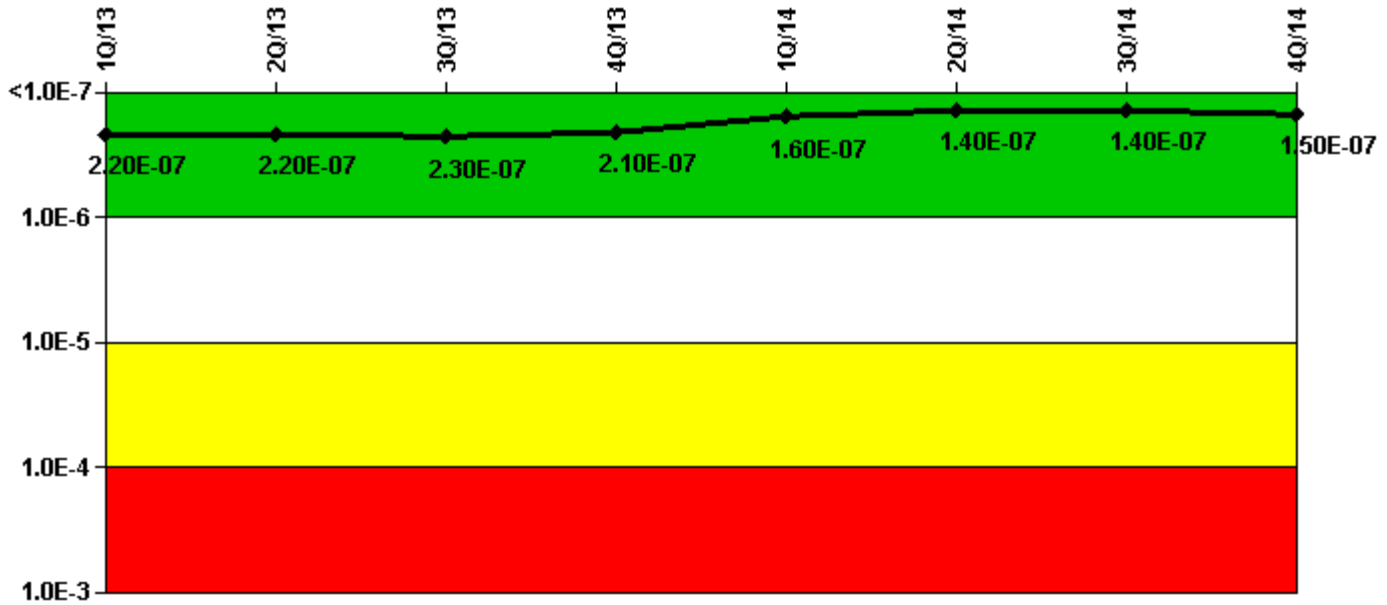
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI ( $\Delta$ CDF)	7.24E-08	6.35E-08	7.95E-08	2.93E-07	2.86E-07	2.85E-07	2.85E-07	2.16E-08
URI ( $\Delta$ CDF)	2.05E-08	2.25E-08	1.80E-08	1.60E-08	-9.12E-08	-8.76E-08	-8.56E-08	-7.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.30E-08	8.60E-08	9.70E-08	3.10E-07	1.90E-07	2.00E-07	2.00E-07	5.70E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



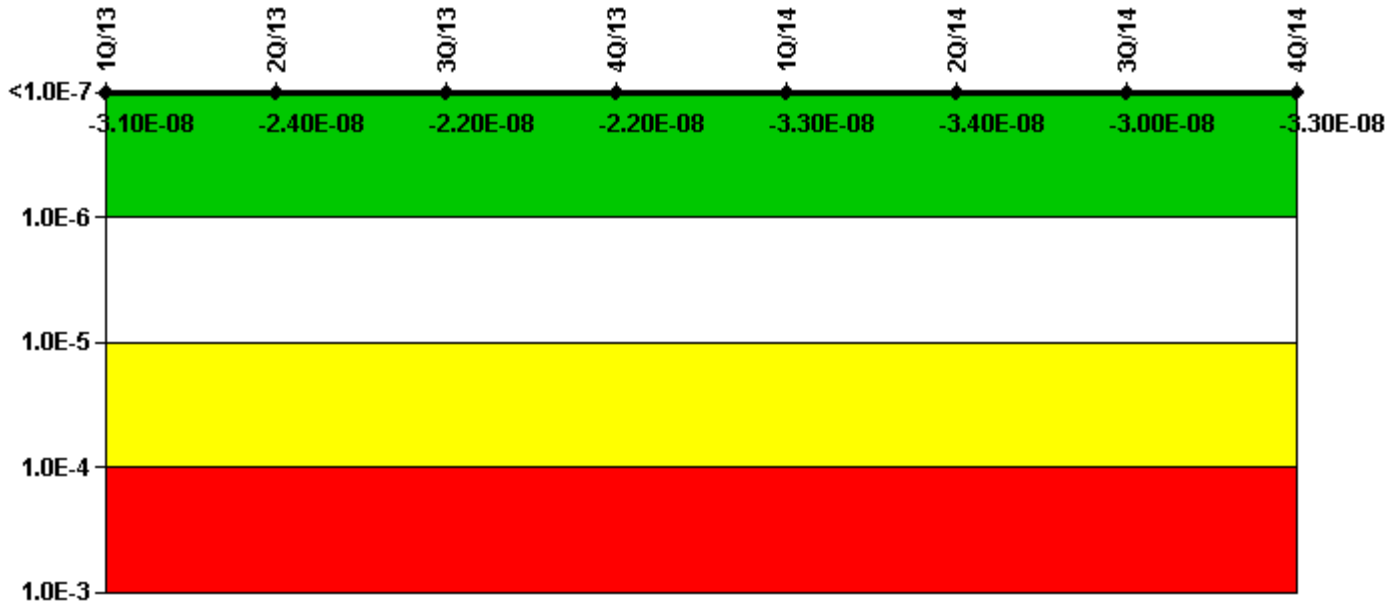
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI ( $\Delta$ CDF)	3.57E-09	1.65E-09	1.89E-09	2.81E-09	7.21E-09	7.21E-09	7.21E-09	2.43E-08
URI ( $\Delta$ CDF)	2.13E-07	2.14E-07	2.32E-07	2.05E-07	1.49E-07	1.28E-07	1.28E-07	1.28E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.20E-07	2.20E-07	2.30E-07	2.10E-07	1.60E-07	1.40E-07	1.40E-07	1.50E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



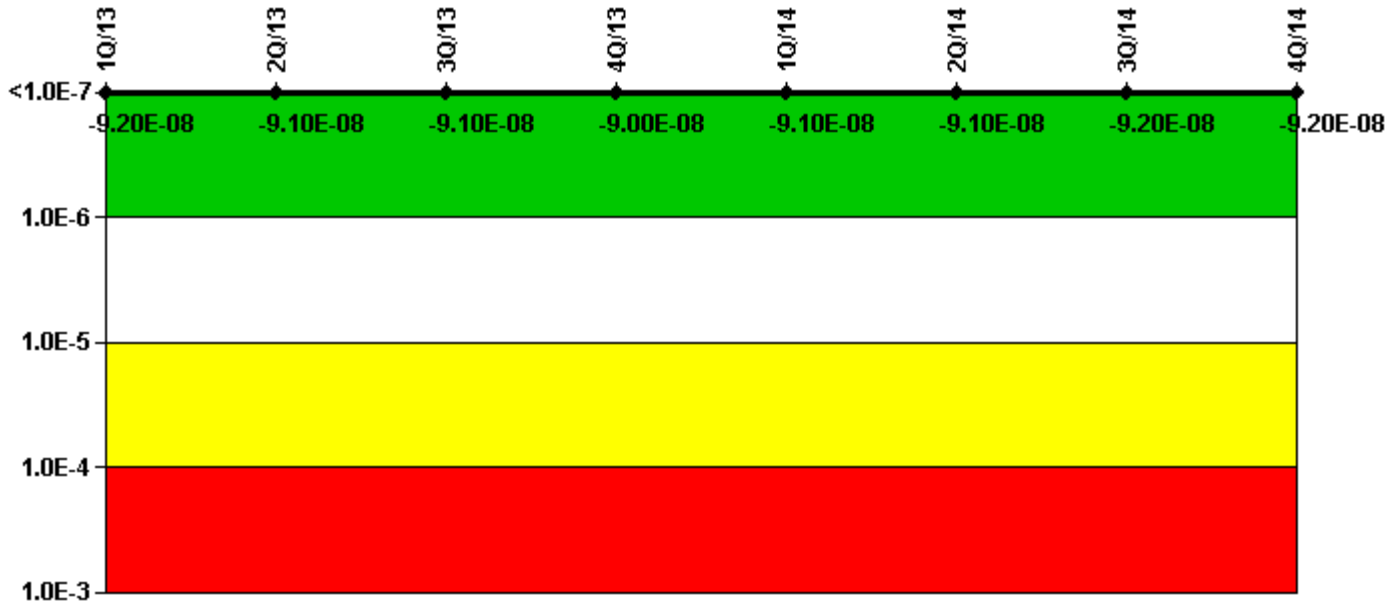
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI ( $\Delta$ CDF)	-8.56E-09	-2.03E-09	-4.69E-10	3.02E-10	-8.56E-09	-8.56E-09	-3.39E-09	-6.21E-09
URI ( $\Delta$ CDF)	-2.28E-08	-2.16E-08	-2.12E-08	-2.18E-08	-2.44E-08	-2.51E-08	-2.62E-08	-2.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.10E-08	-2.40E-08	-2.20E-08	-2.20E-08	-3.30E-08	-3.40E-08	-3.00E-08	-3.30E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



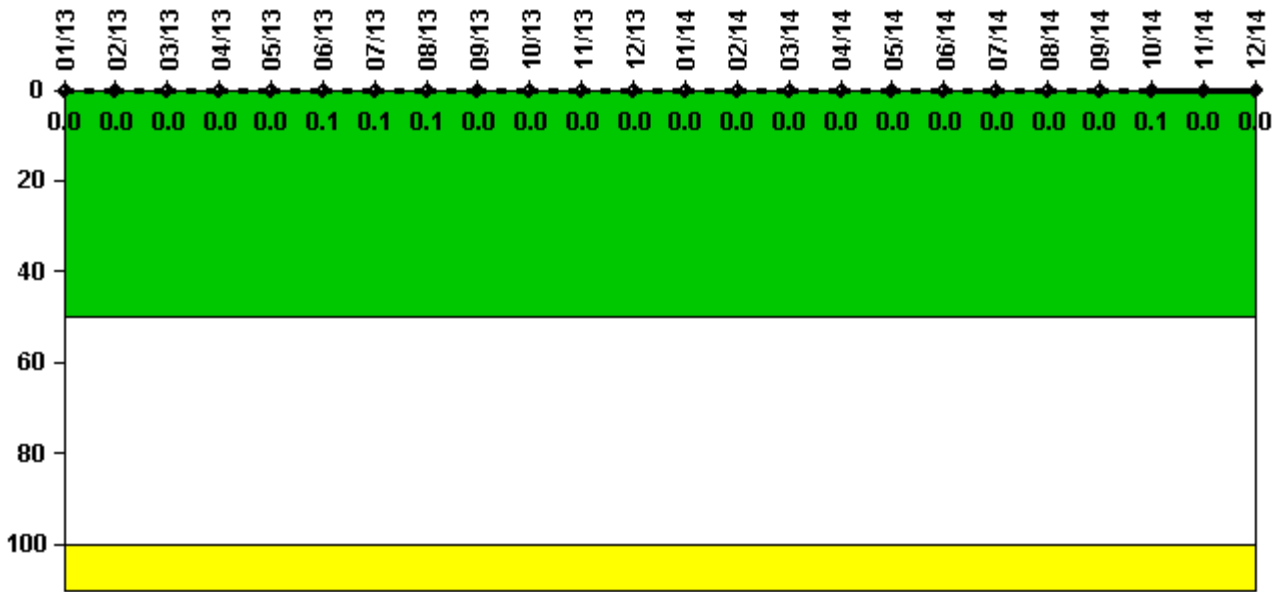
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.50E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.00E-08	-8.93E-08	-8.90E-08	-8.88E-08	-8.97E-08	-8.97E-08	-9.03E-08	-9.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-08	-9.10E-08	-9.10E-08	-9.00E-08	-9.10E-08	-9.10E-08	-9.20E-08	-9.20E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000057	0.000048	0.000059	0.000090	0.000086	0.000105	0.000105	0.000101	0.000089	0.000092	0.000026	0.000049
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	0.1	0.1	0.1	0	0	0	0

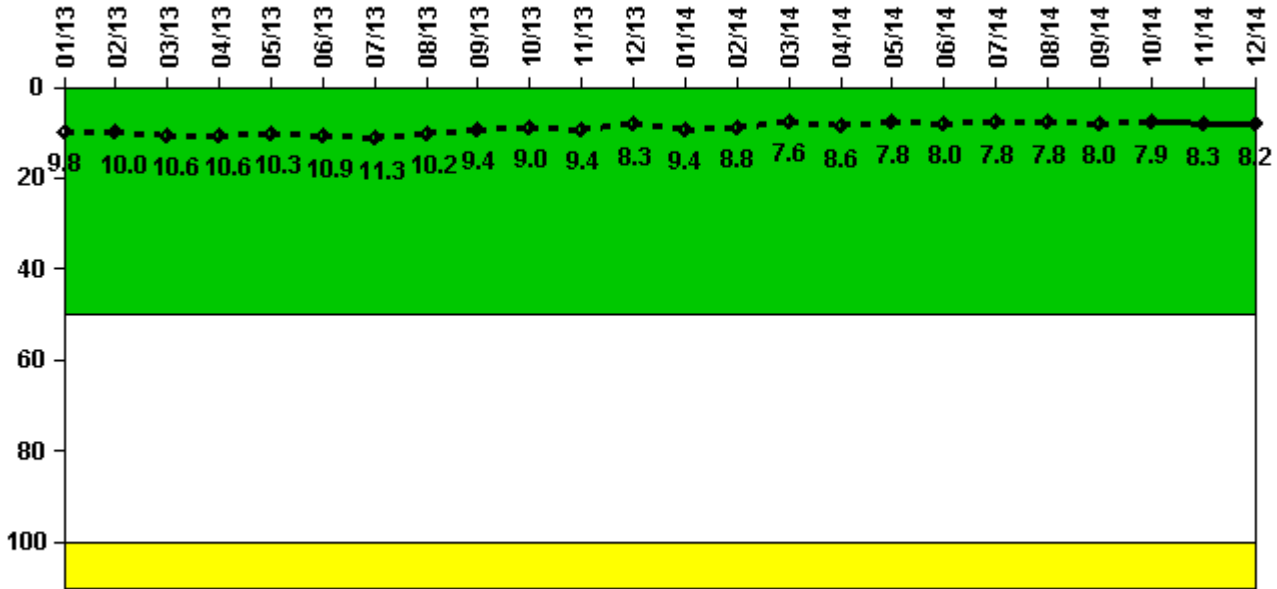
Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum activity	0.000055	0.000055	0.000084	0.000070	0.000044	0.000034	0.000043	0.000065	0.000069	0.000107	0.000063	0.000038
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0.1	0	0

Licensee Comments:

6/13: June only one Reactor Water Clean-Up (RWCU) Filter in-service.



### Reactor Coolant System Leakage



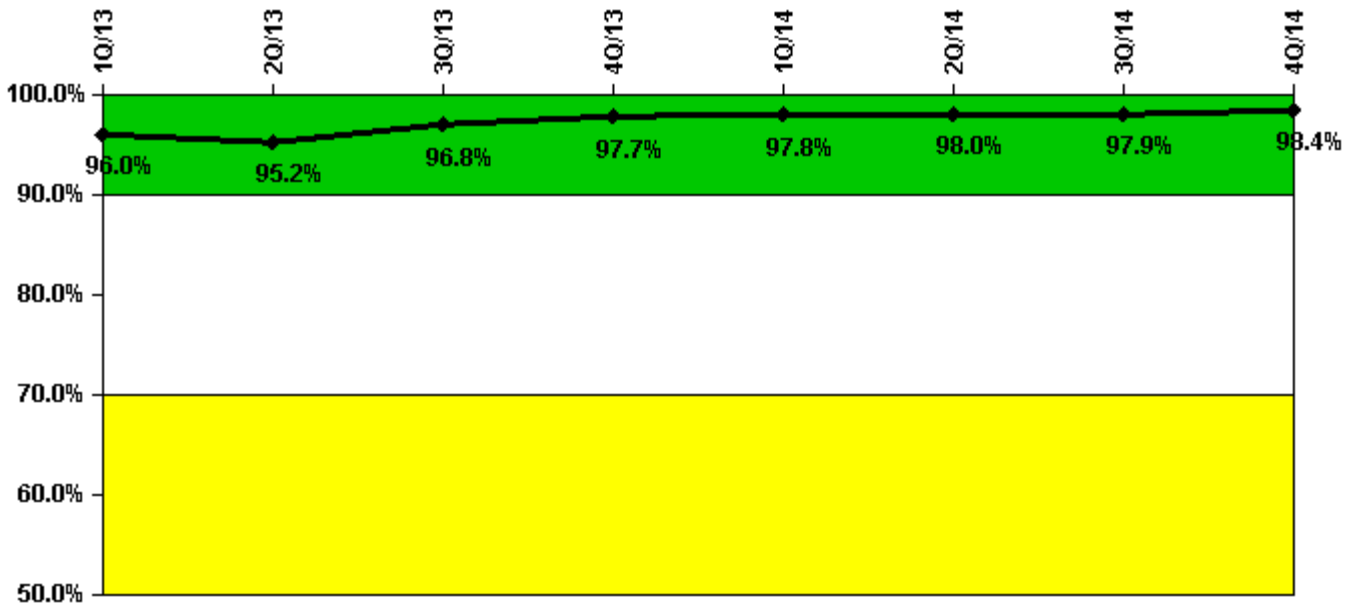
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	2.950	2.990	3.180	3.180	3.090	3.270	3.400	3.050	2.810	2.690	2.810	2.500
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>9.8</b>	<b>10.0</b>	<b>10.6</b>	<b>10.6</b>	<b>10.3</b>	<b>10.9</b>	<b>11.3</b>	<b>10.2</b>	<b>9.4</b>	<b>9.0</b>	<b>9.4</b>	<b>8.3</b>
Reactor Coolant System Leakage	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum leakage	2.810	2.640	2.280	2.570	2.350	2.410	2.340	2.350	2.410	2.370	2.480	2.450
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>9.4</b>	<b>8.8</b>	<b>7.6</b>	<b>8.6</b>	<b>7.8</b>	<b>8.0</b>	<b>7.8</b>	<b>7.8</b>	<b>8.0</b>	<b>7.9</b>	<b>8.3</b>	<b>8.2</b>

Licensee Comments: none

### Drill/Exercise Performance



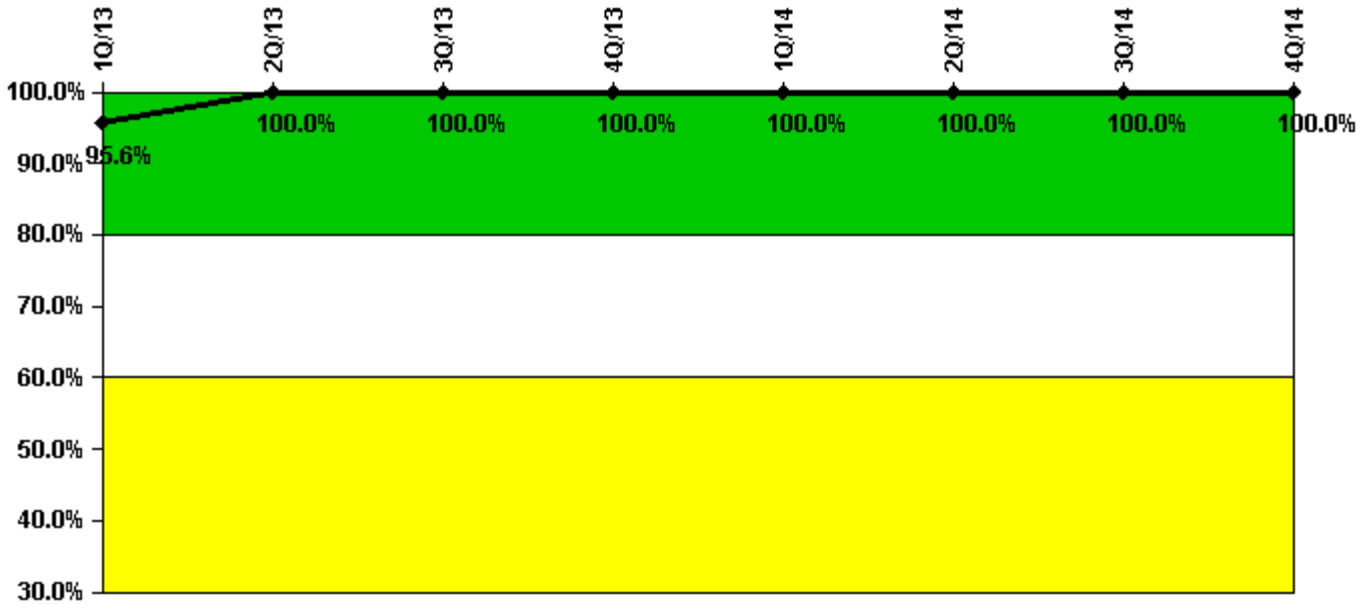
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful opportunities	9.0	17.0	23.0	66.0	10.0	24.0	52.0	50.0
Total opportunities	10.0	18.0	23.0	66.0	10.0	24.0	54.0	50.0
Indicator value	96.0%	95.2%	96.8%	97.7%	97.8%	98.0%	97.9%	98.4%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

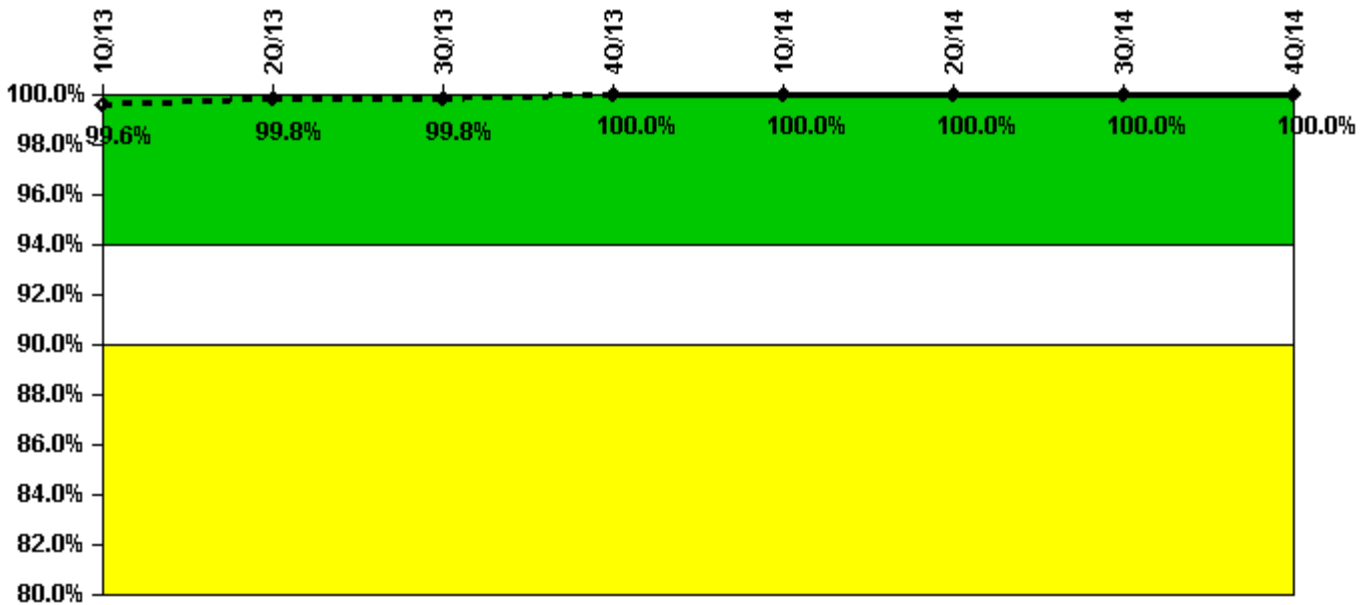
#### Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	65.0	67.0	66.0	74.0	68.0	71.0	63.0	64.0
Total Key personnel	68.0	67.0	66.0	74.0	68.0	71.0	63.0	64.0
Indicator value	95.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/13: First Quarter 2013 revised do to a retirement in March 2013 and not noticed until July 203. CR-GGN-2013-4296 written to address issue. This change does not affect the color of the indicator (green).

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

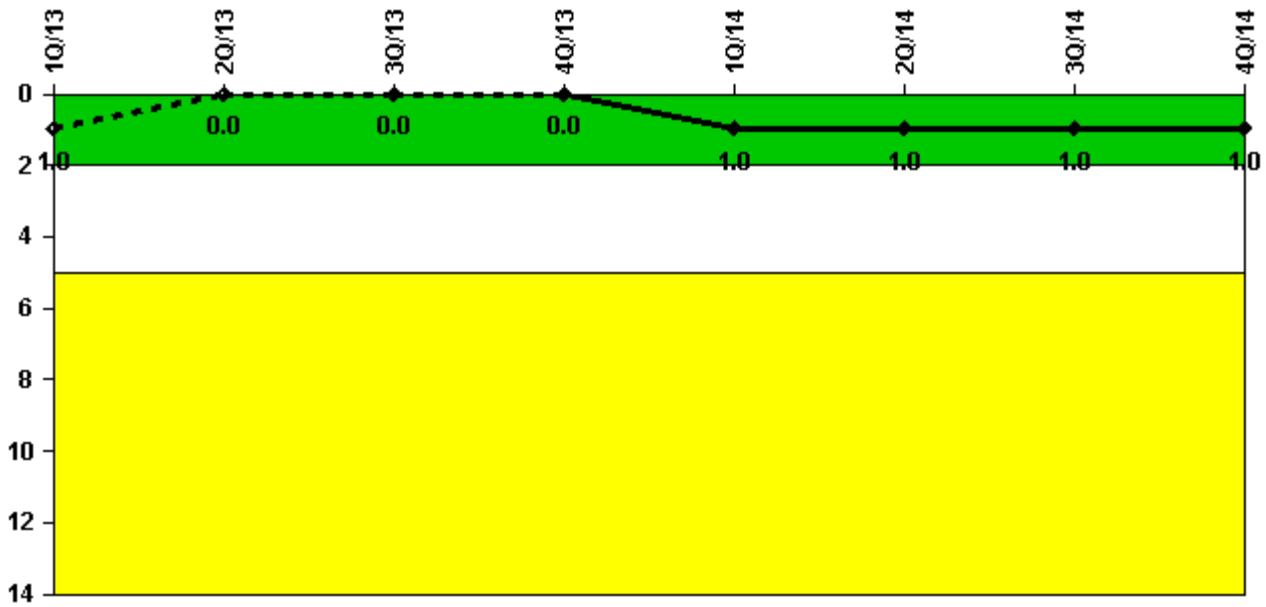
#### Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	129	128	129	129	129	129	129	129
Total sirens-tests	129	128	129	129	129	129	129	129
Indicator value	99.6%	99.8%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/13: In June, one siren is in an inaccessible area (area uninhabited due to river level) and is without AC power.

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

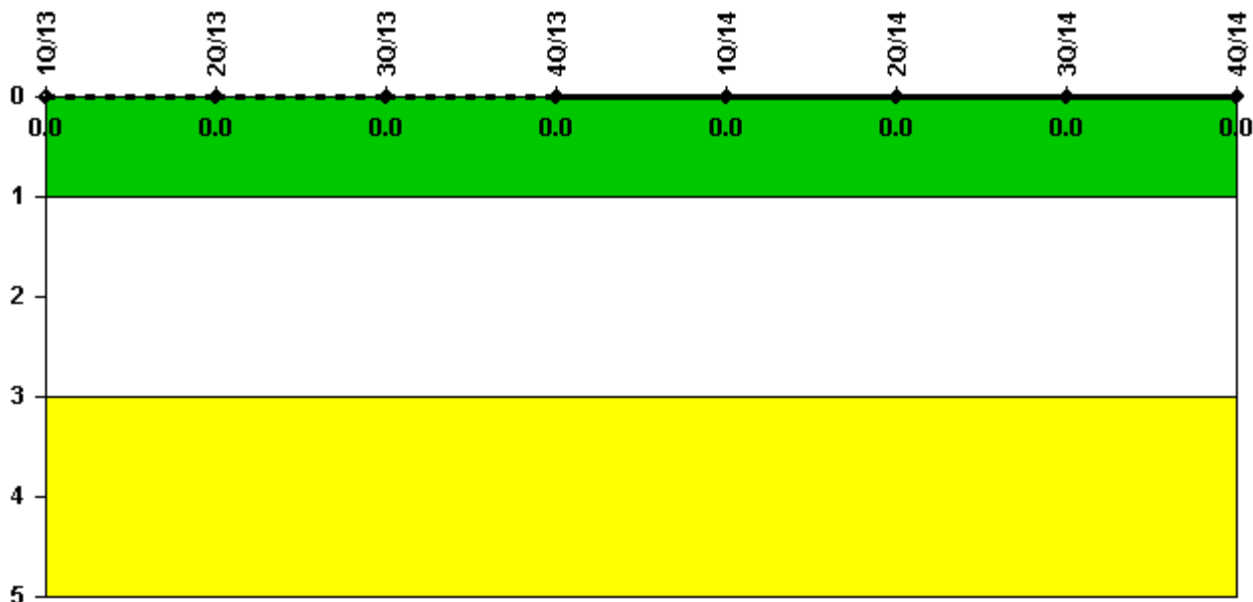
#### Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
High radiation area occurrences	0	0	0	0	1	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>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

Licensee Comments:

1Q/14: March data includes event for a bucket containing irradiated components being lifted without proper controls being in place.

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: February 3, 2015*

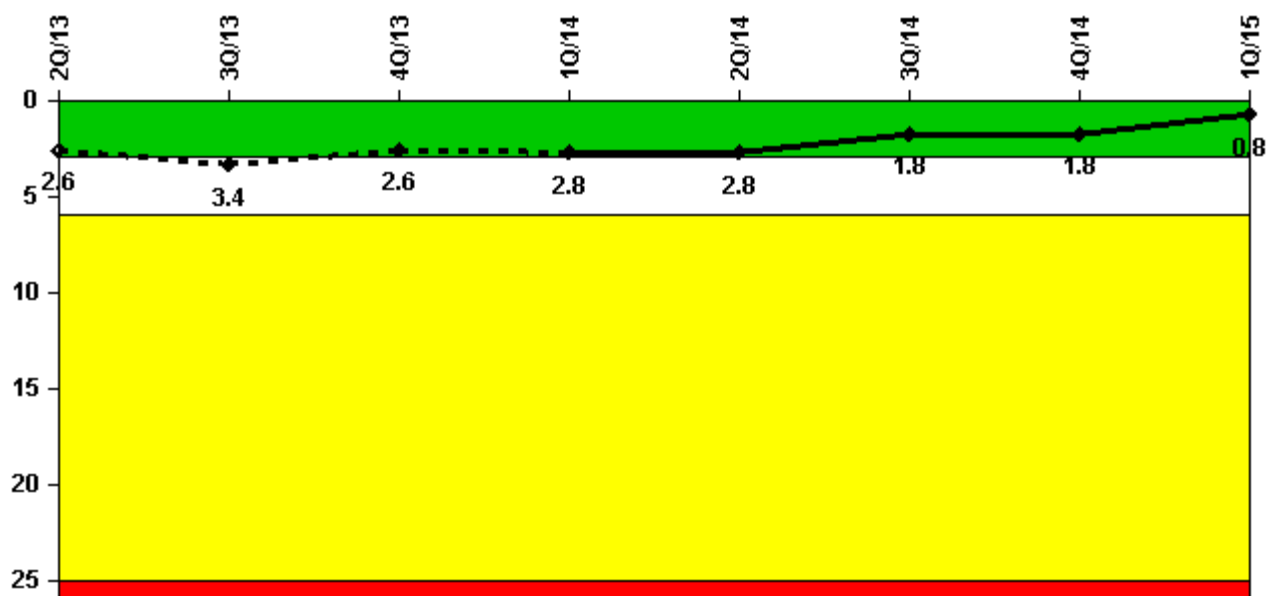
# Grand Gulf 1

## 1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

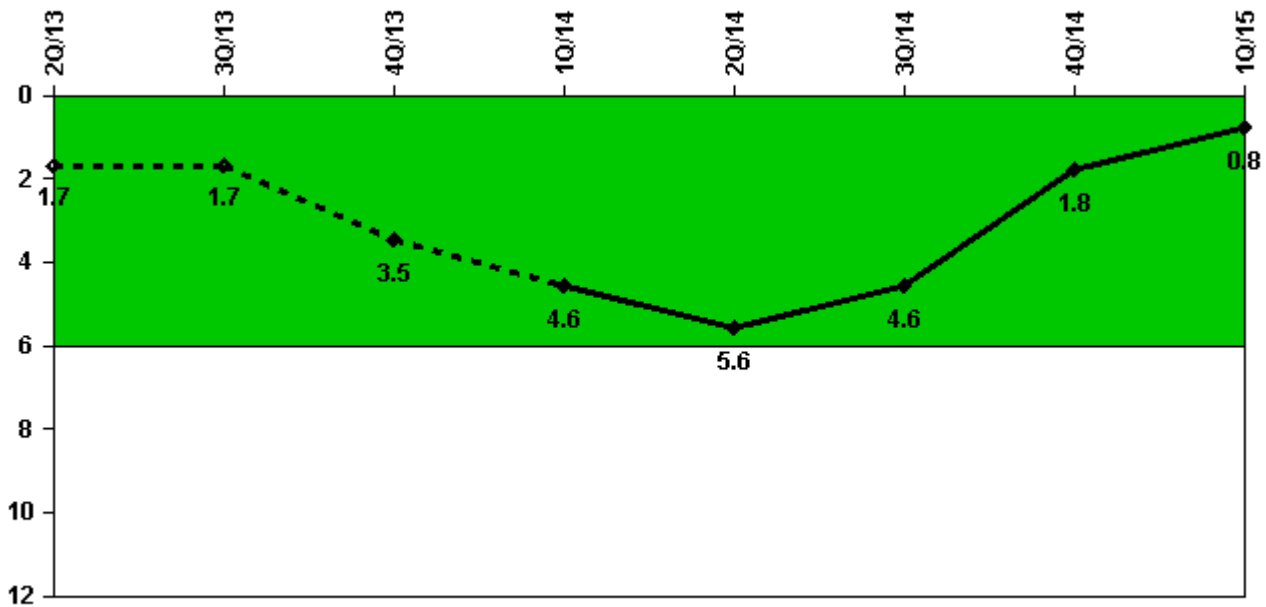
Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	1.0	0	2.0	0	0	0	1.0
Critical hours	2184.0	2119.3	1994.1	1238.2	2184.0	2208.0	2209.0	2005.0
<b>Indicator value</b>	<b>2.6</b>	<b>3.4</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>	<b>1.8</b>	<b>1.8</b>	<b>0.8</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 and 3/29/14 included in March data.



### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	1.0	3.0	1.0	1.0	0	0	0
Critical hours	2184.0	2119.3	1994.1	1238.2	2184.0	2208.0	2209.0	2005.0
<b>Indicator value</b>	<b>1.7</b>	<b>1.7</b>	<b>3.5</b>	<b>4.6</b>	<b>5.6</b>	<b>4.6</b>	<b>1.8</b>	<b>0.8</b>

#### Licensee Comments:

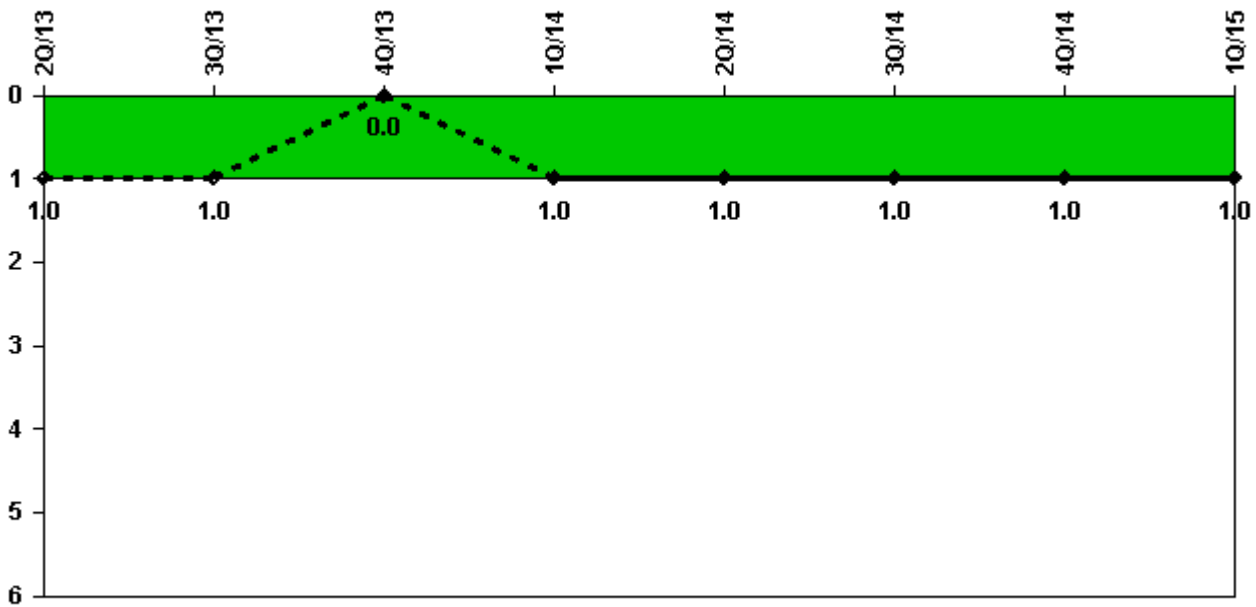
1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.

4Q/14: Plant power was reduced by greater than 20% on November 23, 2014 at the direction of the grid dispatcher due to grid instability. This down power was outside of management control.

2Q/14: Grand Gulf added one unplanned power change to 2Q2014. This event was excluded in error and has been entered into the corrective action program.

1Q/14: Unplanned power change for TVR issue included in March data.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

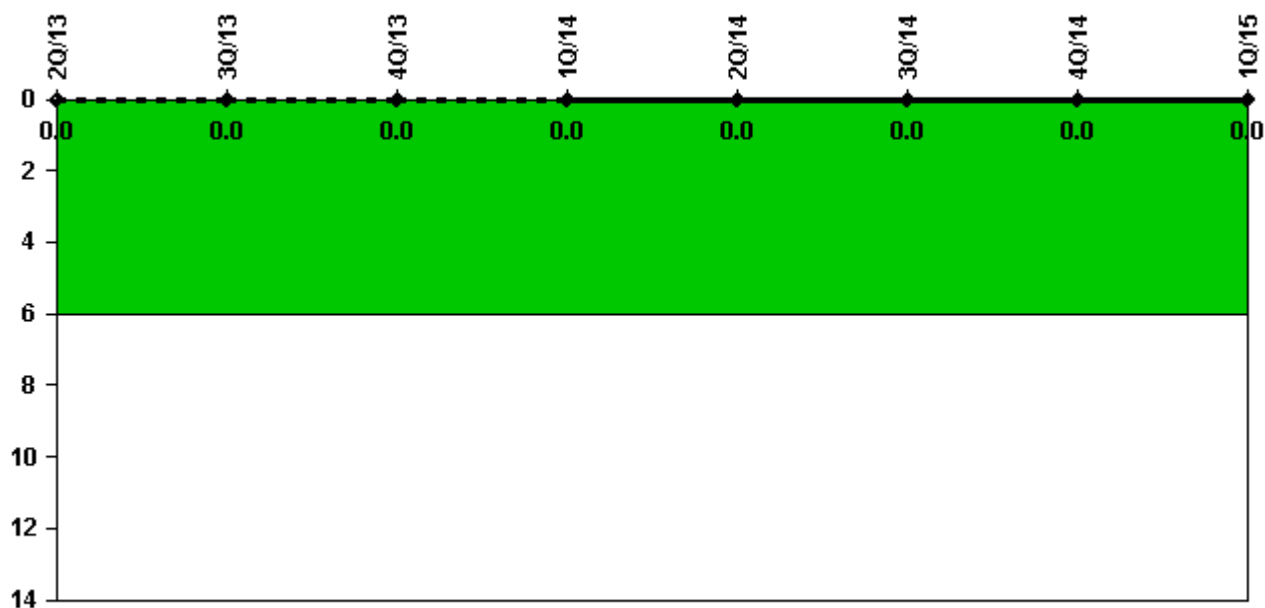
#### Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Scrams with complications	0	0	0	1.0	0	0	0	1.0
Indicator value	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 with Complications included in March data.

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

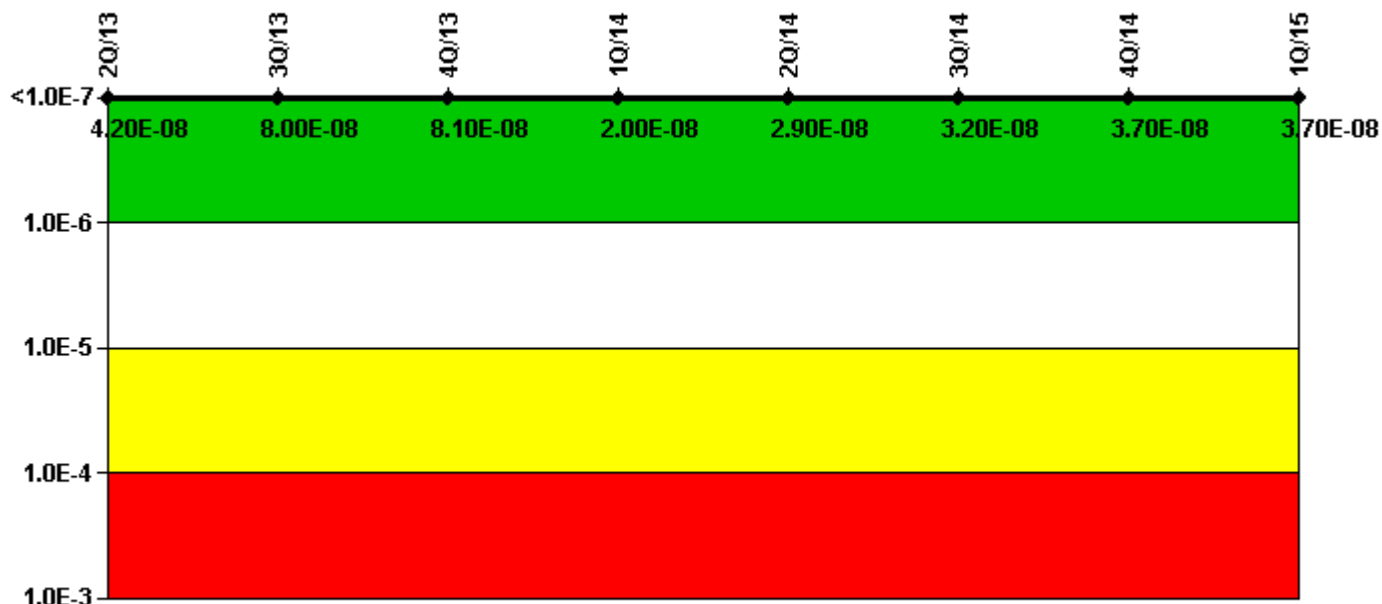
#### Notes

Safety System Functional Failures (BWR)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	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:

4Q/13: No LERs for November 2013

### Mitigating Systems Performance Index, Emergency AC Power System



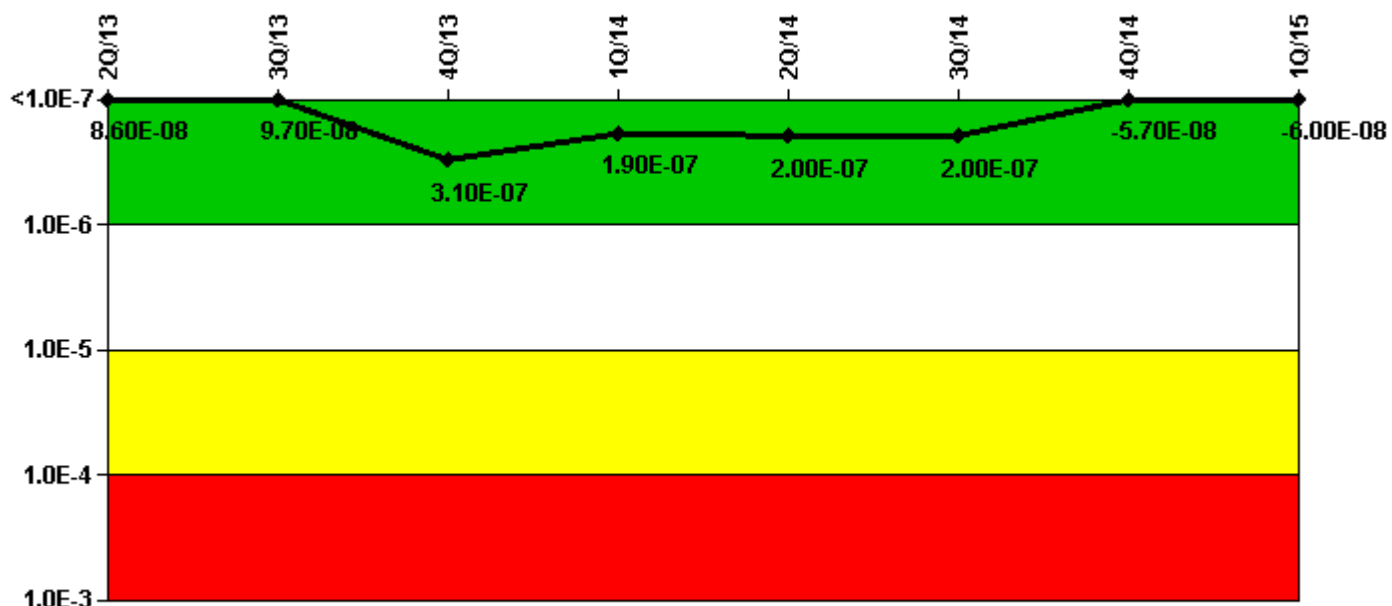
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI ( $\Delta$ CDF)	9.33E-09	1.26E-08	1.31E-08	2.39E-09	1.12E-08	1.42E-08	1.90E-08	1.61E-08
URI ( $\Delta$ CDF)	3.25E-08	6.77E-08	6.77E-08	1.78E-08	1.81E-08	1.74E-08	1.78E-08	2.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.20E-08	8.00E-08	8.10E-08	2.00E-08	2.90E-08	3.20E-08	3.70E-08	3.70E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



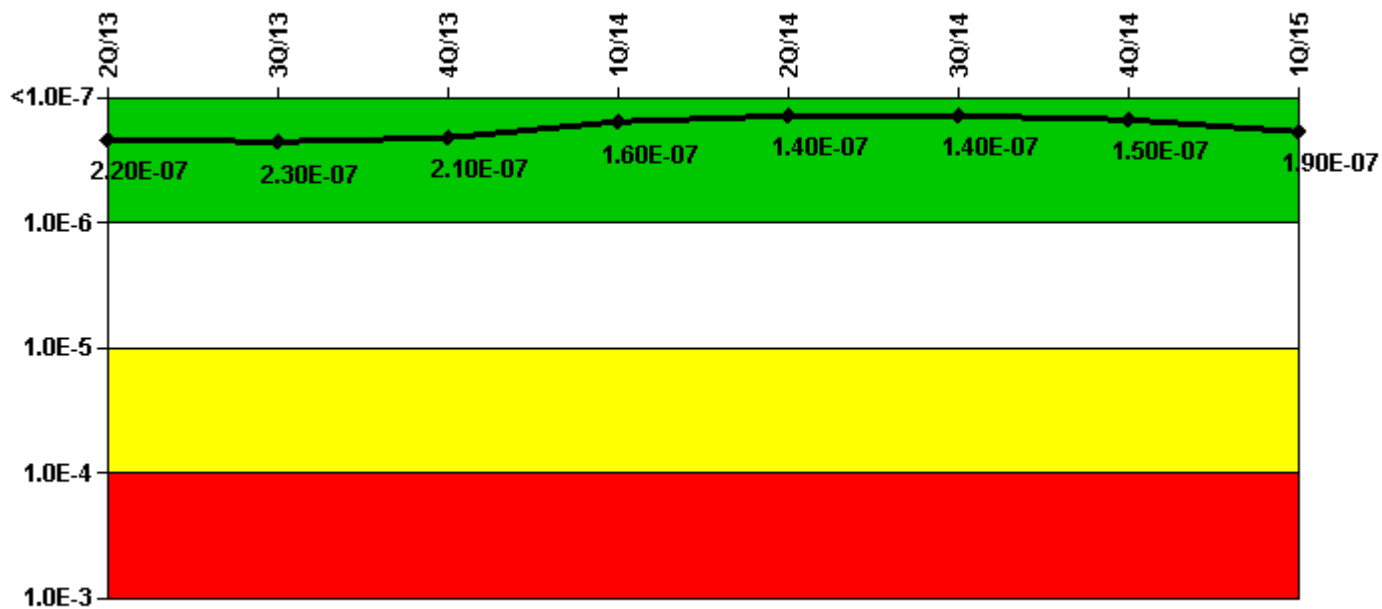
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	6.35E-08	7.95E-08	2.93E-07	2.86E-07	2.85E-07	2.85E-07	2.16E-08	1.80E-08
URI (ΔCDF)	2.25E-08	1.80E-08	1.60E-08	-9.12E-08	-8.76E-08	-8.56E-08	-7.83E-08	-7.75E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	<b>8.60E-08</b>	<b>9.70E-08</b>	<b>3.10E-07</b>	<b>1.90E-07</b>	<b>2.00E-07</b>	<b>2.00E-07</b>	<b>-5.70E-08</b>	<b>-6.00E-08</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



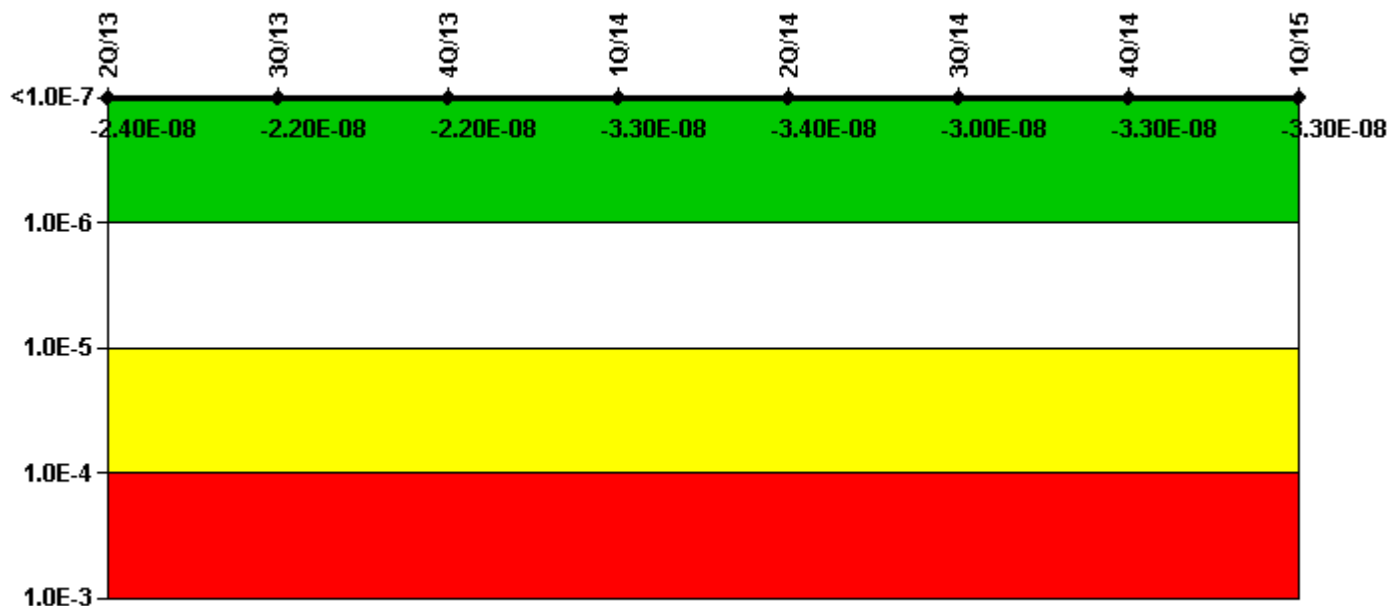
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	1.65E-09	1.89E-09	2.81E-09	7.21E-09	7.21E-09	7.21E-09	2.43E-08	5.30E-08
URI (ΔCDF)	2.14E-07	2.32E-07	2.05E-07	1.49E-07	1.28E-07	1.28E-07	1.28E-07	1.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.20E-07	2.30E-07	2.10E-07	1.60E-07	1.40E-07	1.40E-07	1.50E-07	1.90E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



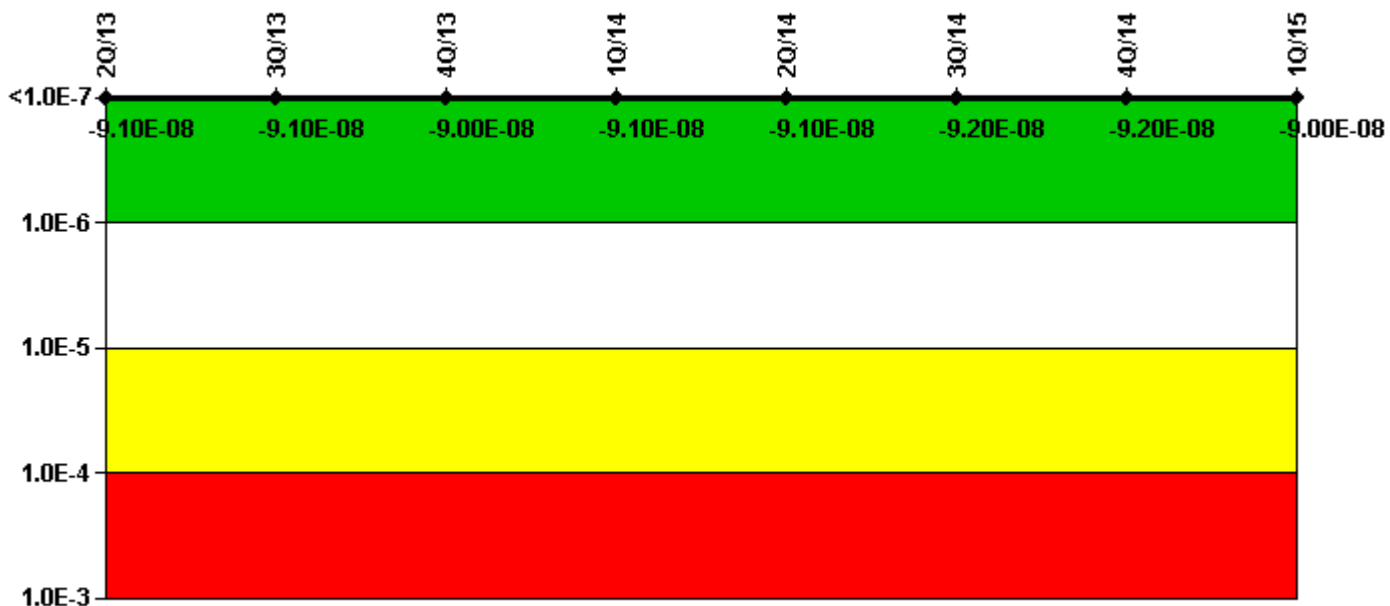
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI ( $\Delta$ CDF)	-2.03E-09	-4.69E-10	3.02E-10	-8.56E-09	-8.56E-09	-3.39E-09	-6.21E-09	-7.80E-09
URI ( $\Delta$ CDF)	-2.16E-08	-2.12E-08	-2.18E-08	-2.44E-08	-2.51E-08	-2.62E-08	-2.67E-08	-2.56E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-2.20E-08	-2.20E-08	-3.30E-08	-3.40E-08	-3.00E-08	-3.30E-08	-3.30E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



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

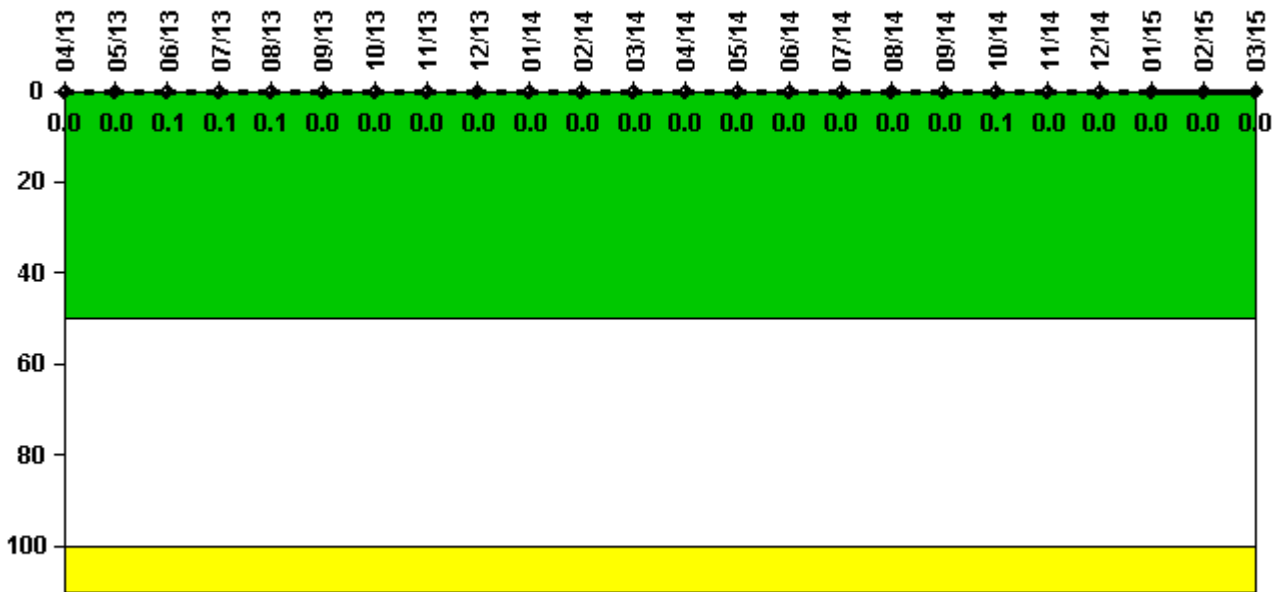
#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.50E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-8.93E-08	-8.90E-08	-8.88E-08	-8.97E-08	-8.97E-08	-9.03E-08	-9.01E-08	-8.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.10E-08	-9.10E-08	-9.00E-08	-9.10E-08	-9.10E-08	-9.20E-08	-9.20E-08	-9.00E-08

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

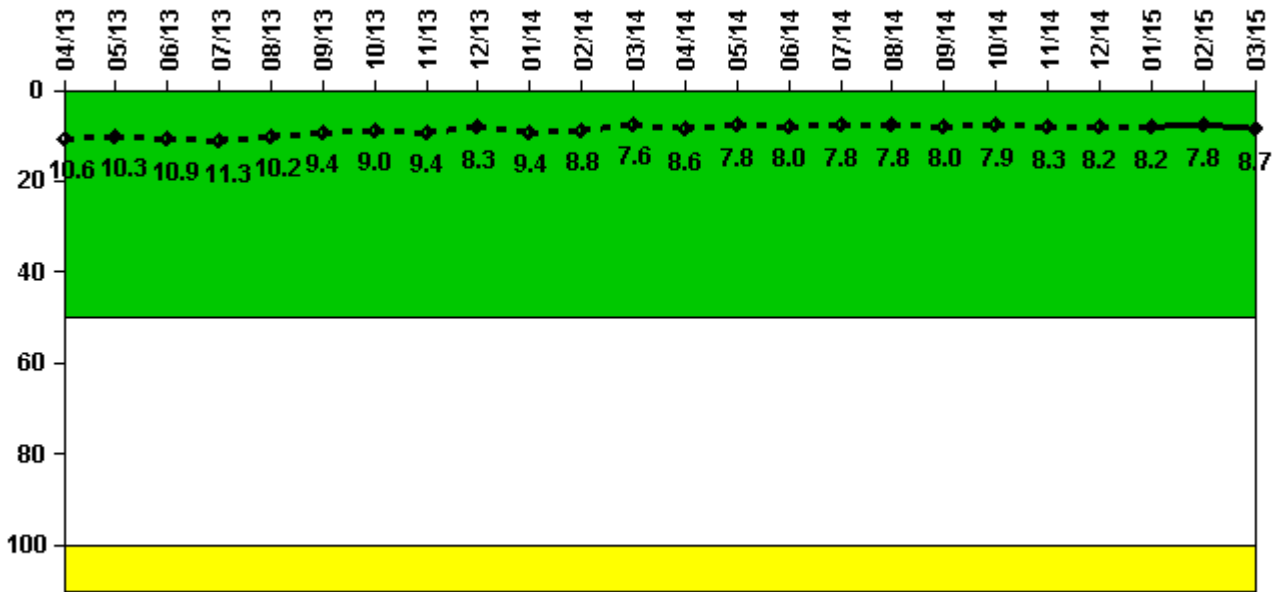
#### Notes

Reactor Coolant System Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.000090	0.000086	0.000105	0.000105	0.000101	0.000089	0.000092	0.000026	0.000049	0.000055	0.000055	0.000084
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	0.1	0.1	0.1	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.000070	0.000044	0.000034	0.000043	0.000065	0.000069	0.000107	0.000063	0.000038	0.000021	0.000008	0.000093
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	0.1	0	0	0	0	0

Licensee Comments:

6/13: June only one Reactor Water Clean-Up (RWCU) Filter in-service.

### Reactor Coolant System Leakage



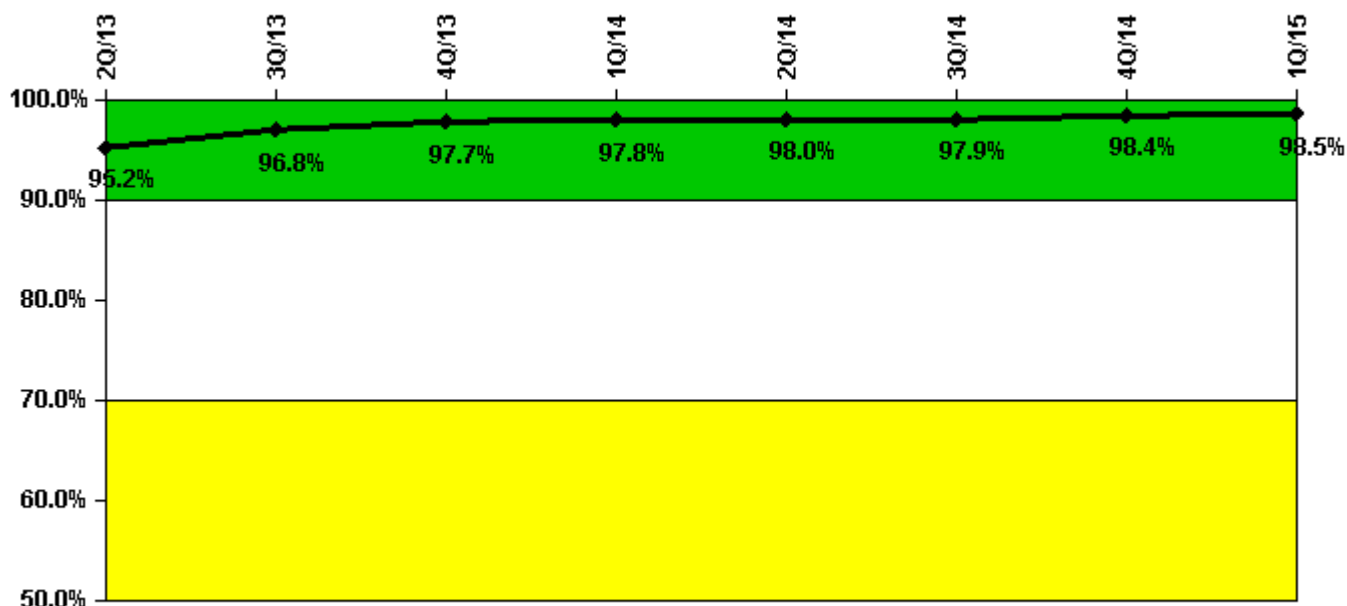
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	3.180	3.090	3.270	3.400	3.050	2.810	2.690	2.810	2.500	2.810	2.640	2.280
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>10.6</b>	<b>10.3</b>	<b>10.9</b>	<b>11.3</b>	<b>10.2</b>	<b>9.4</b>	<b>9.0</b>	<b>9.4</b>	<b>8.3</b>	<b>9.4</b>	<b>8.8</b>	<b>7.6</b>
Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	2.570	2.350	2.410	2.340	2.350	2.410	2.370	2.480	2.450	2.460	2.330	2.600
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>8.6</b>	<b>7.8</b>	<b>8.0</b>	<b>7.8</b>	<b>7.8</b>	<b>8.0</b>	<b>7.9</b>	<b>8.3</b>	<b>8.2</b>	<b>8.2</b>	<b>7.8</b>	<b>8.7</b>

Licensee Comments: none

### Drill/Exercise Performance



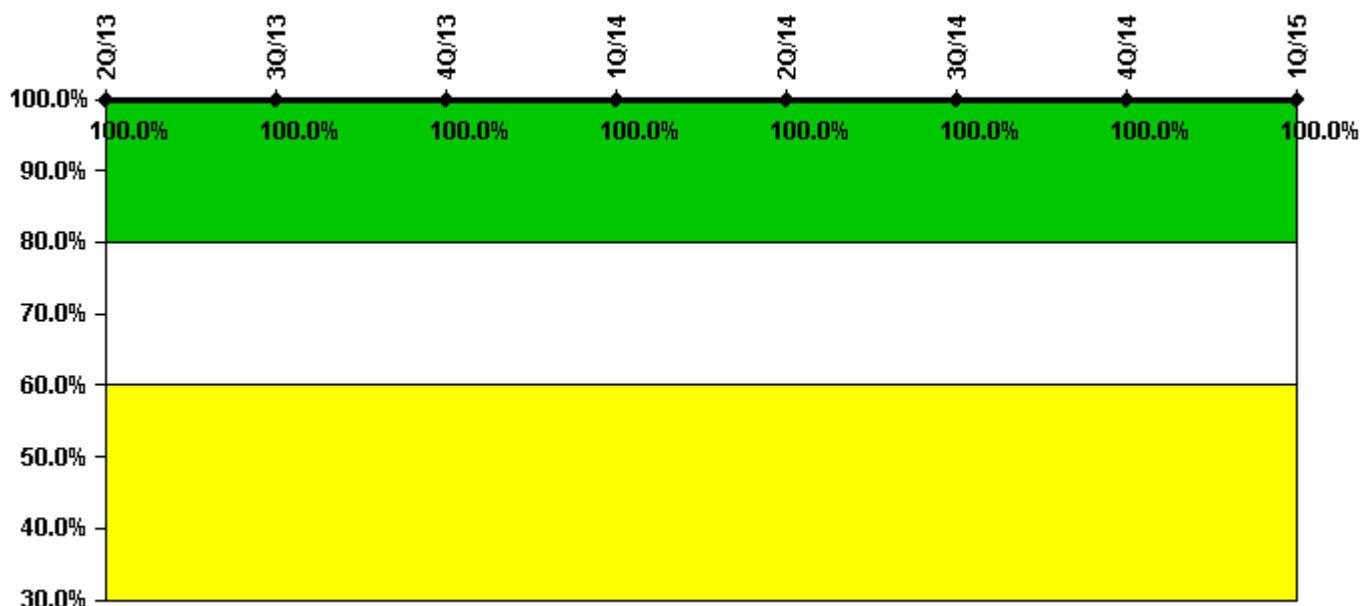
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful opportunities	17.0	23.0	66.0	10.0	24.0	52.0	50.0	26.0
Total opportunities	18.0	23.0	66.0	10.0	24.0	54.0	50.0	27.0
Indicator value	95.2%	96.8%	97.7%	97.8%	98.0%	97.9%	98.4%	98.5%

Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

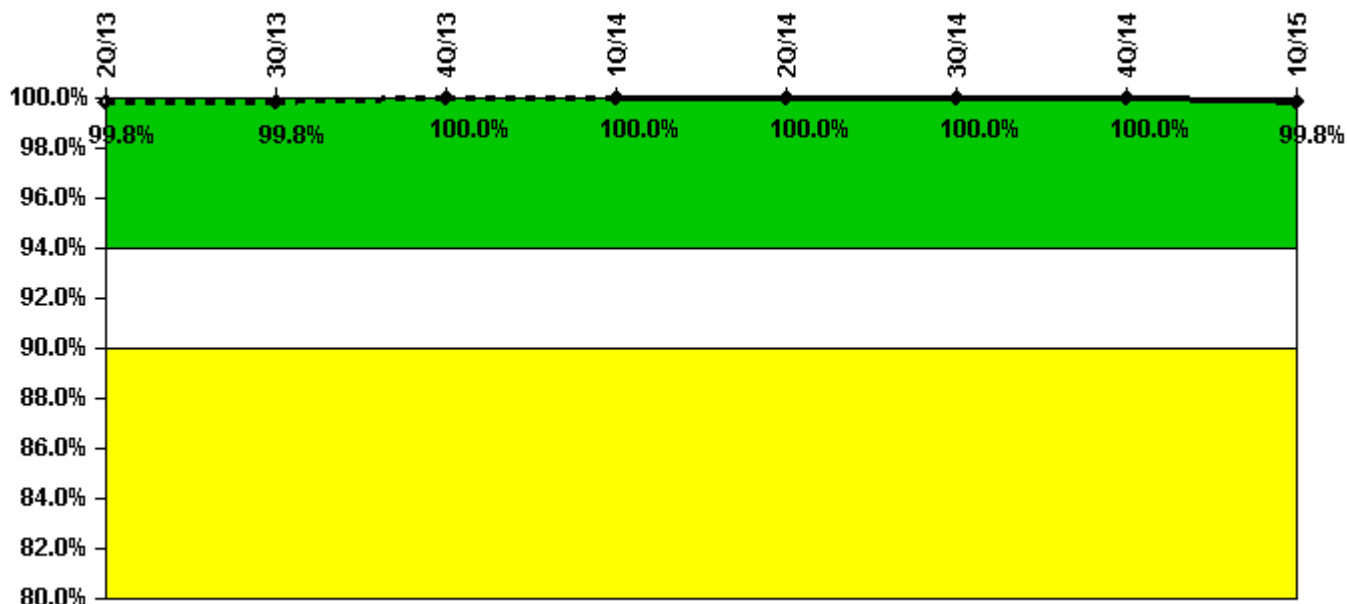
#### Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	67.0	66.0	74.0	68.0	71.0	63.0	64.0	62.0
Total Key personnel	67.0	66.0	74.0	68.0	71.0	63.0	64.0	62.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/13: First Quarter 2013 revised do to a retirement in March 2013 and not noticed until July 203. CR-GGN-2013-4296 written to address issue. This change does not affect the color of the indicator (green).

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

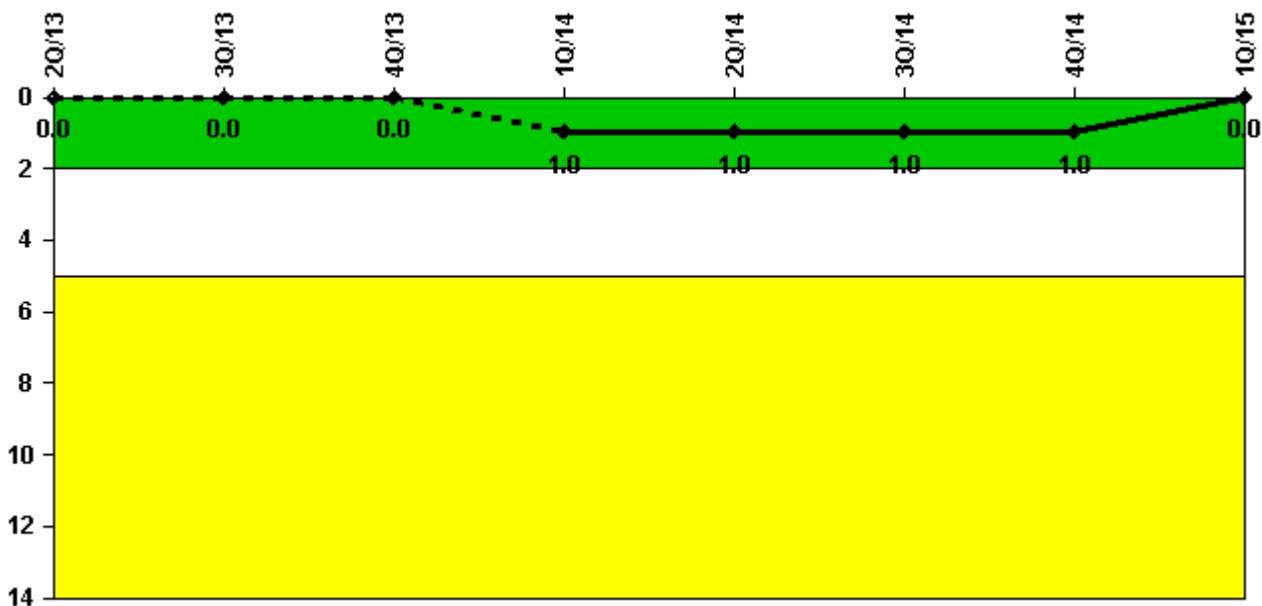
#### Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	128	129	129	129	129	129	129	128
Total sirens-tests	128	129	129	129	129	129	129	129
Indicator value	99.8%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%

Licensee Comments:

2Q/13: In June, one siren is in an inaccessible area (area uninhabited due to river level) and is without AC power.

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

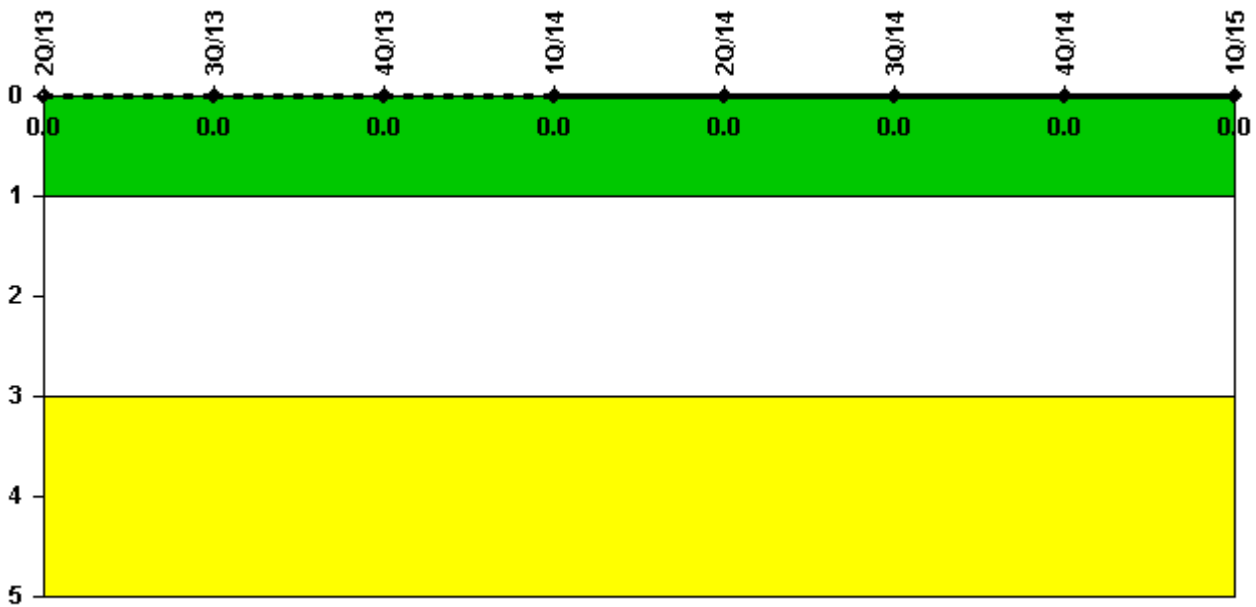
#### Notes

Occupational Exposure Control Effectiveness	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
High radiation area occurrences	0	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>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>

Licensee Comments:

1Q/14: March data includes event for a bucket containing irradiated components being lifted without proper controls being in place.

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: April 23, 2015*



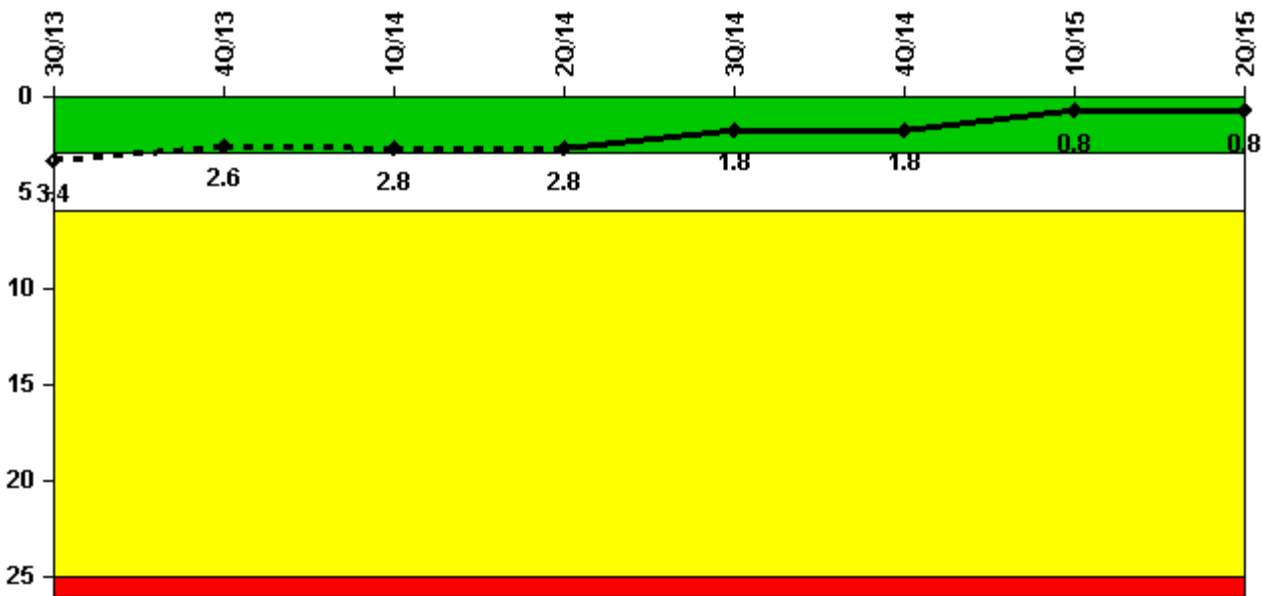
# Grand Gulf 1

## 2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

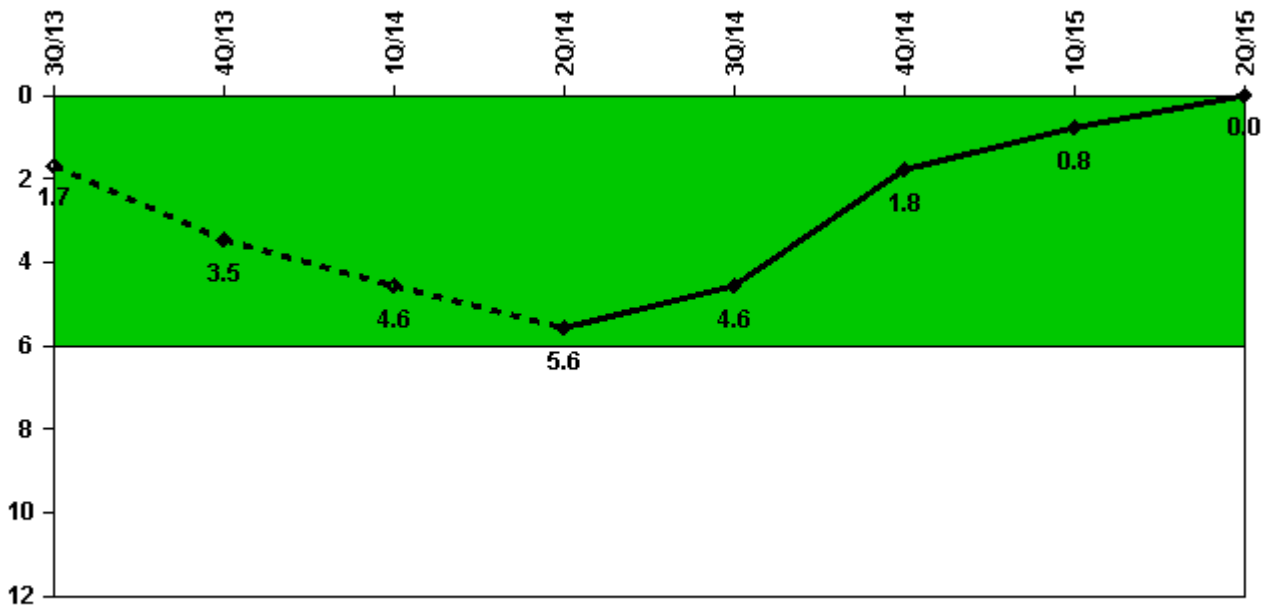
### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	1.0	0	2.0	0	0	0	1.0	0
Critical hours	2119.3	1994.1	1238.2	2184.0	2208.0	2209.0	2005.0	2184.0
Indicator value	3.4	2.6	2.8	2.8	1.8	1.8	0.8	0.8

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 and 3/29/14 included in March data.

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	1.0	3.0	1.0	1.0	0	0	0	0
Critical hours	2119.3	1994.1	1238.2	2184.0	2208.0	2209.0	2005.0	2184.0
<b>Indicator value</b>	<b>1.7</b>	<b>3.5</b>	<b>4.6</b>	<b>5.6</b>	<b>4.6</b>	<b>1.8</b>	<b>0.8</b>	<b>0</b>

Licensee Comments:

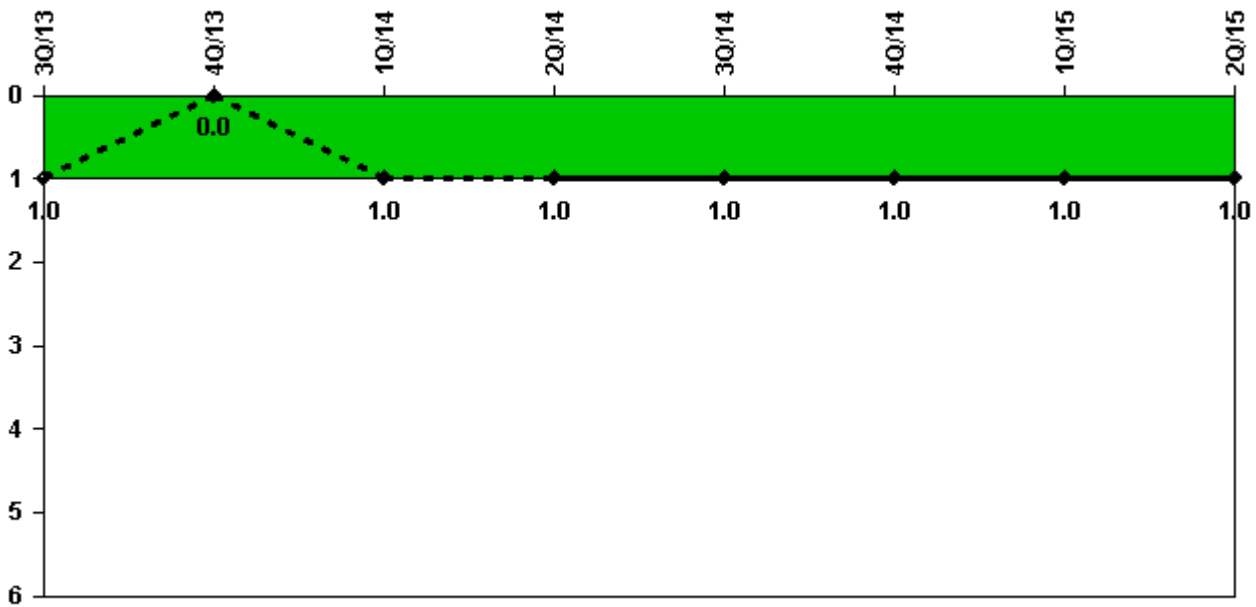
1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.

4Q/14: Plant power was reduced by greater than 20% on November 23, 2014 at the direction of the grid dispatcher due to grid instability. This down power was outside of management control.

2Q/14: Grand Gulf added one unplanned power change to 2Q2014. This event was excluded in error and has been entered into the corrective action program.

1Q/14: Unplanned power change for TVR issue included in March data.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

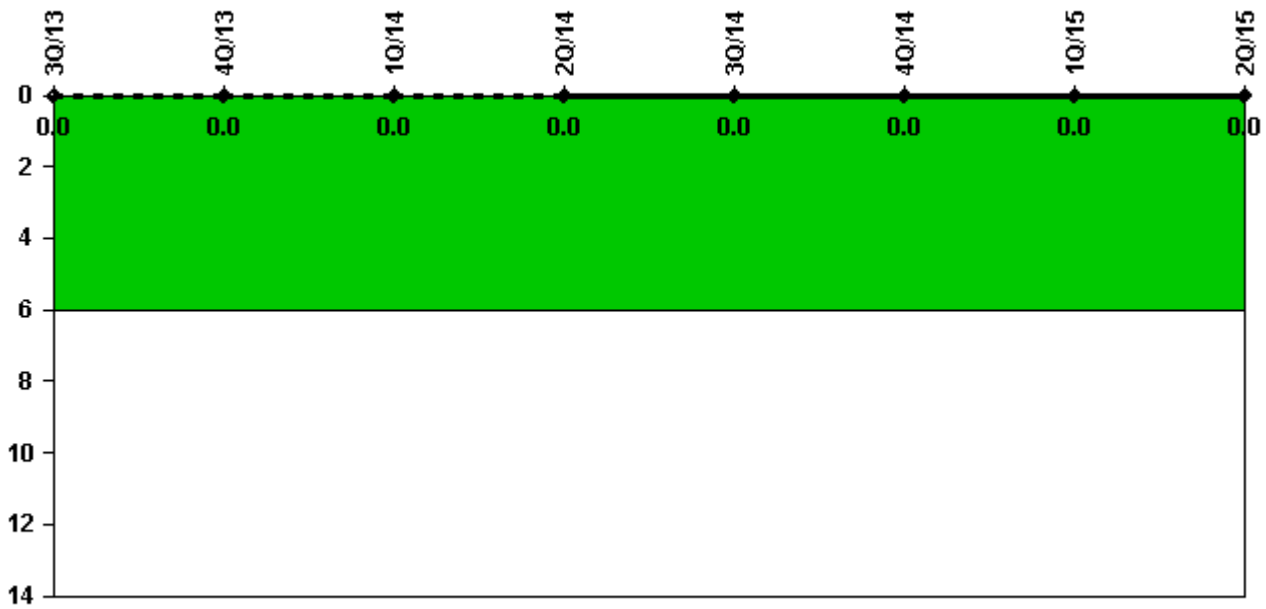
#### Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Scrams with complications	0	0	1.0	0	0	0	1.0	0
<b>Indicator value</b>	<b>1.0</b>	<b>0.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 with Complications included in March data.

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

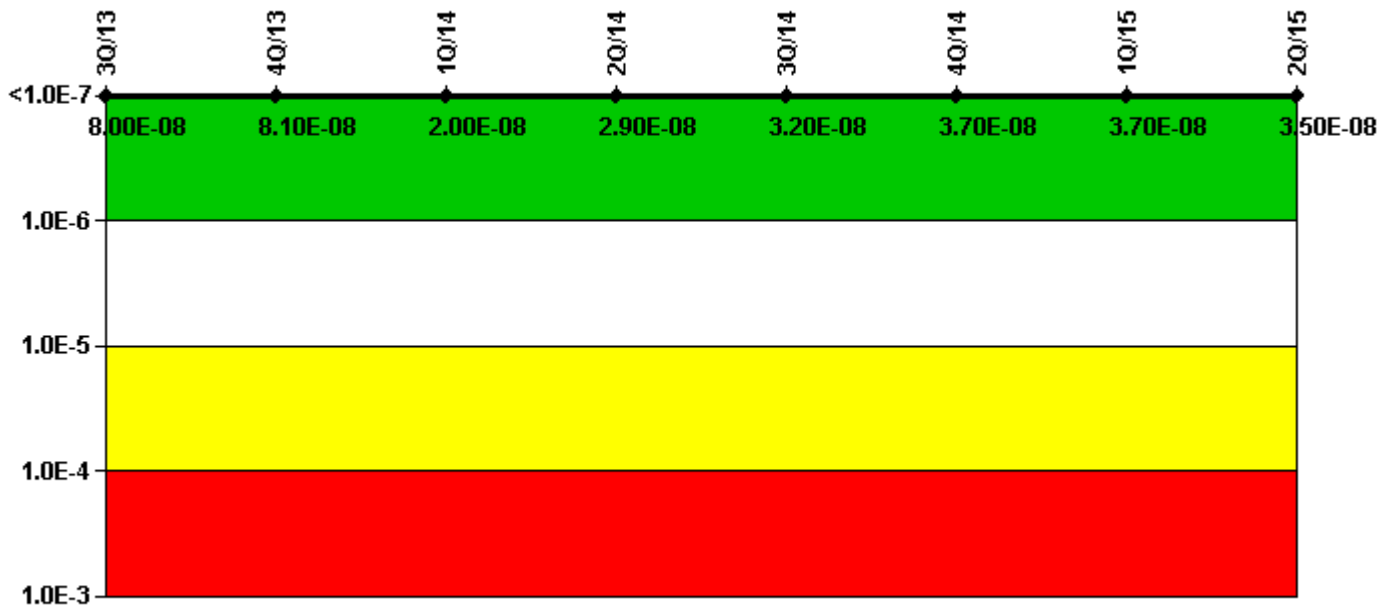
#### Notes

Safety System Functional Failures (BWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	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:

4Q/13: No LERs for November 2013

### Mitigating Systems Performance Index, Emergency AC Power System



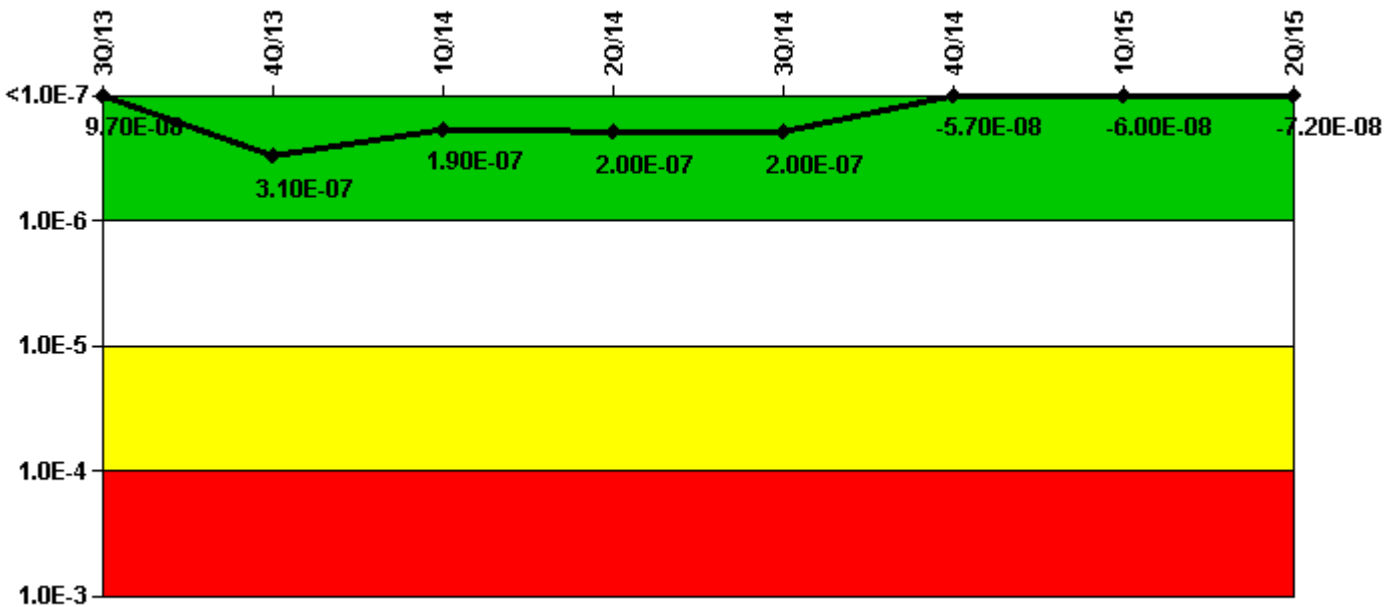
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI ( $\Delta$ CDF)	1.26E-08	1.31E-08	2.39E-09	1.12E-08	1.42E-08	1.90E-08	1.61E-08	1.41E-08
URI ( $\Delta$ CDF)	6.77E-08	6.77E-08	1.78E-08	1.81E-08	1.74E-08	1.78E-08	2.13E-08	2.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.00E-08	8.10E-08	2.00E-08	2.90E-08	3.20E-08	3.70E-08	3.70E-08	3.50E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



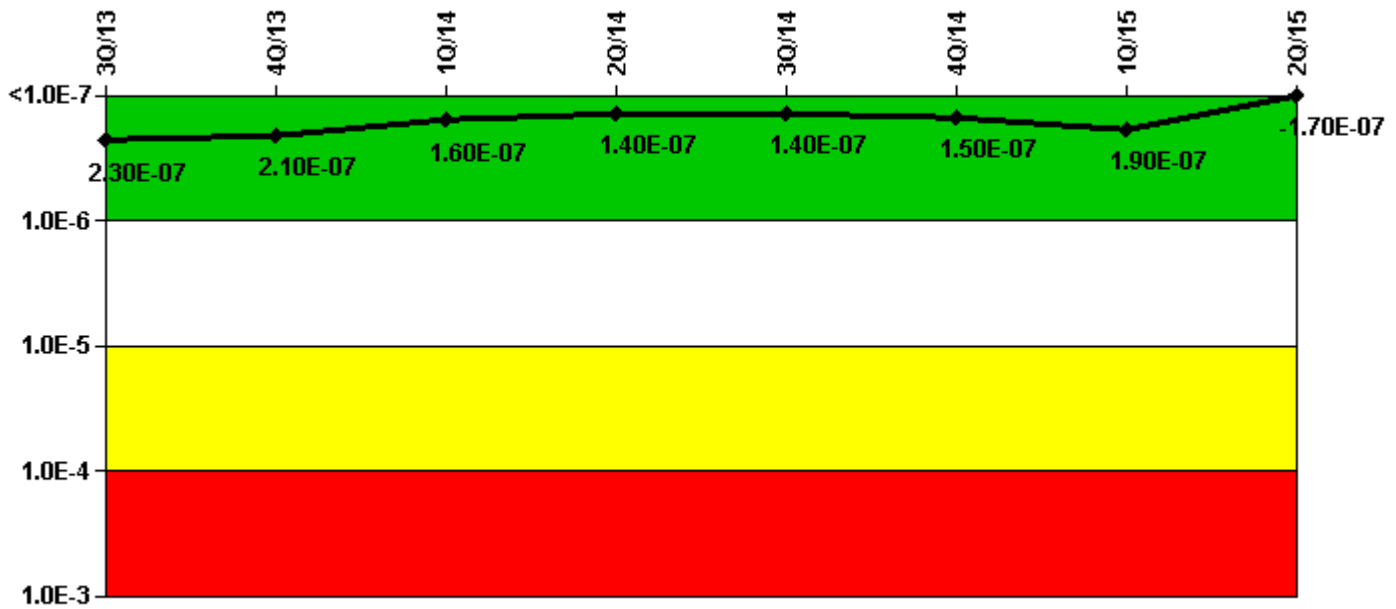
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	7.95E-08	2.93E-07	2.86E-07	2.85E-07	2.85E-07	2.16E-08	1.80E-08	3.12E-08
URI (ΔCDF)	1.80E-08	1.60E-08	-9.12E-08	-8.76E-08	-8.56E-08	-7.83E-08	-7.75E-08	-1.03E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.70E-08	3.10E-07	1.90E-07	2.00E-07	2.00E-07	5.70E-08	6.00E-08	7.20E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



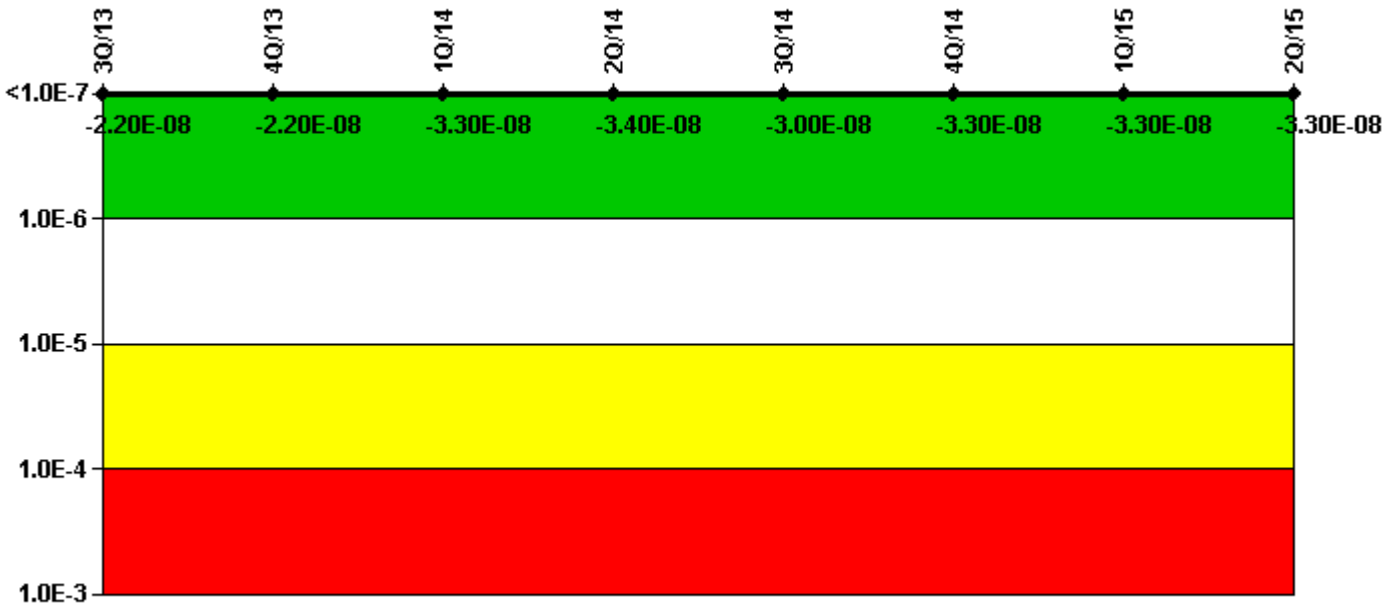
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI ( $\Delta$ CDF)	1.89E-09	2.81E-09	7.21E-09	7.21E-09	7.21E-09	2.43E-08	5.30E-08	2.80E-08
URI ( $\Delta$ CDF)	2.32E-07	2.05E-07	1.49E-07	1.28E-07	1.28E-07	1.28E-07	1.35E-07	-1.99E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.30E-07	2.10E-07	1.60E-07	1.40E-07	1.40E-07	1.50E-07	1.90E-07	-1.70E-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	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI ( $\Delta$ CDF)	-4.69E-10	3.02E-10	-8.56E-09	-8.56E-09	-3.39E-09	-6.21E-09	-7.80E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.12E-08	-2.18E-08	-2.44E-08	-2.51E-08	-2.62E-08	-2.67E-08	-2.56E-08	-2.41E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.20E-08	-3.30E-08	-3.40E-08	-3.00E-08	-3.30E-08	-3.30E-08	-3.30E-08

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



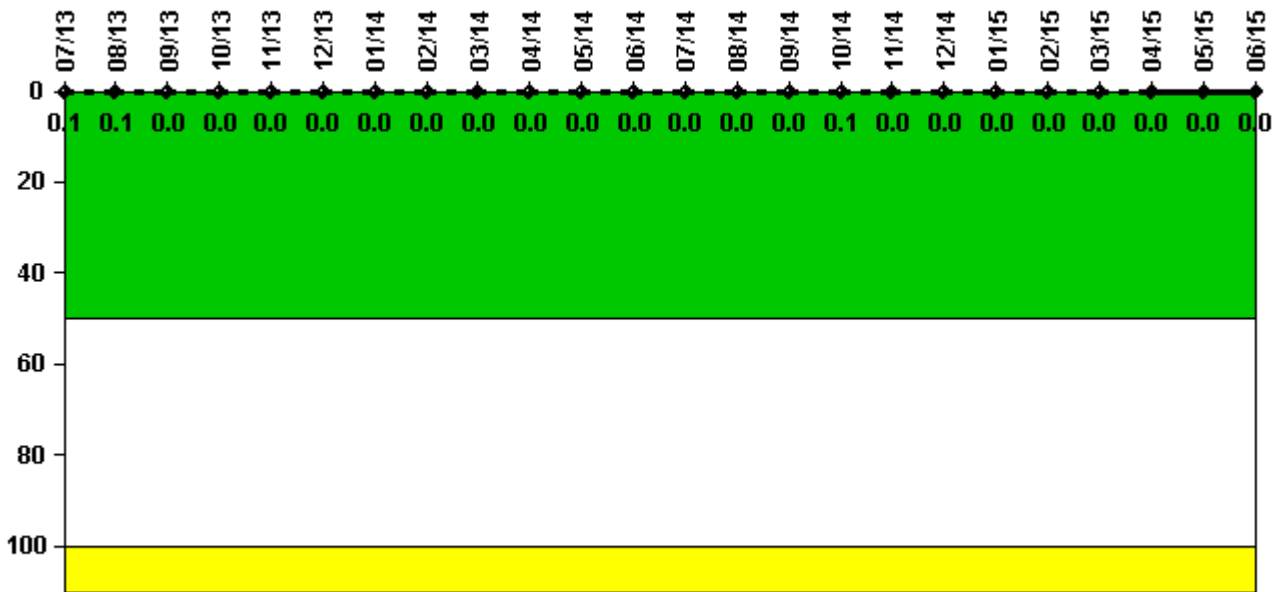
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI ( $\Delta$ CDF)	-1.71E-09	-1.50E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-8.90E-08	-8.88E-08	-8.97E-08	-8.97E-08	-9.03E-08	-9.01E-08	-8.87E-08	-8.77E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.10E-08	-9.00E-08	-9.10E-08	-9.10E-08	-9.20E-08	-9.20E-08	-9.00E-08	-8.90E-08

Licensee Comments: none

### Reactor Coolant System Activity



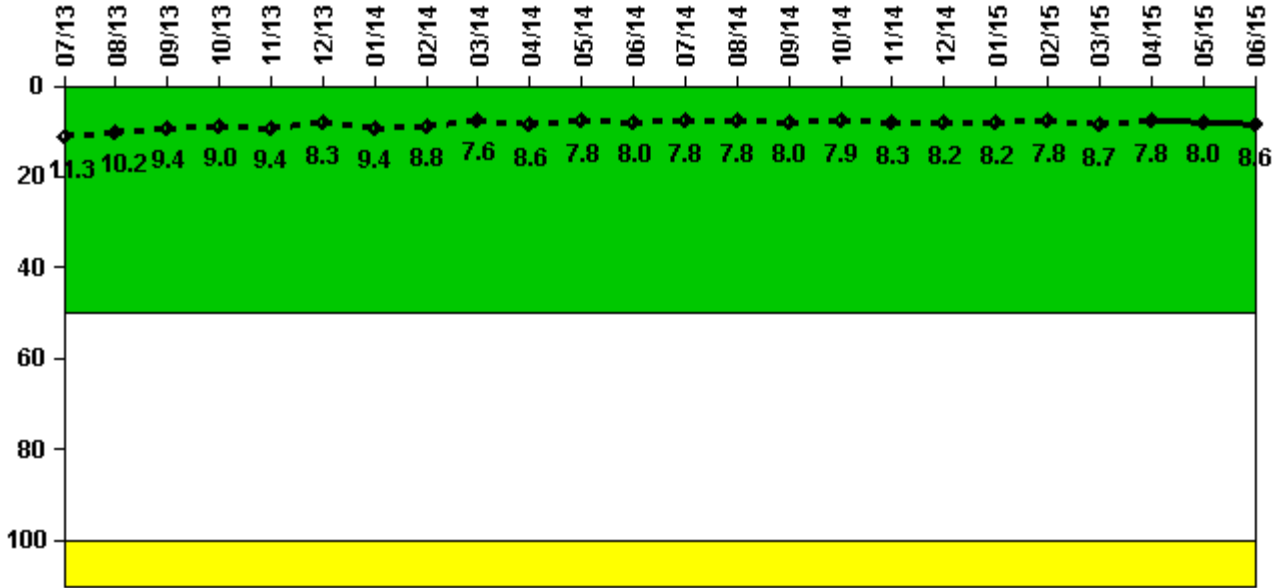
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.000105	0.000101	0.000089	0.000092	0.000026	0.000049	0.000055	0.000055	0.000084	0.000070	0.000044	0.000034
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	0.1	0.1	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0.000043	0.000065	0.000069	0.000107	0.000063	0.000038	0.000021	0.000008	0.000093	0.000036	0.000037	0.000039
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	0.1	0	0	0	0	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

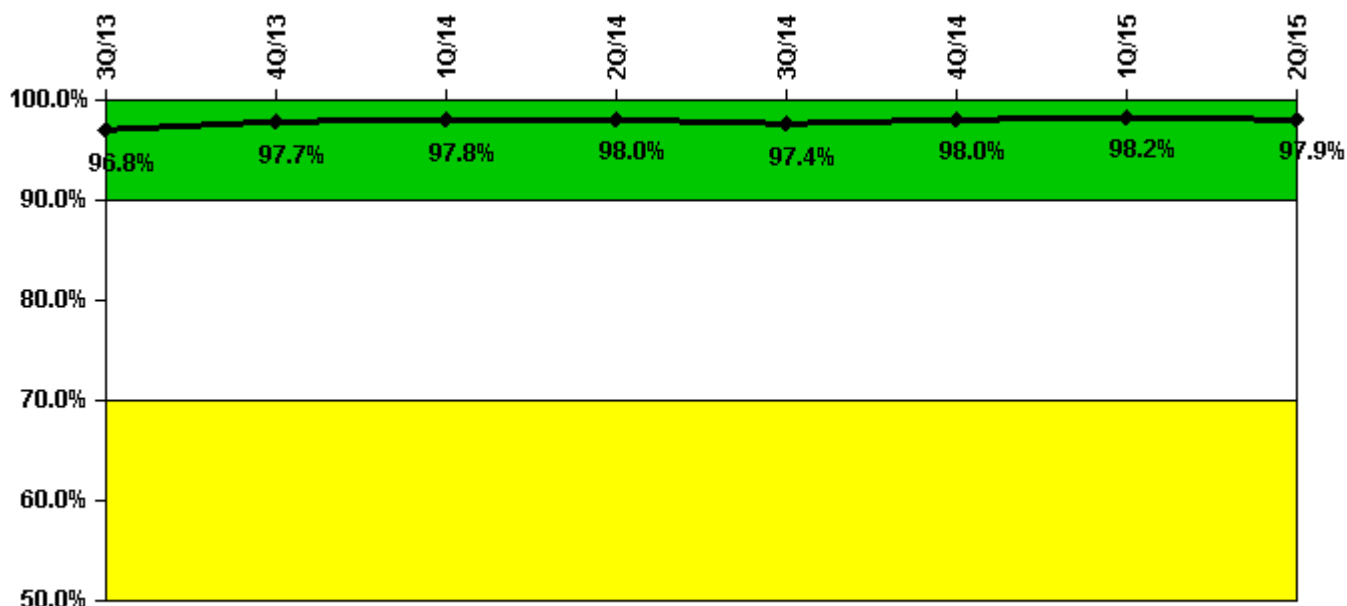
Reactor Coolant System Leakage	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	3.400	3.050	2.810	2.690	2.810	2.500	2.810	2.640	2.280	2.570	2.350	2.410
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	11.3	10.2	9.4	9.0	9.4	8.3	9.4	8.8	7.6	8.6	7.8	8.0

Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	2.340	2.350	2.410	2.370	2.480	2.450	2.460	2.330	2.600	2.350	2.400	2.580
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.8	7.8	8.0	7.9	8.3	8.2	8.2	7.8	8.7	7.8	8.0	8.6

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

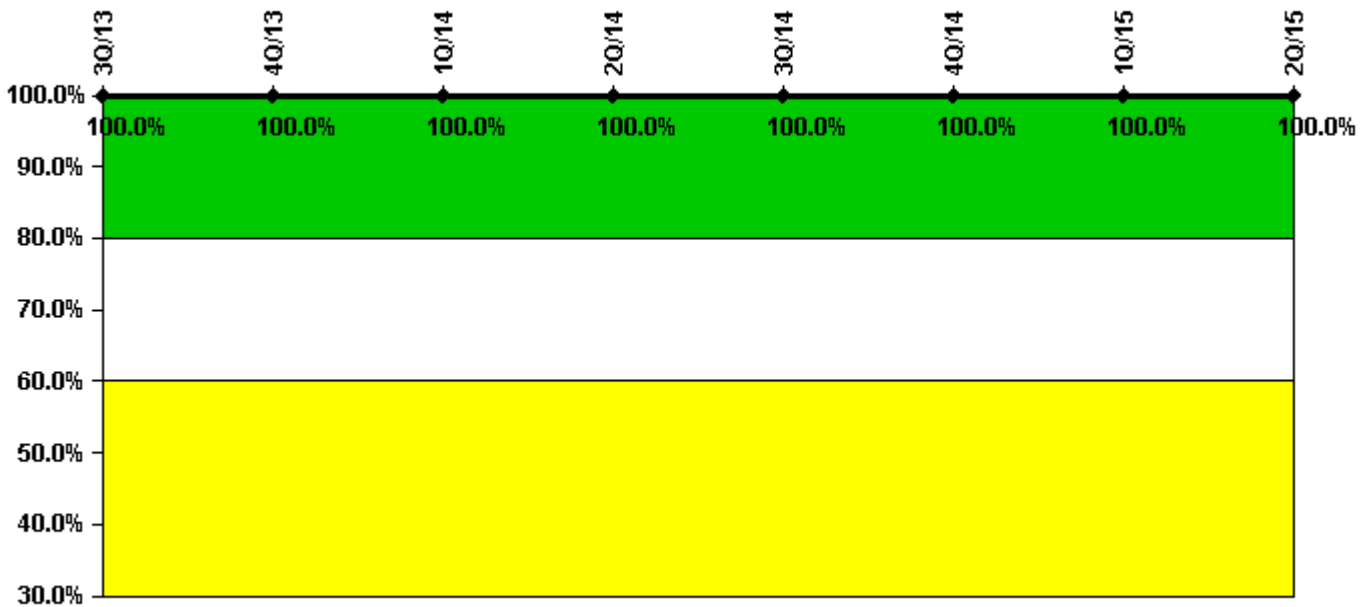
Drill/Exercise Performance	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful opportunities	23.0	66.0	10.0	24.0	51.0	50.0	25.0	31.0
Total opportunities	23.0	66.0	10.0	24.0	54.0	50.0	26.0	33.0
Indicator value	96.8%	97.7%	97.8%	98.0%	97.4%	98.0%	98.2%	97.9%

Licensee Comments:

1Q/15: Performed data update for the data reported in January 2015 (RAM 7-3-15)

3Q/14: Performed update to the data reported in August 2014 (RAM 7-3-2015)

### ERO Drill Participation



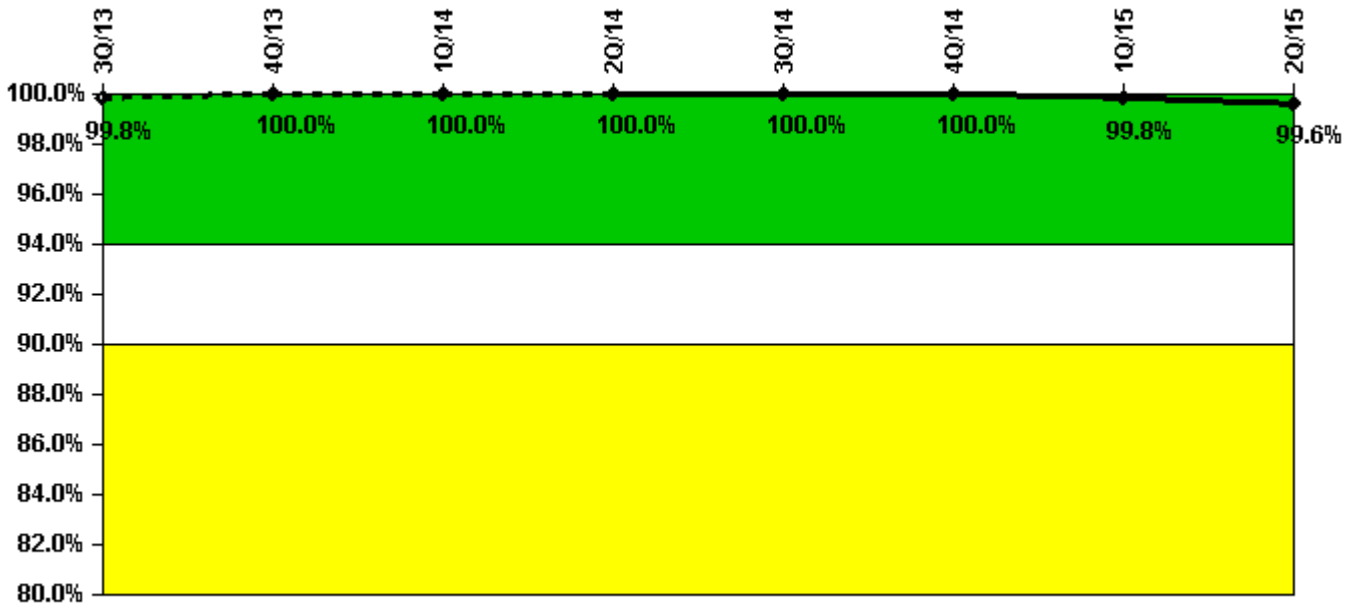
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	66.0	74.0	68.0	71.0	63.0	64.0	62.0	65.0
Total Key personnel	66.0	74.0	68.0	71.0	63.0	64.0	62.0	65.0
<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



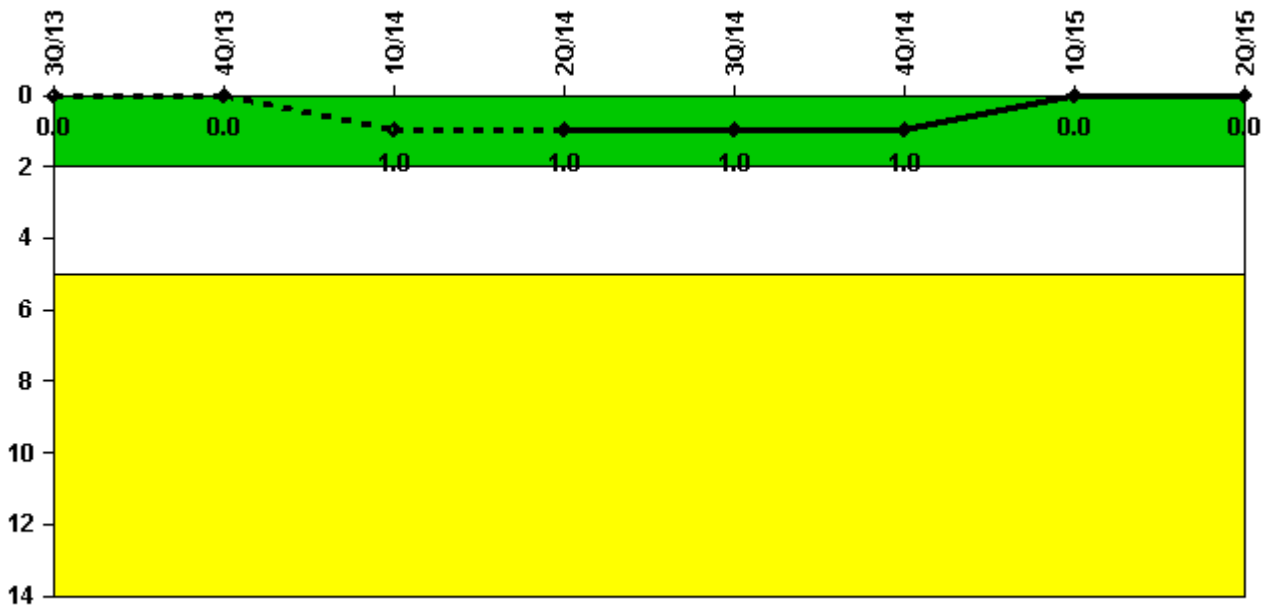
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	129	129	129	129	129	129	128	126
Total sirens-tests	129	129	129	129	129	129	129	127
Indicator value	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	99.6%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

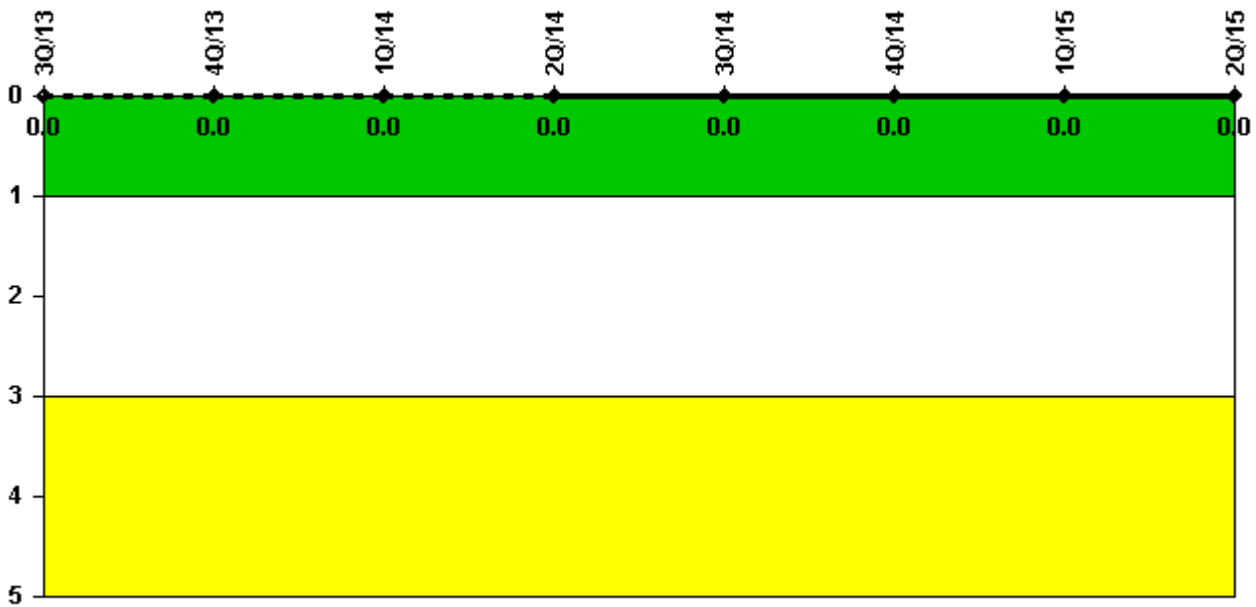
#### Notes

Occupational Exposure Control Effectiveness	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
High radiation area occurrences	0	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>

Licensee Comments:

1Q/14: March data includes event for a bucket containing irradiated components being lifted without proper controls being in place.

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



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

*Last Modified: July 24, 2015*

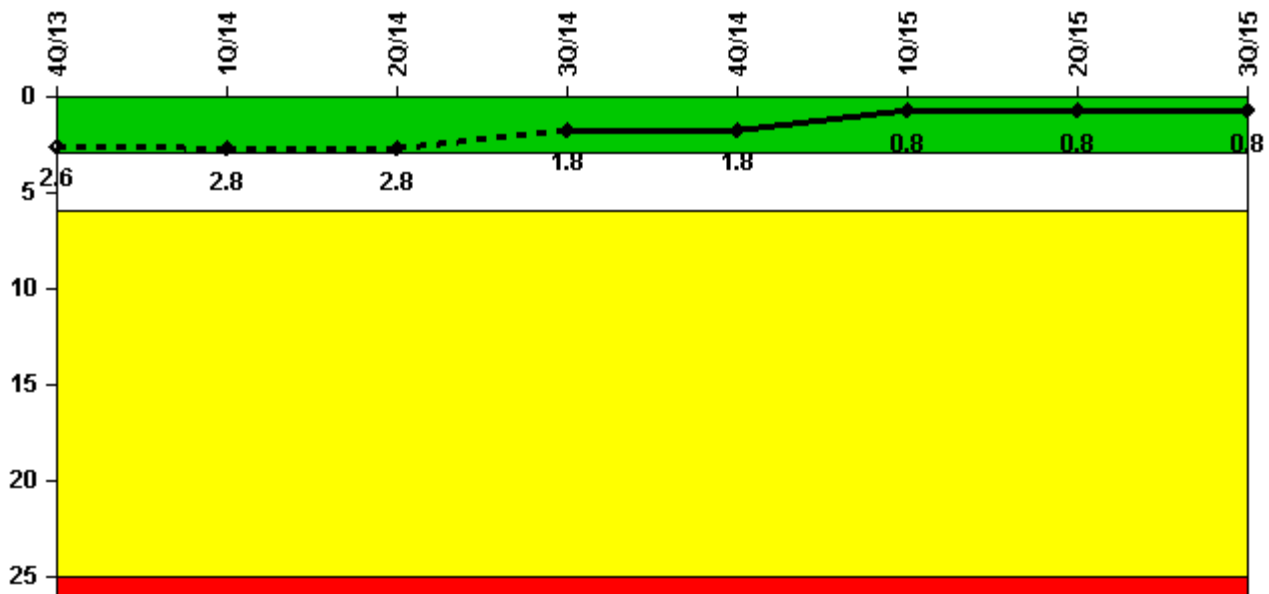
# Grand Gulf 1

## 3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

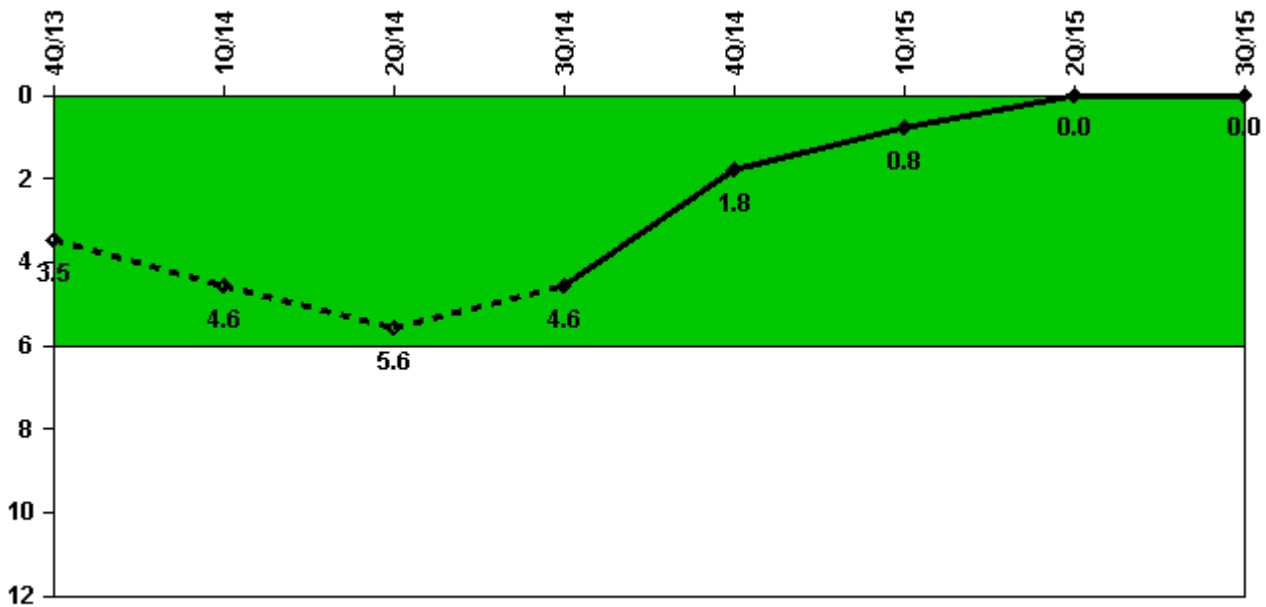
### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	2.0	0	0	0	1.0	0	0
Critical hours	1994.1	1238.2	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0
<b>Indicator value</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>	<b>1.8</b>	<b>1.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 and 3/29/14 included in March data.

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	3.0	1.0	1.0	0	0	0	0	0
Critical hours	1994.1	1238.2	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0
<b>Indicator value</b>	<b>3.5</b>	<b>4.6</b>	<b>5.6</b>	<b>4.6</b>	<b>1.8</b>	<b>0.8</b>	<b>0</b>	<b>0</b>

#### Licensee Comments:

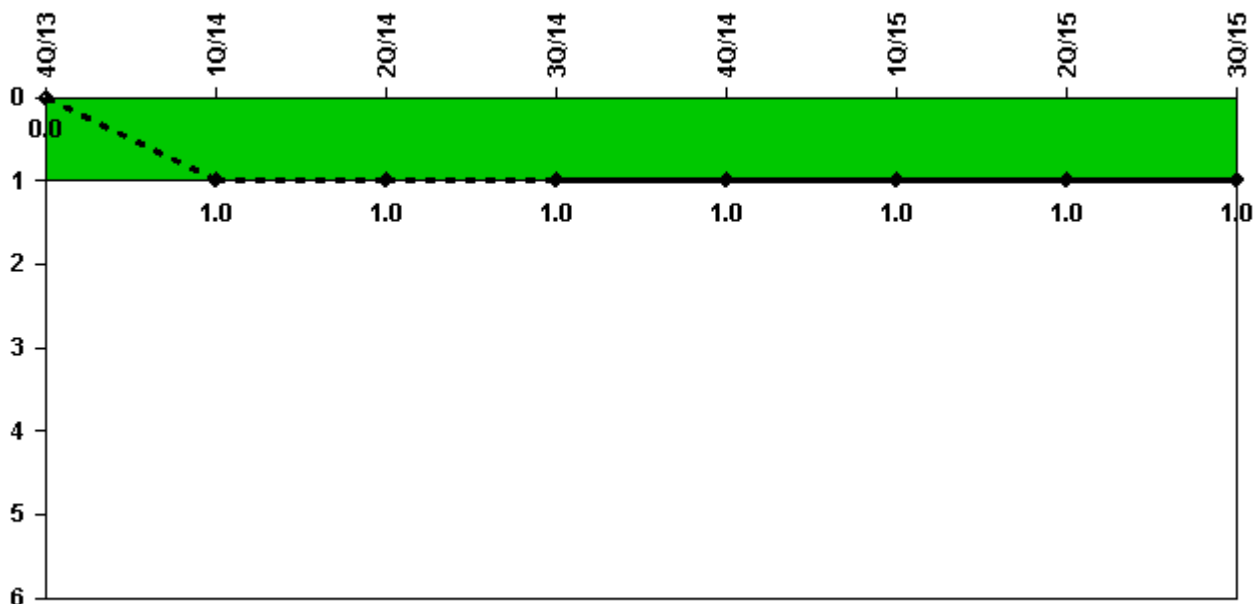
1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.

4Q/14: Plant power was reduced by greater than 20% on November 23, 2014 at the direction of the grid dispatcher due to grid instability. This down power was outside of management control.

2Q/14: Grand Gulf added one unplanned power change to 2Q2014. This event was excluded in error and has been entered into the corrective action program.

1Q/14: Unplanned power change for TVR issue included in March data.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

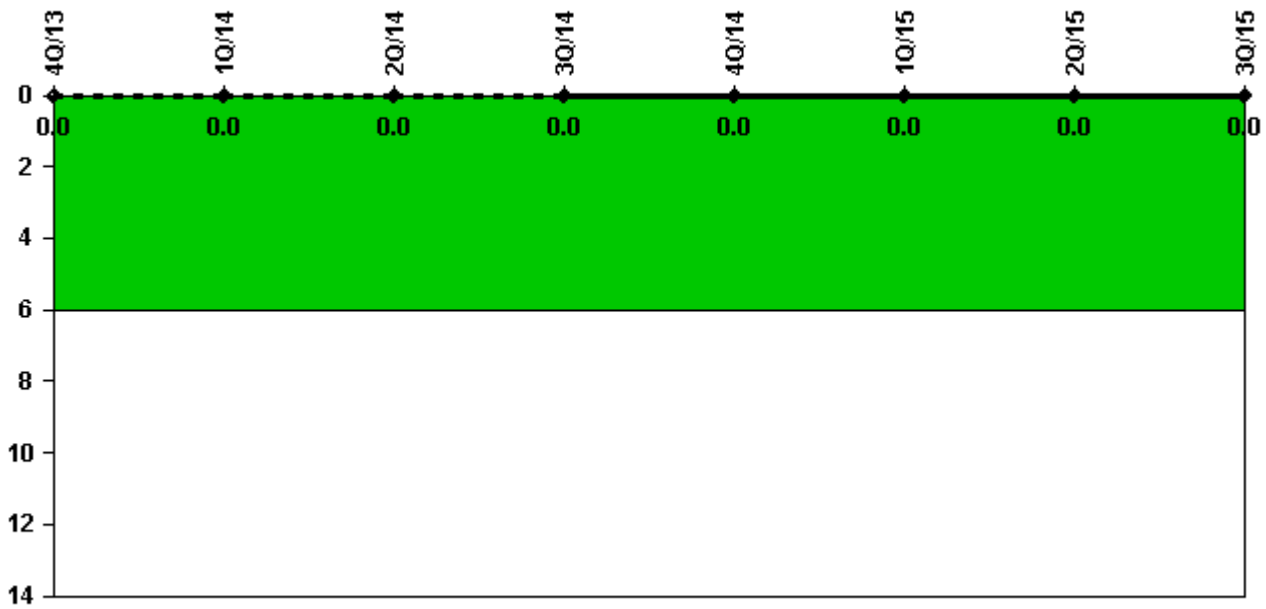
#### Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Scrams with complications	0	1.0	0	0	0	1.0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 with Complications included in March data.

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

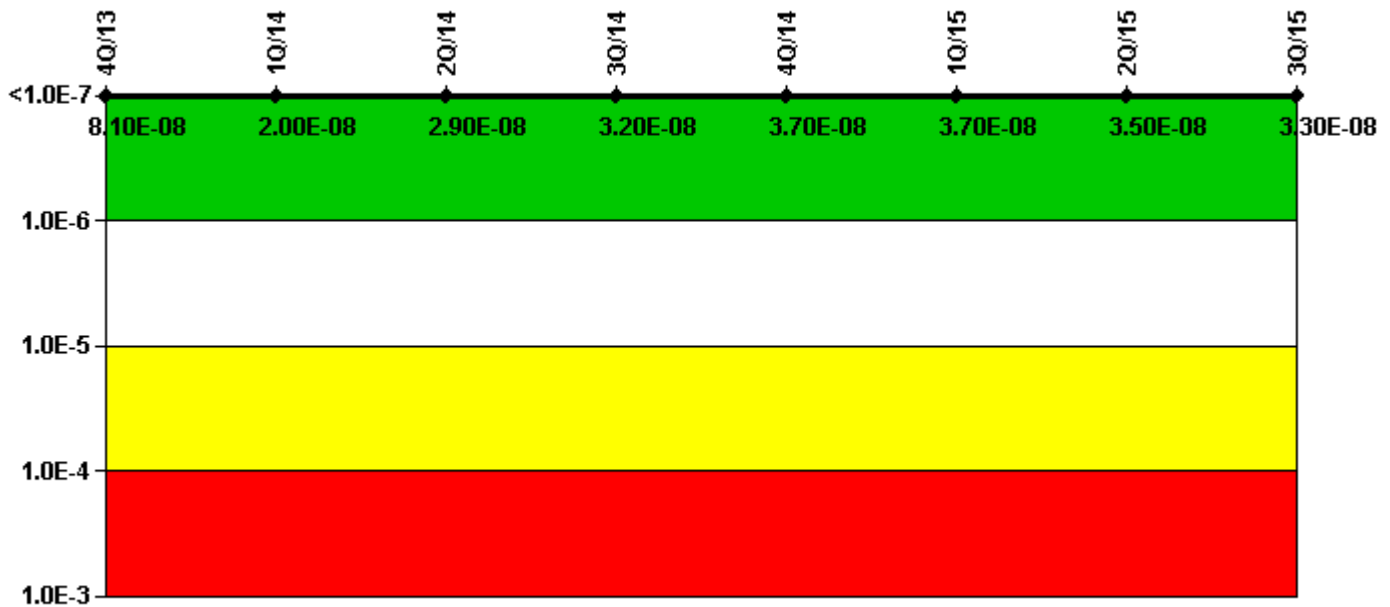
#### Notes

Safety System Functional Failures (BWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	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:

4Q/13: No LERs for November 2013

### Mitigating Systems Performance Index, Emergency AC Power System



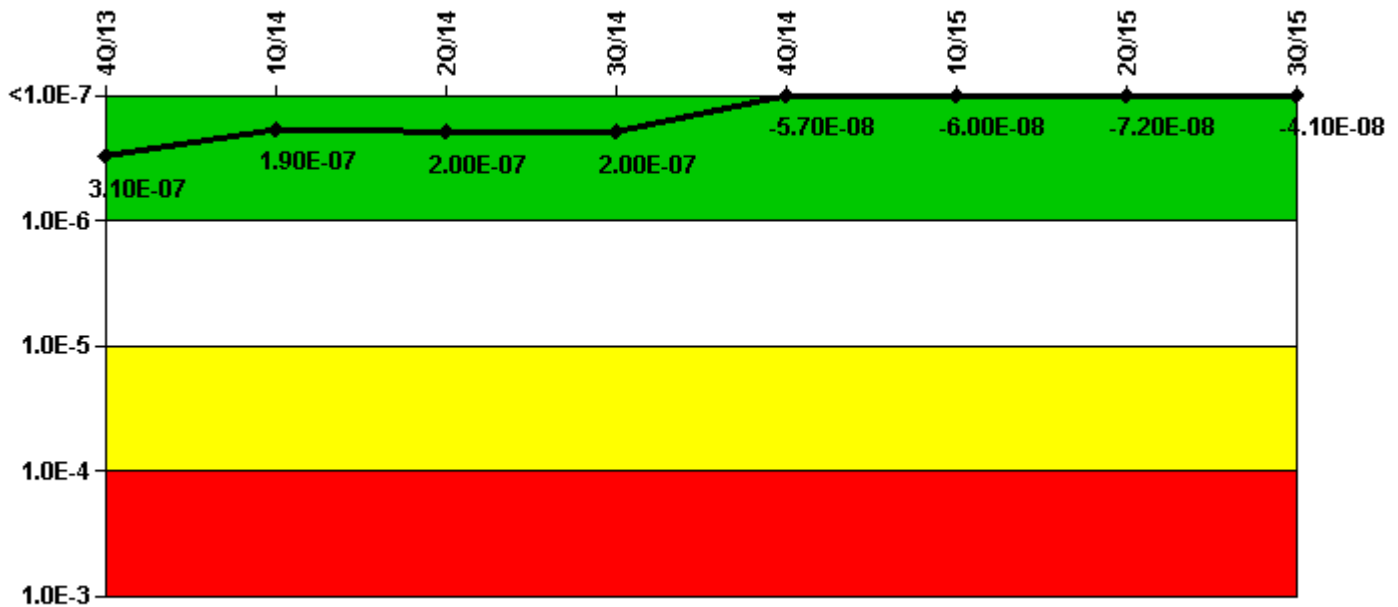
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI ( $\Delta$ CDF)	1.31E-08	2.39E-09	1.12E-08	1.42E-08	1.90E-08	1.61E-08	1.41E-08	1.33E-08
URI ( $\Delta$ CDF)	6.77E-08	1.78E-08	1.81E-08	1.74E-08	1.78E-08	2.13E-08	2.07E-08	1.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.10E-08	2.00E-08	2.90E-08	3.20E-08	3.70E-08	3.70E-08	3.50E-08	3.30E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



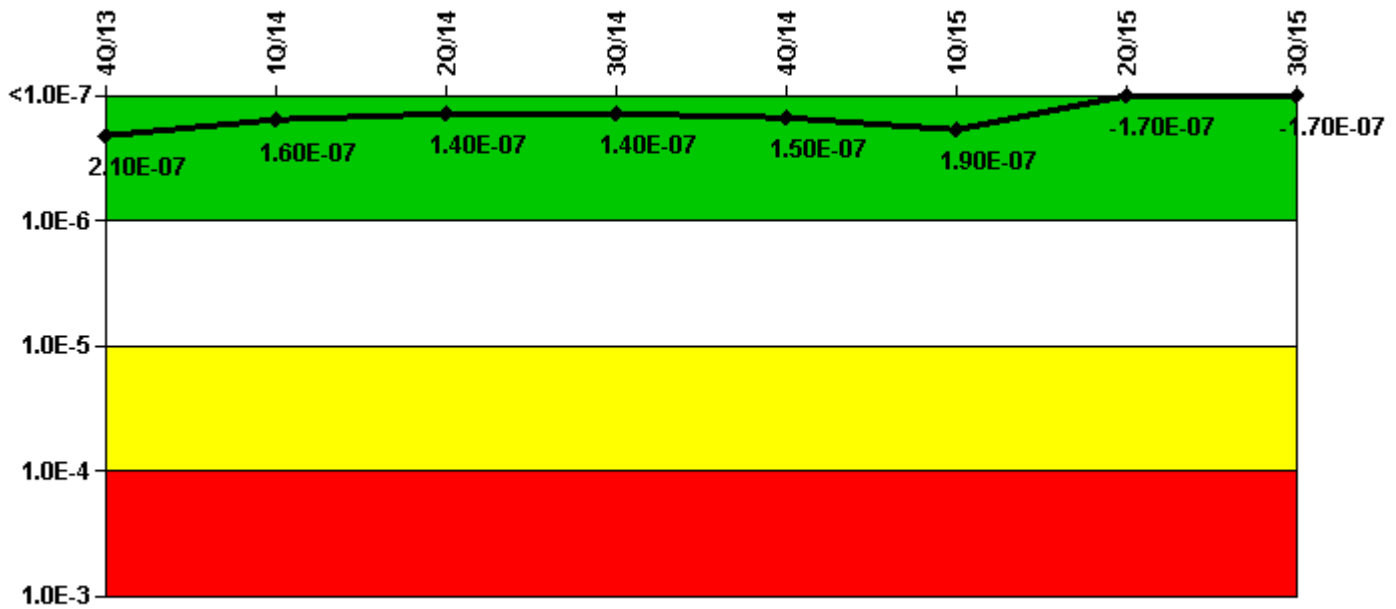
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (ΔCDF)	2.93E-07	2.86E-07	2.85E-07	2.85E-07	2.16E-08	1.80E-08	3.12E-08	3.69E-08
URI (ΔCDF)	1.60E-08	-9.12E-08	-8.76E-08	-8.56E-08	-7.83E-08	-7.75E-08	-1.03E-07	-7.84E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.10E-07	1.90E-07	2.00E-07	2.00E-07	-5.70E-08	-6.00E-08	-7.20E-08	-4.10E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



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

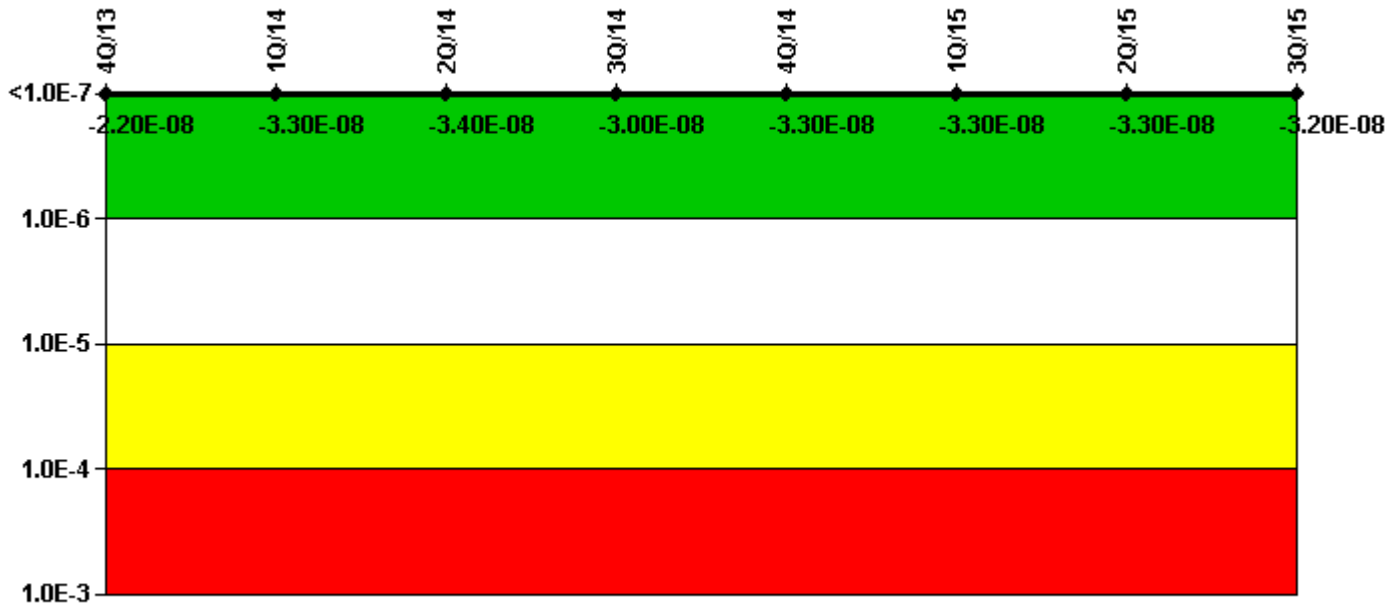
#### Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI ( $\Delta$ CDF)	2.81E-09	7.21E-09	7.21E-09	7.21E-09	2.43E-08	5.30E-08	2.80E-08	2.80E-08
URI ( $\Delta$ CDF)	2.05E-07	1.49E-07	1.28E-07	1.28E-07	1.28E-07	1.35E-07	-1.99E-07	-1.96E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.10E-07	1.60E-07	1.40E-07	1.40E-07	1.50E-07	1.90E-07	-1.70E-07	-1.70E-07

Licensee Comments: none



### Mitigating Systems Performance Index, Residual Heat Removal System



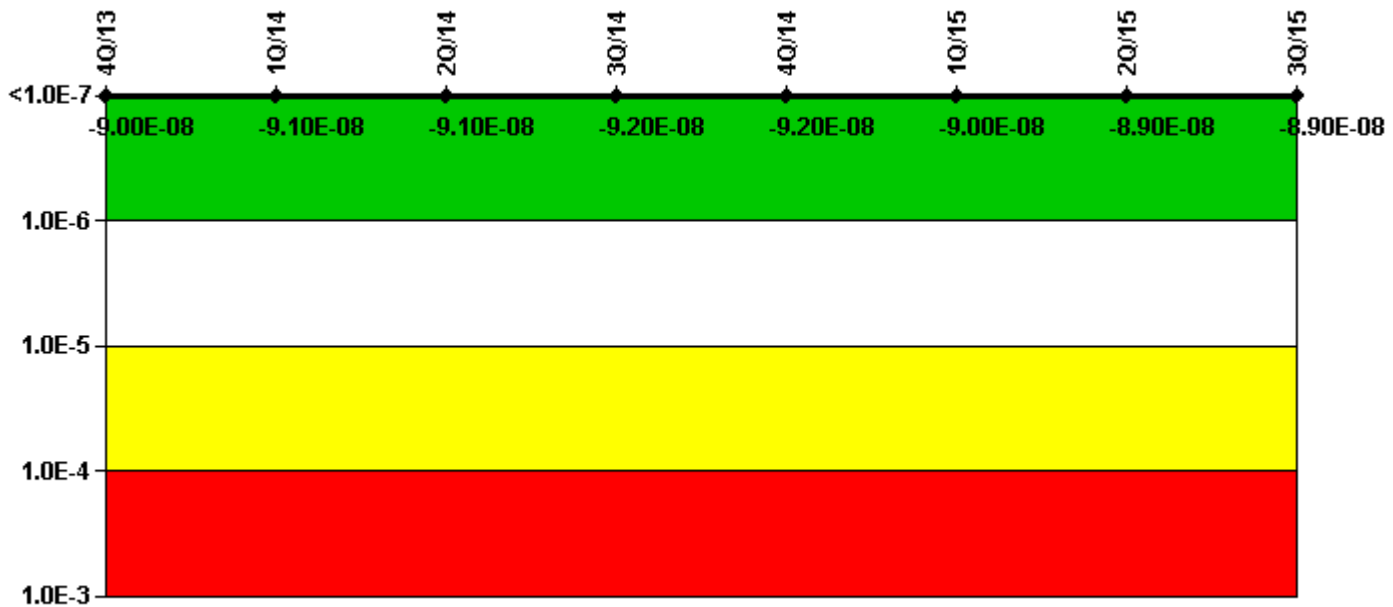
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI ( $\Delta$ CDF)	3.02E-10	-8.56E-09	-8.56E-09	-3.39E-09	-6.21E-09	-7.80E-09	-8.56E-09	-7.32E-09
URI ( $\Delta$ CDF)	-2.18E-08	-2.44E-08	-2.51E-08	-2.62E-08	-2.67E-08	-2.56E-08	-2.41E-08	-2.44E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-3.30E-08	-3.40E-08	-3.00E-08	-3.30E-08	-3.30E-08	-3.30E-08	-3.20E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



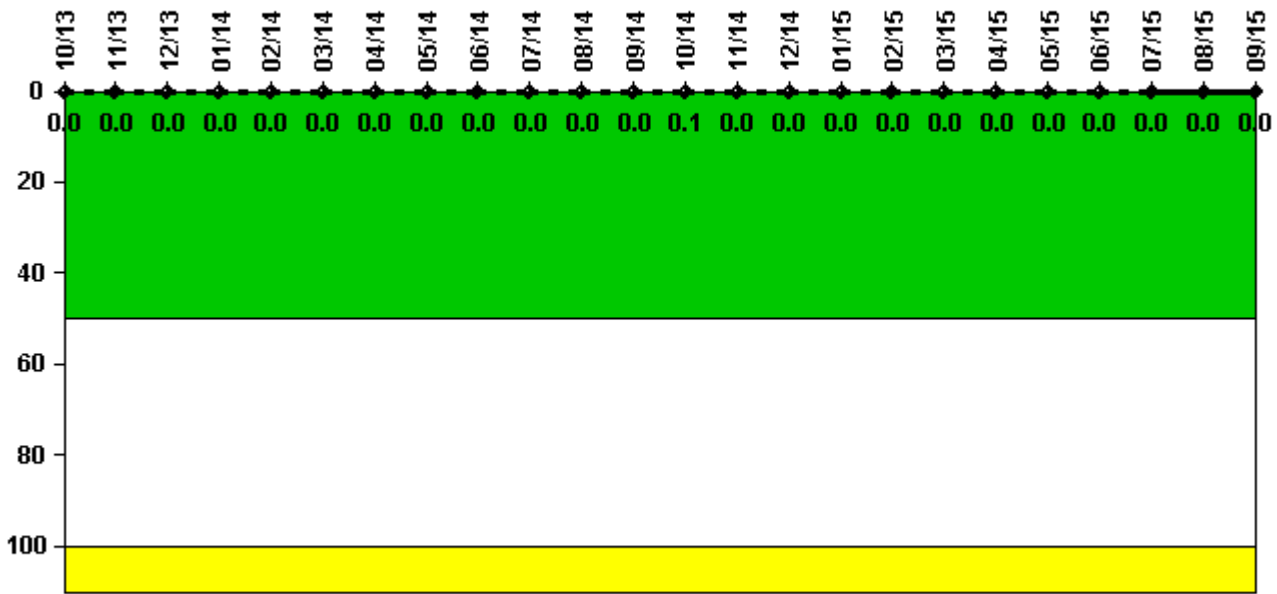
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI ( $\Delta$ CDF)	-1.50E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-8.88E-08	-8.97E-08	-8.97E-08	-9.03E-08	-9.01E-08	-8.87E-08	-8.77E-08	-8.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.00E-08	-9.10E-08	-9.10E-08	-9.20E-08	-9.20E-08	-9.00E-08	-8.90E-08	-8.90E-08

Licensee Comments: none

### Reactor Coolant System Activity



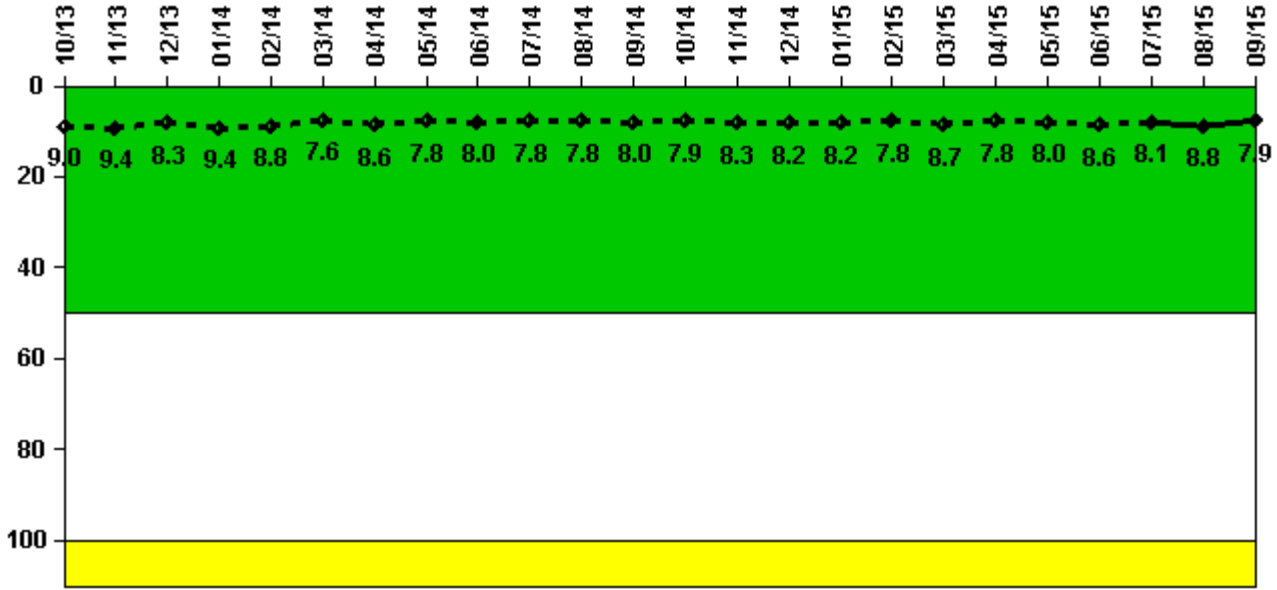
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.000092	0.000026	0.000049	0.000055	0.000055	0.000084	0.000070	0.000044	0.000034	0.000043	0.000065	0.000069
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	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000107	0.000063	0.000038	0.000021	0.000008	0.000093	0.000036	0.000037	0.000039	0.000063	0.000079	0.000092
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	0.1	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

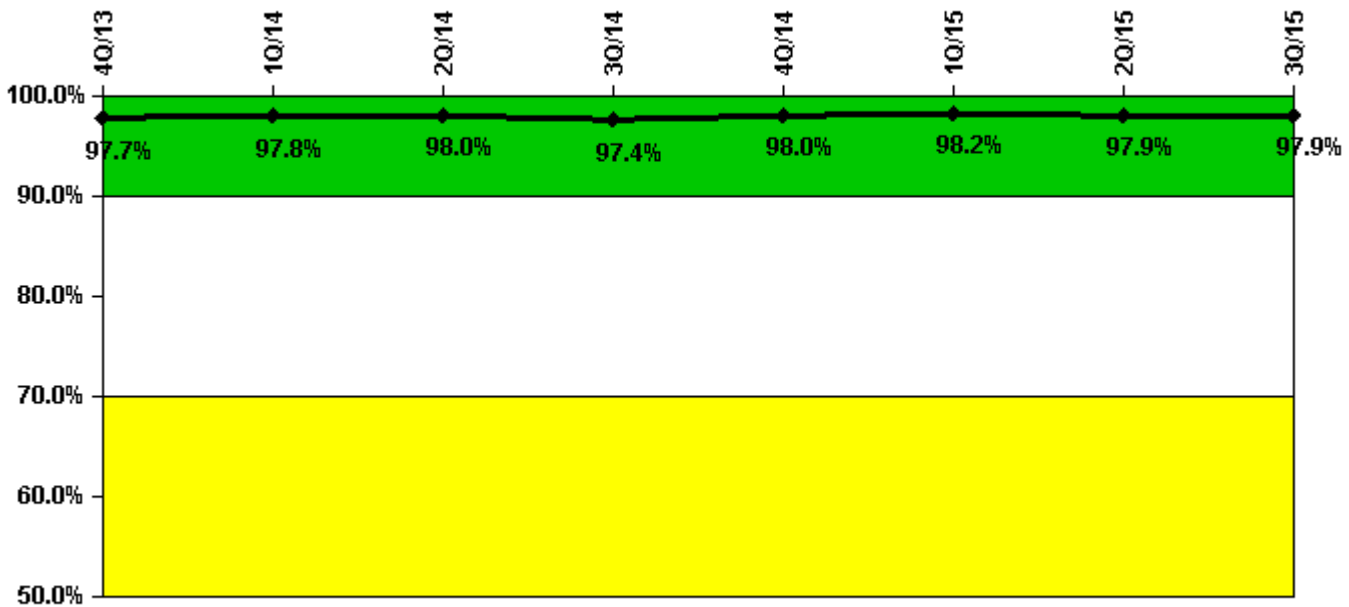
Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	2.690	2.810	2.500	2.810	2.640	2.280	2.570	2.350	2.410	2.340	2.350	2.410
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.0	9.4	8.3	9.4	8.8	7.6	8.6	7.8	8.0	7.8	7.8	8.0

Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	2.370	2.480	2.450	2.460	2.330	2.600	2.350	2.400	2.580	2.440	2.630	2.370
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.9	8.3	8.2	8.2	7.8	8.7	7.8	8.0	8.6	8.1	8.8	7.9

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

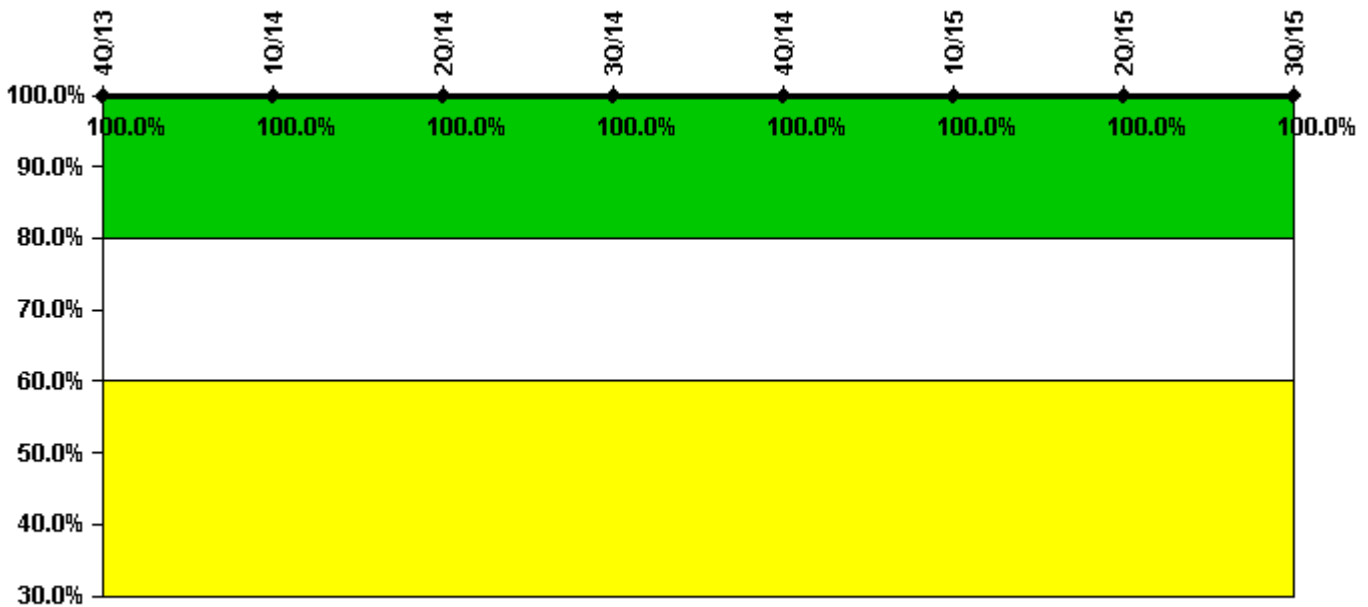
Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	66.0	10.0	24.0	51.0	50.0	25.0	31.0	17.0
Total opportunities	66.0	10.0	24.0	54.0	50.0	26.0	33.0	17.0
Indicator value	97.7%	97.8%	98.0%	97.4%	98.0%	98.2%	97.9%	97.9%

Licensee Comments:

1Q/15: Performed data update for the data reported in January 2015 (RAM 7-3-15)

3Q/14: Performed update to the data reported in August 2014 (RAM 7-3-2015)

### ERO Drill Participation



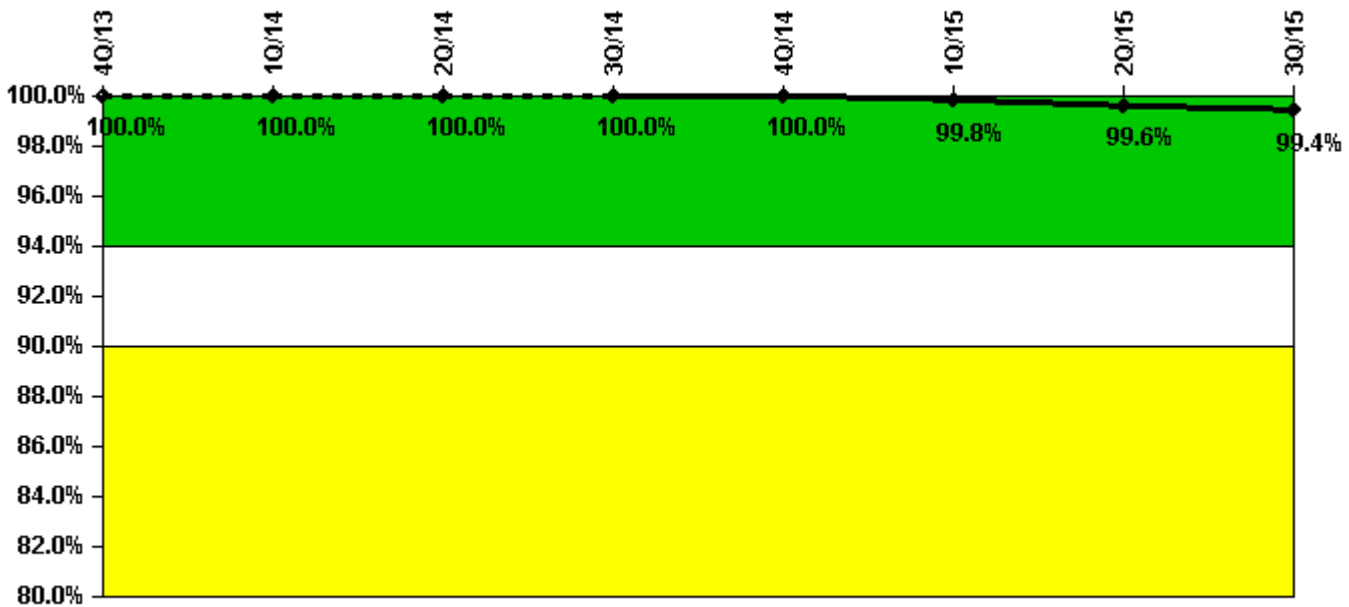
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	74.0	68.0	71.0	63.0	64.0	62.0	65.0	64.0
Total Key personnel	74.0	68.0	71.0	63.0	64.0	62.0	65.0	64.0
<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



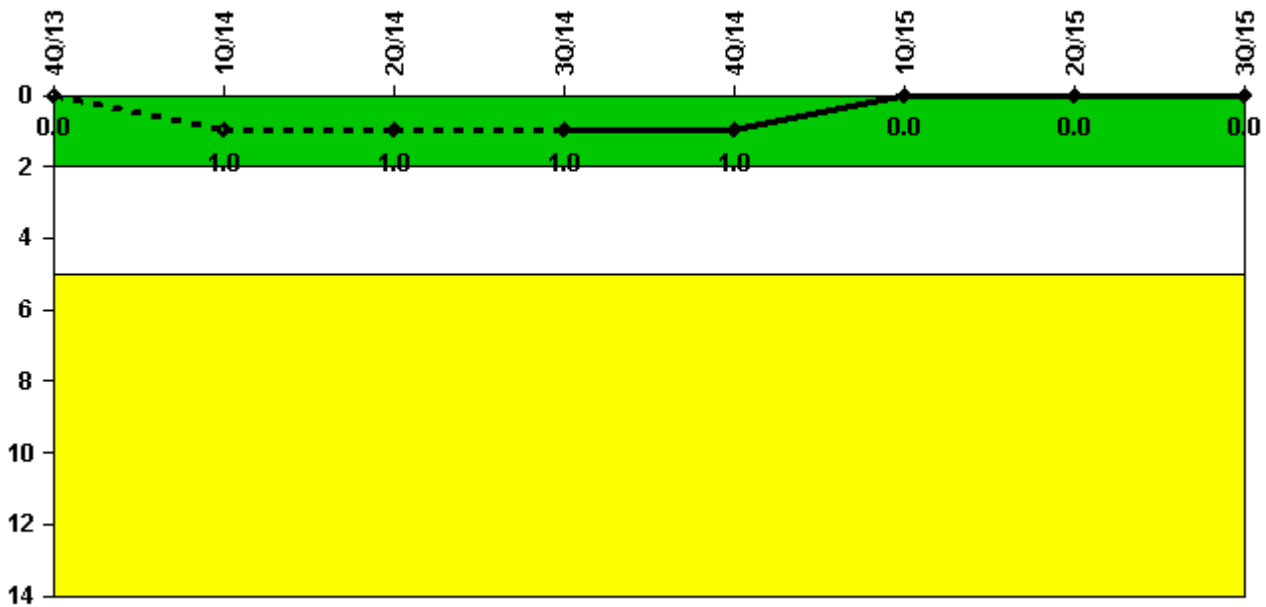
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	129	129	129	129	129	128	126	126
Total sirens-tests	129	129	129	129	129	129	127	127
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	99.6%	99.4%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

#### Notes

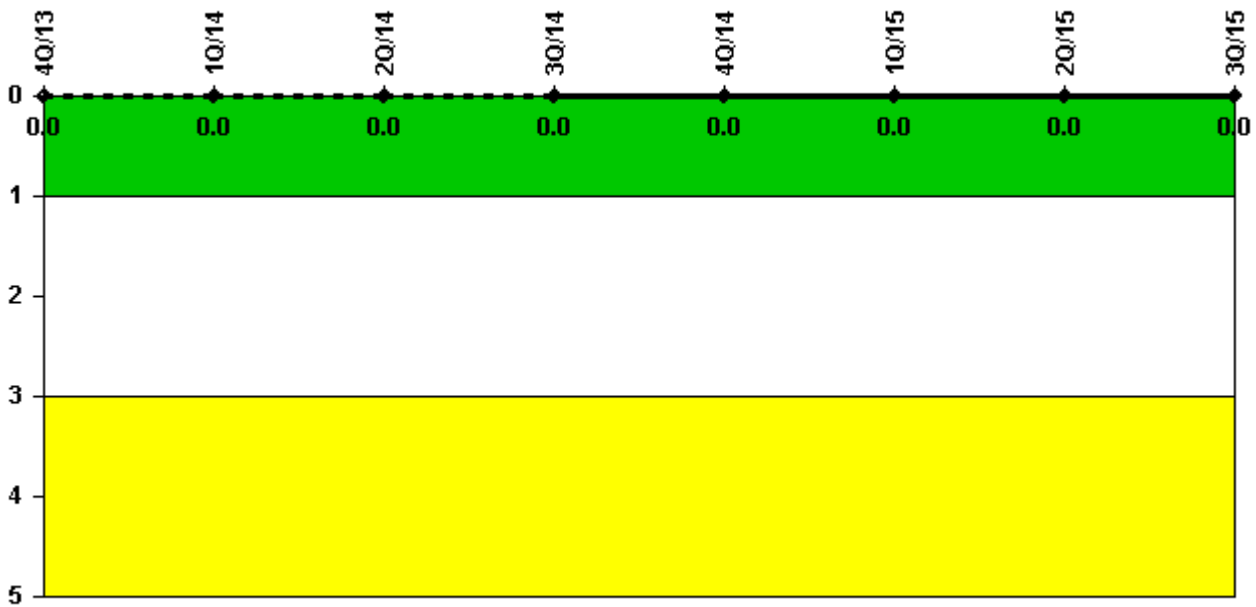
Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
High radiation area occurrences	0	1	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments:

1Q/14: March data includes event for a bucket containing irradiated components being lifted without proper controls being in place.



### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
RETS/ODCM 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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 [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

*Last Modified: December 15, 2015*

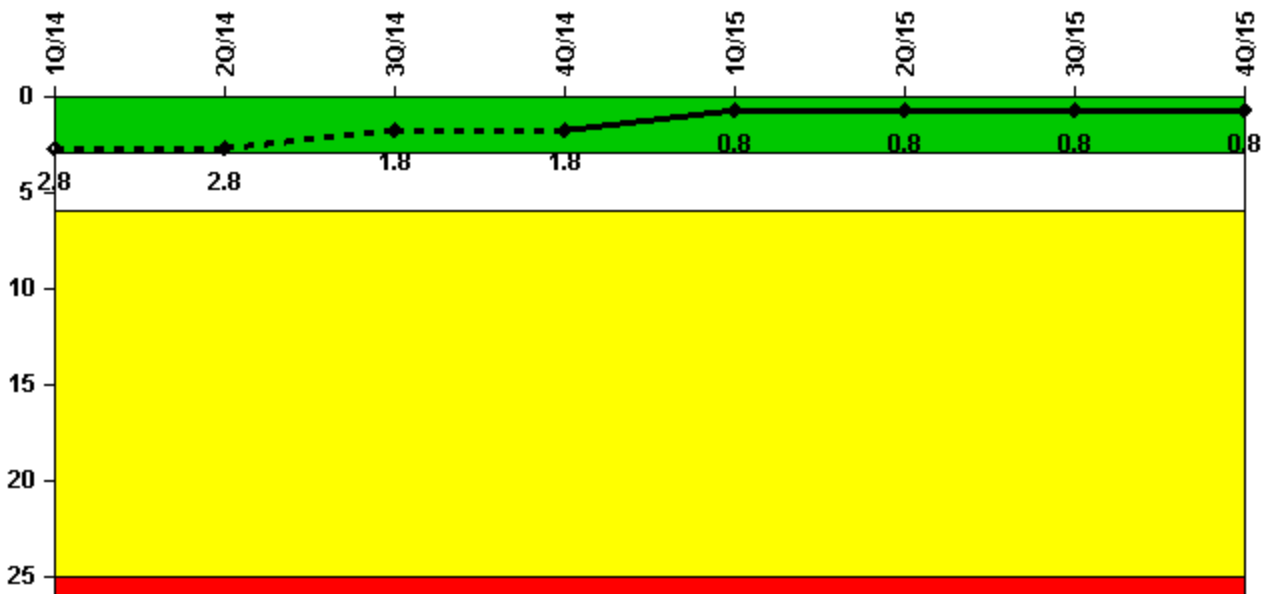
# Grand Gulf 1

## 4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

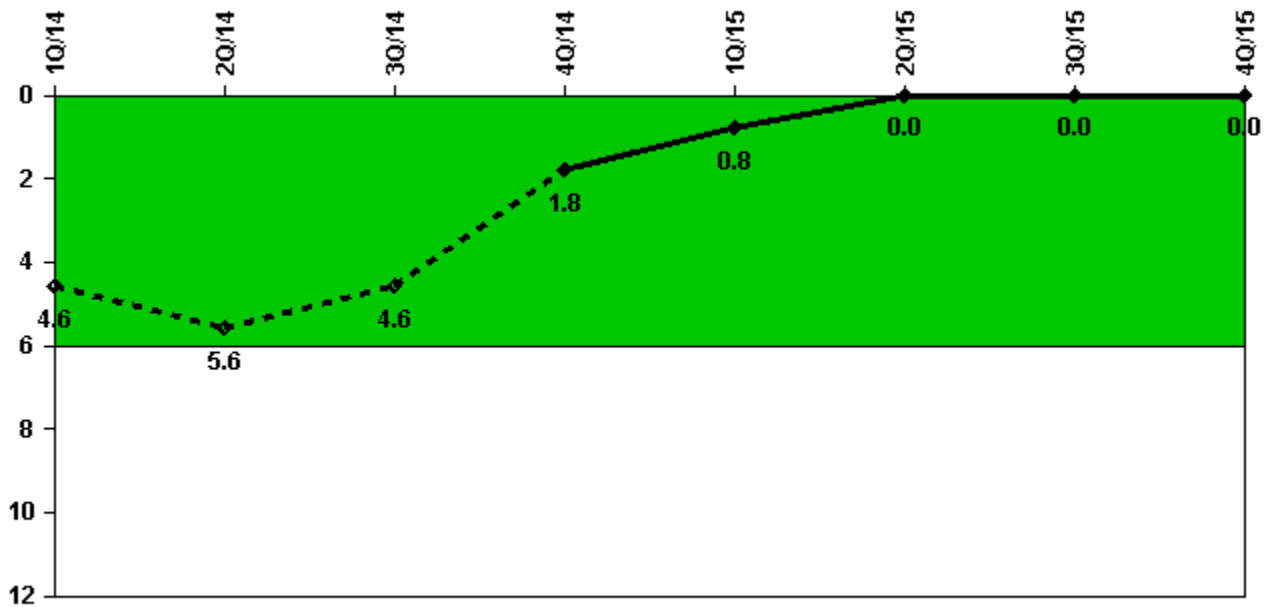
### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	2.0	0	0	0	1.0	0	0	0
Critical hours	1238.2	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0	2209.0
Indicator value	2.8	2.8	1.8	1.8	0.8	0.8	0.8	0.8

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 and 3/29/14 included in March data.

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned power changes	1.0	1.0	0	0	0	0	0	0
Critical hours	1238.2	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>4.6</b>	<b>5.6</b>	<b>4.6</b>	<b>1.8</b>	<b>0.8</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### Licensee Comments:

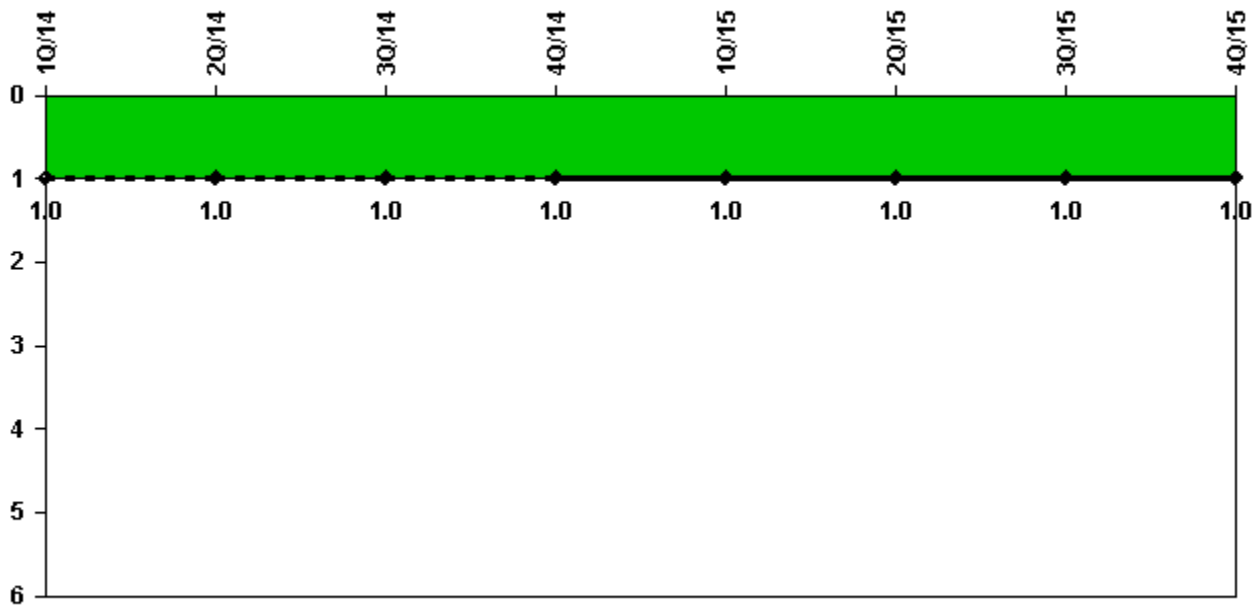
1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.

4Q/14: Plant power was reduced by greater than 20% on November 23, 2014 at the direction of the grid dispatcher due to grid instability. This down power was outside of management control.

2Q/14: Grand Gulf added one unplanned power change to 2Q2014. This event was excluded in error and has been entered into the corrective action program.

1Q/14: Unplanned power change for TVR issue included in March data.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

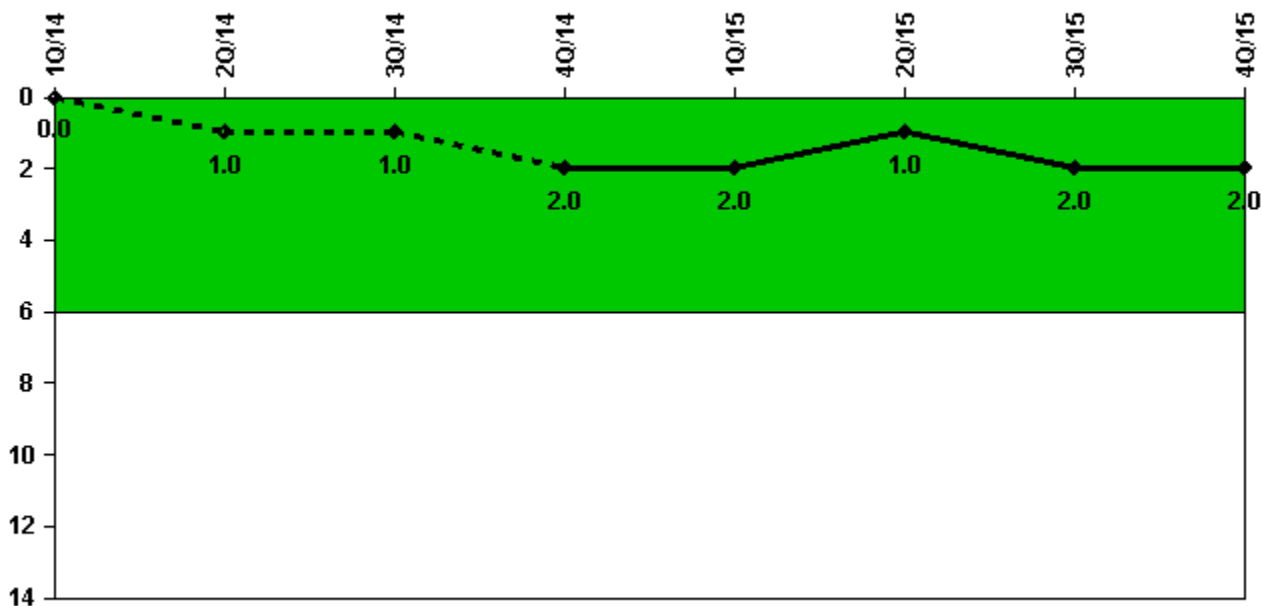
#### Notes

Unplanned Scrams with Complications	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Scrams with complications	1.0	0	0	0	1.0	0	0	0
<b>Indicator value</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>

Licensee Comments:

1Q/14: Reactor Scram 3/17/14 with Complications included in March data.

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	1	0	1	0	0	1	1
<b>Indicator value</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>

Licensee Comments:

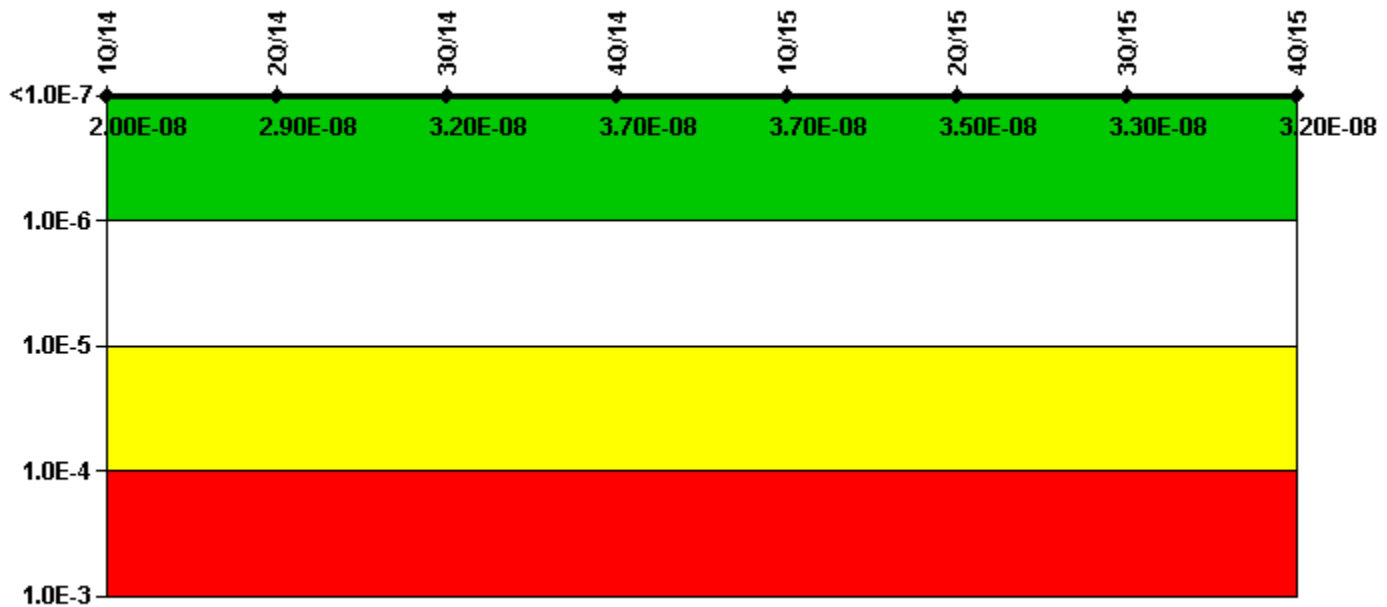
4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q14 and one in 4Q14

3Q/15: LER 2015-002-00 Documents one safety system functional failure in August 2015.

4Q/14: LER 2015-002-00 Documents one safety system functional failure in October 2014.

2Q/14: LER 2015-002-00 Documents one safety system functional failure in June 2014.

### Mitigating Systems Performance Index, Emergency AC Power System



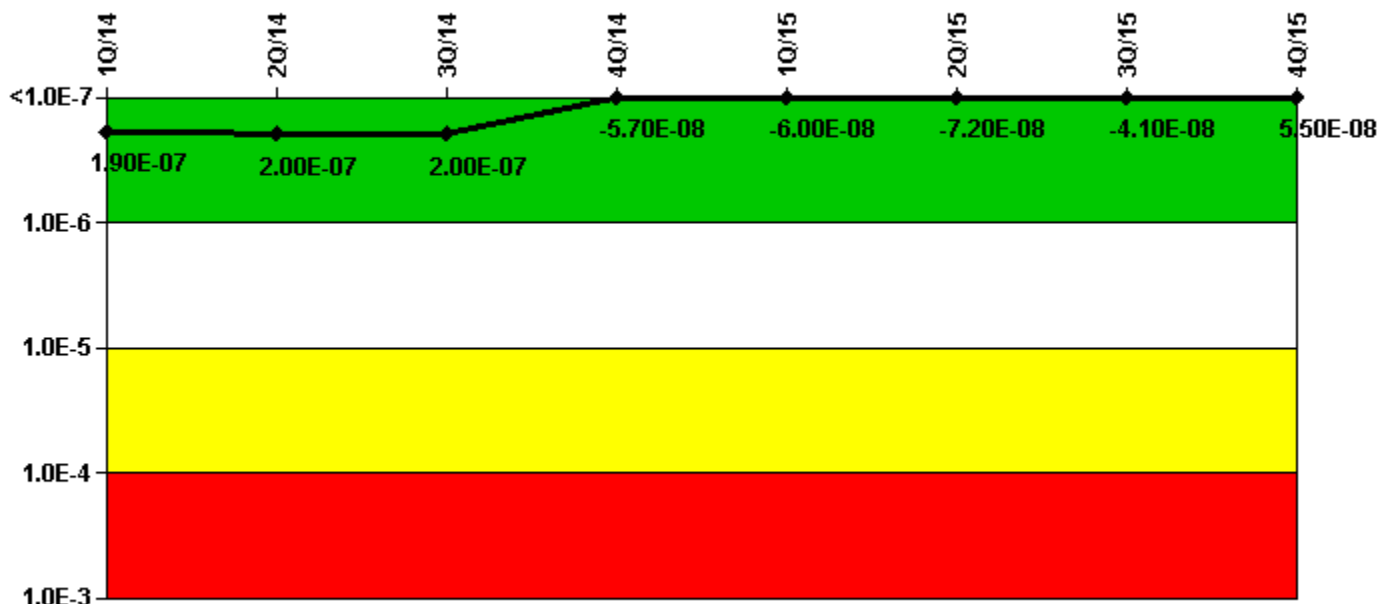
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI ( $\Delta$ CDF)	2.39E-09	1.12E-08	1.42E-08	1.90E-08	1.61E-08	1.41E-08	1.33E-08	1.31E-08
URI ( $\Delta$ CDF)	1.78E-08	1.81E-08	1.74E-08	1.78E-08	2.13E-08	2.07E-08	1.94E-08	1.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-08	2.90E-08	3.20E-08	3.70E-08	3.70E-08	3.50E-08	3.30E-08	3.20E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



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

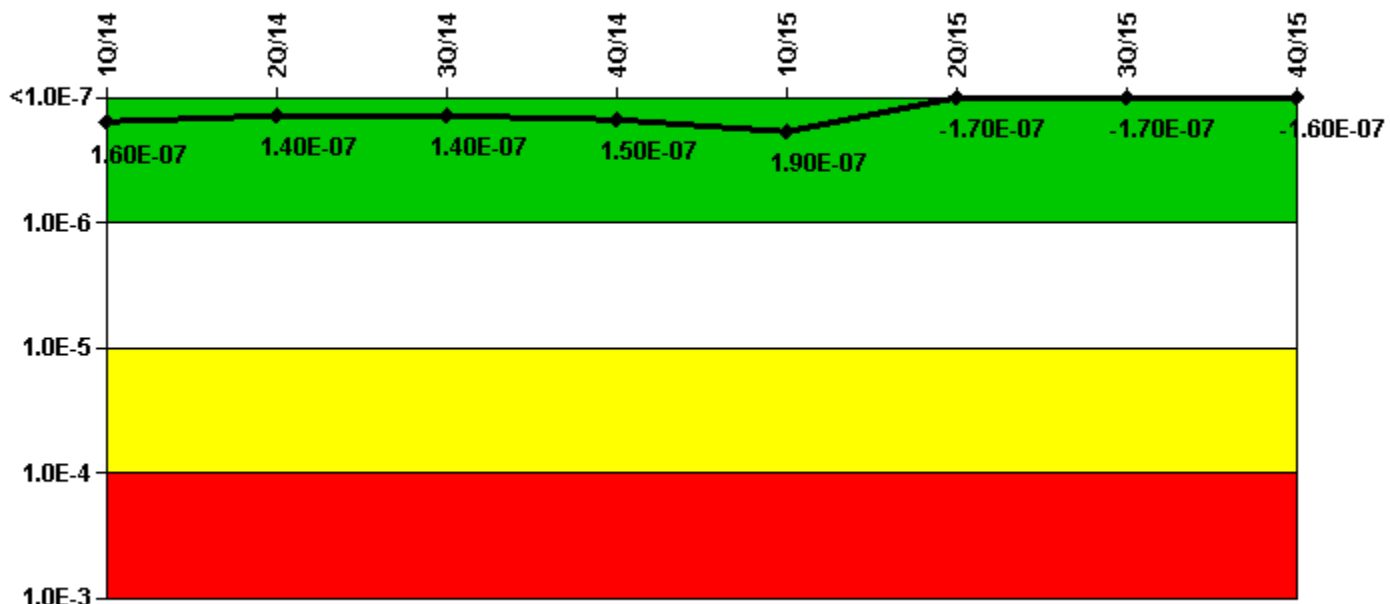
#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	2.86E-07	2.85E-07	2.85E-07	2.16E-08	1.80E-08	3.12E-08	3.69E-08	1.36E-07
URI (ΔCDF)	-9.12E-08	-8.76E-08	-8.56E-08	-7.83E-08	-7.75E-08	-1.03E-07	-7.84E-08	-8.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.90E-07	2.00E-07	2.00E-07	5.70E-08	6.00E-08	7.20E-08	4.10E-08	5.50E-08

Licensee Comments: none



### Mitigating Systems Performance Index, Heat Removal System



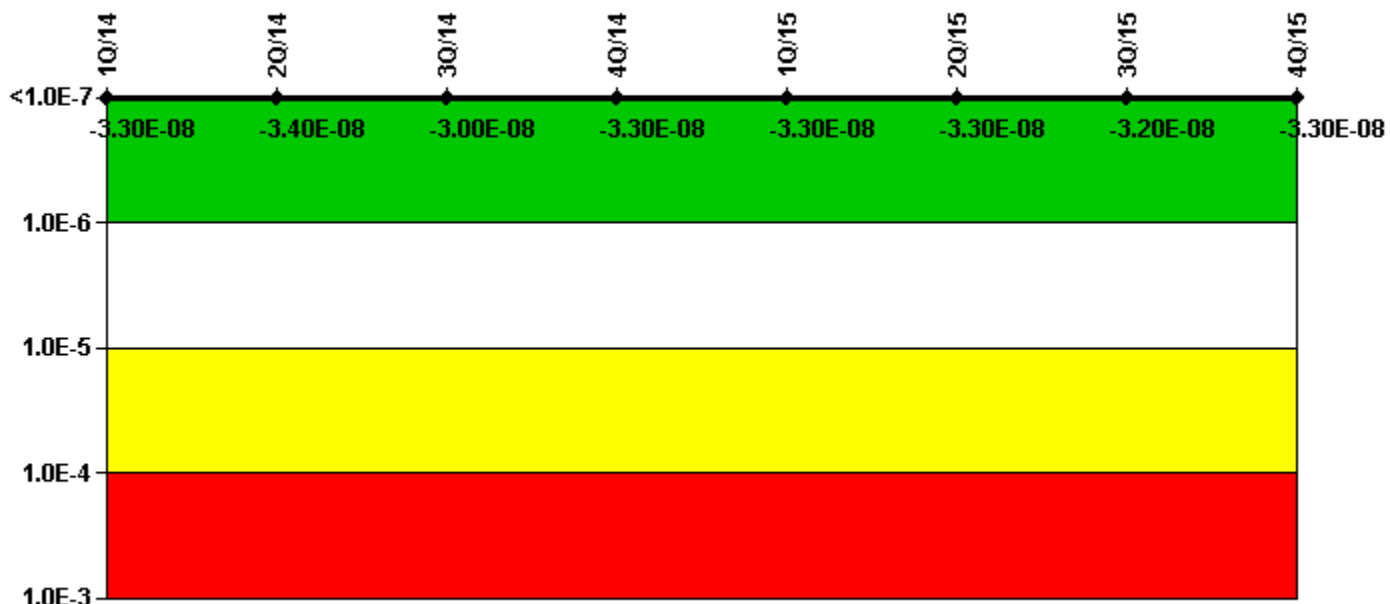
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	7.21E-09	7.21E-09	7.21E-09	2.43E-08	5.30E-08	2.80E-08	2.80E-08	2.73E-08
URI (ΔCDF)	1.49E-07	1.28E-07	1.28E-07	1.28E-07	1.35E-07	-1.99E-07	-1.96E-07	-1.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	1.40E-07	1.40E-07	1.50E-07	1.90E-07	-1.70E-07	-1.70E-07	-1.60E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



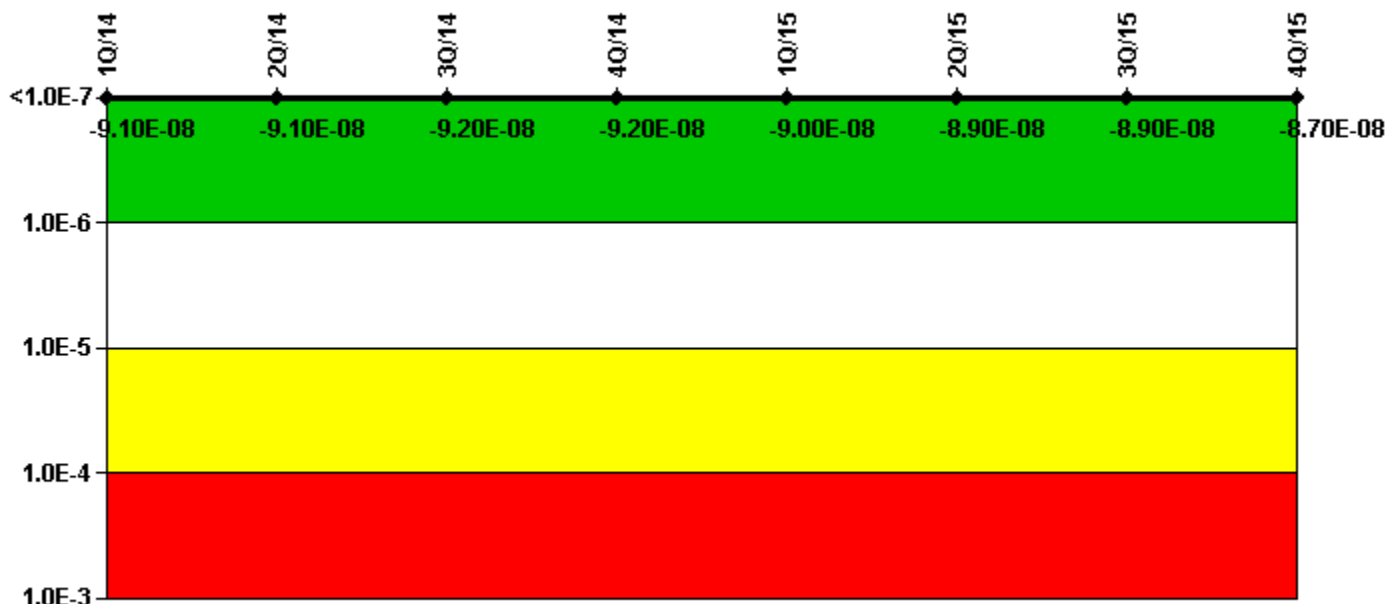
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI ( $\Delta$ CDF)	-8.56E-09	-8.56E-09	-3.39E-09	-6.21E-09	-7.80E-09	-8.56E-09	-7.32E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.44E-08	-2.51E-08	-2.62E-08	-2.67E-08	-2.56E-08	-2.41E-08	-2.44E-08	-2.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.30E-08	-3.40E-08	-3.00E-08	-3.30E-08	-3.30E-08	-3.30E-08	-3.20E-08	-3.30E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



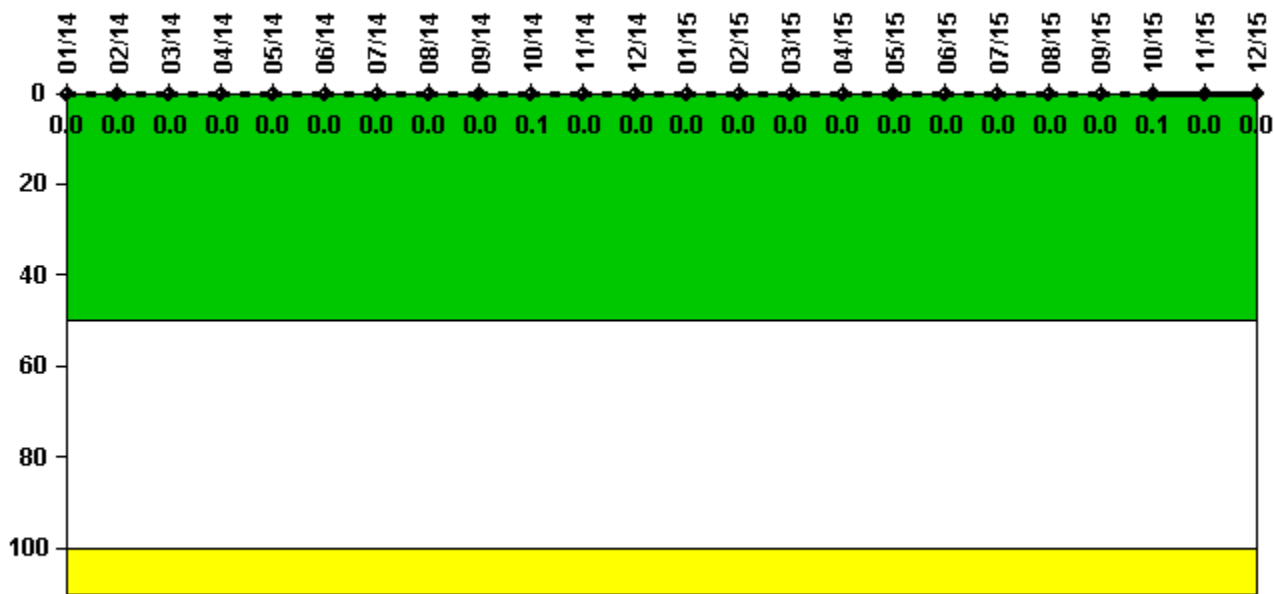
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-8.97E-08	-8.97E-08	-9.03E-08	-9.01E-08	-8.87E-08	-8.77E-08	-8.70E-08	-8.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.10E-08	-9.10E-08	-9.20E-08	-9.20E-08	-9.00E-08	-8.90E-08	-8.90E-08	-8.70E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

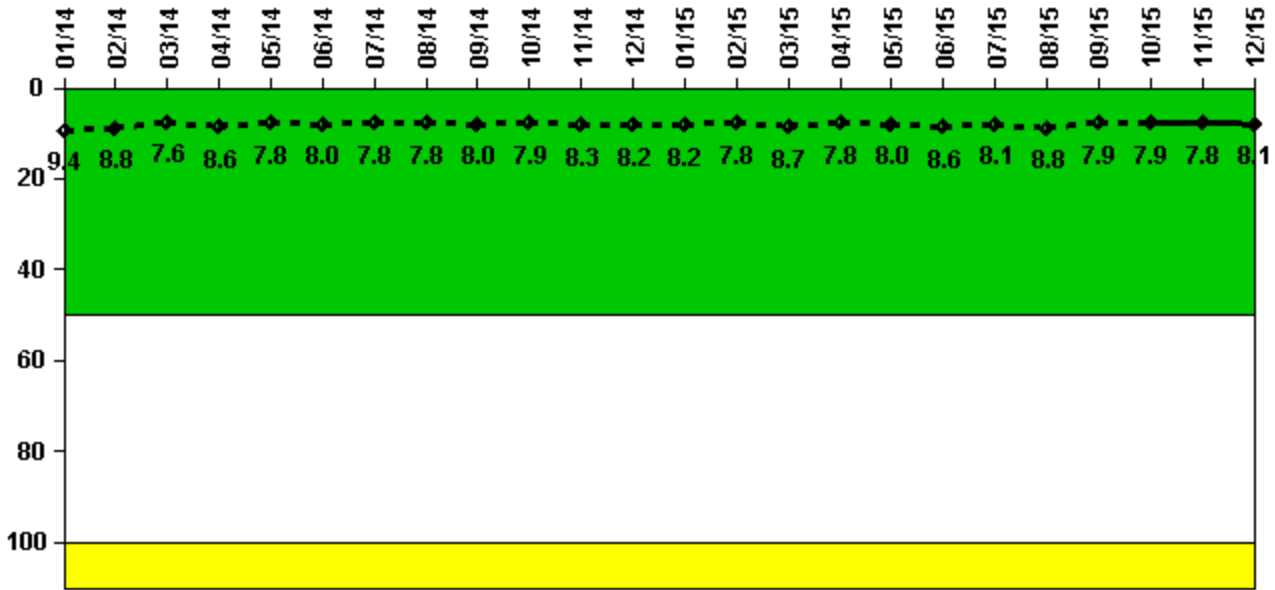
Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum activity	0.000055	0.000055	0.000084	0.000070	0.000044	0.000034	0.000043	0.000065	0.000069	0.000107	0.000063	0.000038
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0.1	0	0

Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000021	0.000008	0.000093	0.000036	0.000037	0.000039	0.000063	0.000079	0.000092	0.000116	0.000033	0.000053
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	0.1	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

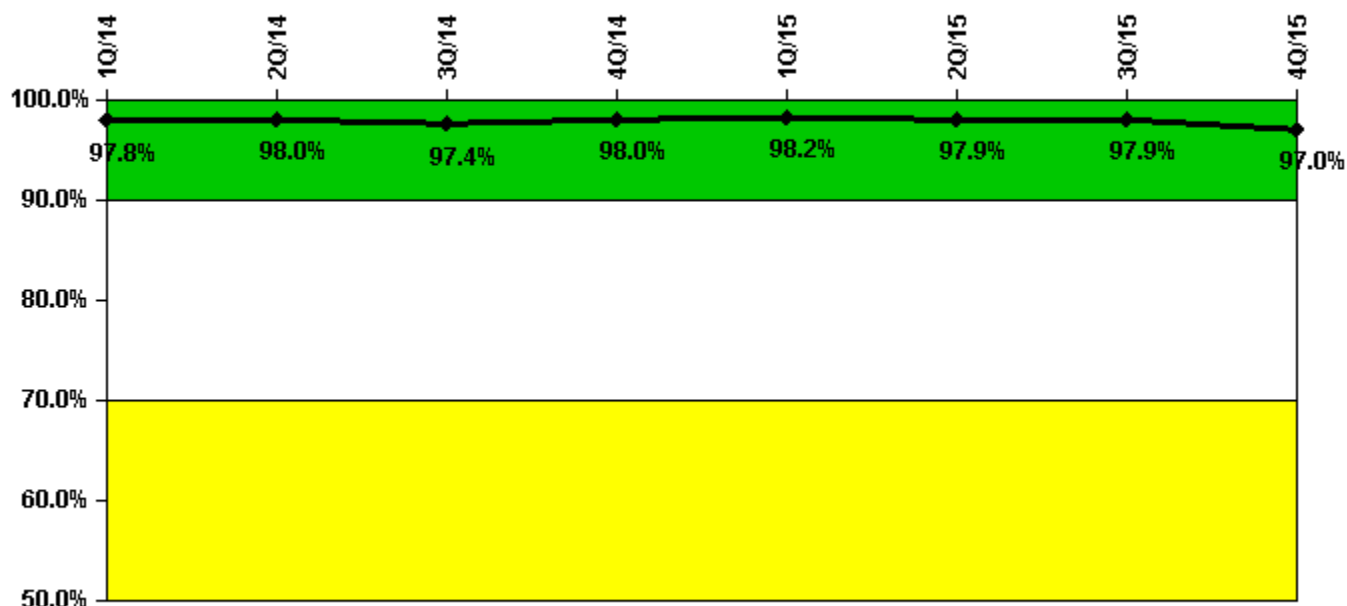
Reactor Coolant System Leakage	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum leakage	2.810	2.640	2.280	2.570	2.350	2.410	2.340	2.350	2.410	2.370	2.480	2.450
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	9.4	8.8	7.6	8.6	7.8	8.0	7.8	7.8	8.0	7.9	8.3	8.2

Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum leakage	2.460	2.330	2.600	2.350	2.400	2.580	2.440	2.630	2.370	2.370	2.350	2.430
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.2	7.8	8.7	7.8	8.0	8.6	8.1	8.8	7.9	7.9	7.8	8.1

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

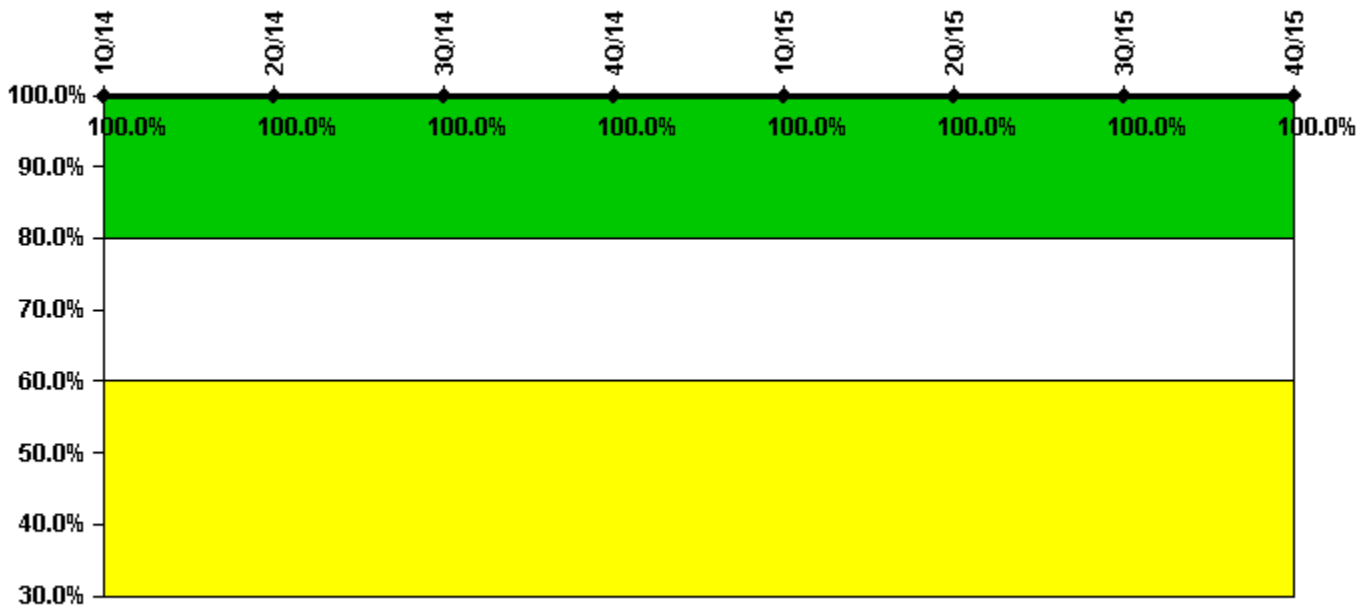
Drill/Exercise Performance	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful opportunities	10.0	24.0	51.0	50.0	25.0	31.0	17.0	51.0
Total opportunities	10.0	24.0	54.0	50.0	26.0	33.0	17.0	53.0
Indicator value	97.8%	98.0%	97.4%	98.0%	98.2%	97.9%	97.9%	97.0%

Licensee Comments:

1Q/15: Performed data update for the data reported in January 2015 (RAM 7-3-15)

3Q/14: Performed update to the data reported in August 2014 (RAM 7-3-2015)

### ERO Drill Participation



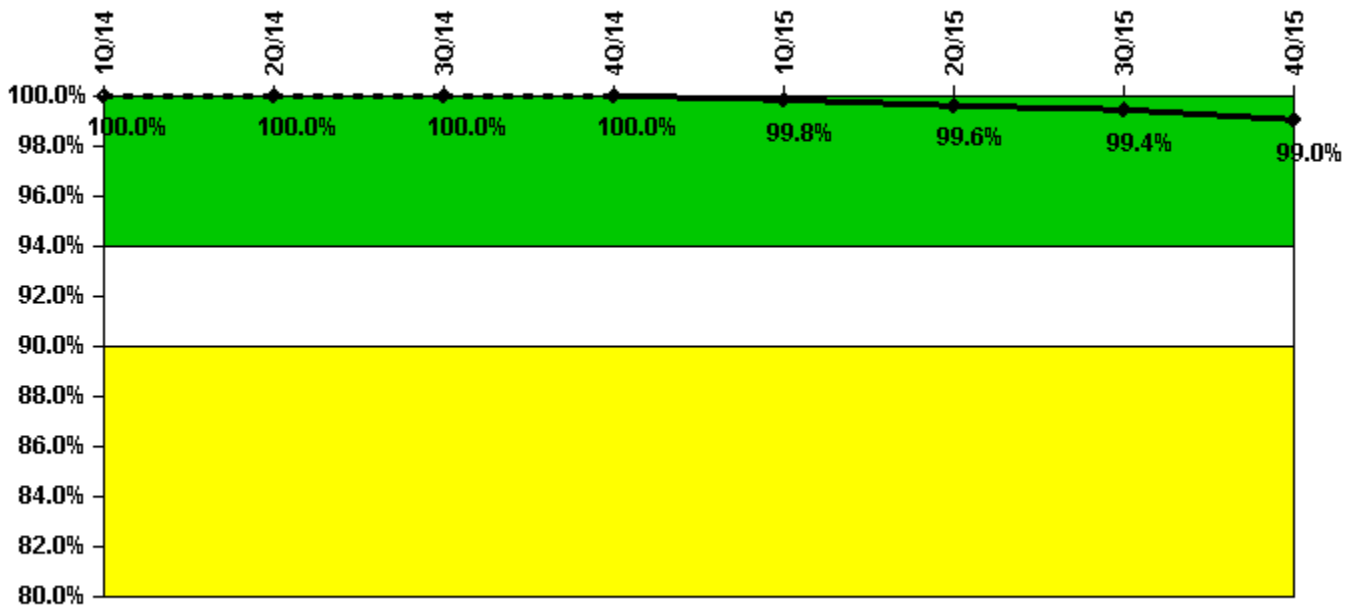
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	68.0	71.0	63.0	64.0	62.0	65.0	64.0	66.0
Total Key personnel	68.0	71.0	63.0	64.0	62.0	65.0	64.0	66.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

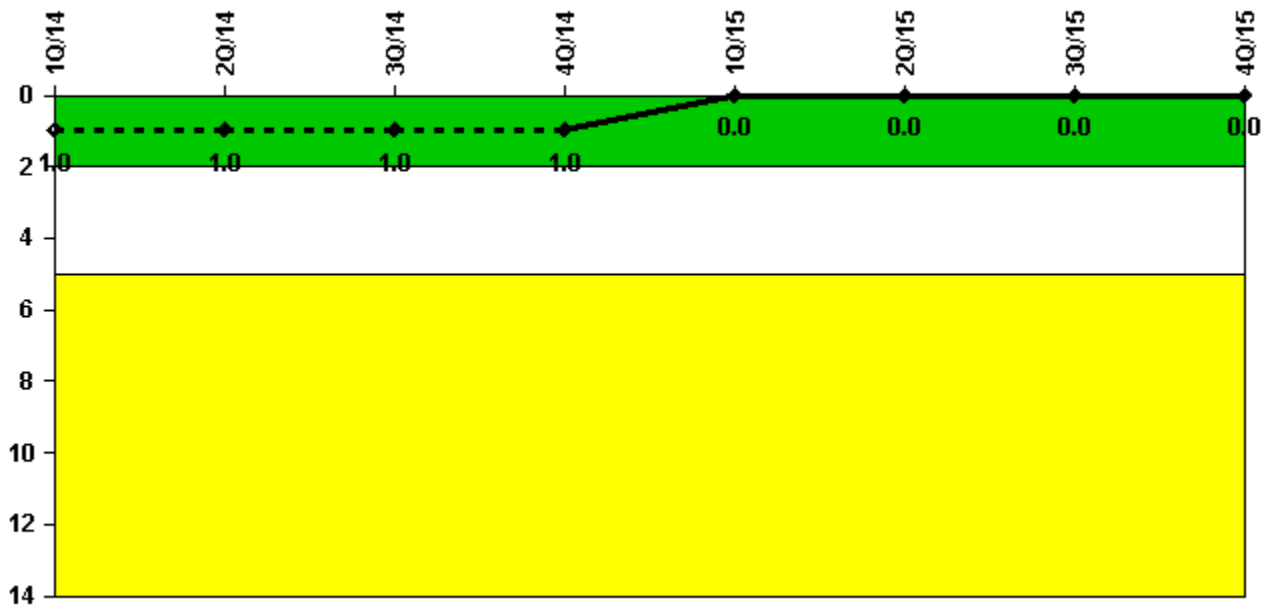
#### Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	129	129	129	129	128	126	126	127
Total sirens-tests	129	129	129	129	129	127	127	129
Indicator value	100.0%	100.0%	100.0%	100.0%	99.8%	99.6%	99.4%	99.0%

Licensee Comments: none



### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

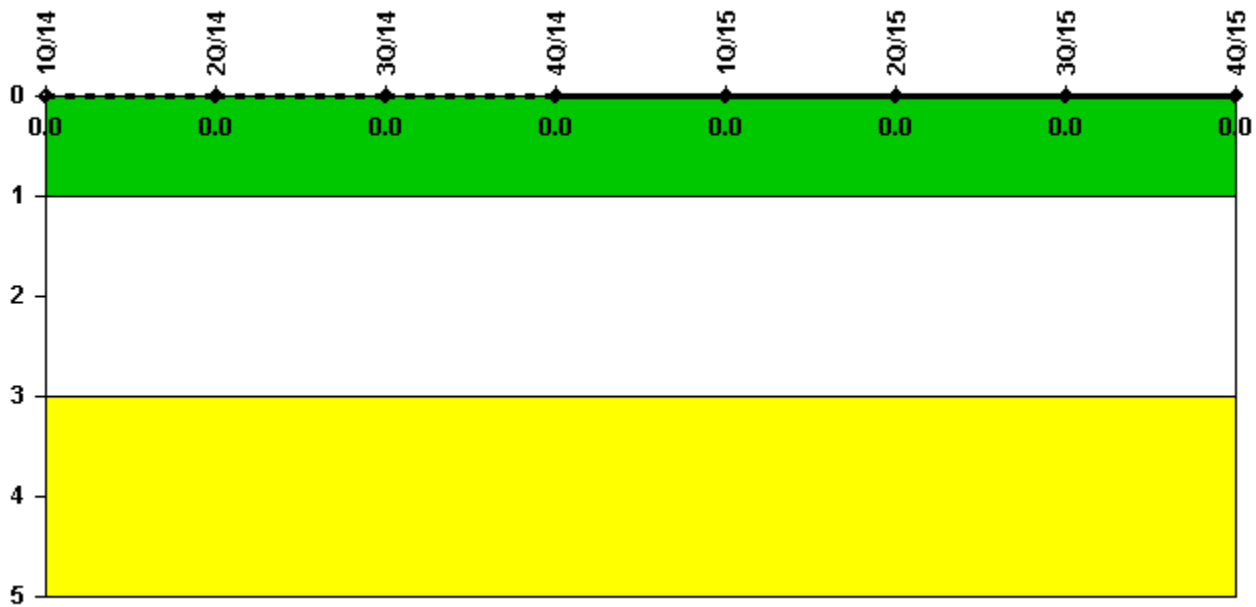
#### Notes

Occupational Exposure Control Effectiveness	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
High radiation area occurrences	1	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>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments:

1Q/14: March data includes event for a bucket containing irradiated components being lifted without proper controls being in place.

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: March 1, 2016*

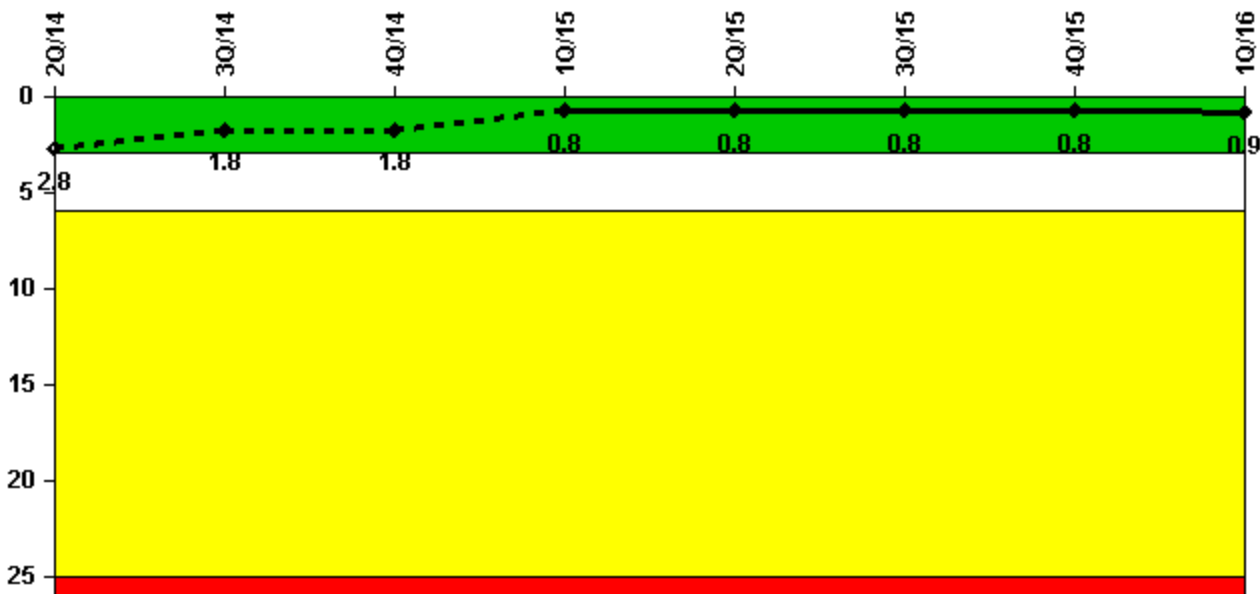
# Grand Gulf 1

## 1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



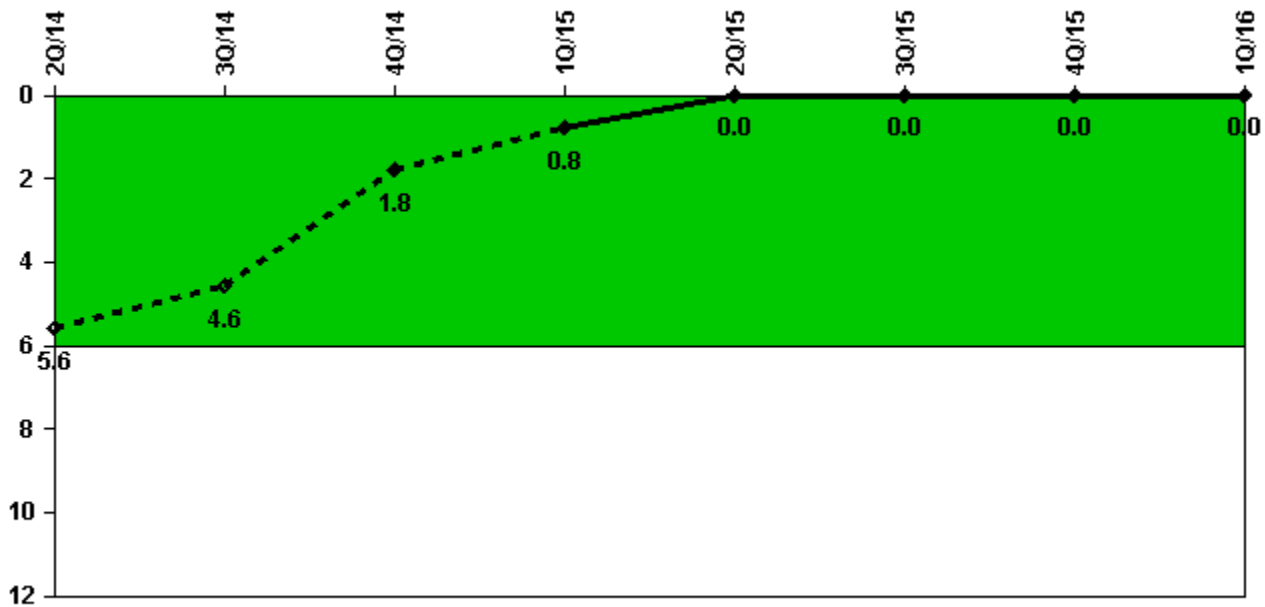
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	0	1.0	0	0	0	1.0
Critical hours	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0	2209.0	1315.9
Indicator value	2.8	1.8	1.8	0.8	0.8	0.8	0.8	0.9

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2005.0	2184.0	2208.0	2209.0	1315.9
<b>Indicator value</b>	<b>5.6</b>	<b>4.6</b>	<b>1.8</b>	<b>0.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

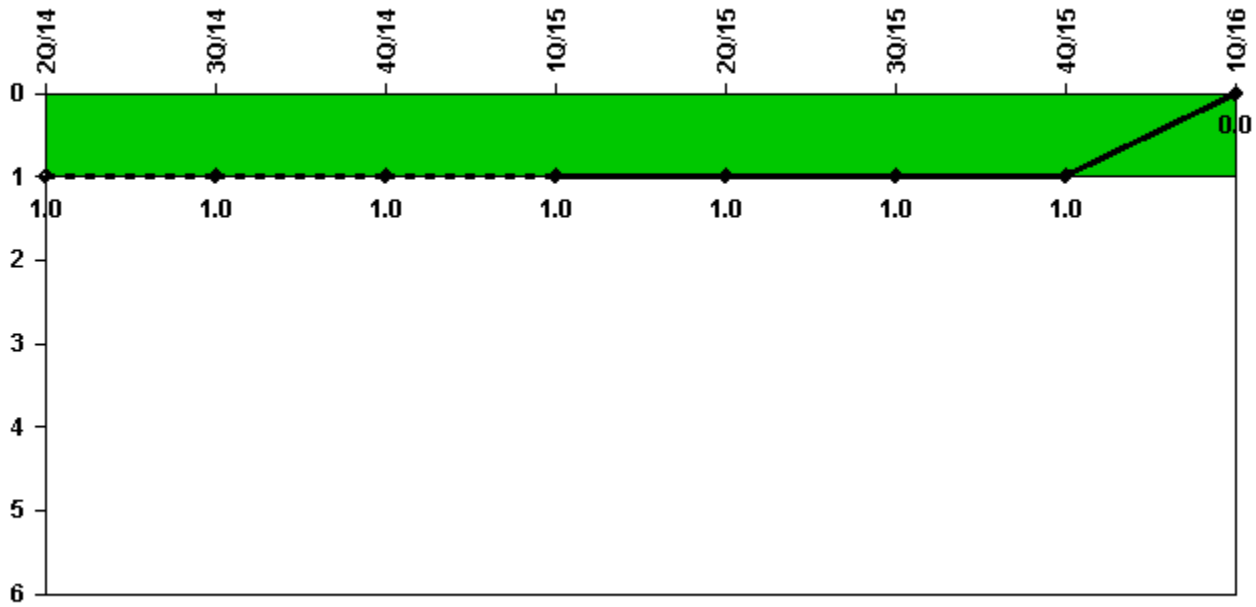
#### Licensee Comments:

1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.

4Q/14: Plant power was reduced by greater than 20% on November 23, 2014 at the direction of the grid dispatcher due to grid instability. This down power was outside of management control.

2Q/14: Grand Gulf added one unplanned power change to 2Q2014. This event was excluded in error and has been entered into the corrective action program.

### Unplanned Scrams with Complications



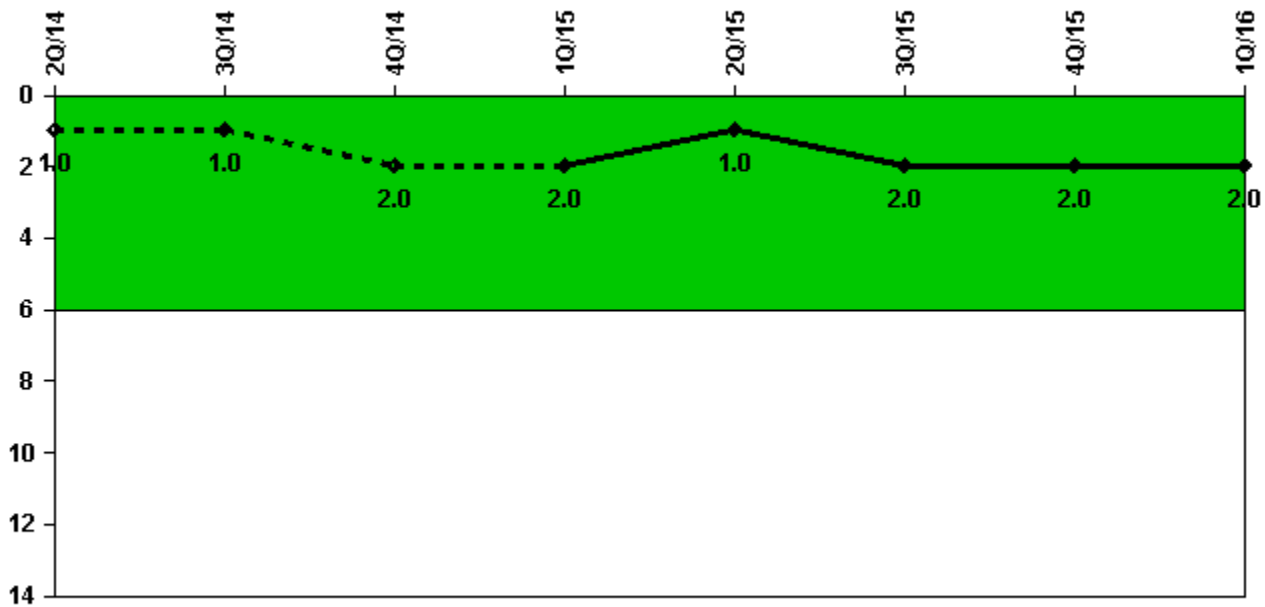
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Scrams with complications	0	0	0	1.0	0	0	0	0
<b>Indicator value</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	1	0	1	0	0	1	1	0
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>

Licensee Comments:

4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q14 and one in 4Q14

3Q/15: LER 2015-002-00 Documents one safety system functional failure in August 2015.

4Q/14: LER 2015-002-00 Documents one safety system functional failure in October 2014.

2Q/14: LER 2015-002-00 Documents one safety system functional failure in June 2014.

### Mitigating Systems Performance Index, Emergency AC Power System



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

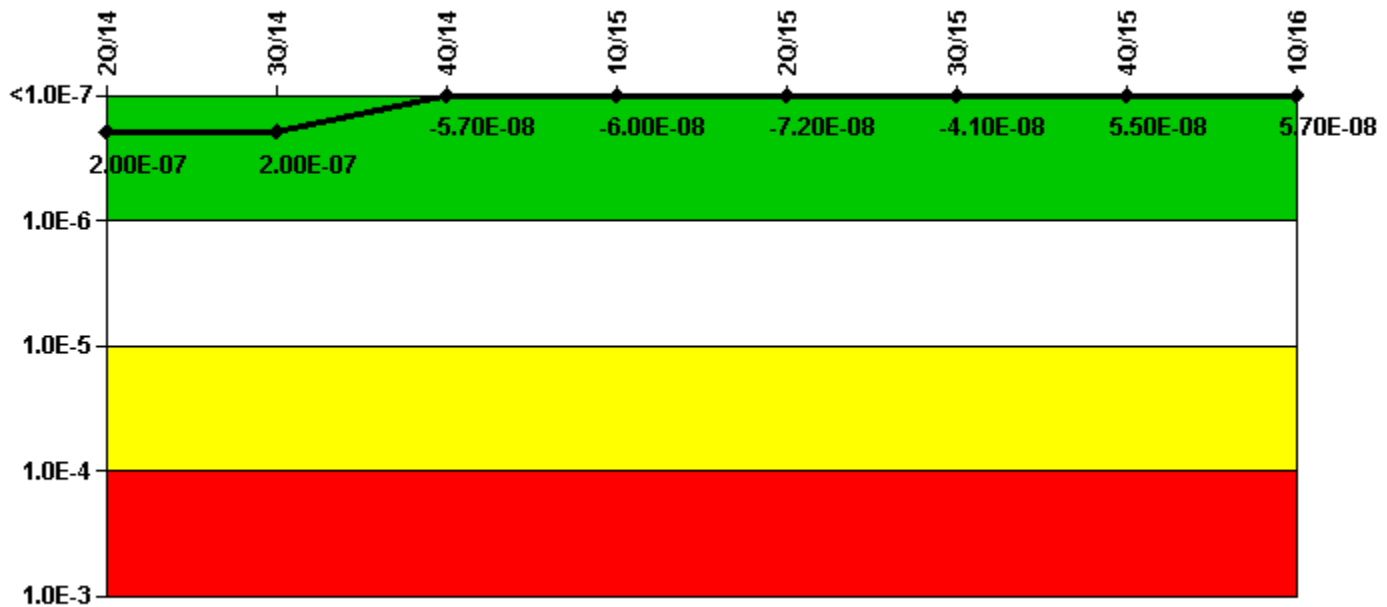
#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI ( $\Delta$ CDF)	1.12E-08	1.42E-08	1.90E-08	1.61E-08	1.41E-08	1.33E-08	1.31E-08	1.44E-08
URI ( $\Delta$ CDF)	1.81E-08	1.74E-08	1.78E-08	2.13E-08	2.07E-08	1.94E-08	1.87E-08	1.61E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.90E-08	3.20E-08	3.70E-08	3.70E-08	3.50E-08	3.30E-08	3.20E-08	3.00E-08

Licensee Comments: none



### Mitigating Systems Performance Index, High Pressure Injection System



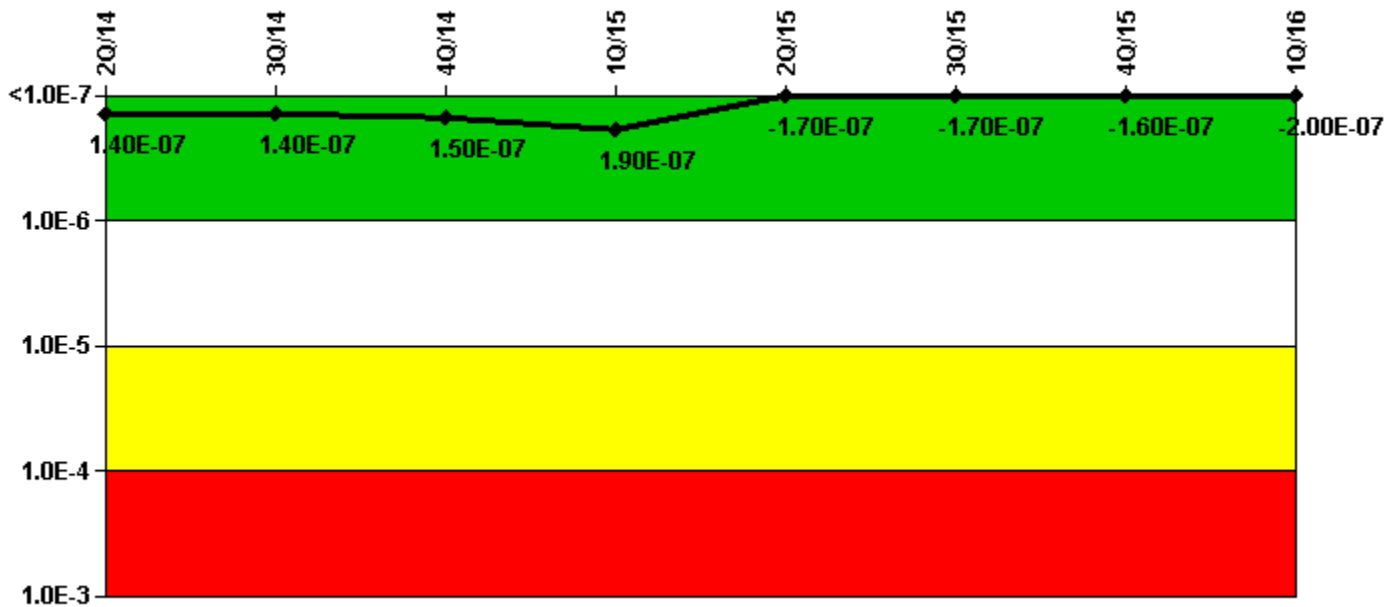
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (ΔCDF)	2.85E-07	2.85E-07	2.16E-08	1.80E-08	3.12E-08	3.69E-08	1.36E-07	1.33E-07
URI (ΔCDF)	-8.76E-08	-8.56E-08	-7.83E-08	-7.75E-08	-1.03E-07	-7.84E-08	-8.09E-08	-7.69E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	2.00E-07	-5.70E-08	-6.00E-08	-7.20E-08	-4.10E-08	5.50E-08	5.70E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



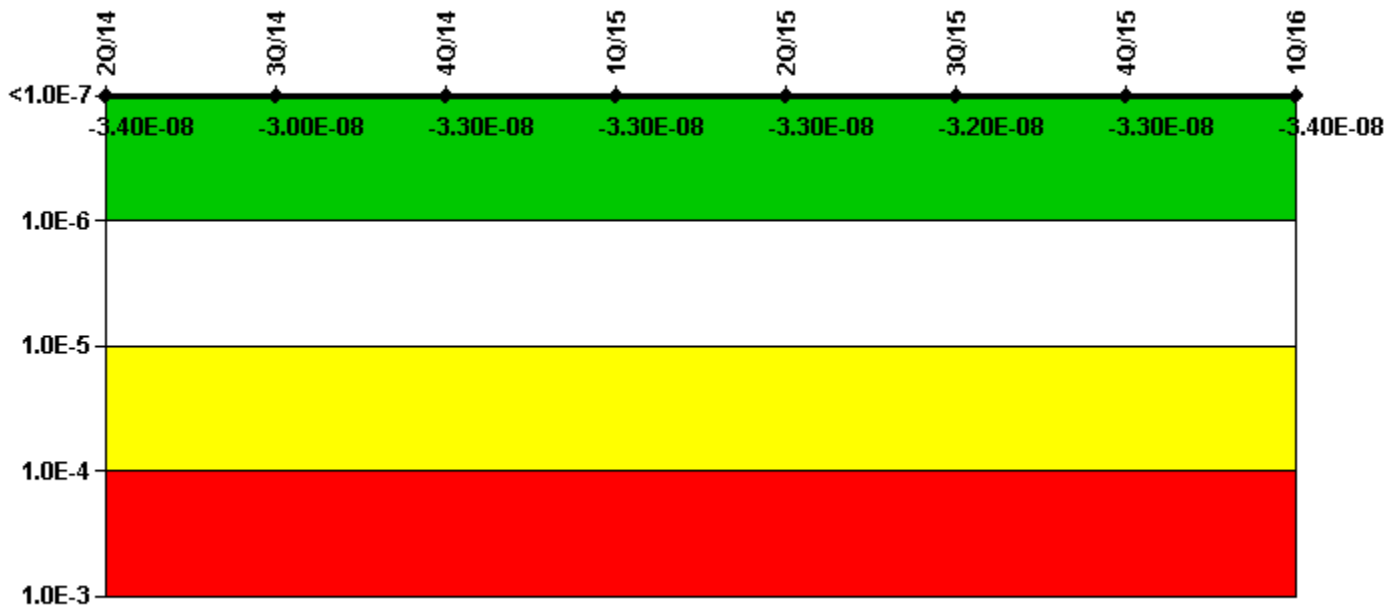
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (ΔCDF)	7.21E-09	7.21E-09	2.43E-08	5.30E-08	2.80E-08	2.80E-08	2.73E-08	-1.47E-08
URI (ΔCDF)	1.28E-07	1.28E-07	1.28E-07	1.35E-07	-1.99E-07	-1.96E-07	-1.90E-07	-1.85E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	1.40E-07	1.50E-07	1.90E-07	-1.70E-07	-1.70E-07	-1.60E-07	-2.00E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



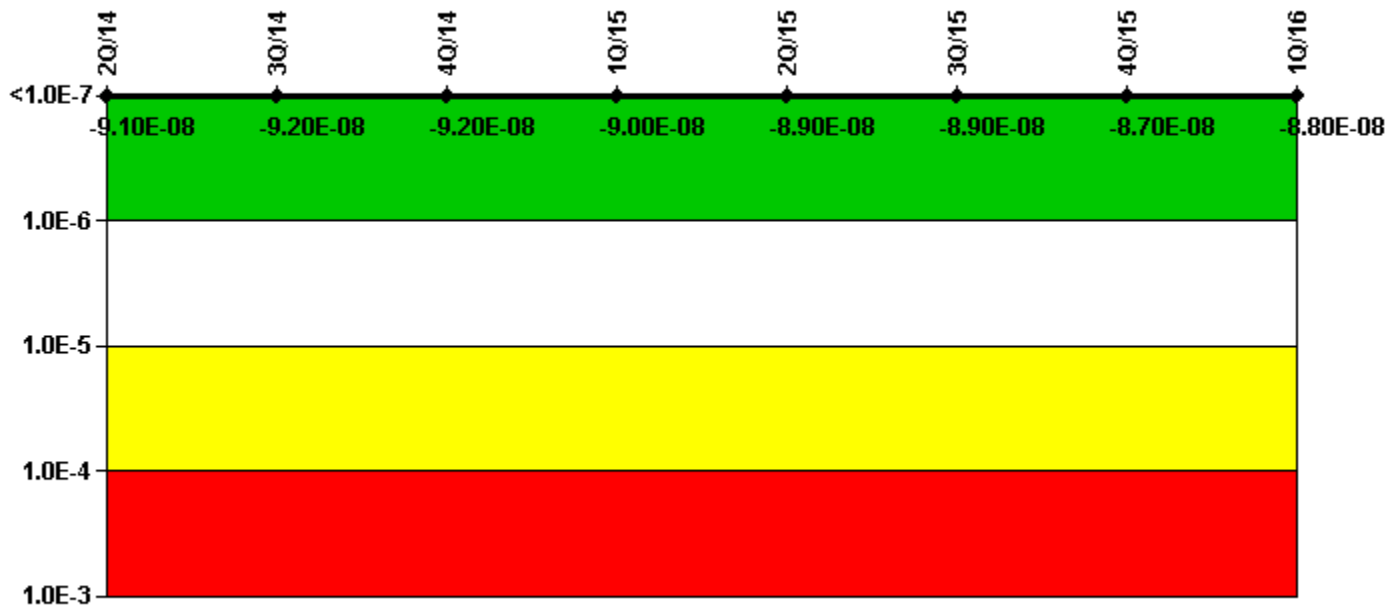
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI ( $\Delta$ CDF)	-8.56E-09	-3.39E-09	-6.21E-09	-7.80E-09	-8.56E-09	-7.32E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.51E-08	-2.62E-08	-2.67E-08	-2.56E-08	-2.41E-08	-2.44E-08	-2.42E-08	-2.57E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.40E-08	-3.00E-08	-3.30E-08	-3.30E-08	-3.30E-08	-3.20E-08	-3.30E-08	-3.40E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



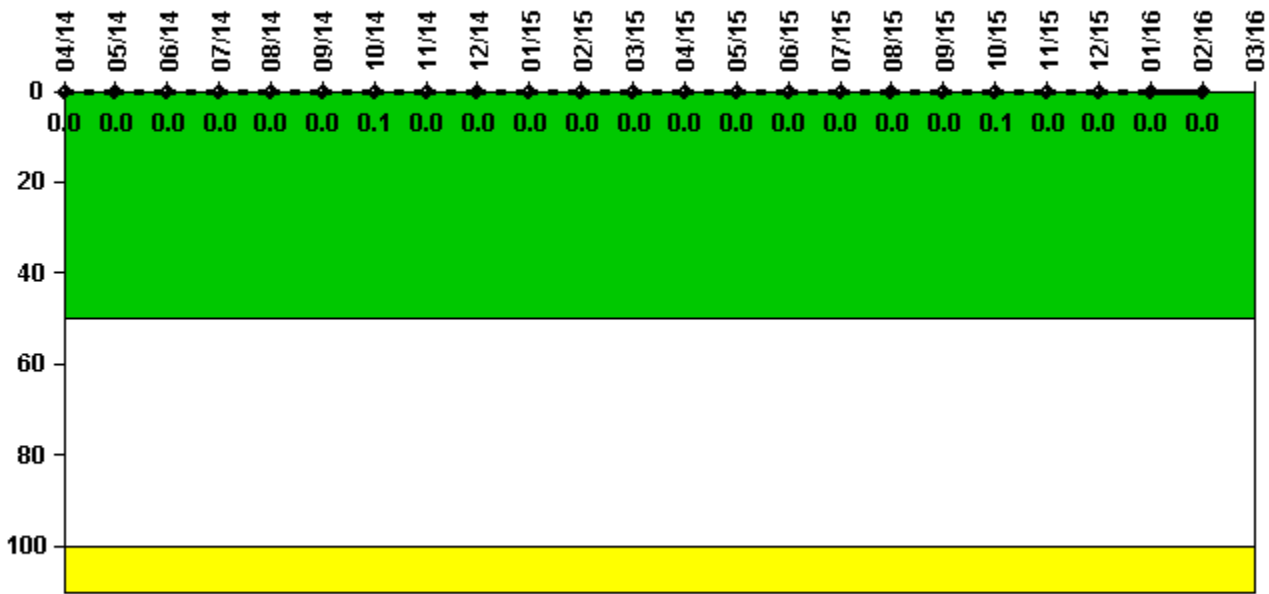
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-8.97E-08	-9.03E-08	-9.01E-08	-8.87E-08	-8.77E-08	-8.70E-08	-8.54E-08	-8.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.10E-08	-9.20E-08	-9.20E-08	-9.00E-08	-8.90E-08	-8.90E-08	-8.70E-08	-8.80E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.000070	0.000044	0.000034	0.000043	0.000065	0.000069	0.000107	0.000063	0.000038	0.000021	0.000008	0.000093
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	0.1	0	0	0	0	0

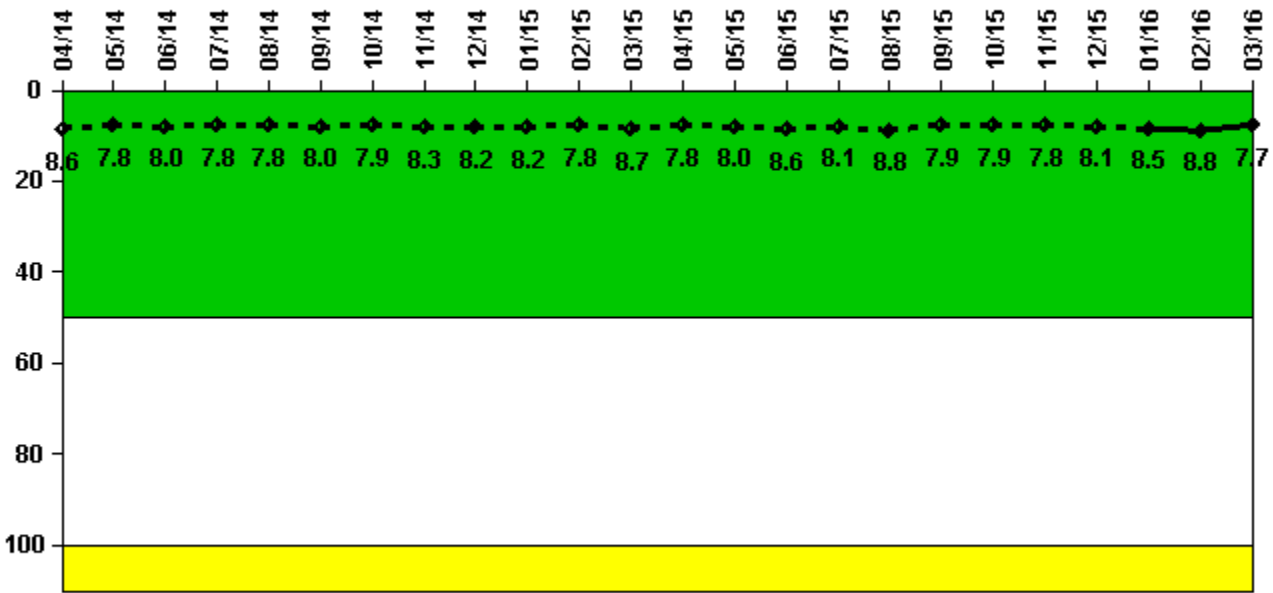
  

Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.000036	0.000037	0.000039	0.000063	0.000079	0.000092	0.000116	0.000033	0.000053	0.000069	0.000053	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0.1	0	0	0	0	N/A

Licensee Comments:

3/16: For March 2016 the unit did not obtain a stable state power condition

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

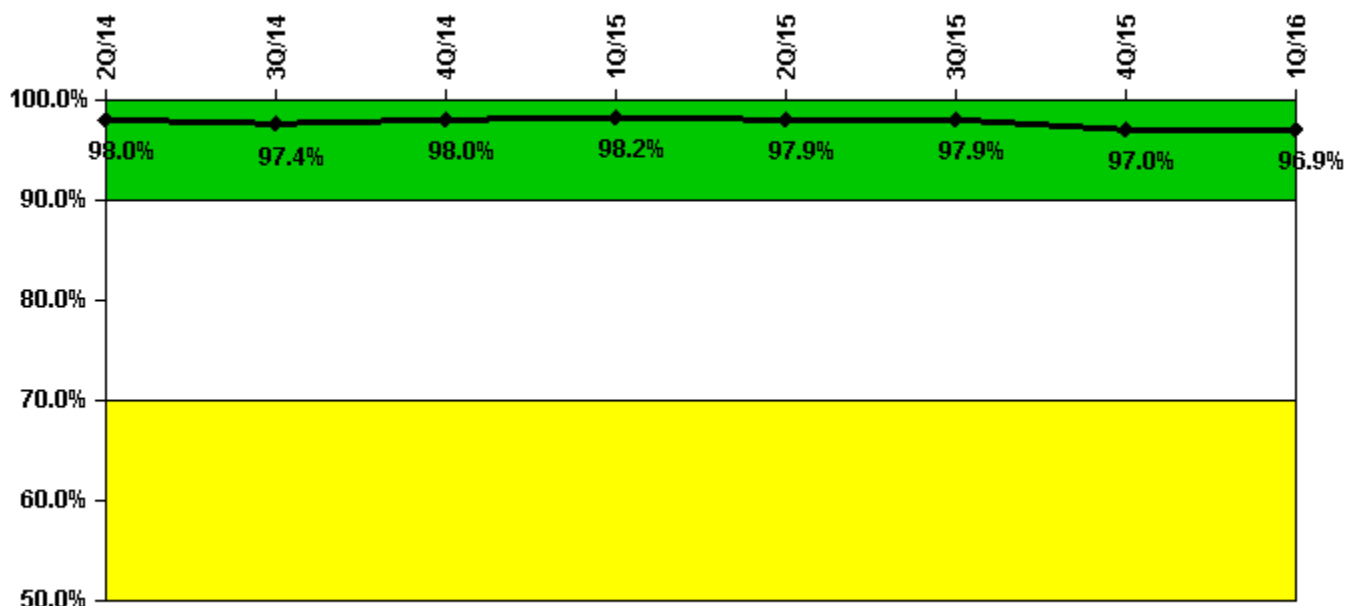
Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	2.570	2.350	2.410	2.340	2.350	2.410	2.370	2.480	2.450	2.460	2.330	2.600
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.6	7.8	8.0	7.8	7.8	8.0	7.9	8.3	8.2	8.2	7.8	8.7

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	2.350	2.400	2.580	2.440	2.630	2.370	2.370	2.350	2.430	2.540	2.630	2.300
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.8	8.0	8.6	8.1	8.8	7.9	7.9	7.8	8.1	8.5	8.8	7.7

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

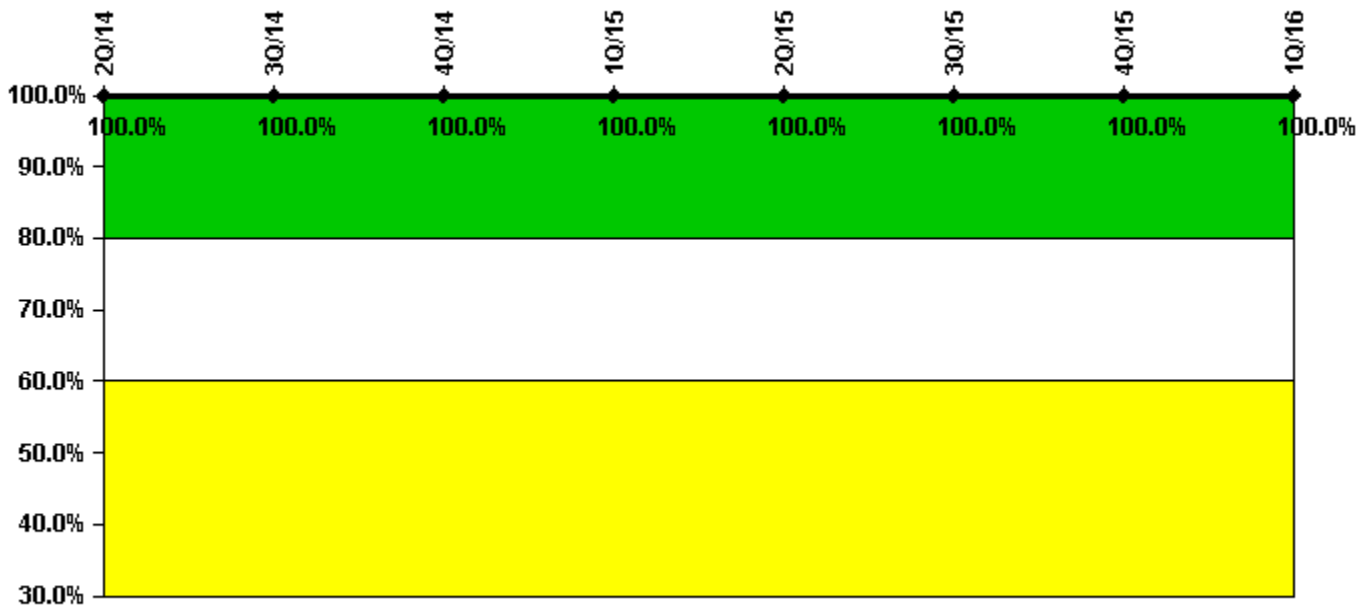
Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	24.0	51.0	50.0	25.0	31.0	17.0	51.0	0
Total opportunities	24.0	54.0	50.0	26.0	33.0	17.0	53.0	0
Indicator value	98.0%	97.4%	98.0%	98.2%	97.9%	97.9%	97.0%	96.9%

Licensee Comments:

1Q/15: Performed data update for the data reported in January 2015 (RAM 7-3-15)

3Q/14: Performed update to the data reported in August 2014 (RAM 7-3-2015)

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

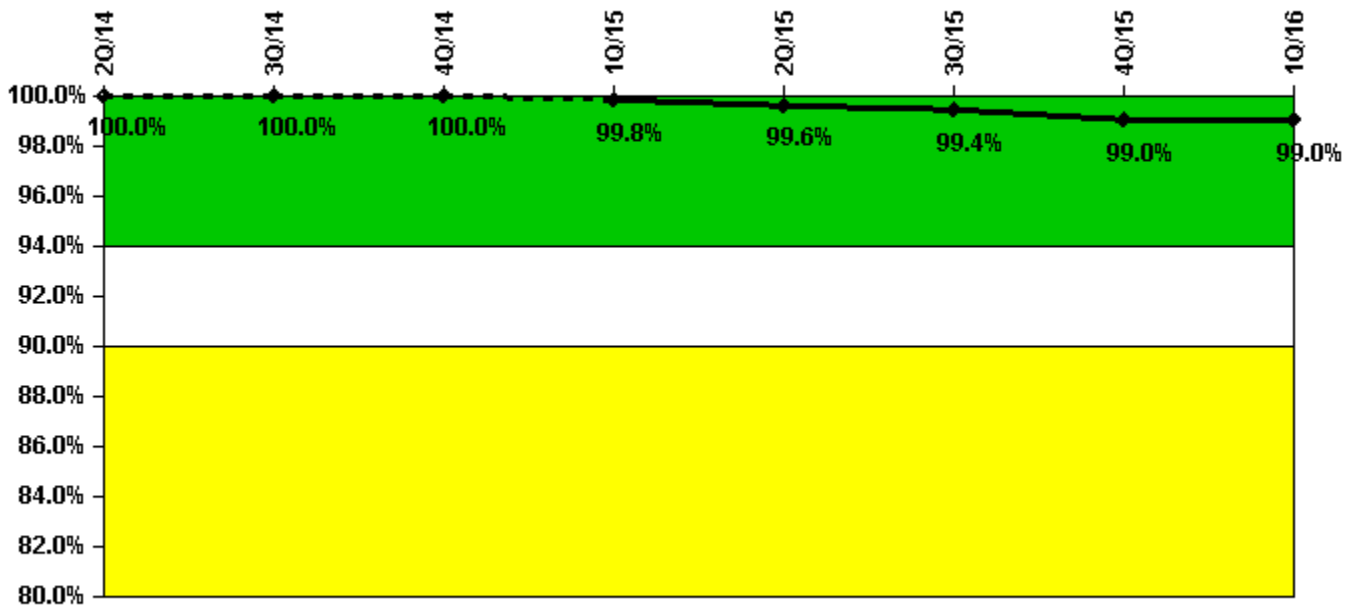
#### Notes

ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	71.0	63.0	64.0	62.0	65.0	64.0	66.0	64.0
Total Key personnel	71.0	63.0	64.0	62.0	65.0	64.0	66.0	64.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none



### Alert & Notification System



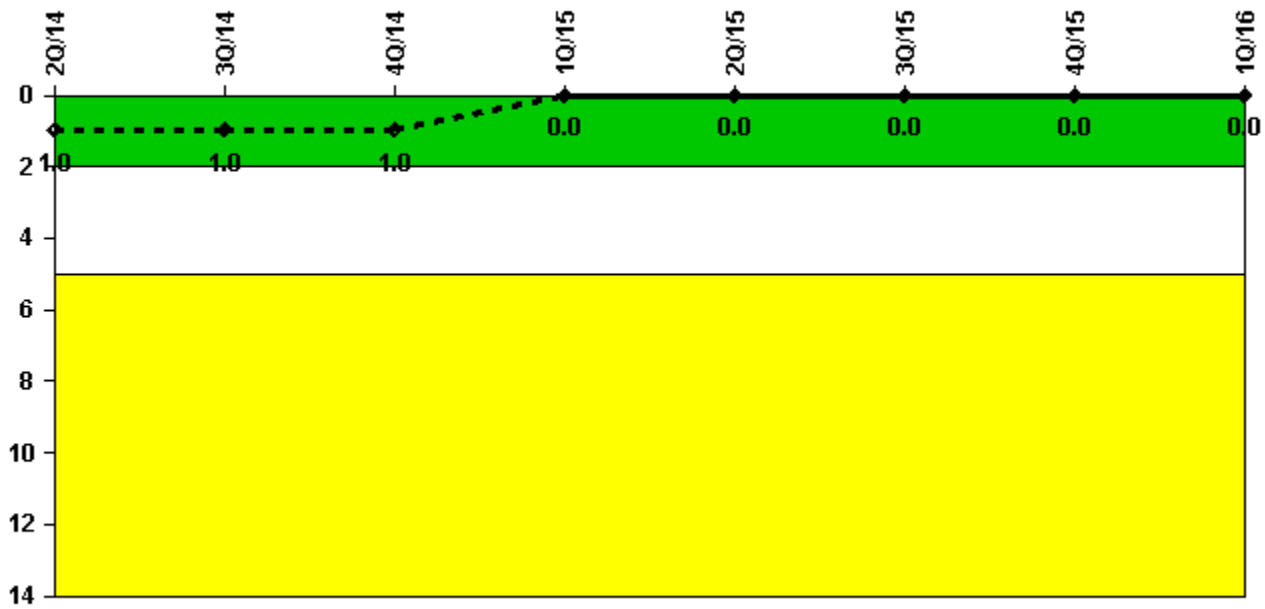
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	129	129	129	128	126	126	127	127
Total sirens-tests	129	129	129	129	127	127	129	128
Indicator value	100.0%	100.0%	100.0%	99.8%	99.6%	99.4%	99.0%	99.0%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



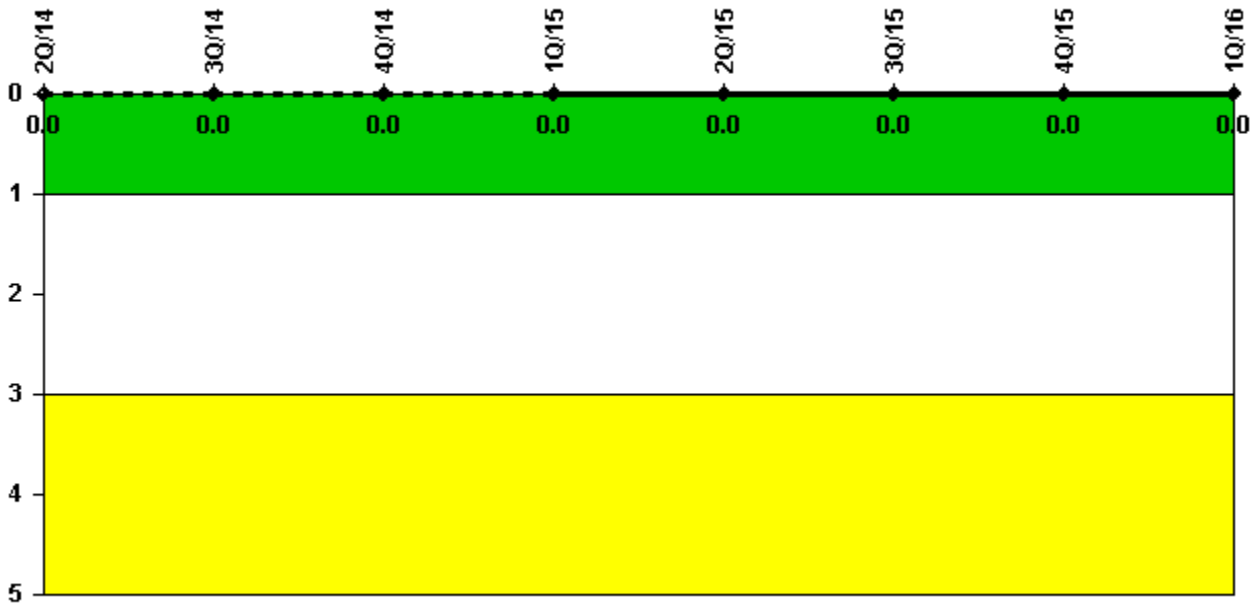
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
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>1</b>	<b>1</b>	<b>1</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/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: April 23, 2016*

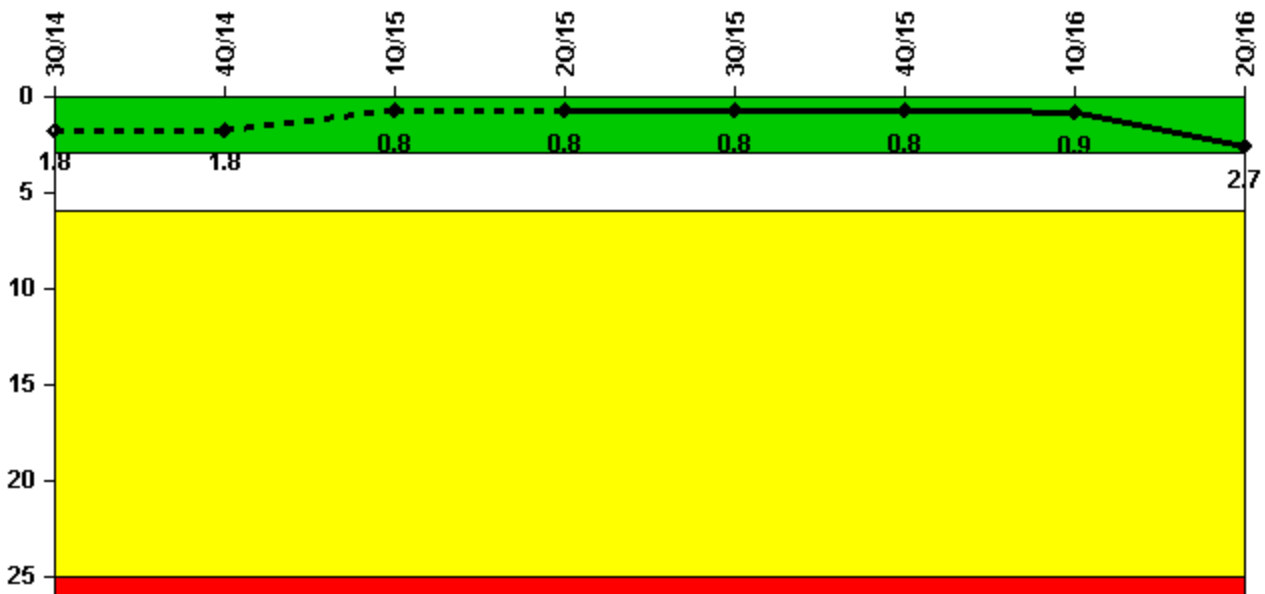
# Grand Gulf 1

## 2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



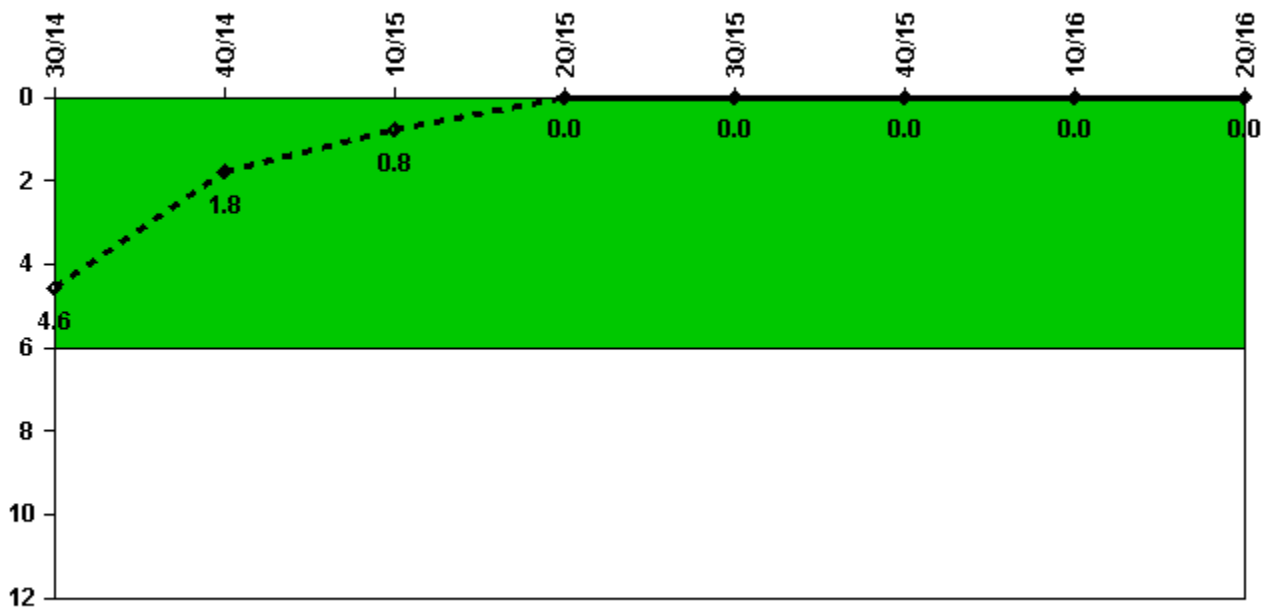
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned scrams	0	0	1.0	0	0	0	1.0	2.0
Critical hours	2208.0	2209.0	2005.0	2184.0	2208.0	2209.0	1315.9	2010.2
Indicator value	1.8	1.8	0.8	0.8	0.8	0.8	0.9	2.7

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

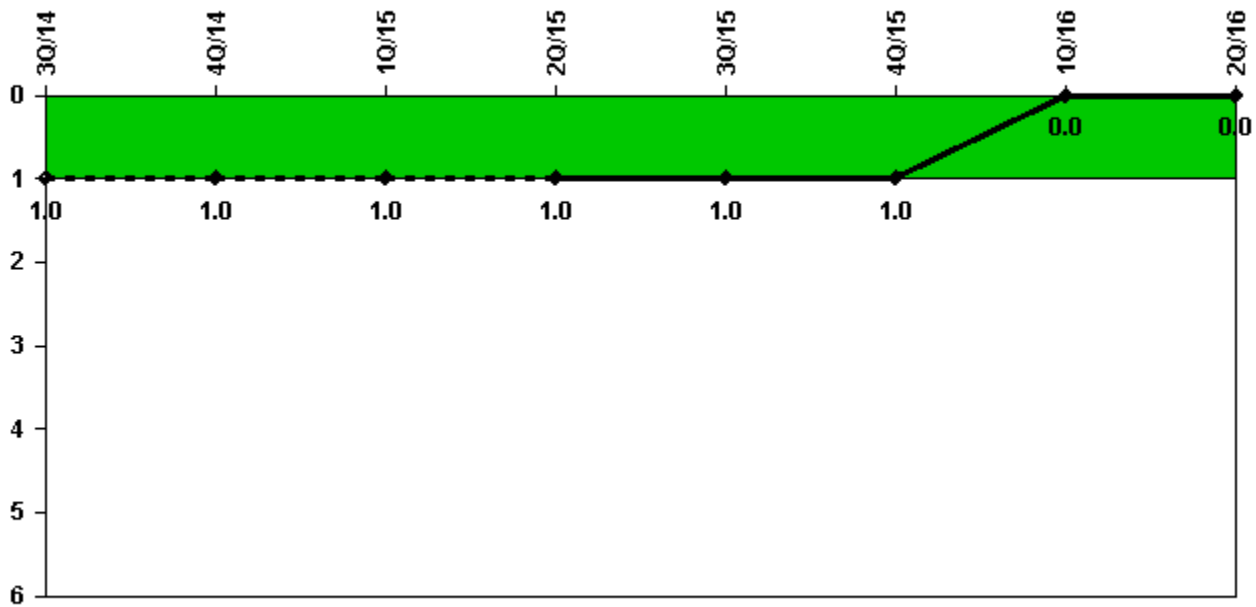
Unplanned Power Changes per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2005.0	2184.0	2208.0	2209.0	1315.9	2010.2
<b>Indicator value</b>	<b>4.6</b>	<b>1.8</b>	<b>0.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### Licensee Comments:

1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.

4Q/14: Plant power was reduced by greater than 20% on November 23, 2014 at the direction of the grid dispatcher due to grid instability. This down power was outside of management control.

### Unplanned Scrams with Complications



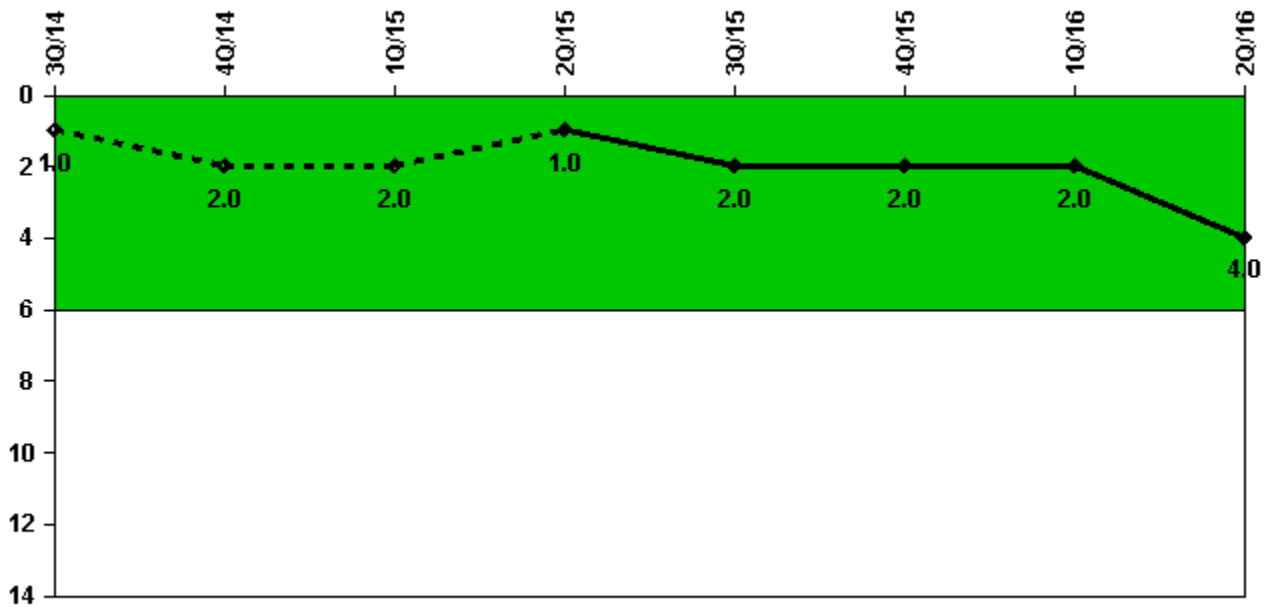
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Scrams with complications	0	0	1.0	0	0	0	0	0
<b>Indicator value</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Safety System Functional Failures	0	1	0	0	1	1	0	2
<b>Indicator value</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4</b>

Licensee Comments:

2Q/16: Reference LERs 2016-001-00 & 2016-003-00

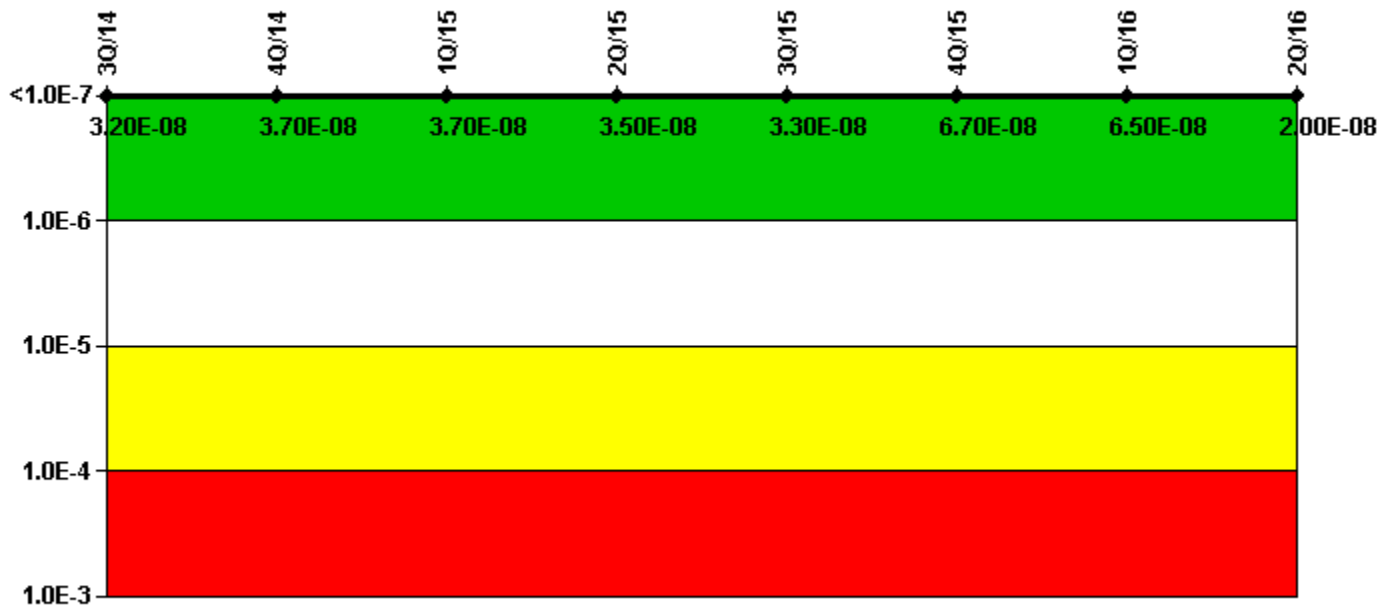
4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q14 and one in 4Q14

3Q/15: LER 2015-002-00 Documents one safety system functional failure in August 2015.

4Q/14: LER 2015-002-00 Documents one safety system functional failure in October 2014.



### Mitigating Systems Performance Index, Emergency AC Power System



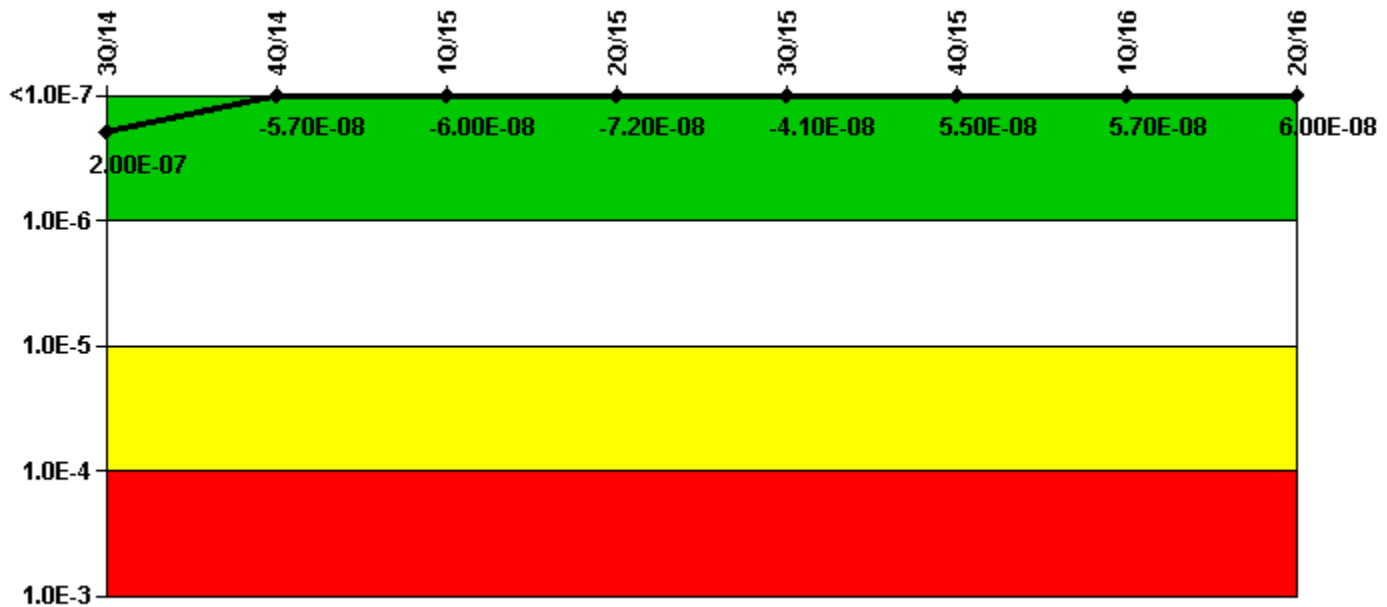
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI ( $\Delta$ CDF)	1.42E-08	1.90E-08	1.61E-08	1.41E-08	1.33E-08	1.31E-08	1.44E-08	1.57E-09
URI ( $\Delta$ CDF)	1.74E-08	1.78E-08	2.13E-08	2.07E-08	1.94E-08	5.39E-08	5.01E-08	1.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.20E-08	3.70E-08	3.70E-08	3.50E-08	3.30E-08	6.70E-08	6.50E-08	2.00E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



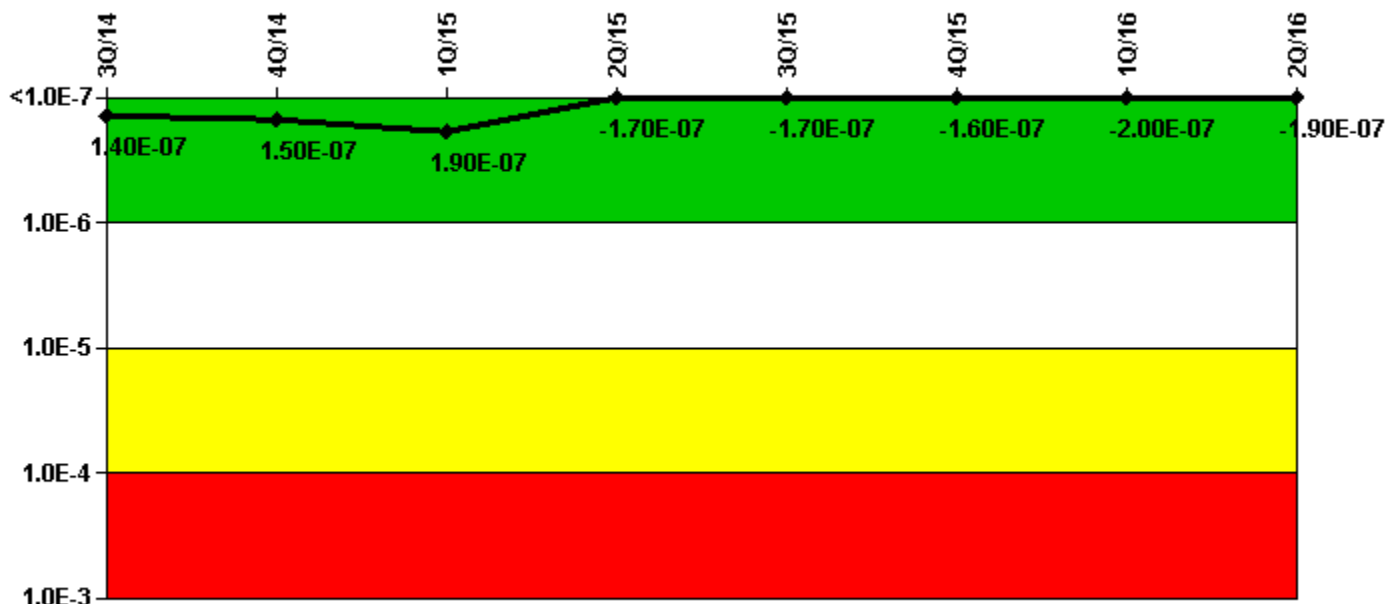
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI ( $\Delta$ CDF)	2.85E-07	2.16E-08	1.80E-08	3.12E-08	3.69E-08	1.36E-07	1.33E-07	1.36E-07
URI ( $\Delta$ CDF)	-8.56E-08	-7.83E-08	-7.75E-08	-1.03E-07	-7.84E-08	-8.09E-08	-7.69E-08	-7.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	-5.70E-08	-6.00E-08	-7.20E-08	-4.10E-08	5.50E-08	5.70E-08	6.00E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



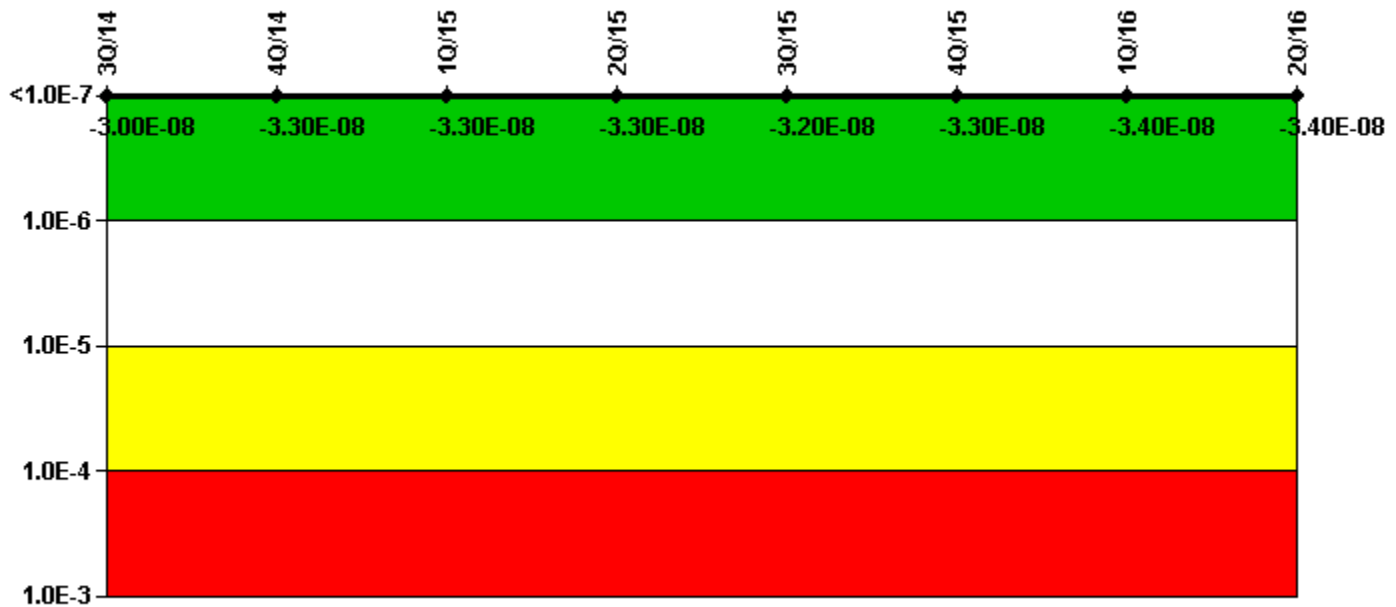
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (ΔCDF)	7.21E-09	2.43E-08	5.30E-08	2.80E-08	2.80E-08	2.73E-08	-1.47E-08	-8.76E-09
URI (ΔCDF)	1.28E-07	1.28E-07	1.35E-07	-1.99E-07	-1.96E-07	-1.90E-07	-1.85E-07	-1.79E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	1.50E-07	1.90E-07	-1.70E-07	-1.70E-07	-1.60E-07	-2.00E-07	-1.90E-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	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI ( $\Delta$ CDF)	-3.39E-09	-6.21E-09	-7.80E-09	-8.56E-09	-7.32E-09	-8.56E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.62E-08	-2.67E-08	-2.56E-08	-2.41E-08	-2.44E-08	-2.42E-08	-2.57E-08	-2.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-08	-3.30E-08	-3.30E-08	-3.30E-08	-3.20E-08	-3.30E-08	-3.40E-08	-3.40E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



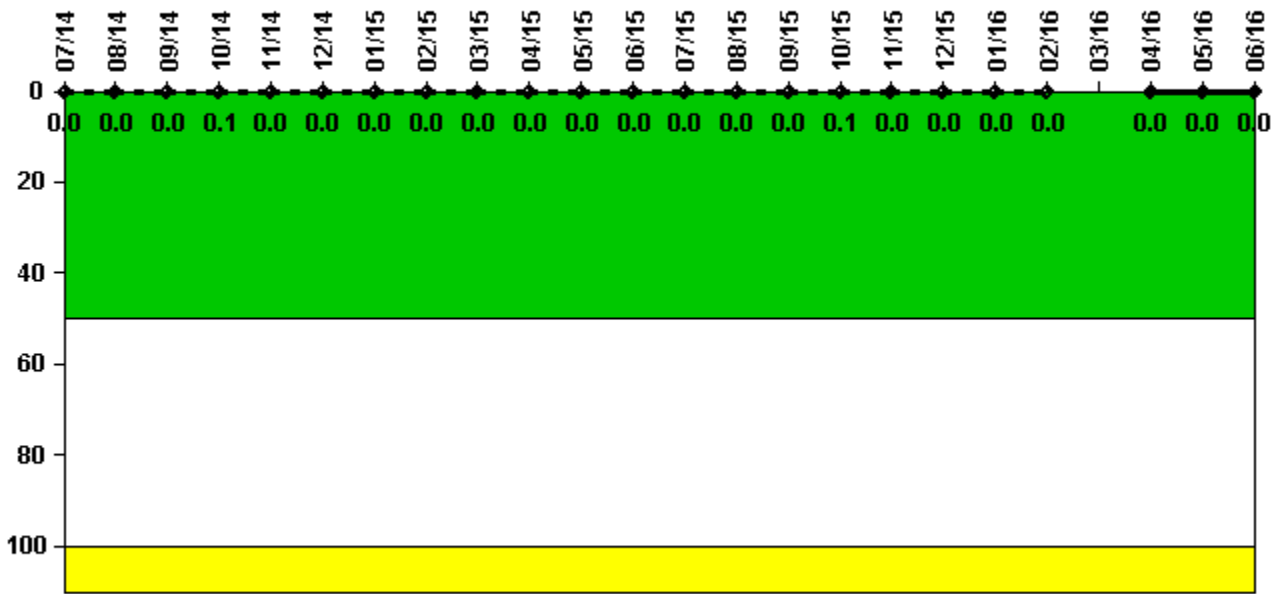
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.03E-08	-9.01E-08	-8.87E-08	-8.77E-08	-8.70E-08	-8.54E-08	-8.68E-08	-8.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-08	-9.20E-08	-9.00E-08	-8.90E-08	-8.90E-08	-8.70E-08	-8.80E-08	-8.70E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0.000043	0.000065	0.000069	0.000107	0.000063	0.000038	0.000021	0.000008	0.000093	0.000036	0.000037	0.000039
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	0.1	0	0	0	0	0	0	0	0

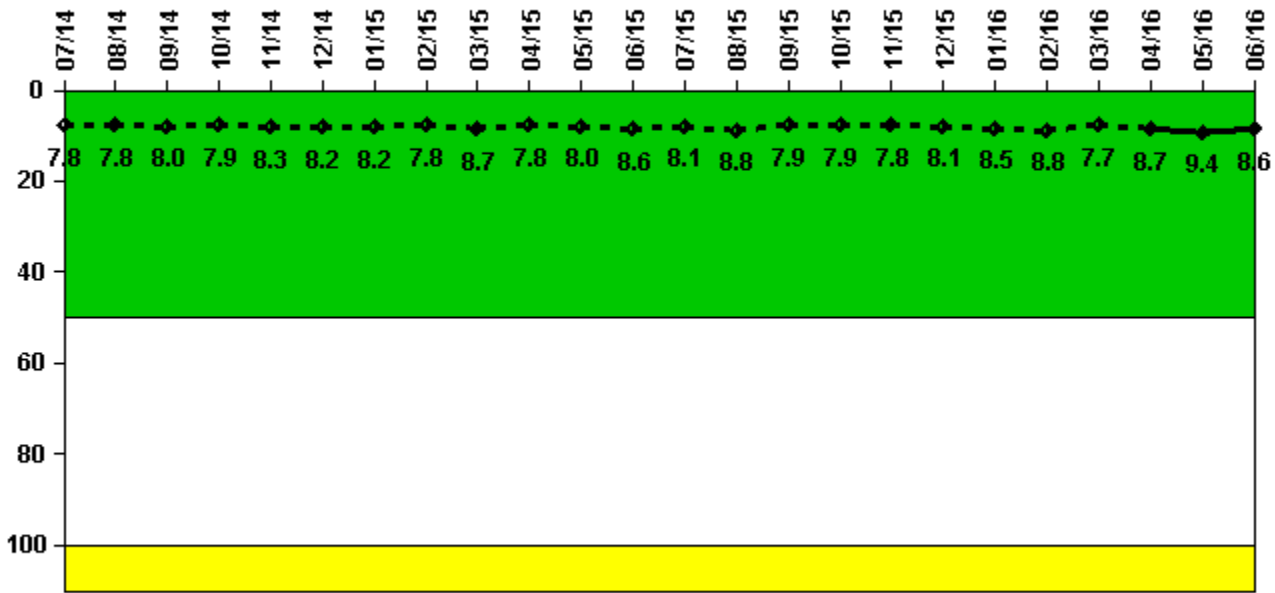
  

Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.000063	0.000079	0.000092	0.000116	0.000033	0.000053	0.000069	0.000053	N/A	0.000013	0.000094	0.000005
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0.1	0	0	0	0	N/A	0	0	0

Licensee Comments:

3/16: For March 2016 the unit did not obtain a stable state power condition

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

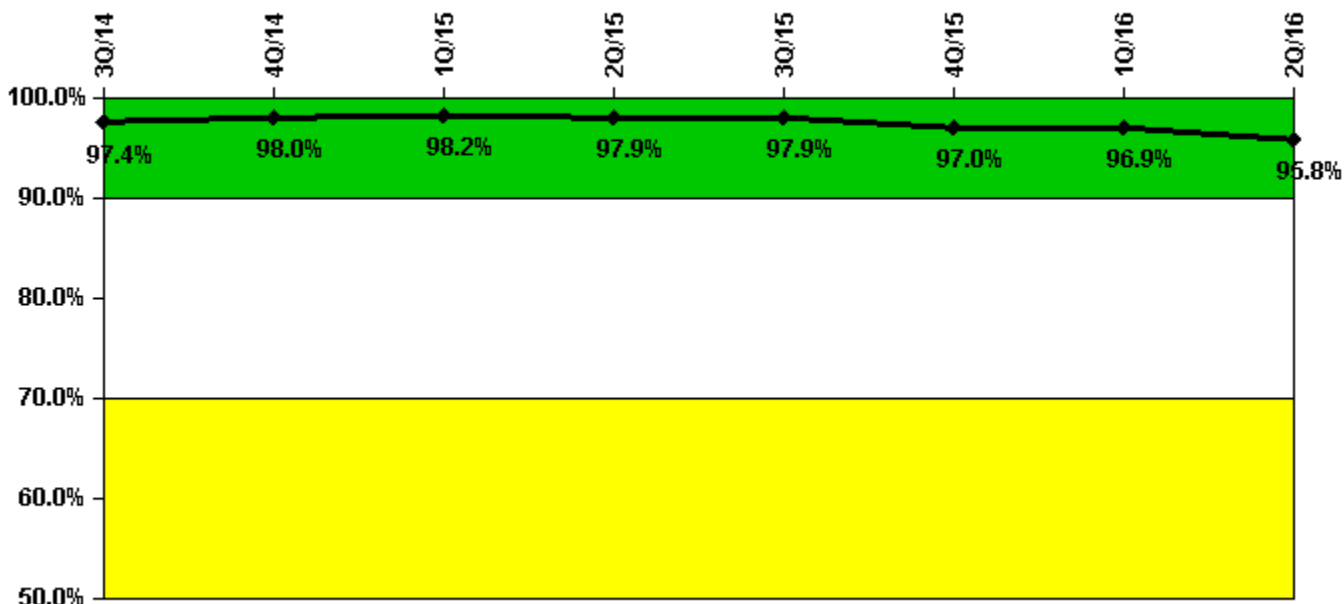
Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	2.340	2.350	2.410	2.370	2.480	2.450	2.460	2.330	2.600	2.350	2.400	2.580
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.8	7.8	8.0	7.9	8.3	8.2	8.2	7.8	8.7	7.8	8.0	8.6

Reactor Coolant System Leakage	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum leakage	2.440	2.630	2.370	2.370	2.350	2.430	2.540	2.630	2.300	2.600	2.810	2.580
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.1	8.8	7.9	7.9	7.8	8.1	8.5	8.8	7.7	8.7	9.4	8.6

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful opportunities	51.0	50.0	25.0	31.0	17.0	51.0	0	29.0
Total opportunities	54.0	50.0	26.0	33.0	17.0	53.0	0	32.0
Indicator value	97.4%	98.0%	98.2%	97.9%	97.9%	97.0%	96.9%	95.8%

Licensee Comments:

1Q/15: Performed data update for the data reported in January 2015 (RAM 7-3-15)

3Q/14: Performed update to the data reported in August 2014 (RAM 7-3-2015)



### ERO Drill Participation



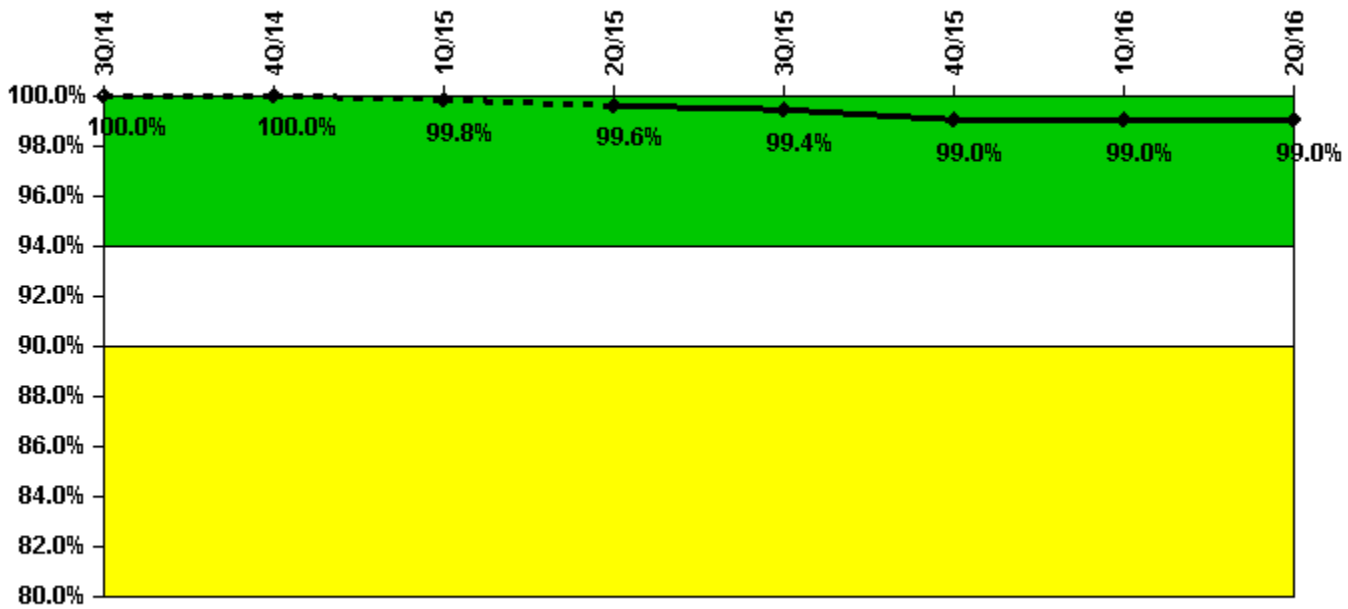
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Participating Key personnel	63.0	64.0	62.0	65.0	64.0	66.0	64.0	67.0
Total Key personnel	63.0	64.0	62.0	65.0	64.0	66.0	64.0	67.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



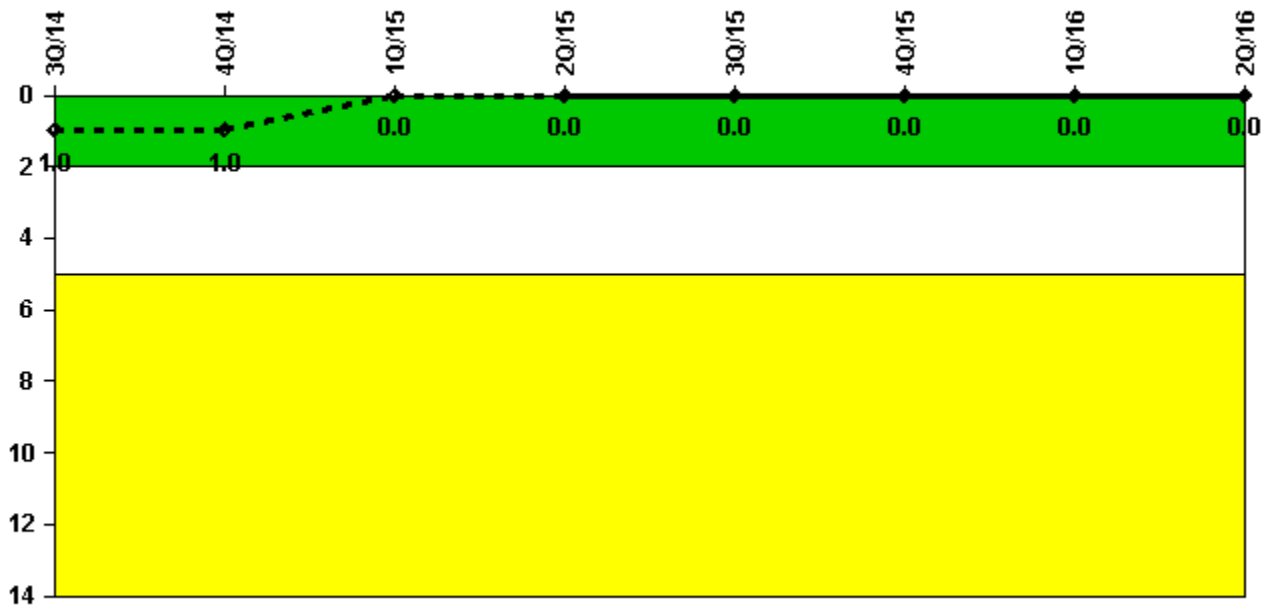
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful siren-tests	129	129	128	126	126	127	127	128
Total sirens-tests	129	129	129	127	127	129	128	129
Indicator value	100.0%	100.0%	99.8%	99.6%	99.4%	99.0%	99.0%	99.0%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



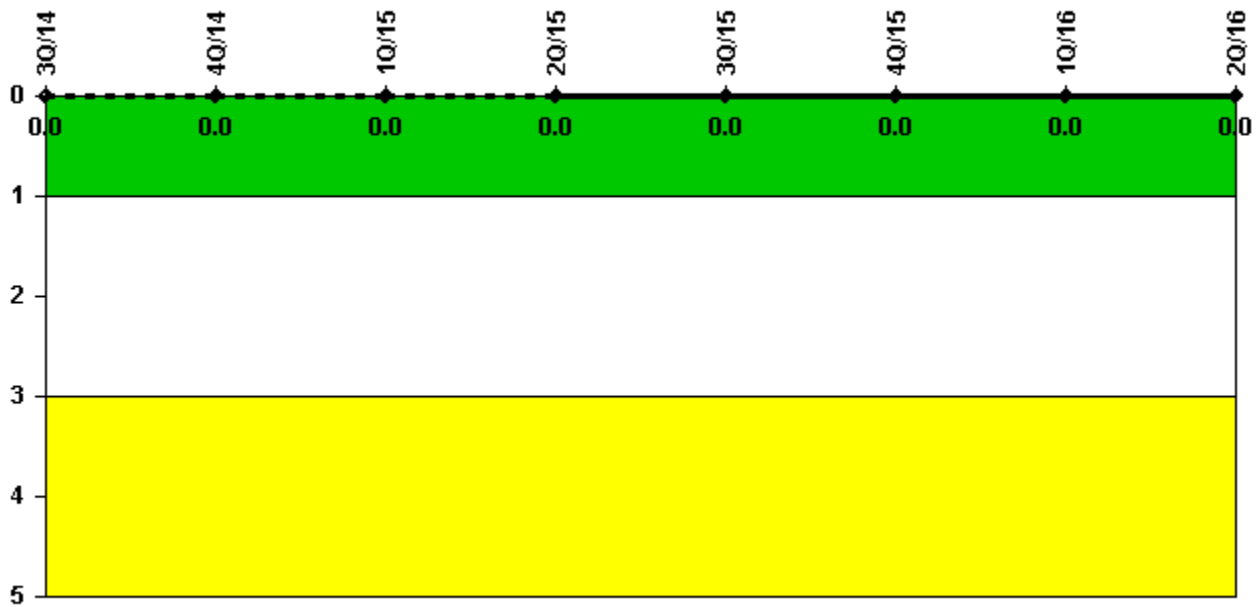
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
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>1</b>	<b>1</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/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: July 25, 2016*

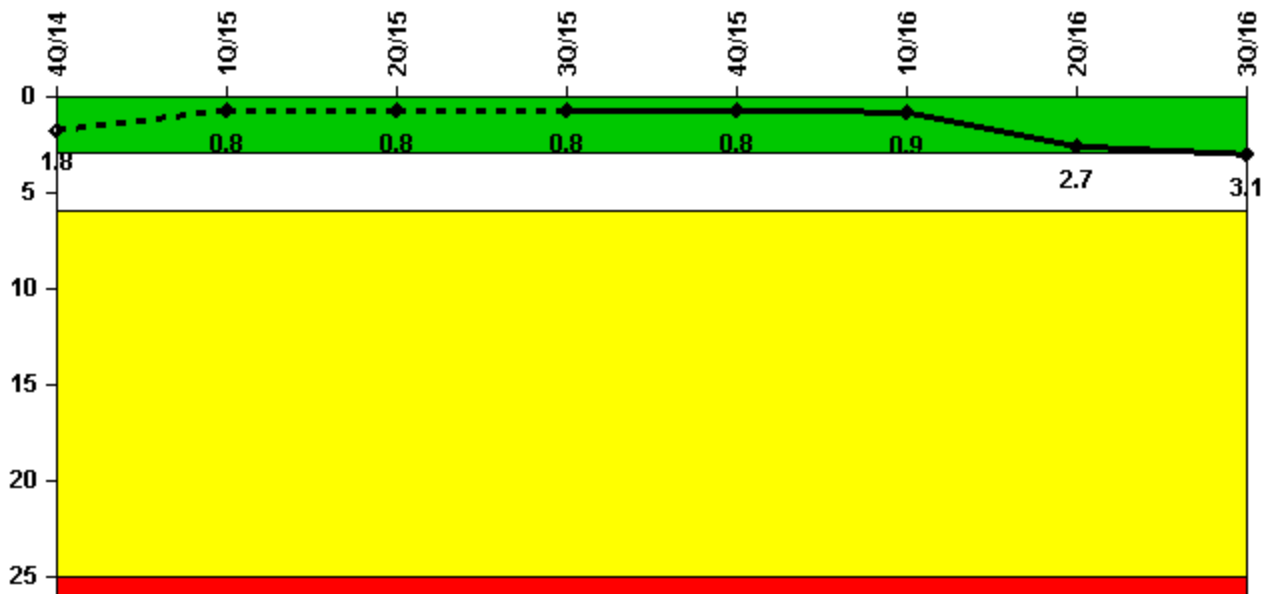
# Grand Gulf 1

## 3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



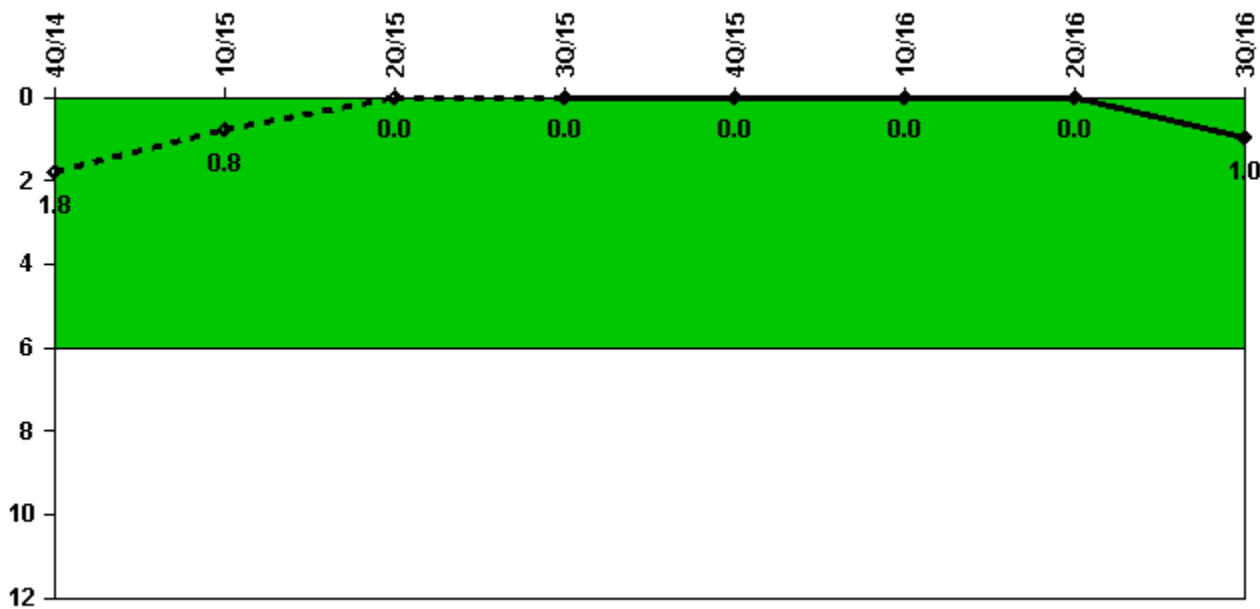
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned scrams	0	1.0	0	0	0	1.0	2.0	0
Critical hours	2209.0	2005.0	2184.0	2208.0	2209.0	1315.9	2010.2	1276.3
Indicator value	<b>1.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>2.7</b>	<b>3.1</b>

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2209.0	2005.0	2184.0	2208.0	2209.0	1315.9	2010.2	1276.3
<b>Indicator value</b>	<b>1.8</b>	<b>0.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.0</b>

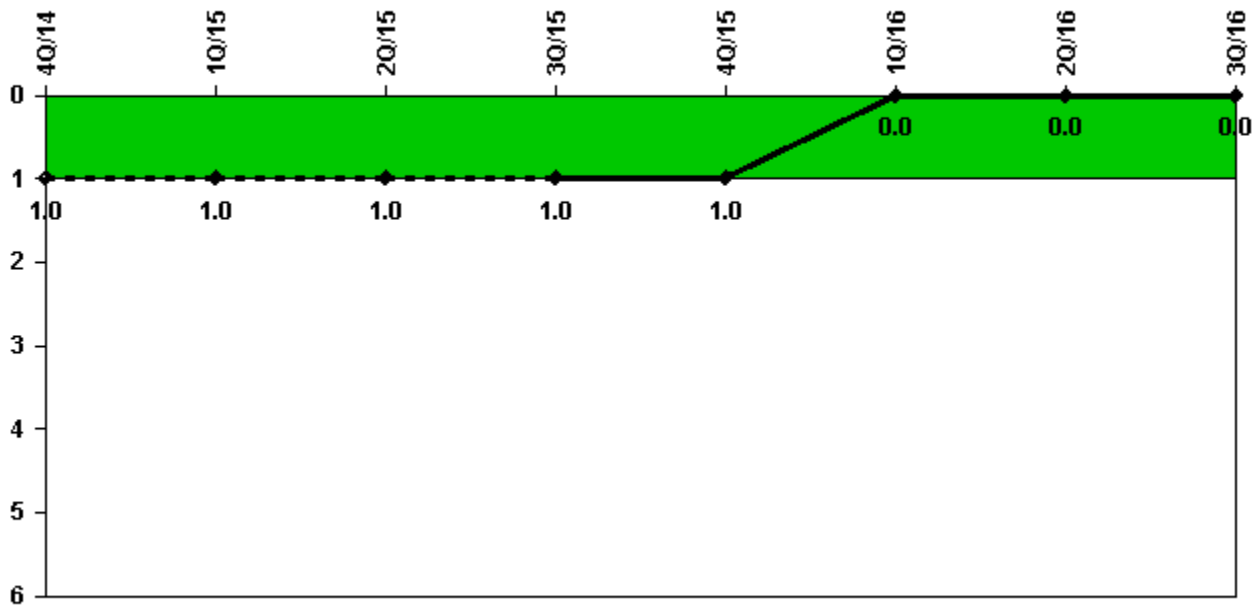
#### Licensee Comments:

3Q/16: Entergy will submit a FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.

1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.

4Q/14: Plant power was reduced by greater than 20% on November 23, 2014 at the direction of the grid dispatcher due to grid instability. This down power was outside of management control.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

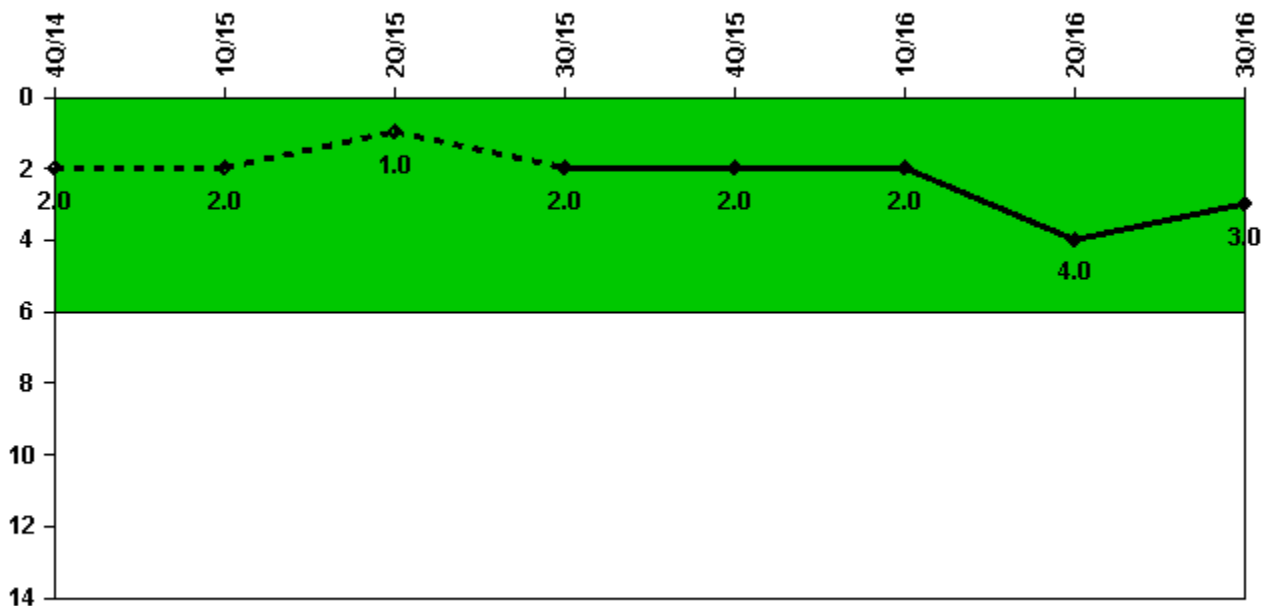
#### Notes

Unplanned Scrams with Complications	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Scrams with complications	0	1.0	0	0	0	0	0	0
<b>Indicator value</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none



### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Safety System Functional Failures	1	0	0	1	1	0	2	0
Indicator value	2	2	1	2	2	2	4	3

Licensee Comments:

3Q/16: Changed comments in 4Q15 PI comments to correct typographical error

2Q/16: Reference LERs 2016-001-00 & 2016-003-00

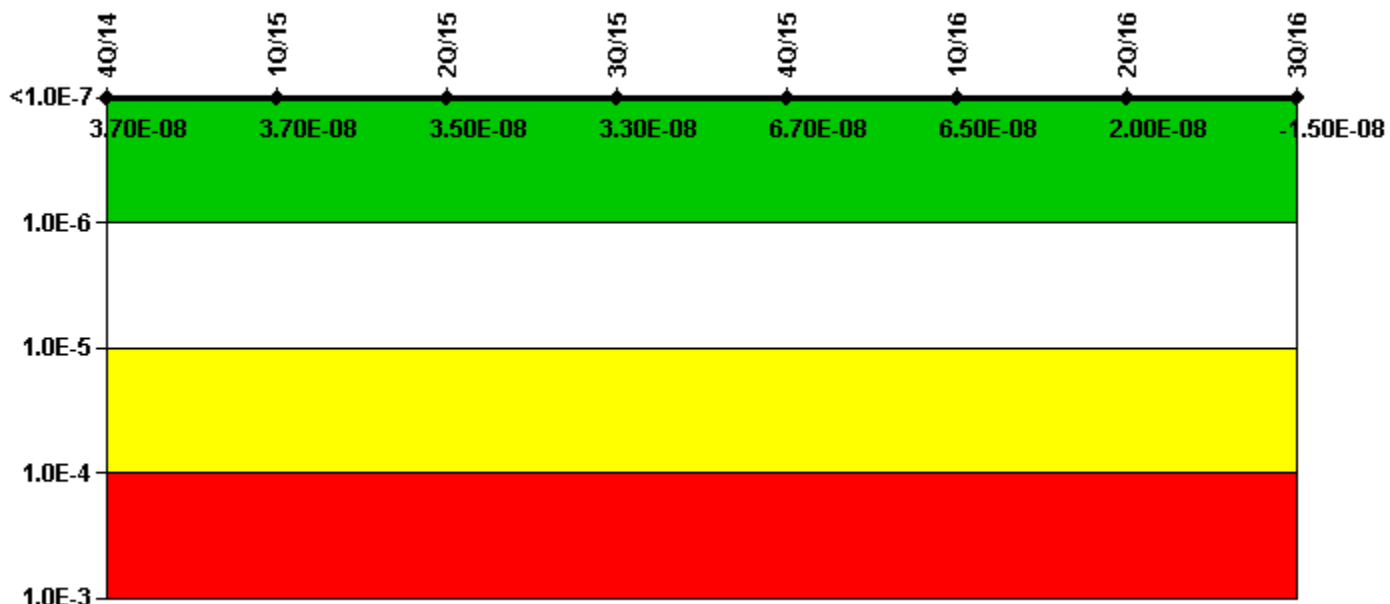
4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q14 and one in 4Q14

4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q15 and one in 4Q15. Correction of typographical errors (3Q15 & 4Q15)

3Q/15: LER 2015-002-00 Documents one safety system functional failure in August 2015.

4Q/14: LER 2015-002-00 Documents one safety system functional failure in October 2014.

### Mitigating Systems Performance Index, Emergency AC Power System



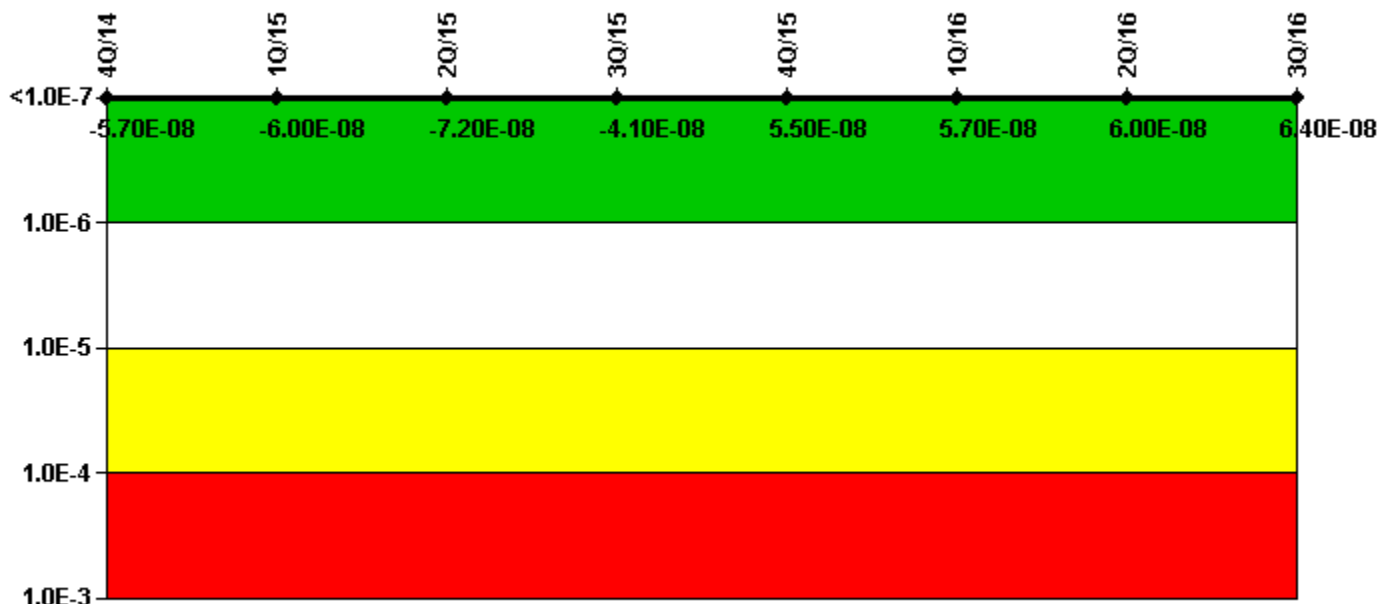
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI ( $\Delta$ CDF)	1.90E-08	1.61E-08	1.41E-08	1.33E-08	1.31E-08	1.44E-08	1.57E-09	-4.28E-10
URI ( $\Delta$ CDF)	1.78E-08	2.13E-08	2.07E-08	1.94E-08	5.39E-08	5.01E-08	1.87E-08	-1.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.70E-08	3.70E-08	3.50E-08	3.30E-08	6.70E-08	6.50E-08	2.00E-08	-1.50E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



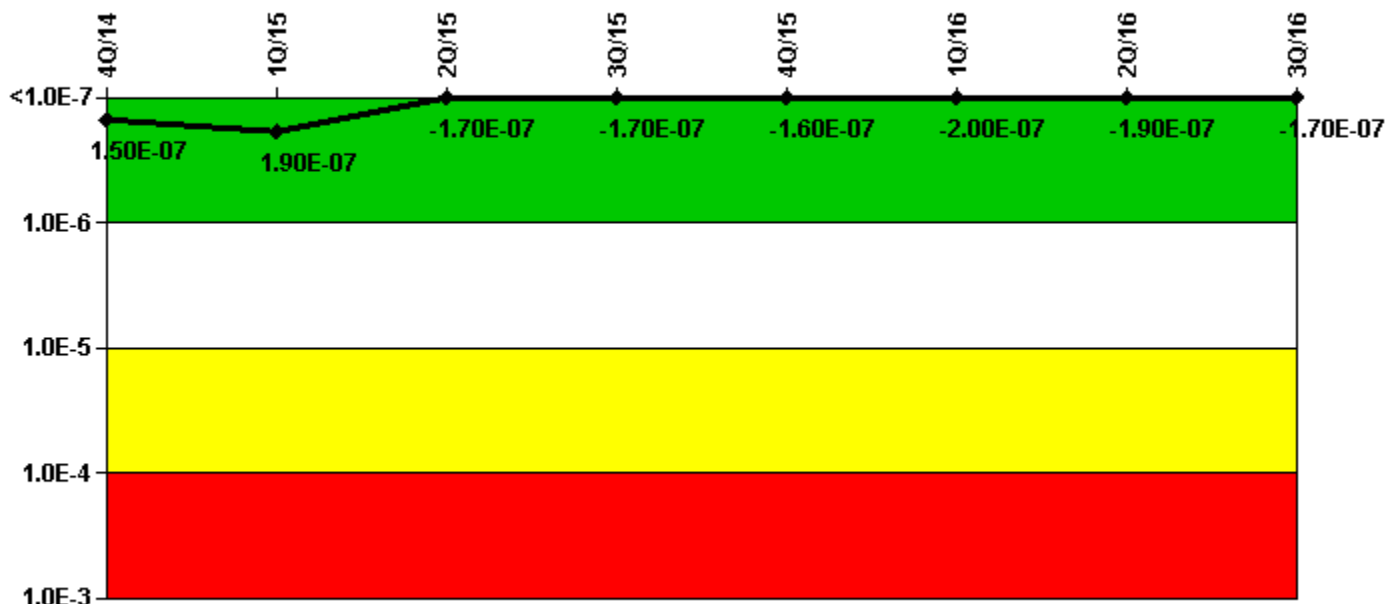
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI ( $\Delta$ CDF)	2.16E-08	1.80E-08	3.12E-08	3.69E-08	1.36E-07	1.33E-07	1.36E-07	1.35E-07
URI ( $\Delta$ CDF)	-7.83E-08	-7.75E-08	-1.03E-07	-7.84E-08	-8.09E-08	-7.69E-08	-7.59E-08	-7.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.70E-08	-6.00E-08	-7.20E-08	-4.10E-08	5.50E-08	5.70E-08	6.00E-08	6.40E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



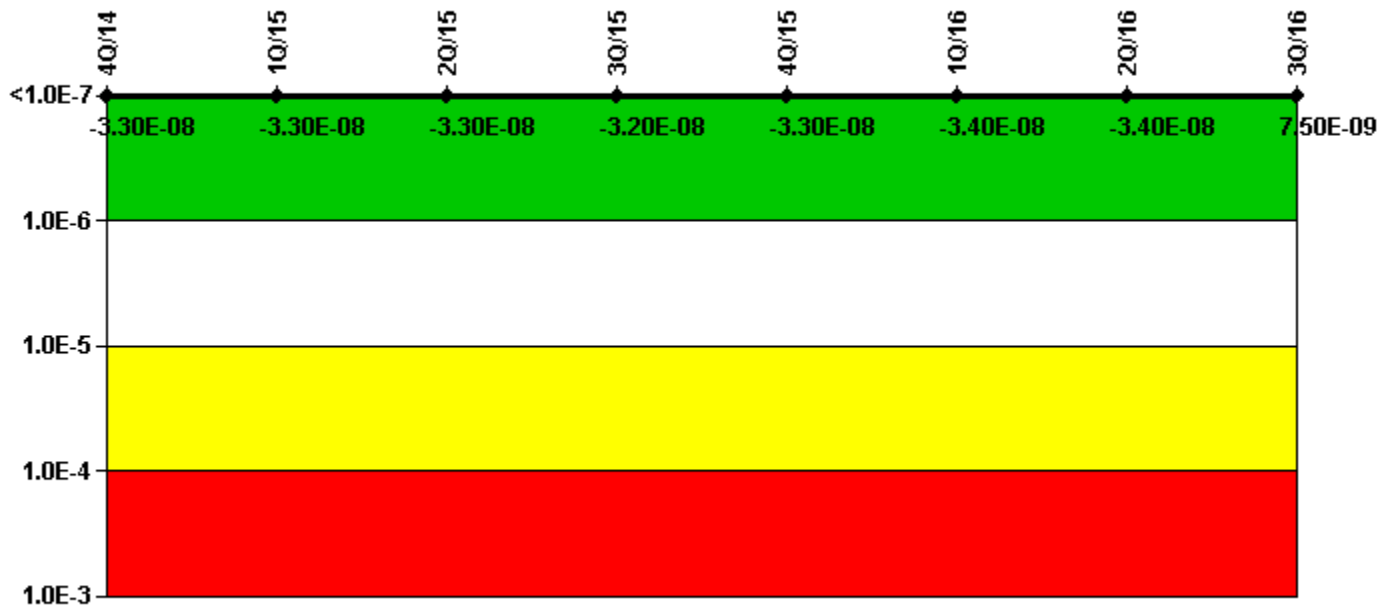
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (ΔCDF)	2.43E-08	5.30E-08	2.80E-08	2.80E-08	2.73E-08	-1.47E-08	-8.76E-09	5.45E-10
URI (ΔCDF)	1.28E-07	1.35E-07	-1.99E-07	-1.96E-07	-1.90E-07	-1.85E-07	-1.79E-07	-1.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.50E-07	1.90E-07	-1.70E-07	-1.70E-07	-1.60E-07	-2.00E-07	-1.90E-07	-1.70E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



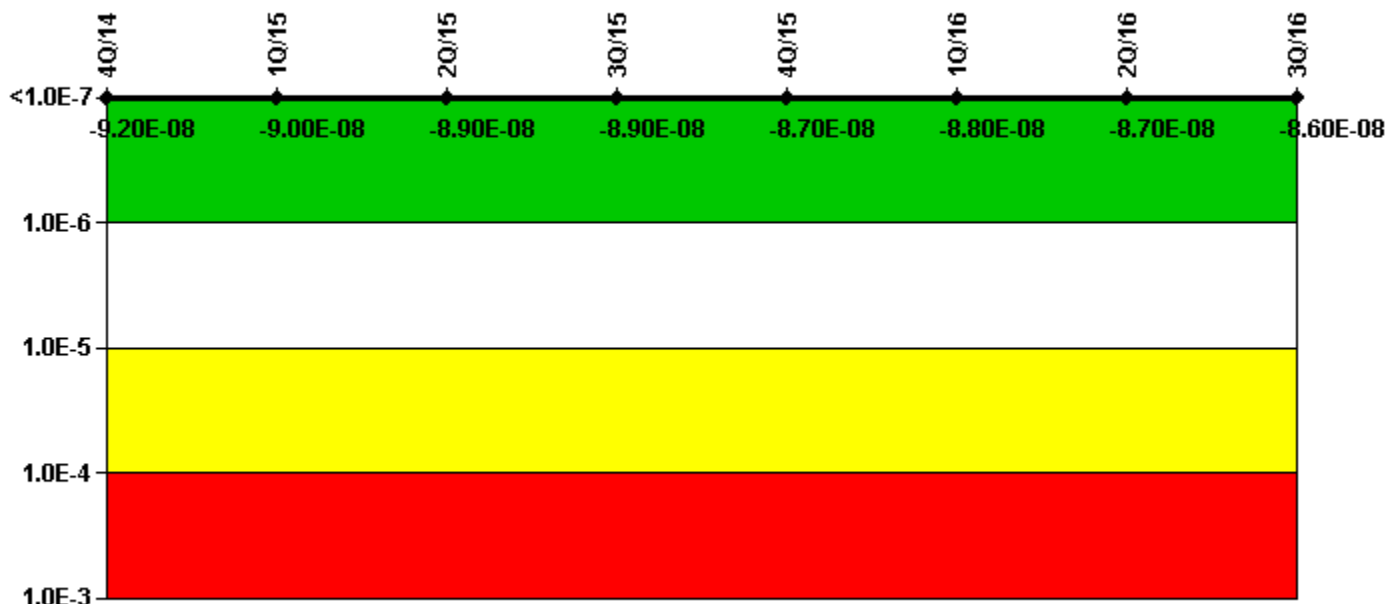
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI ( $\Delta$ CDF)	-6.21E-09	-7.80E-09	-8.56E-09	-7.32E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.67E-08	-2.56E-08	-2.41E-08	-2.44E-08	-2.42E-08	-2.57E-08	-2.55E-08	1.61E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.30E-08	-3.30E-08	-3.30E-08	-3.20E-08	-3.30E-08	-3.40E-08	-3.40E-08	7.50E-09

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



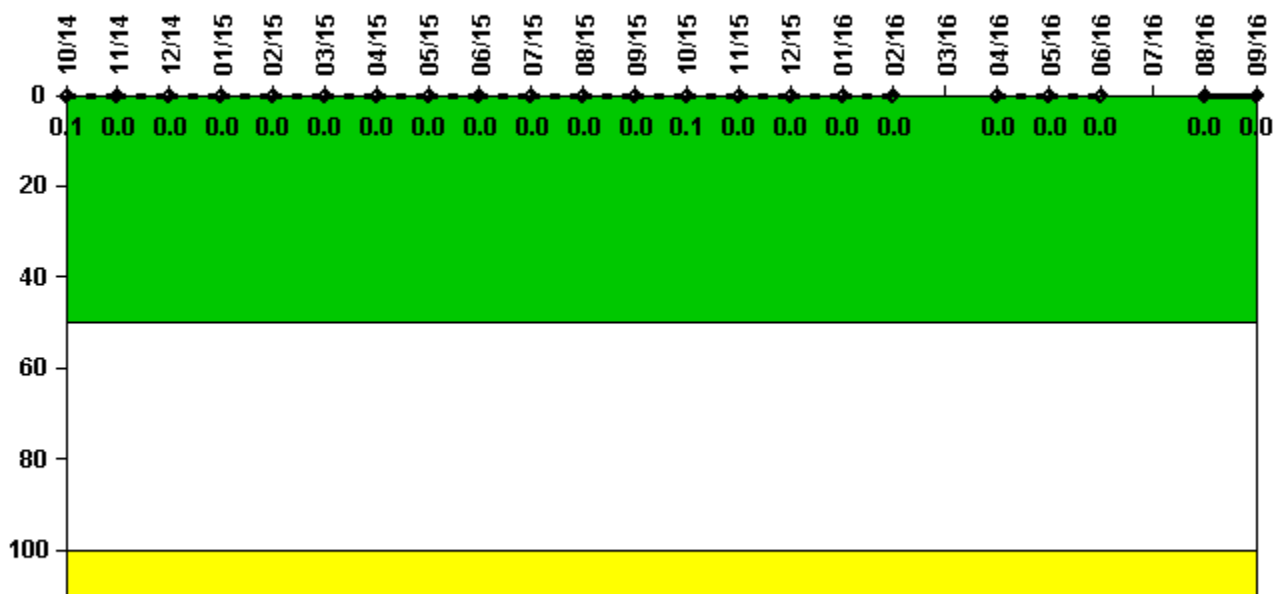
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-9.01E-08	-8.87E-08	-8.77E-08	-8.70E-08	-8.54E-08	-8.68E-08	-8.54E-08	-8.47E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-08	-9.00E-08	-8.90E-08	-8.90E-08	-8.70E-08	-8.80E-08	-8.70E-08	-8.60E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000107	0.000063	0.000038	0.000021	0.000008	0.000093	0.000036	0.000037	0.000039	0.000063	0.000079	0.000092
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	0.1	0	0	0	0	0	0	0	0	0	0	0

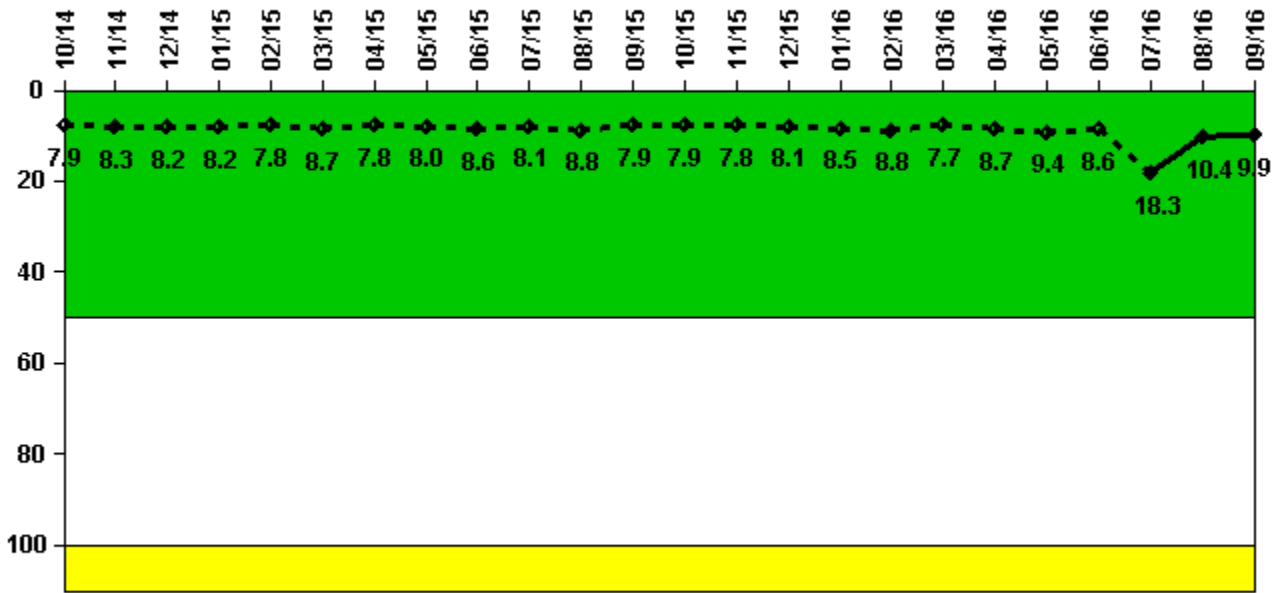
  

Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.000116	0.000033	0.000053	0.000069	0.000053	N/A	0.000013	0.000094	0.000005	N/A	0.000048	0.000020
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0	0	0	0	N/A	0	0	0	N/A	0	0

Licensee Comments:

3/16: For March 2016 the unit did not obtain a stable state power condition

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

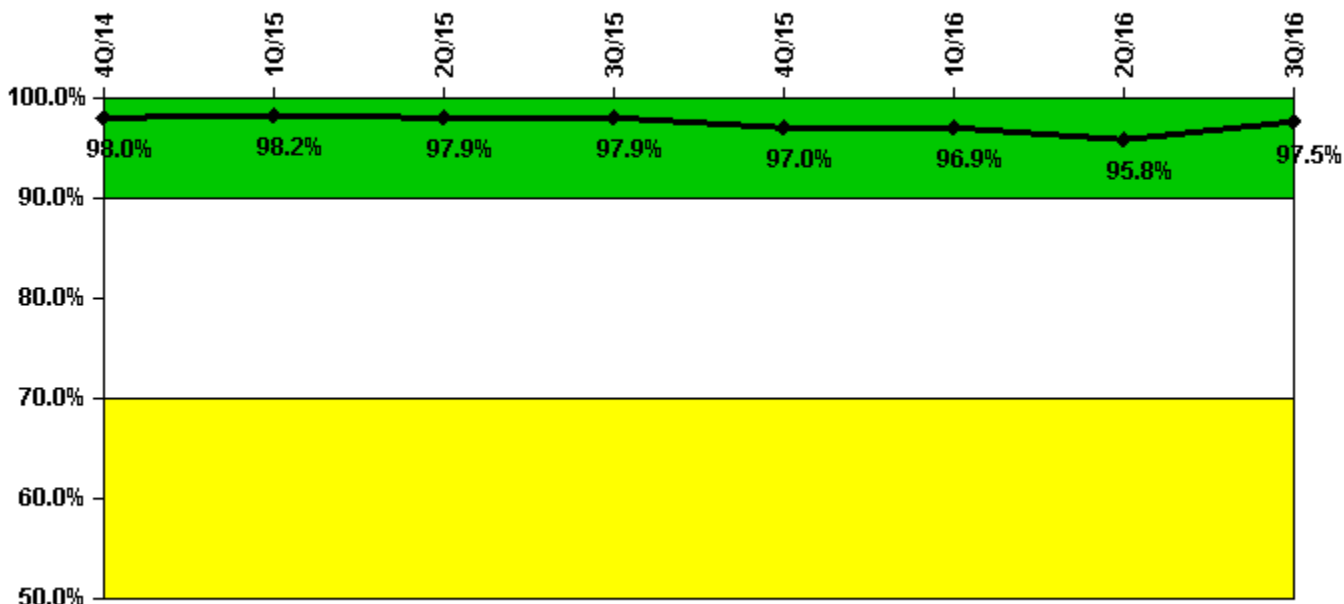
#### Notes

Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	2.370	2.480	2.450	2.460	2.330	2.600	2.350	2.400	2.580	2.440	2.630	2.370
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.9	8.3	8.2	8.2	7.8	8.7	7.8	8.0	8.6	8.1	8.8	7.9
Reactor Coolant System Leakage	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	2.370	2.350	2.430	2.540	2.630	2.300	2.600	2.810	2.580	5.500	3.120	2.980
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	7.9	7.8	8.1	8.5	8.8	7.7	8.7	9.4	8.6	18.3	10.4	9.9

Licensee Comments: none



### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

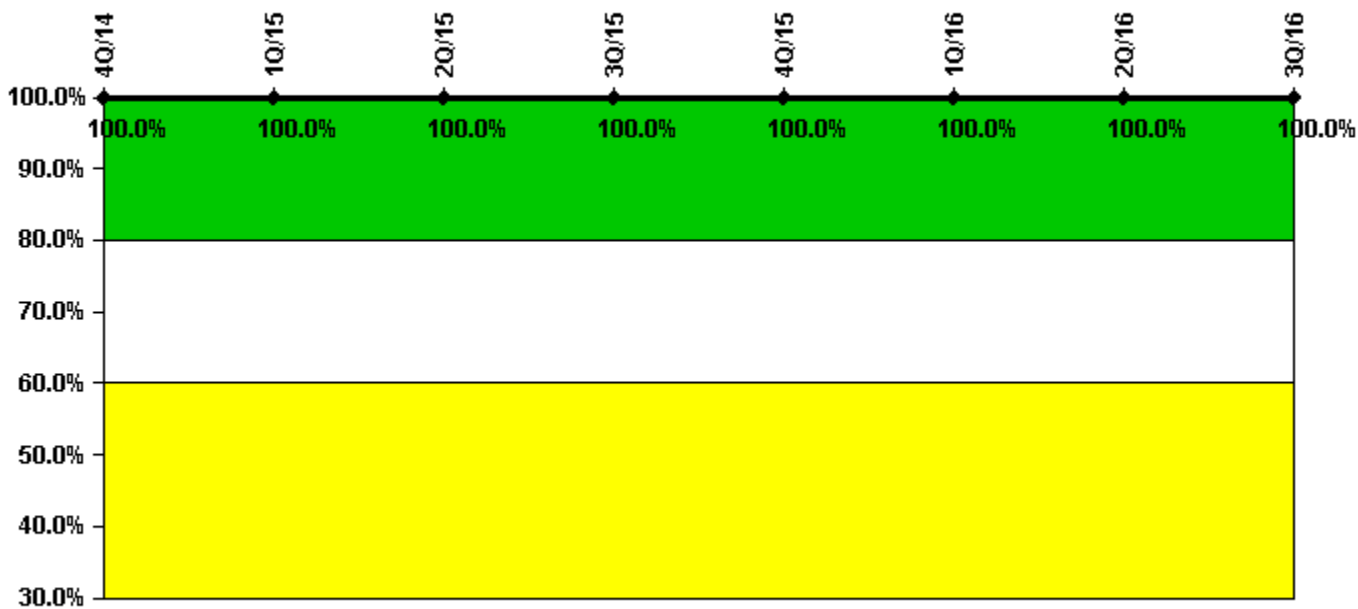
#### Notes

Drill/Exercise Performance	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful opportunities	50.0	25.0	31.0	17.0	51.0	0	29.0	143.0
Total opportunities	50.0	26.0	33.0	17.0	53.0	0	32.0	144.0
Indicator value	98.0%	98.2%	97.9%	97.9%	97.0%	96.9%	95.8%	97.5%

Licensee Comments:

1Q/15: Performed data update for the data reported in January 2015 (RAM 7-3-15)

### ERO Drill Participation



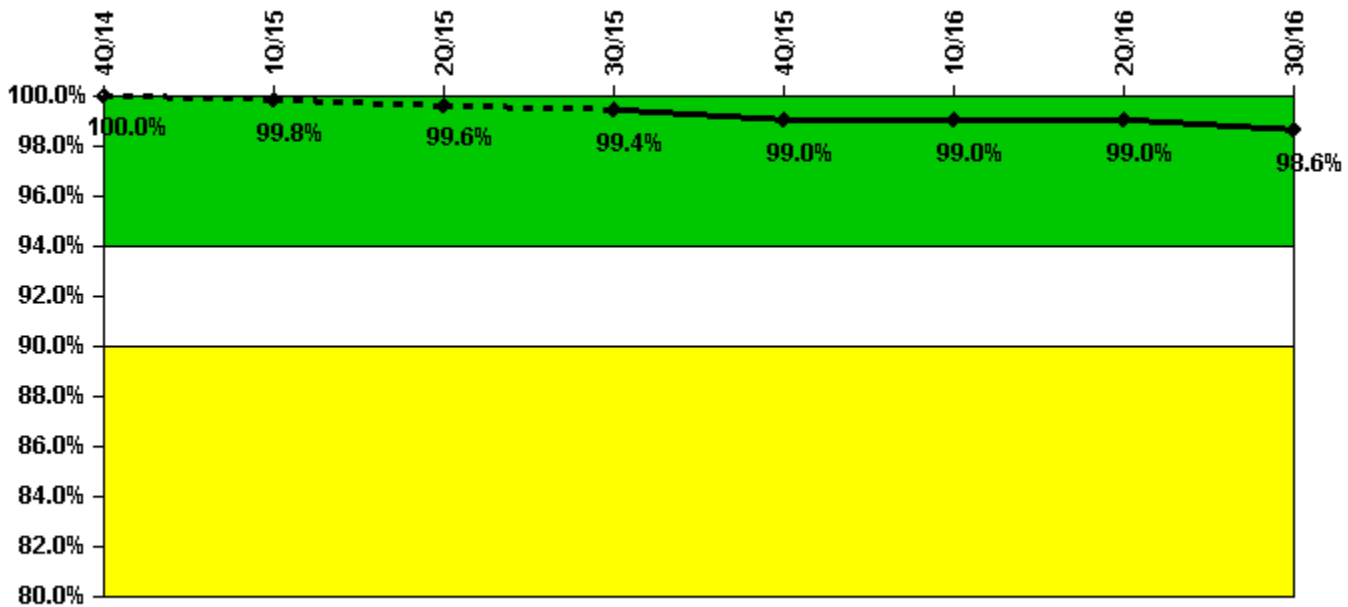
Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Participating Key personnel	64.0	62.0	65.0	64.0	68.0	64.0	67.0	44.0
Total Key personnel	64.0	62.0	65.0	64.0	68.0	64.0	67.0	44.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



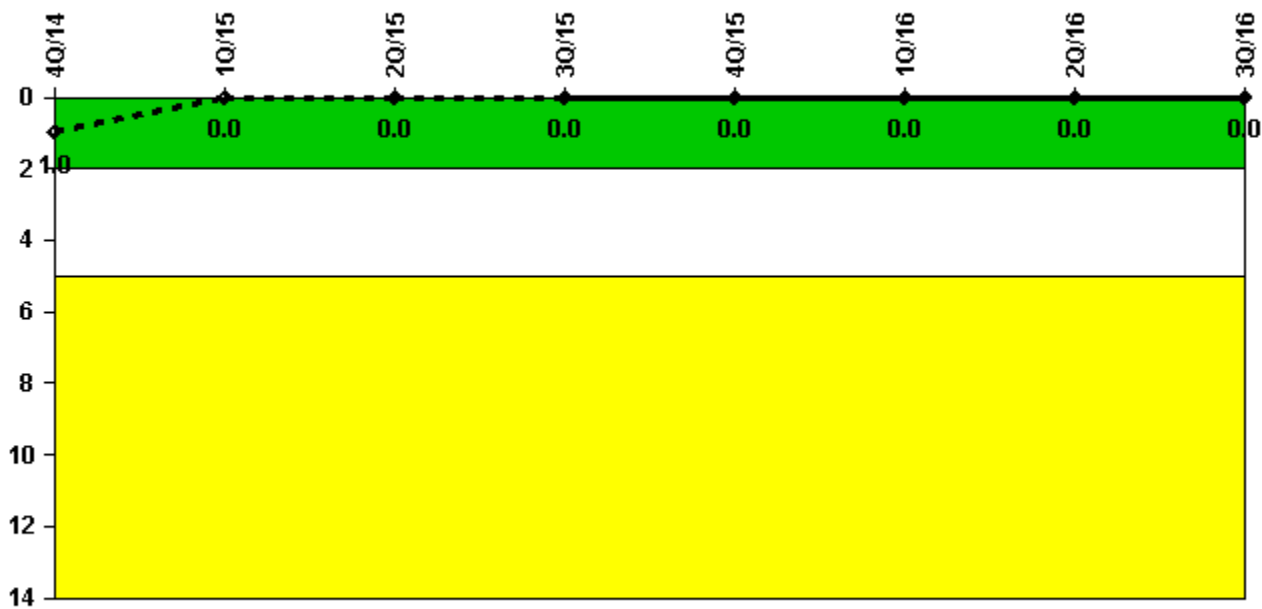
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful siren-tests	129	128	126	126	127	127	128	126
Total sirens-tests	129	129	127	127	129	128	129	129
Indicator value	100.0%	99.8%	99.6%	99.4%	99.0%	99.0%	99.0%	98.6%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



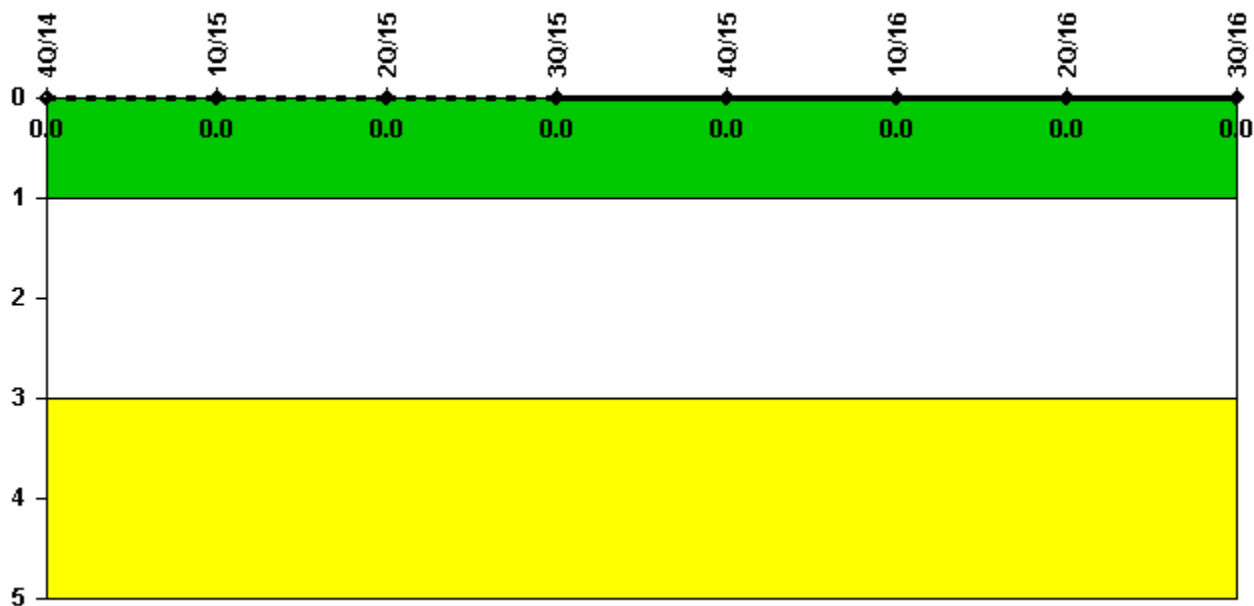
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
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>1</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	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
RETS/ODCM 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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: October 23, 2016*

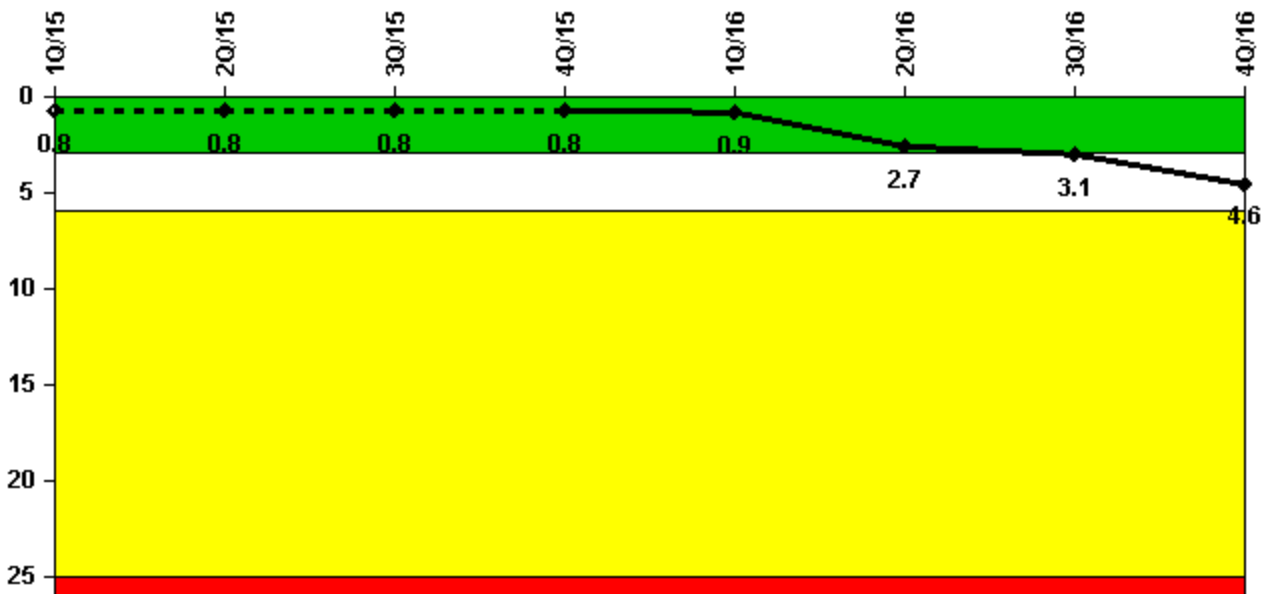
# Grand Gulf 1

## 4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



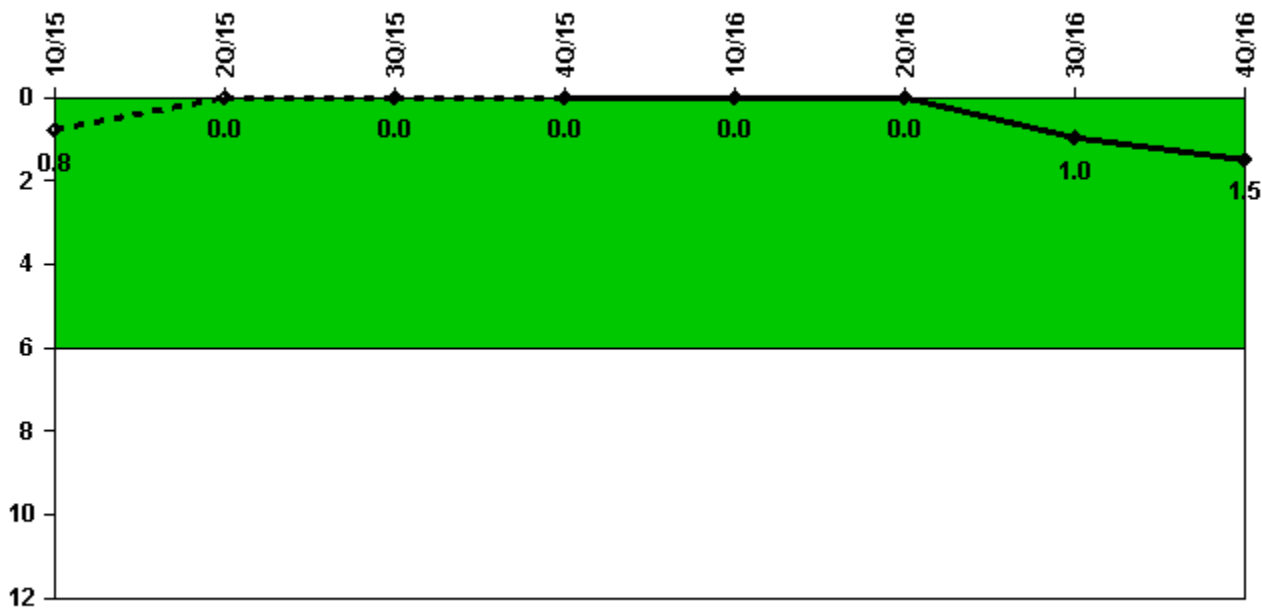
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	1.0	0	0	0	1.0	2.0	0	0
Critical hours	2005.0	2184.0	2208.0	2209.0	1315.9	2010.2	1276.3	0
<b>Indicator value</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>2.7</b>	<b>3.1</b>	<b>4.6</b>

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2005.0	2184.0	2208.0	2209.0	1315.9	2010.2	1276.3	0
<b>Indicator value</b>	<b>0.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>1.5</b>

Licensee Comments:

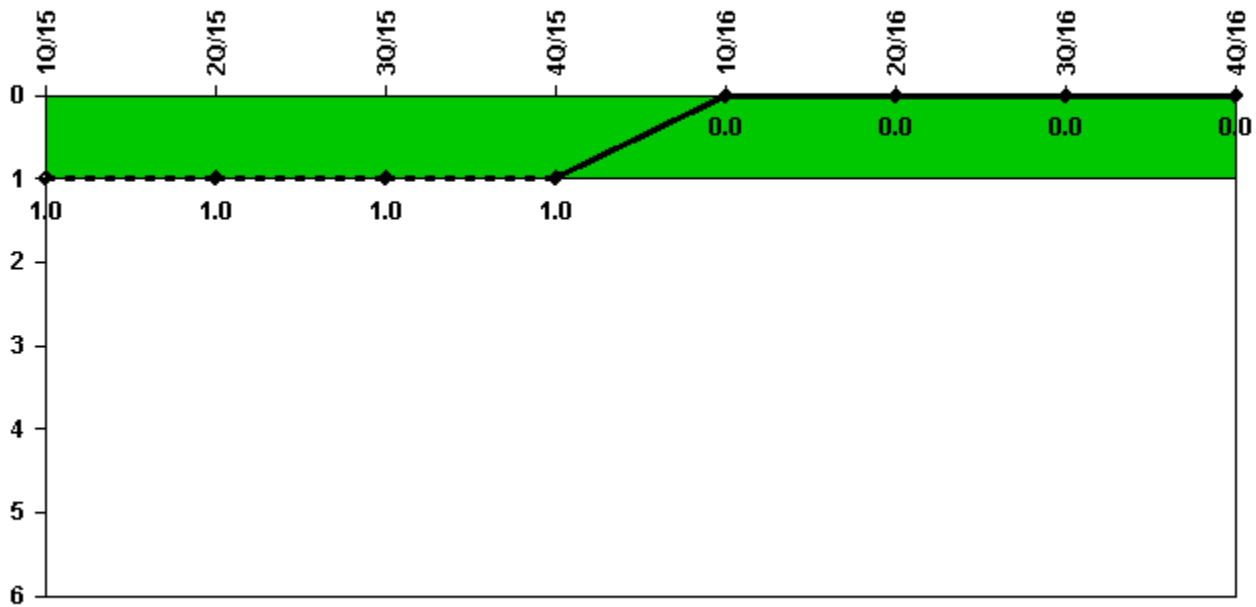
4Q/16: Entergy submitted an FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.

3Q/16: Entergy will submit a FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.

1Q/15: Grand Gulf has added one unplanned power change to 2Q2014. This event was incorrectly counted due to human error and has been added to the corrective action program.



### Unplanned Scrams with Complications



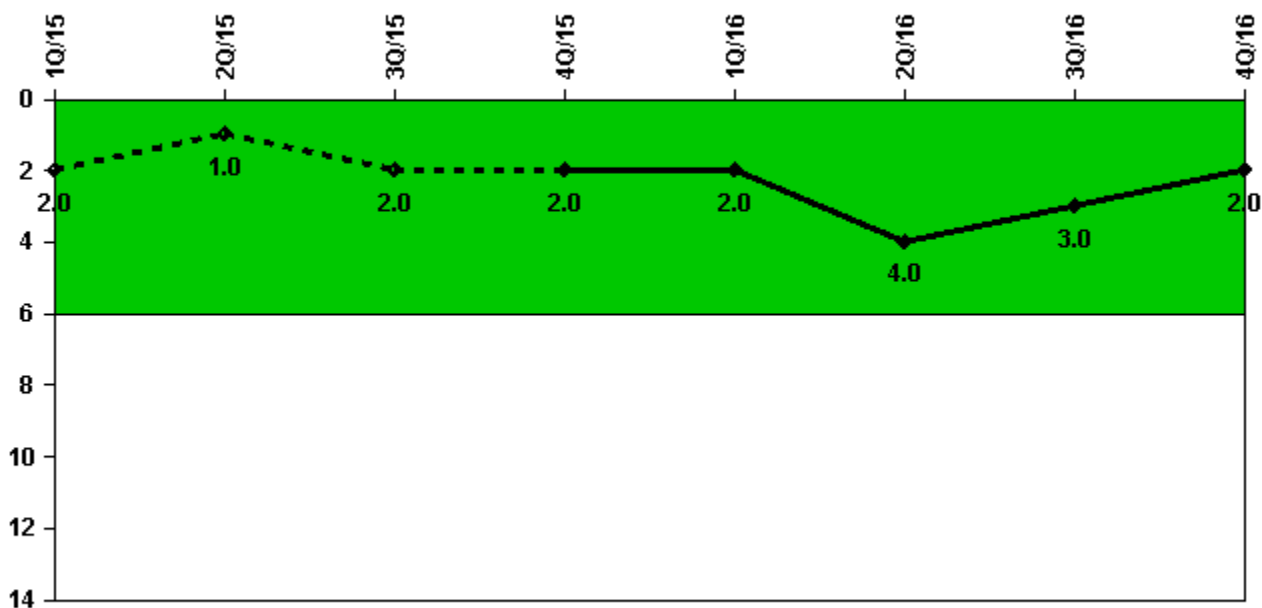
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Scrams with complications	1.0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	0	1	1	0	2	0	0
<b>Indicator value</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>2</b>

Licensee Comments:

3Q/16: Changed comments in 4Q15 PI comments to correct typographical error

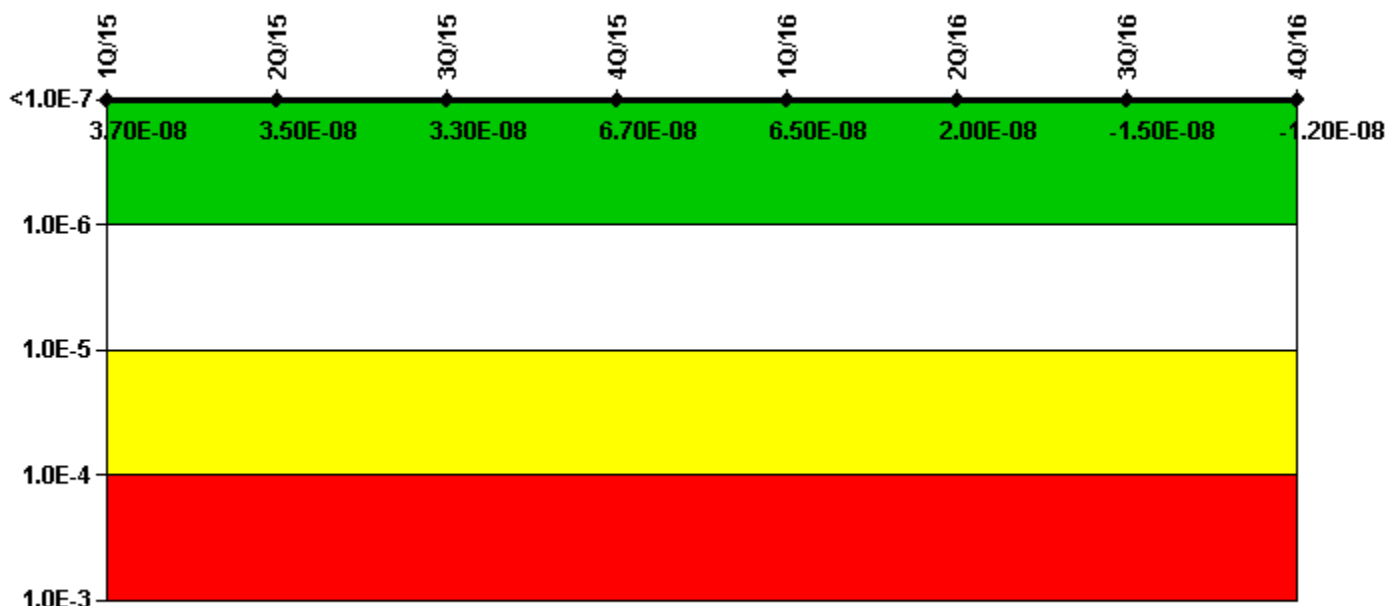
2Q/16: Reference LERs 2016-001-00 & 2016-003-00

4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q15 and one in 4Q15. Correction of typographical errors (3Q15 & 4Q15)

4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q14 and one in 4Q14

3Q/15: LER 2015-002-00 Documents one safety system functional failure in August 2015.

### Mitigating Systems Performance Index, Emergency AC Power System



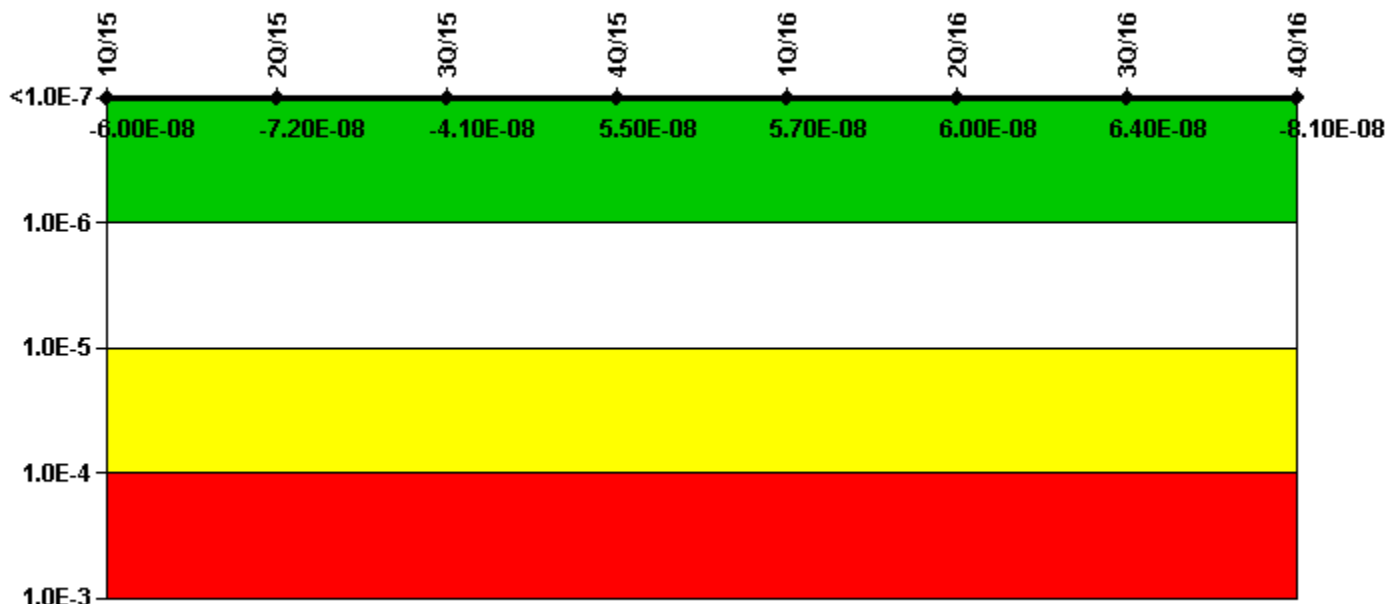
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	1.61E-08	1.41E-08	1.33E-08	1.31E-08	1.44E-08	1.57E-09	-4.28E-10	2.24E-09
URI ( $\Delta$ CDF)	2.13E-08	2.07E-08	1.94E-08	5.39E-08	5.01E-08	1.87E-08	-1.42E-08	-1.39E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.70E-08	3.50E-08	3.30E-08	6.70E-08	6.50E-08	2.00E-08	-1.50E-08	-1.20E-08

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



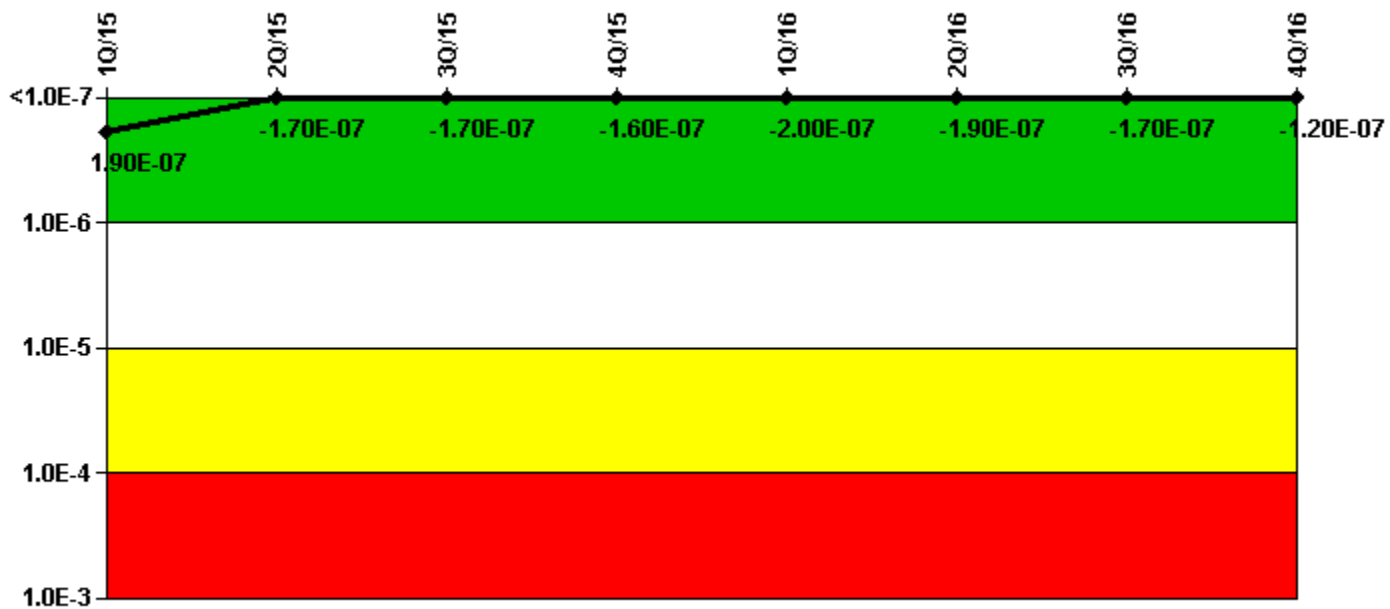
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	1.80E-08	3.12E-08	3.69E-08	1.36E-07	1.33E-07	1.36E-07	1.35E-07	-1.30E-08
URI ( $\Delta$ CDF)	-7.75E-08	-1.03E-07	-7.84E-08	-8.09E-08	-7.69E-08	-7.59E-08	-7.04E-08	-6.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.00E-08	-7.20E-08	-4.10E-08	5.50E-08	5.70E-08	6.00E-08	6.40E-08	-8.10E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



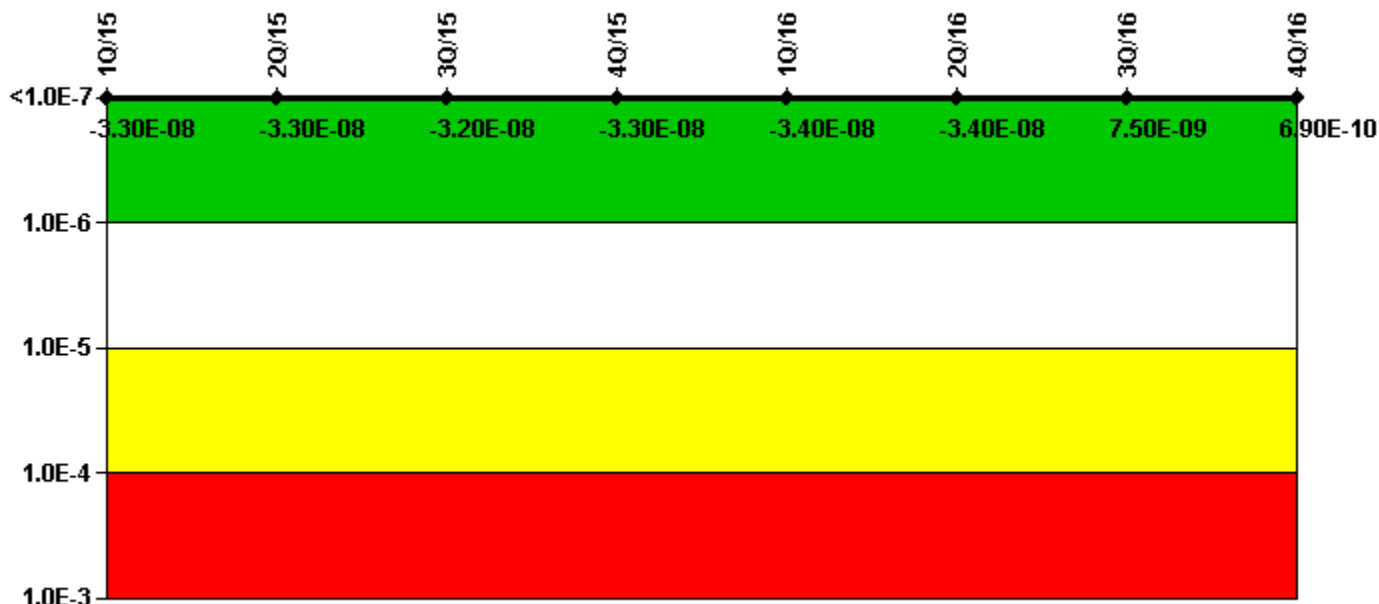
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	5.30E-08	2.80E-08	2.80E-08	2.73E-08	-1.47E-08	-8.76E-09	5.45E-10	3.07E-08
URI ( $\Delta$ CDF)	1.35E-07	-1.99E-07	-1.96E-07	-1.90E-07	-1.85E-07	-1.79E-07	-1.69E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.90E-07	-1.70E-07	-1.70E-07	-1.60E-07	-2.00E-07	-1.90E-07	-1.70E-07	-1.20E-07

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



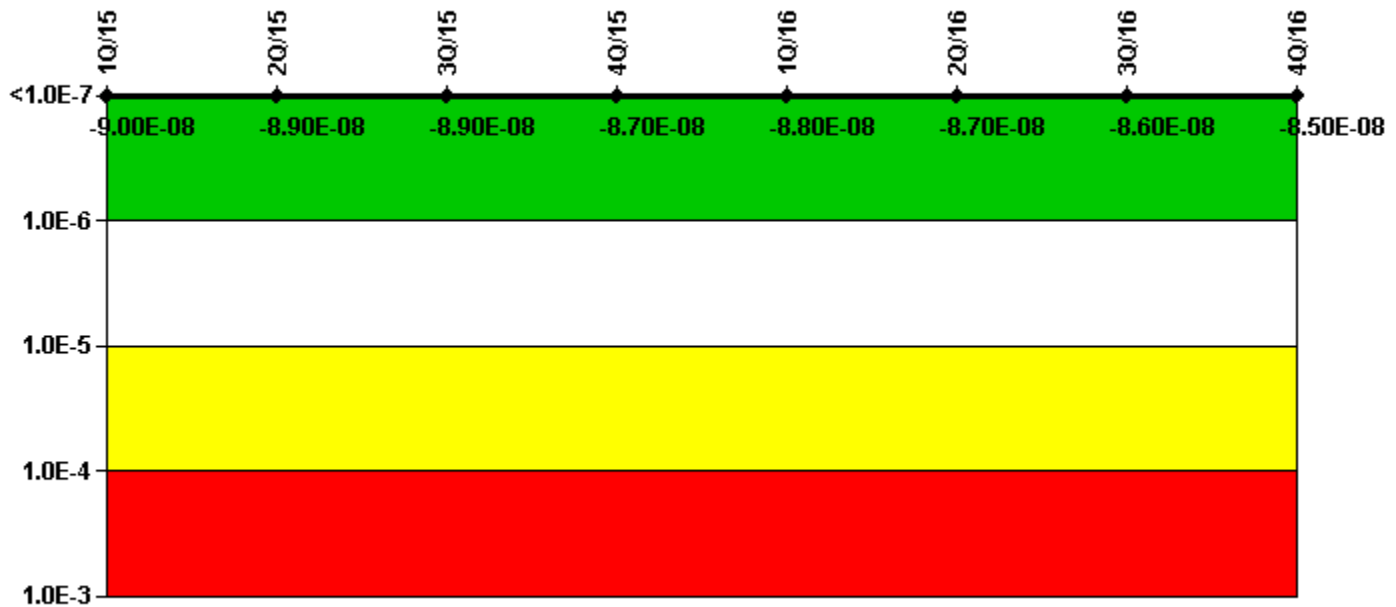
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	-7.80E-09	-8.56E-09	-7.32E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.56E-08	-2.41E-08	-2.44E-08	-2.42E-08	-2.57E-08	-2.55E-08	1.61E-08	9.25E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.30E-08	-3.30E-08	-3.20E-08	-3.30E-08	-3.40E-08	-3.40E-08	7.50E-09	6.90E-10

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



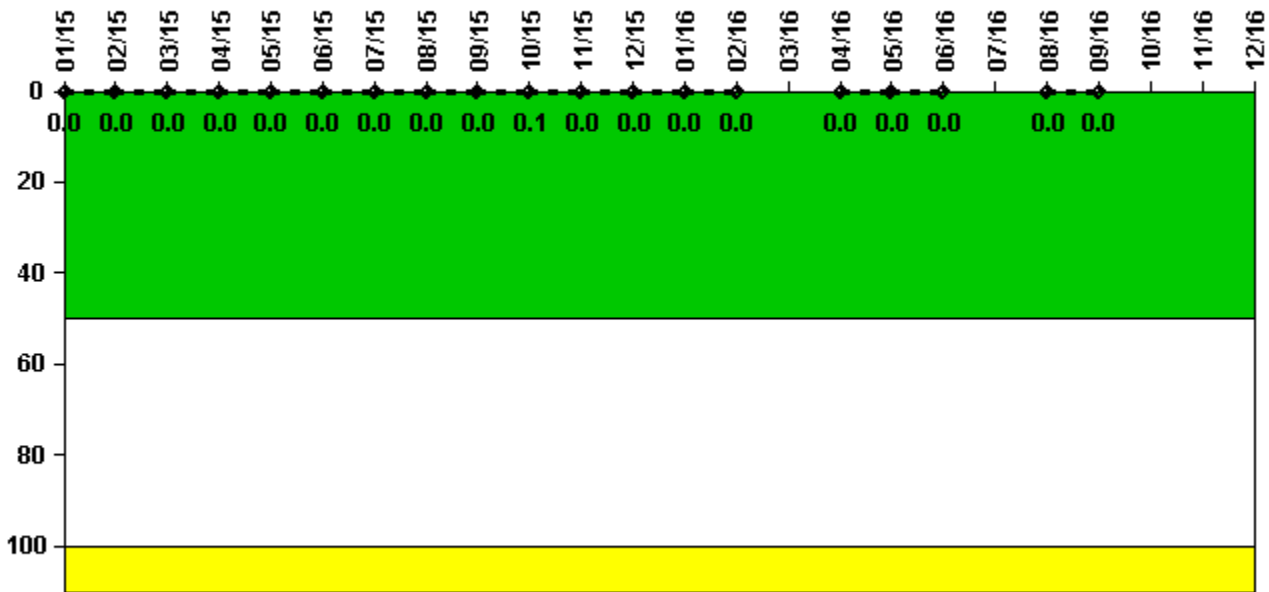
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-8.87E-08	-8.77E-08	-8.70E-08	-8.54E-08	-8.68E-08	-8.54E-08	-8.47E-08	-8.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.00E-08	-8.90E-08	-8.90E-08	-8.70E-08	-8.80E-08	-8.70E-08	-8.60E-08	-8.50E-08

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000021	0.000008	0.000093	0.000036	0.000037	0.000039	0.000063	0.000079	0.000092	0.000116	0.000033	0.000053
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	0.1	0	0

Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000069	0.000053	N/A	0.000013	0.000009	0.000005	N/A	0.000048	0.000020	N/A	N/A	N/A
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	N/A	0	0	0	N/A	0	0	N/A	N/A	N/A

#### Licensee Comments:

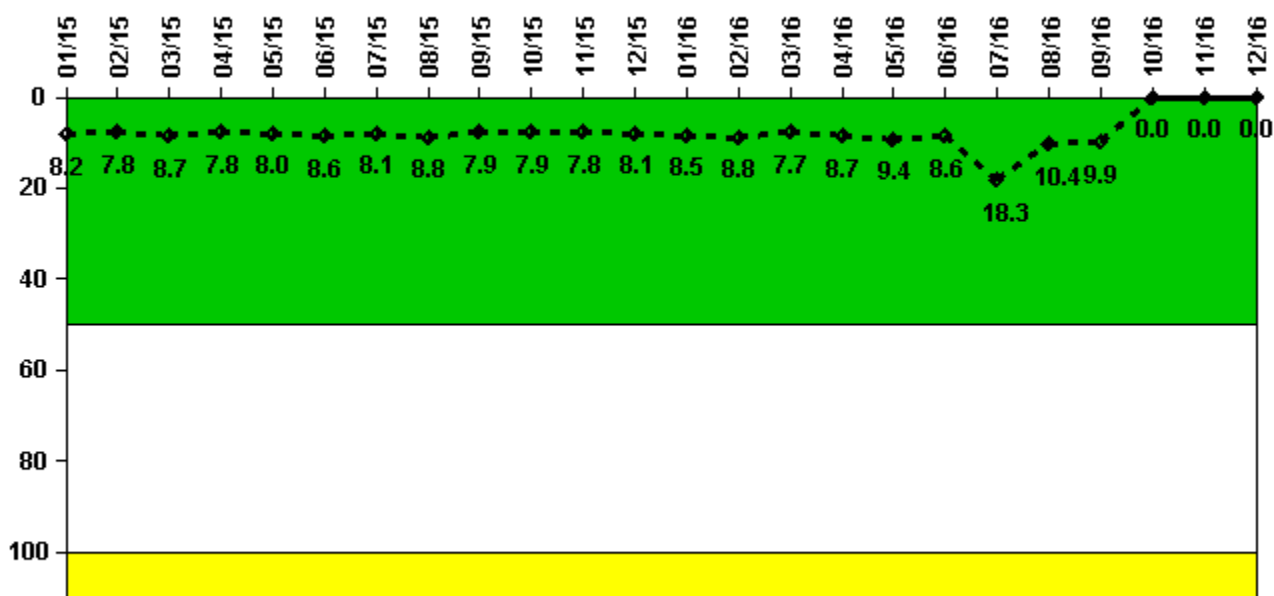
12/16: Corrected typographical error in May Data. Changed Maximum I-131 to 9.35E-6 from 9.35E-5. CR-GGN-2016-09779.

6/16: Corrected typographical error in may data. Changed Maximum I-131 to 9.35E-6 from 9.35E-5. CR-GGN-2016-09779



3/16: For March 2016 the unit did not obtain a stable state power condition

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

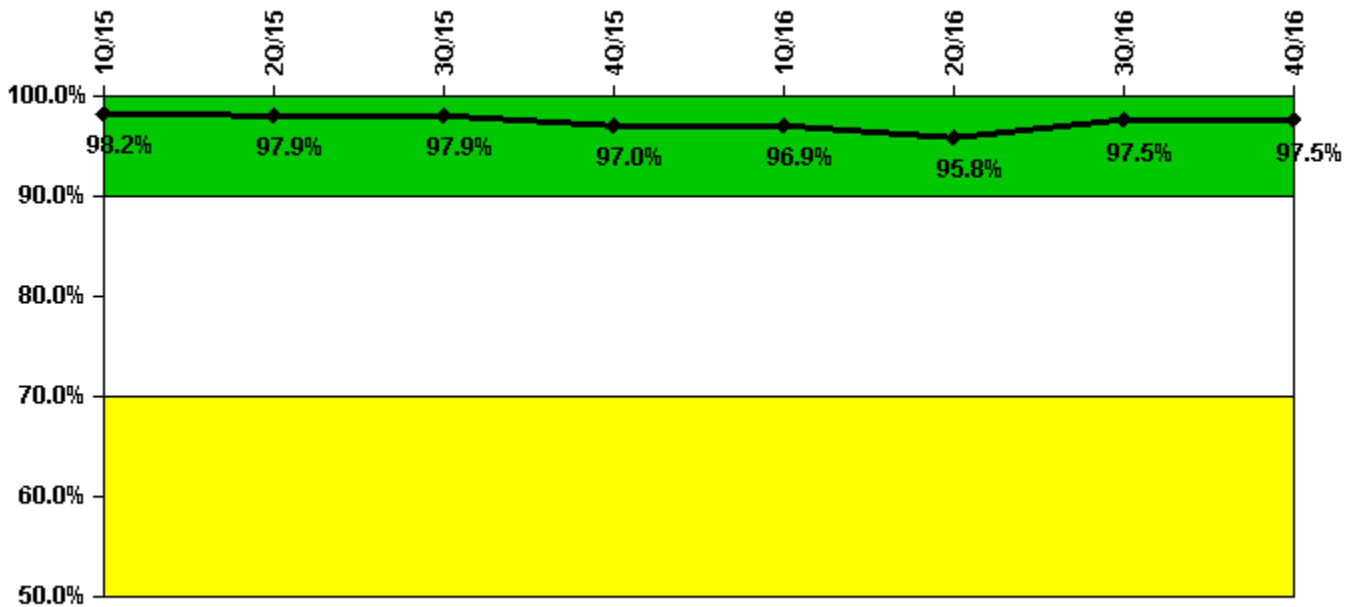
Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum leakage	2.460	2.330	2.600	2.350	2.400	2.580	2.440	2.630	2.370	2.370	2.350	2.430
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.2	7.8	8.7	7.8	8.0	8.6	8.1	8.8	7.9	7.9	7.8	8.1

Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	2.540	2.630	2.300	2.600	2.810	2.580	5.500	3.120	2.980	0	0	0
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Indicator value	8.5	8.8	7.7	8.7	9.4	8.6	18.3	10.4	9.9	0	0	0

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

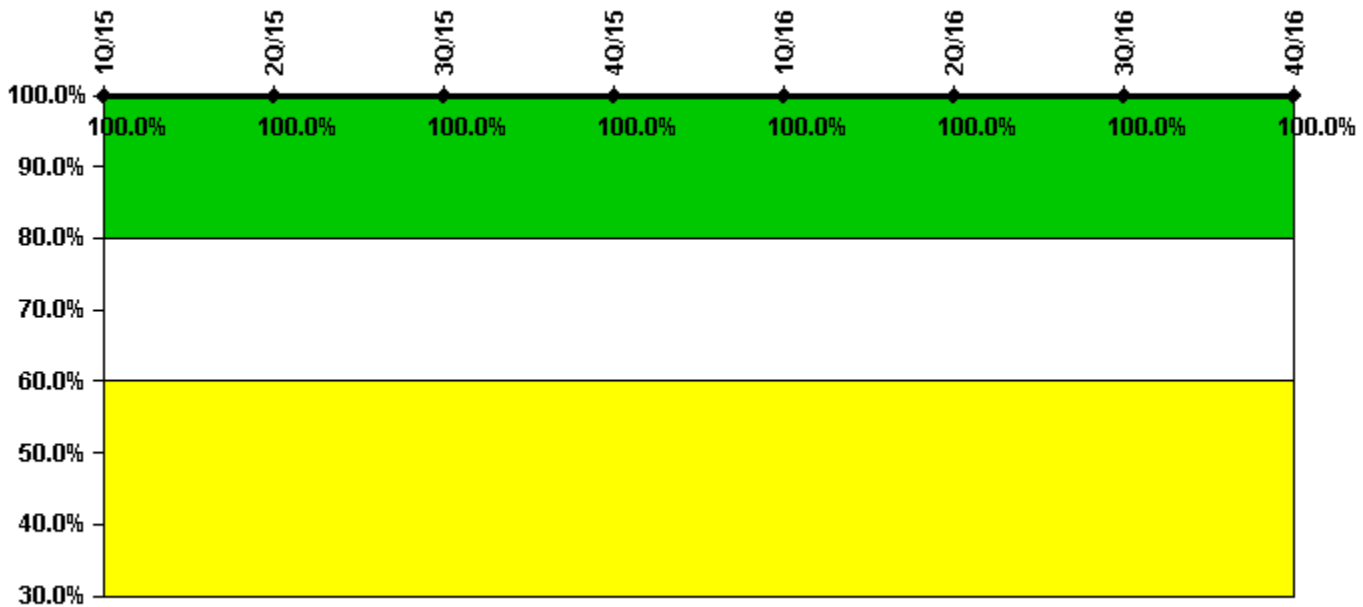
### Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	25.0	31.0	17.0	51.0	0	29.0	143.0	62.0
Total opportunities	26.0	33.0	17.0	53.0	0	32.0	144.0	62.0
Indicator value	98.2%	97.9%	97.9%	97.0%	96.9%	95.8%	97.5%	97.5%

Licensee Comments:

1Q/15: Performed data update for the data reported in January 2015 (RAM 7-3-15)

### ERO Drill Participation



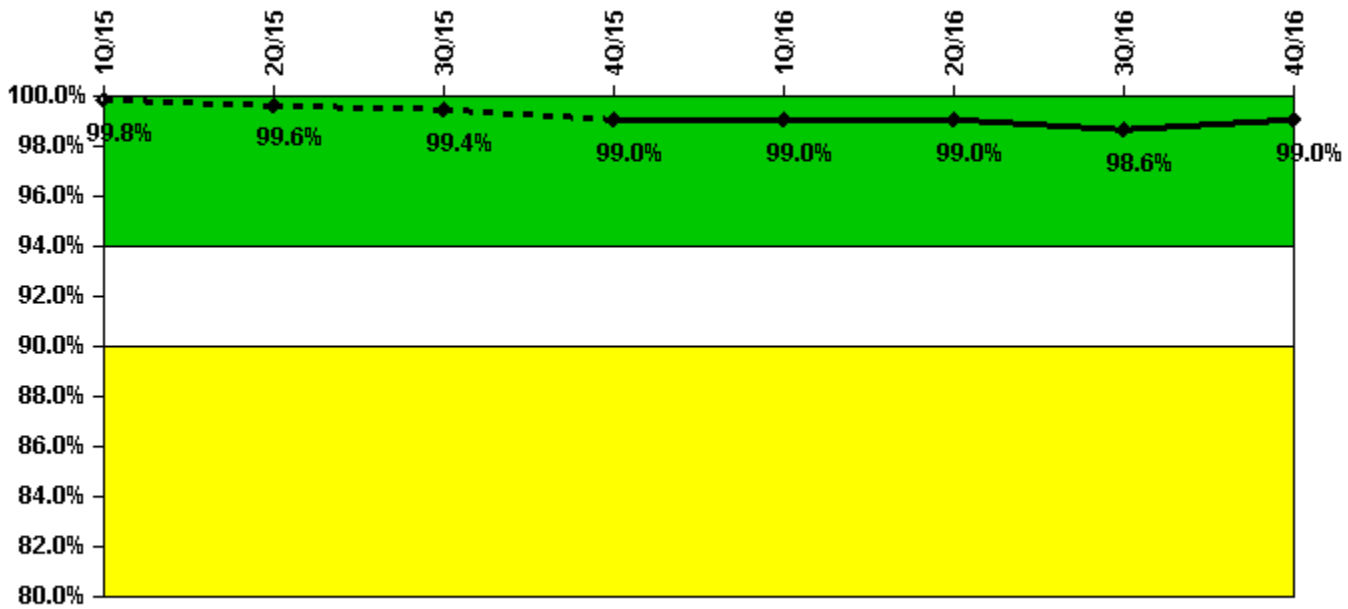
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	62.0	65.0	64.0	68.0	64.0	67.0	44.0	50.0
Total Key personnel	62.0	65.0	64.0	68.0	64.0	67.0	44.0	50.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



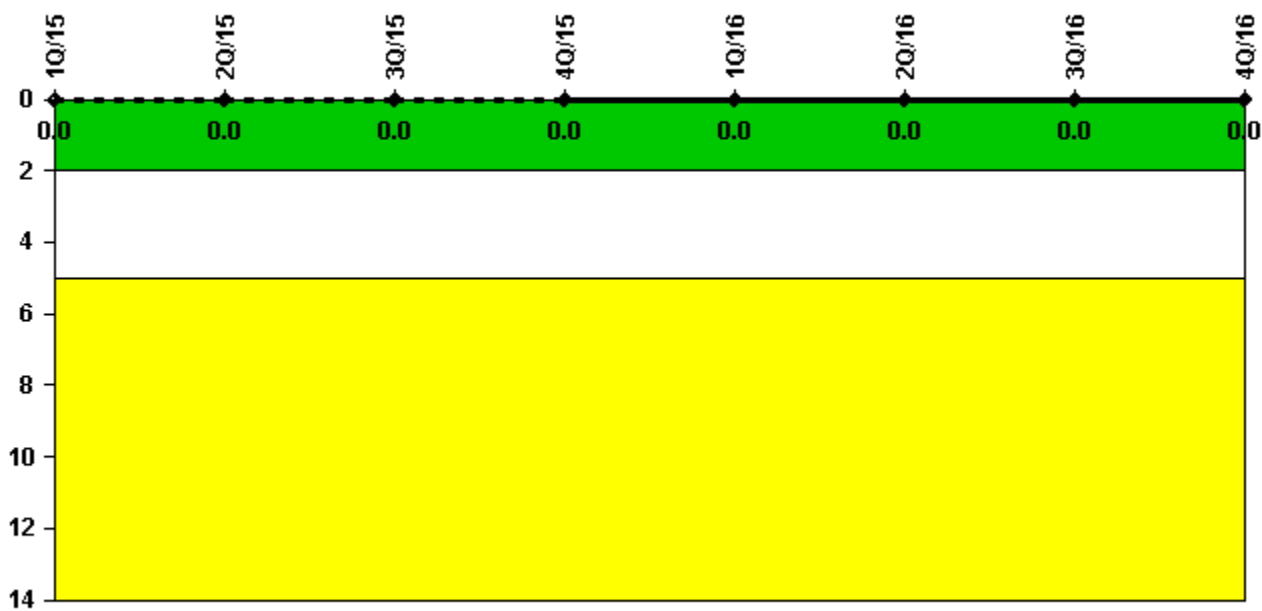
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	128	126	126	127	127	128	126	129
Total sirens-tests	129	127	127	129	128	129	129	129
Indicator value	99.8%	99.6%	99.4%	99.0%	99.0%	99.0%	98.6%	99.0%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



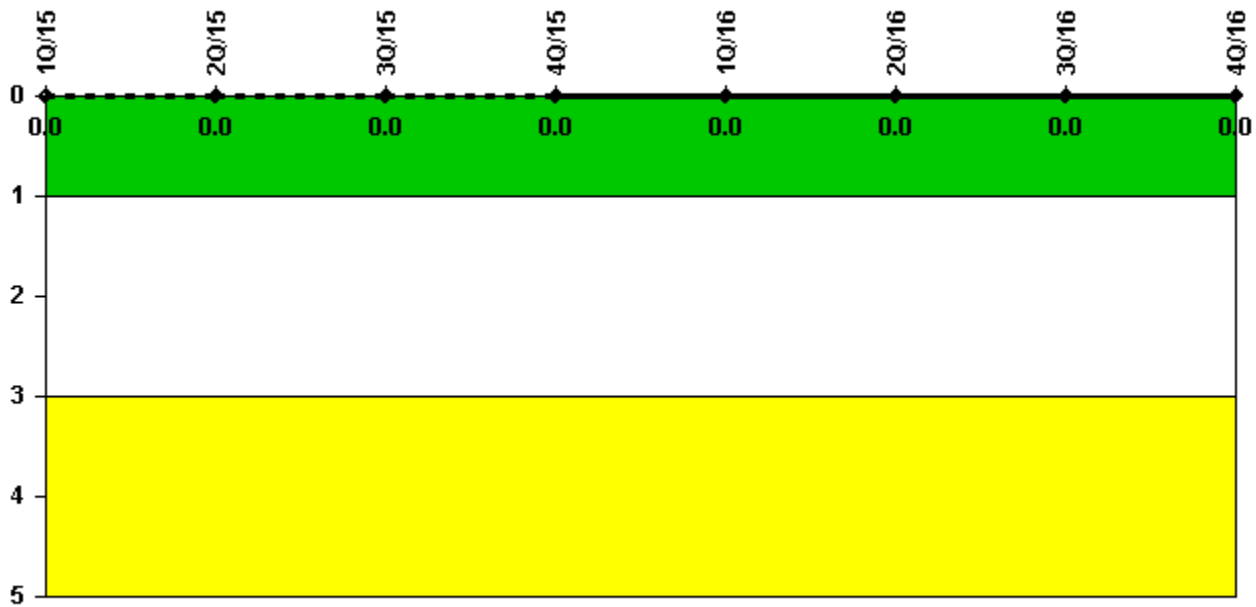
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
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	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

*Last Modified: January 24, 2017*



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries > Grand Gulf 1 > Quarterly Performance Indicators

## **Grand Gulf 1 – Quarterly Performance Indicators**

### **1Q/2017 Performance Indicators**

The solid trend line represents the current reporting period.

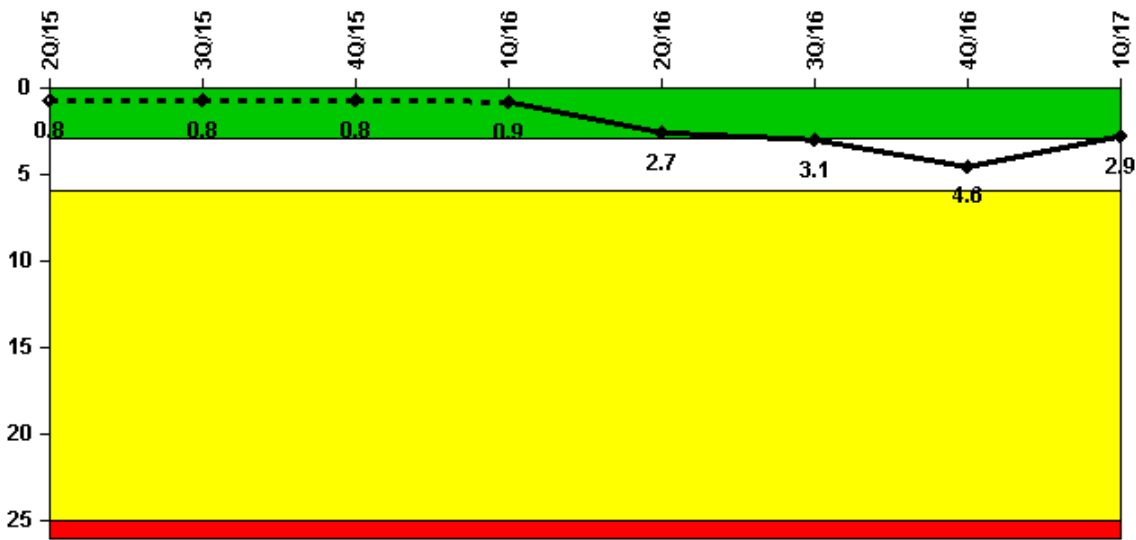
Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)



### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

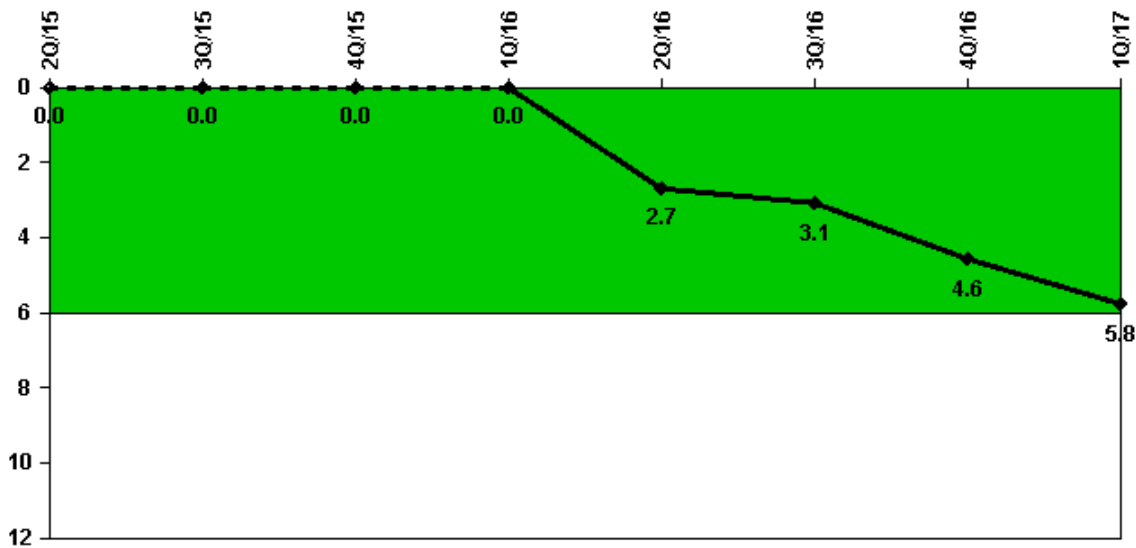
**Notes**

Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	0	0	1.0	2.0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1315.9	2010.2	1276.3	0	1516.3
<b>Indicator value</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>2.7</b>	<b>3.1</b>	<b>4.6</b>	<b>2.9</b>

▲ TOP

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	0	0	3.0	0	0	1.0
Critical hours	2184.0	2208.0	2209.0	1315.9	2010.2	1276.3	0	1516.3

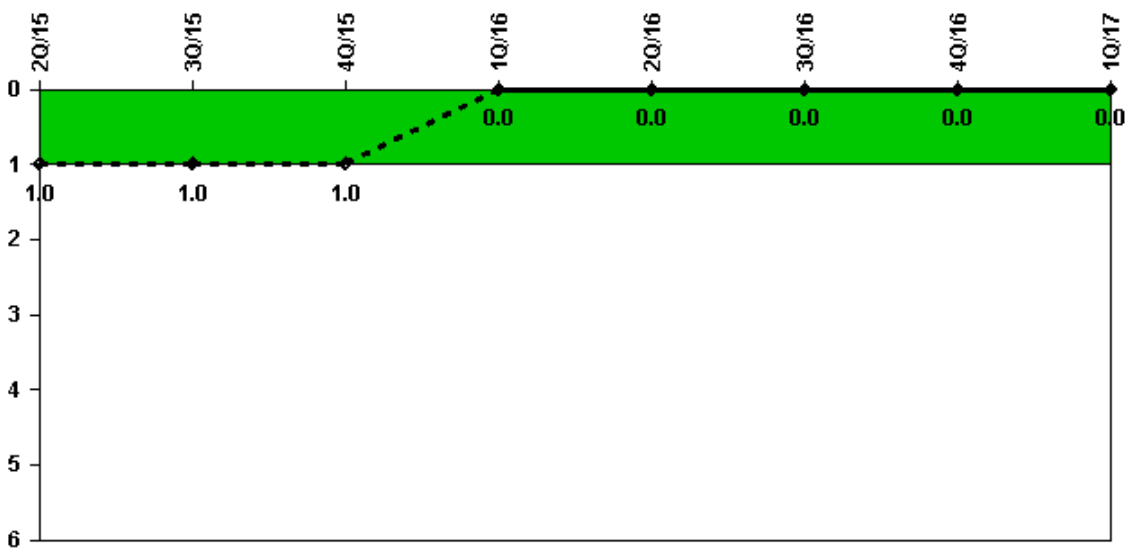
Indicator value	0	0	0	0	2.7	3.1	4.6	5.8
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TOP

#### Licensee Comments:

4Q/16: Entergy submitted an FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 3Q/16: Entergy will submit a FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 3Q/16: Entergy will submit a FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 2Q/16: Entered 3 power changes upon resolution of FAQ-17-02 for June 17, 2016 power oscillation event. Entered after FAQ resolution on 5/18/2017.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

#### Notes

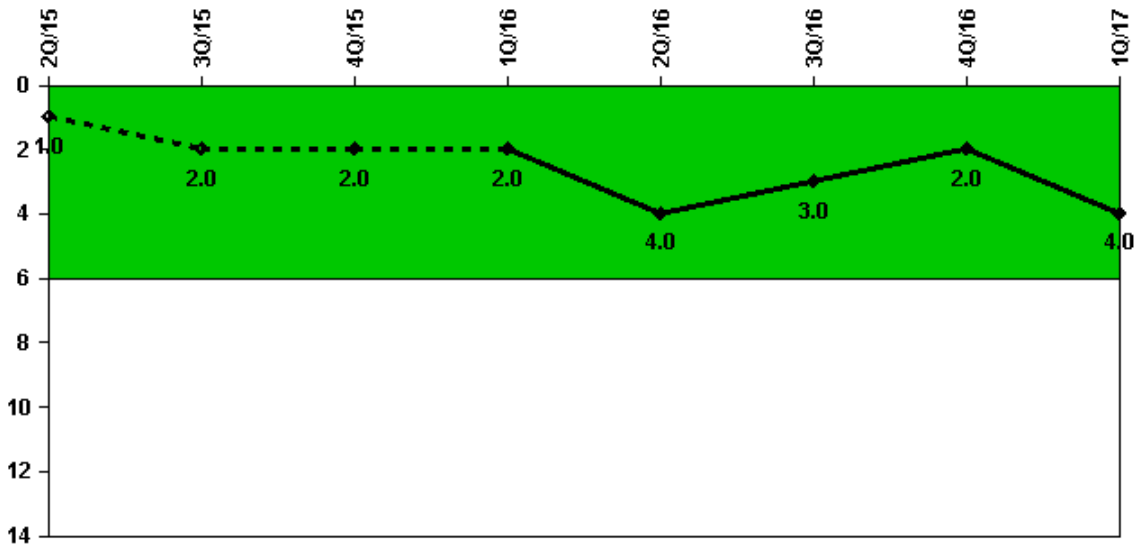
Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Scrams with complications	0	0	0	0	0	0	0	0

Indicator value 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0

▲ TOP

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR) 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

Safety System Functional Failures 0 1 1 0 2 0 0 2

Indicator value 1 2 2 2 4 3 2 4

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#### Licensee Comments:

1Q/17: LER 2016-009-00, OPRM Upscale Settings incorrectly set

3Q/16: Changed comments in 4Q15 PI comments to correct typographical error

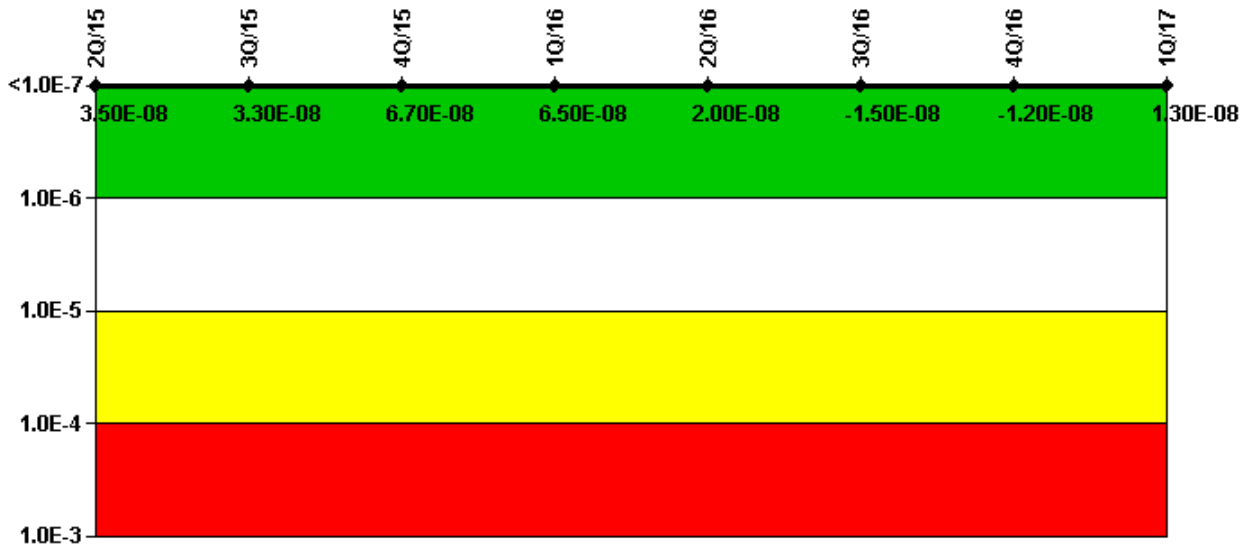
2Q/16: Reference LERs 2016-001-00 & 2016-003-00

4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q14 and one in 4Q14

4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q15 and one in 4Q15. Correction of typographical errors (3Q15 & 4Q15)

3Q/15: LER 2015-002-00 Documents one safety system functional failure in August 2015.

### Mitigating Systems Performance Index, Emergency AC Power System



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

**Notes**

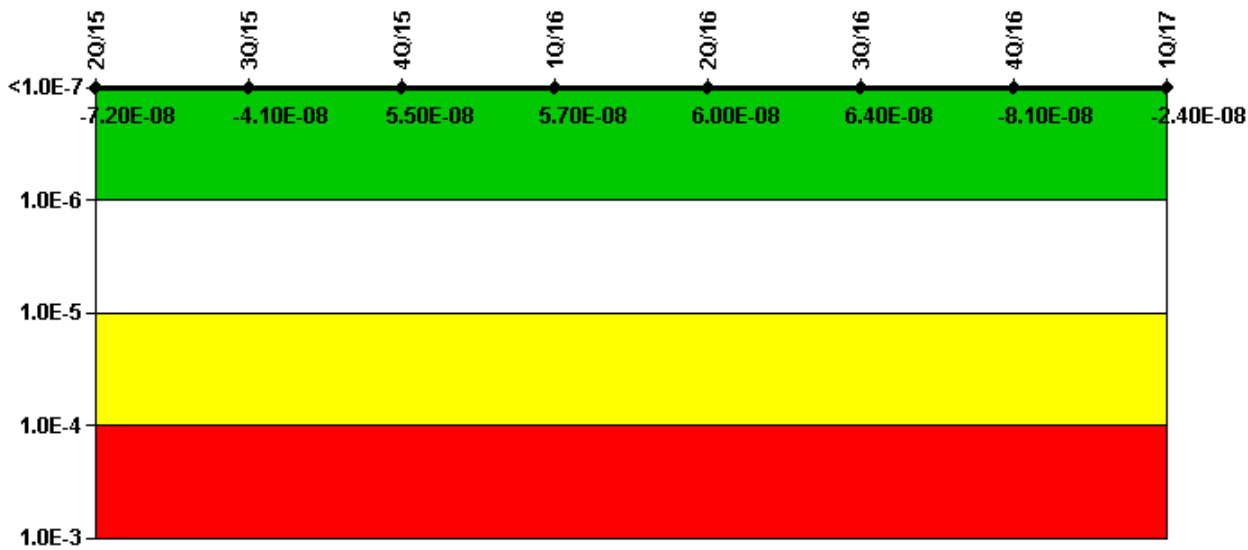
**Mitigating Systems Performance Index, Emergency AC Power System**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	1.41E-08	1.33E-08	1.31E-08	1.44E-08	1.57E-09	-4.28E-10	2.24E-09	2.55E-08
URI (ΔCDF)	2.07E-08	1.94E-08	5.39E-08	5.01E-08	1.87E-08	-1.42E-08	-1.39E-08	-1.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>3.50E-08</b>	<b>3.30E-08</b>	<b>6.70E-08</b>	<b>6.50E-08</b>	<b>2.00E-08</b>	<b>-1.50E-08</b>	<b>-1.20E-08</b>	<b>1.30E-08</b>

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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

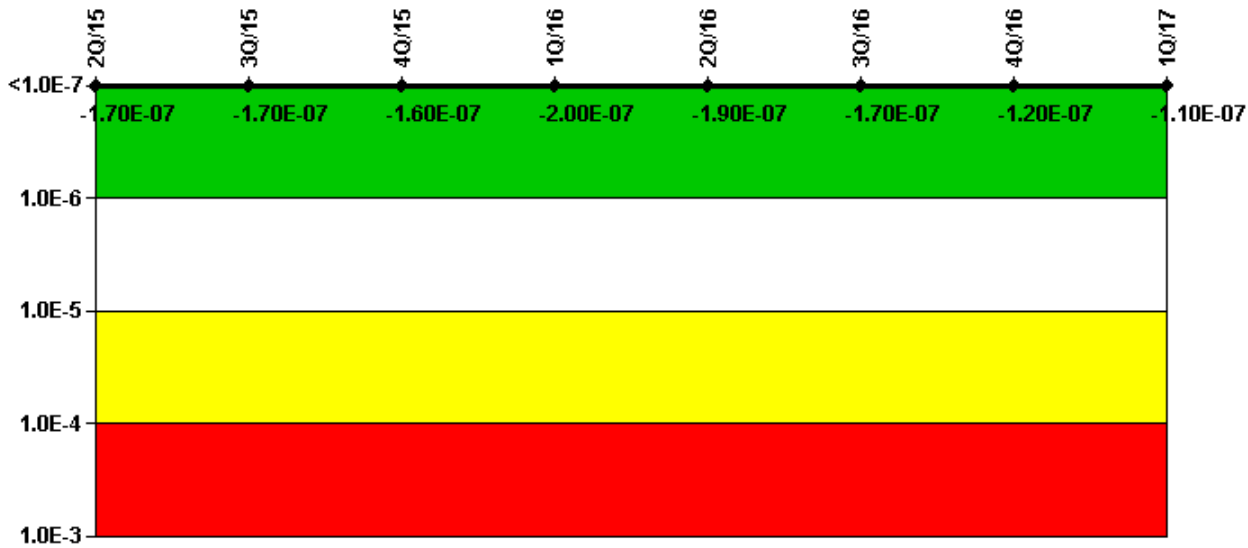
#### Mitigating Systems Performance Index, High Pressure Injection System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	3.12E-08	3.69E-08	1.36E-07	1.33E-07	1.36E-07	1.35E-07	-1.30E-08	4.63E-08
URI ( $\Delta$ CDF)	-1.03E-07	-7.84E-08	-8.09E-08	-7.69E-08	-7.59E-08	-7.04E-08	-6.83E-08	-7.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.20E-08	-4.10E-08	5.50E-08	5.70E-08	6.00E-08	6.40E-08	-8.10E-08	-2.40E-08

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Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



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

#### Notes

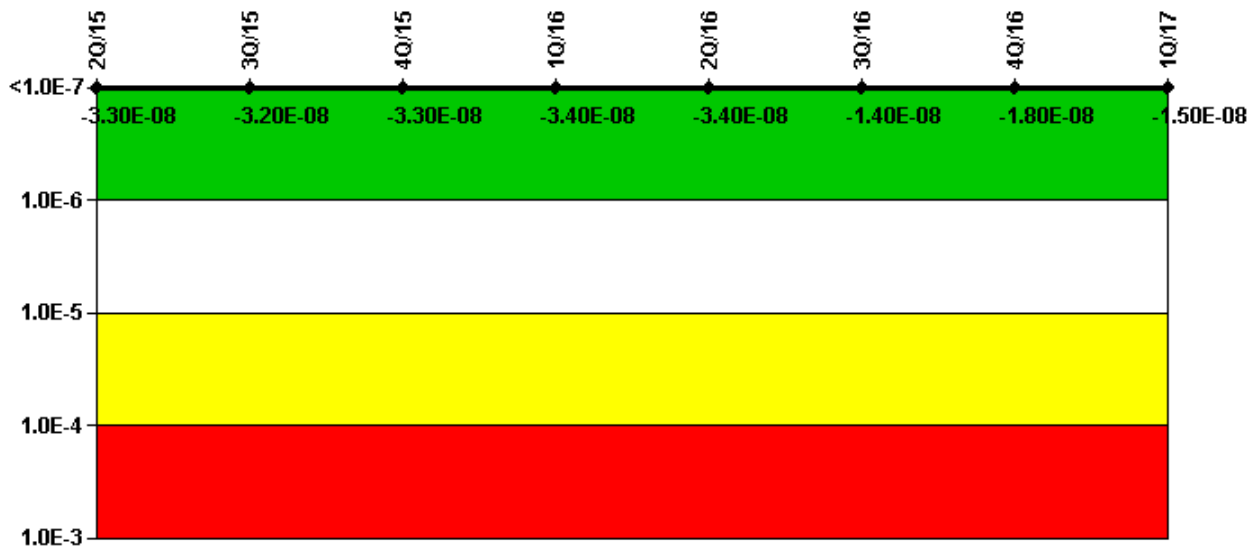
#### Mitigating Systems Performance Index, Heat Removal System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	2.80E-08	2.80E-08	2.73E-08	-1.47E-08	-8.76E-09	5.45E-10	3.07E-08	2.42E-08
URI ( $\Delta$ CDF)	-1.99E-07	-1.96E-07	-1.90E-07	-1.85E-07	-1.79E-07	-1.69E-07	-1.55E-07	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.70E-07	-1.60E-07	-2.00E-07	-1.90E-07	-1.70E-07	-1.20E-07	-1.10E-07

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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

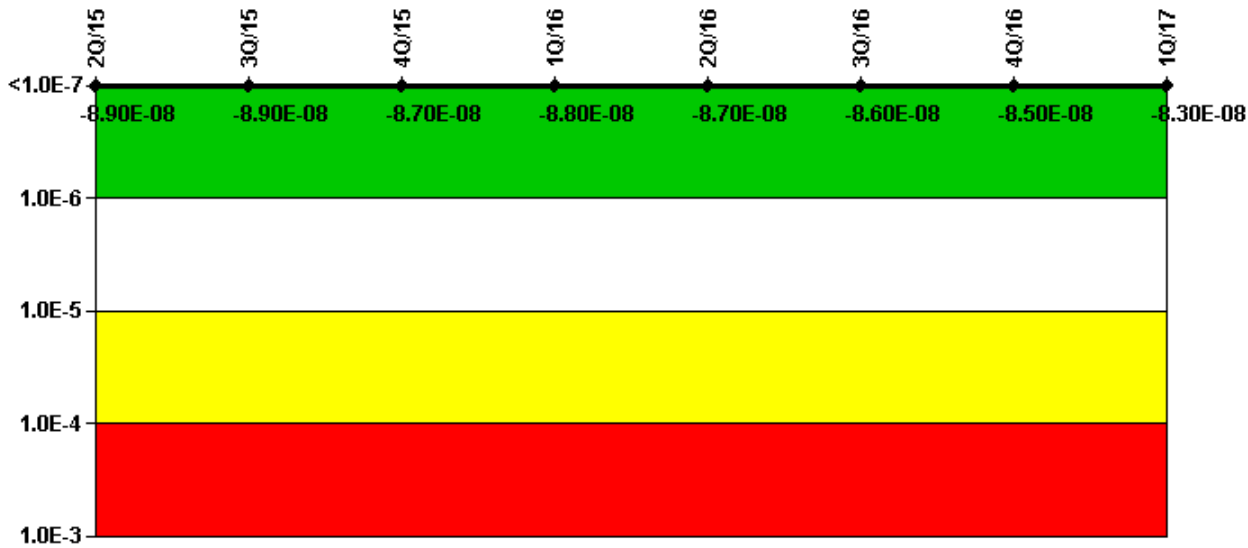
	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	-8.56E-09	-7.32E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09
URI ( $\Delta$ CDF)	-2.41E-08	-2.44E-08	-2.42E-08	-2.57E-08	-2.55E-08	-5.16E-09	-9.11E-09	-5.98E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.30E-08	-3.20E-08	-3.30E-08	-3.40E-08	-3.40E-08	-1.40E-08	-1.80E-08	-1.50E-08

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Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



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

**Notes**

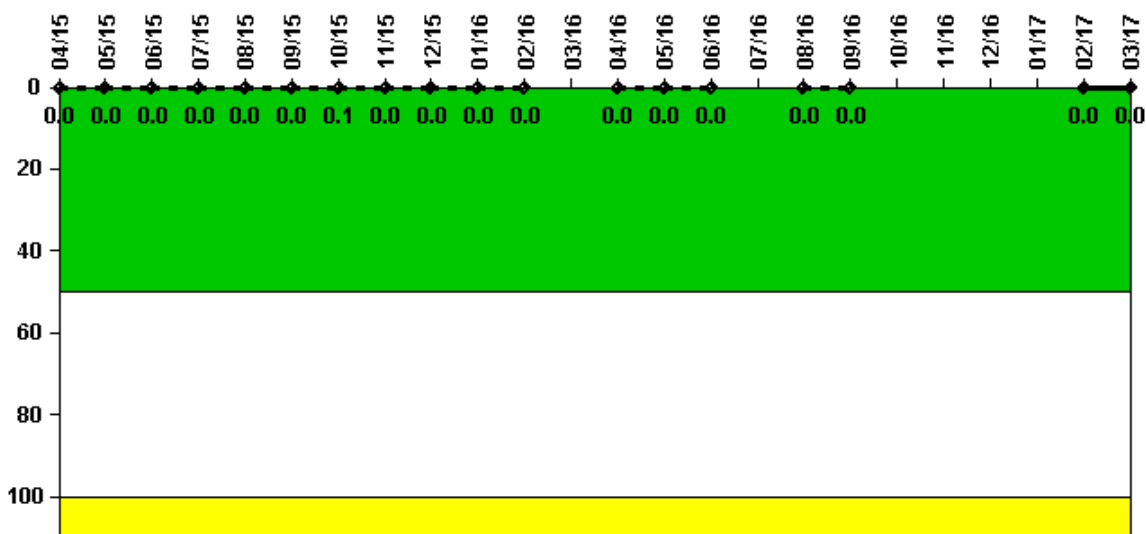
**Mitigating Systems Performance Index, Cooling Water Systems**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-8.77E-08	-8.70E-08	-8.54E-08	-8.68E-08	-8.54E-08	-8.47E-08	-8.36E-08	-8.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-8.90E-08</b>	<b>-8.90E-08</b>	<b>-8.70E-08</b>	<b>-8.80E-08</b>	<b>-8.70E-08</b>	<b>-8.60E-08</b>	<b>-8.50E-08</b>	<b>-8.30E-08</b>

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Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.000036	0.000037	0.000039	0.000063	0.000079	0.000092	0.000116	0.000033	0.000053	0.000069	0.000053	N/A
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	0.1	0	0	0	0	N/A

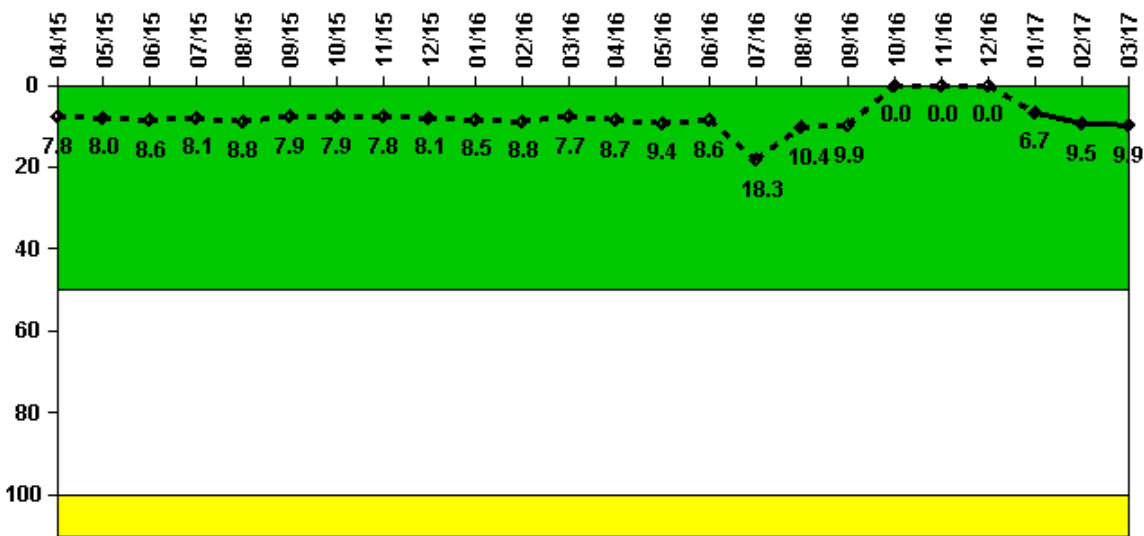
Reactor Coolant System Activity	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum activity	0.000013	0.000009	0.000005	N/A	0.000048	0.000020	N/A	N/A	N/A	N/A	0.000052	0.000013
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	N/A	0	0	N/A	N/A	N/A	N/A	0	0

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#### Licensee Comments:

12/16: Corrected typographical error in May Data. Changed Maximum I-131 to 9.35E-6 from 9.35E-5. CR-GGN-2016-09779.  
 6/16: Corrected typographical error in may data. Changed Maximum I-131 to 9.35E-6 from 9.35E-5. CR-GGN-2016-09779  
 3/16: For March 2016 the unit did not obtain a stable state power condition

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

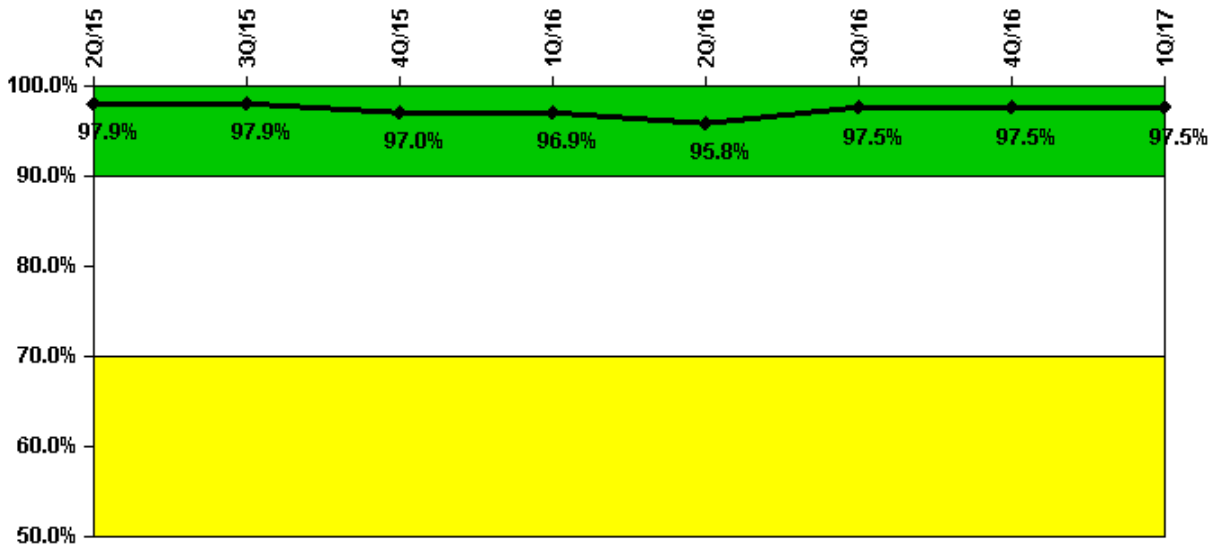
**Notes**

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	2.350	2.400	2.580	2.440	2.630	2.370	2.370	2.350	2.430	2.540	2.630	2.300
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>7.8</b>	<b>8.0</b>	<b>8.6</b>	<b>8.1</b>	<b>8.8</b>	<b>7.9</b>	<b>7.9</b>	<b>7.8</b>	<b>8.1</b>	<b>8.5</b>	<b>8.8</b>	<b>7.7</b>
Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	2.600	2.810	2.580	5.500	3.120	2.980	0	0	0	2.020	2.860	2.970
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>8.7</b>	<b>9.4</b>	<b>8.6</b>	<b>18.3</b>	<b>10.4</b>	<b>9.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6.7</b>	<b>9.5</b>	<b>9.9</b>

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Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

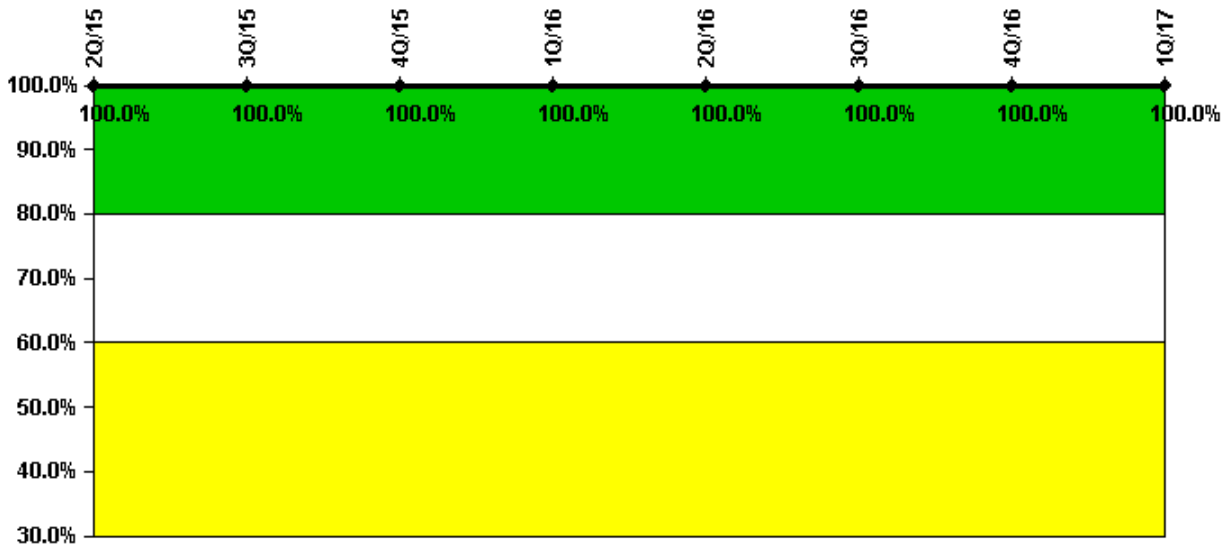
Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	31.0	17.0	51.0	0	29.0	143.0	62.0	13.0
Total opportunities	33.0	17.0	53.0	0	32.0	144.0	62.0	14.0

Indicator value                    97.9% 97.9% 97.0% 96.9% 95.8% 97.5% 97.5% 97.5%

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Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

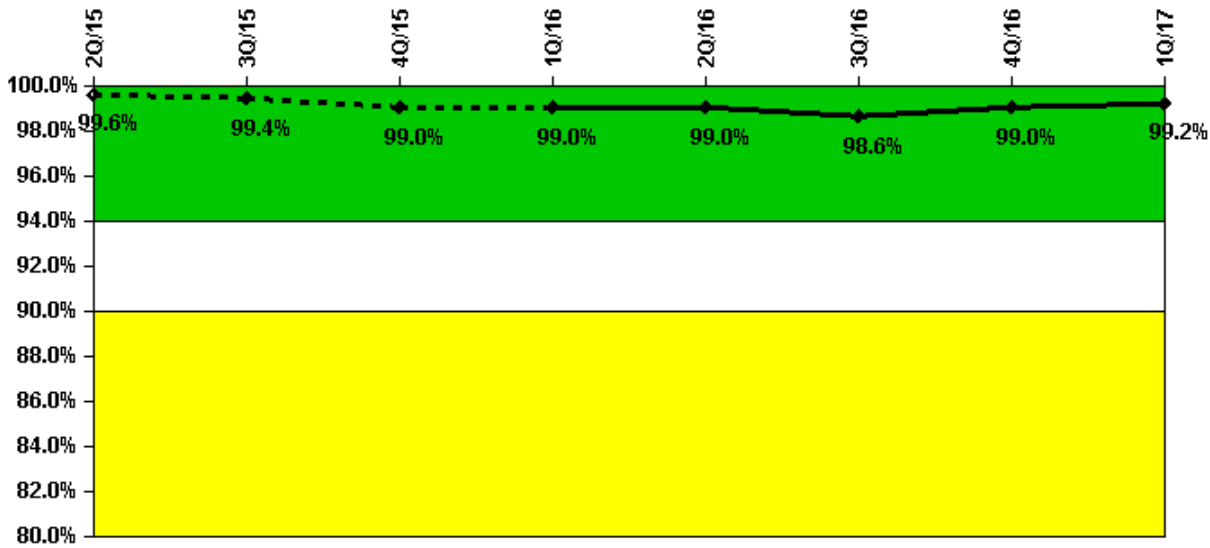
ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	65.0	64.0	68.0	64.0	67.0	44.0	50.0	42.0
Total Key personnel	65.0	64.0	68.0	64.0	67.0	44.0	50.0	42.0

**Indicator value**                    **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

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Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

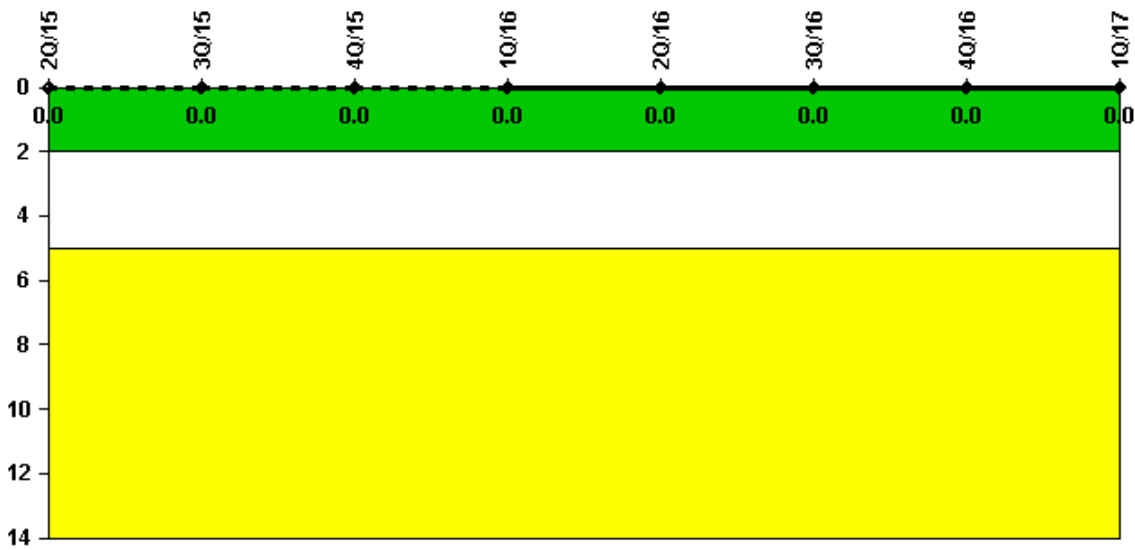
Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	126	126	127	127	128	126	129	129
Total sirens-tests	127	127	129	128	129	129	129	129

Indicator value                    99.6% 99.4% 99.0% 99.0% 99.0% 98.6% 99.0% 99.2%

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Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

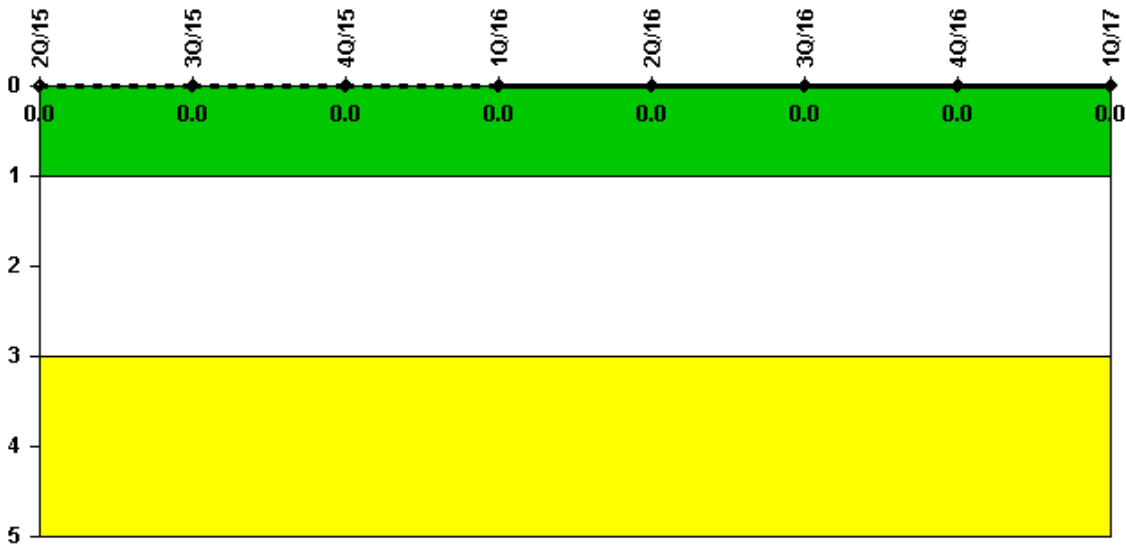
#### Notes

Occupational Exposure Control Effectiveness	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
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>

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Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: July 7, 2017

Page Last Reviewed/Updated Monday, July 10, 2017





Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Grand Gulf 1 > Quarterly Performance Indicators

## Grand Gulf 1 – Quarterly Performance Indicators

### 2Q/2017 Performance Indicators

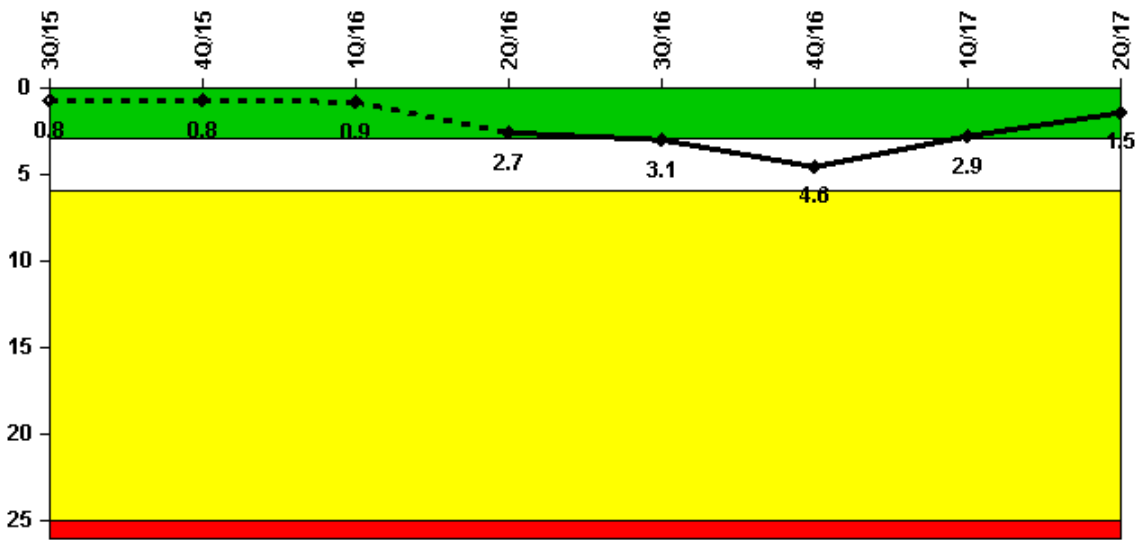
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

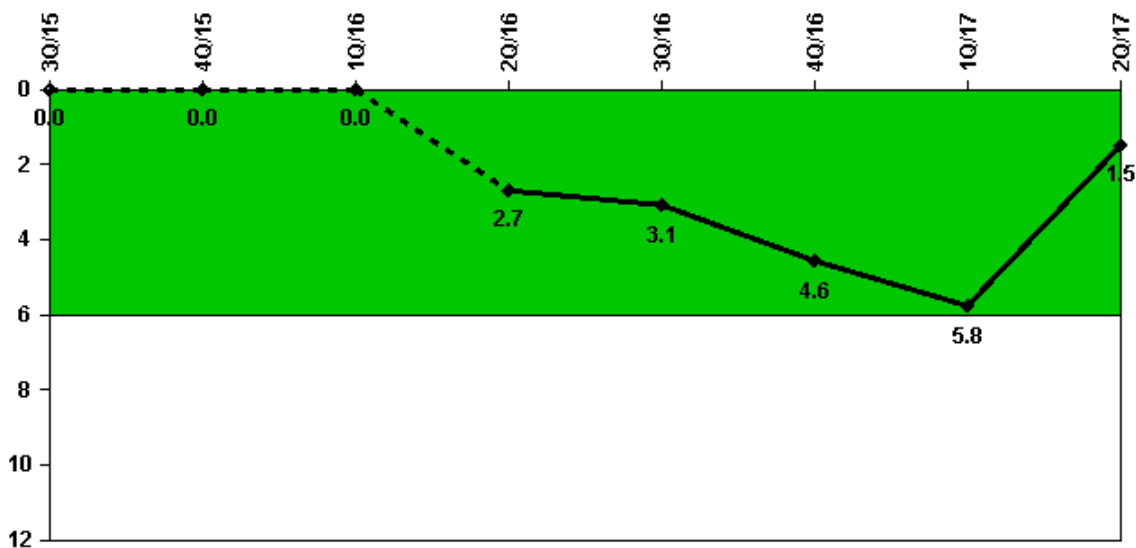
**Notes**

Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	0	1.0	2.0	0	0	0	1.0
Critical hours	2208.0	2209.0	1315.9	2010.2	1276.3	0	1516.3	1934.2
<b>Indicator value</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>2.7</b>	<b>3.1</b>	<b>4.6</b>	<b>2.9</b>	<b>1.5</b>

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Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	0	0	3.0	0	0	1.0	0
Critical hours	2208.0	2209.0	1315.9	2010.2	1276.3	0	1516.3	1934.2

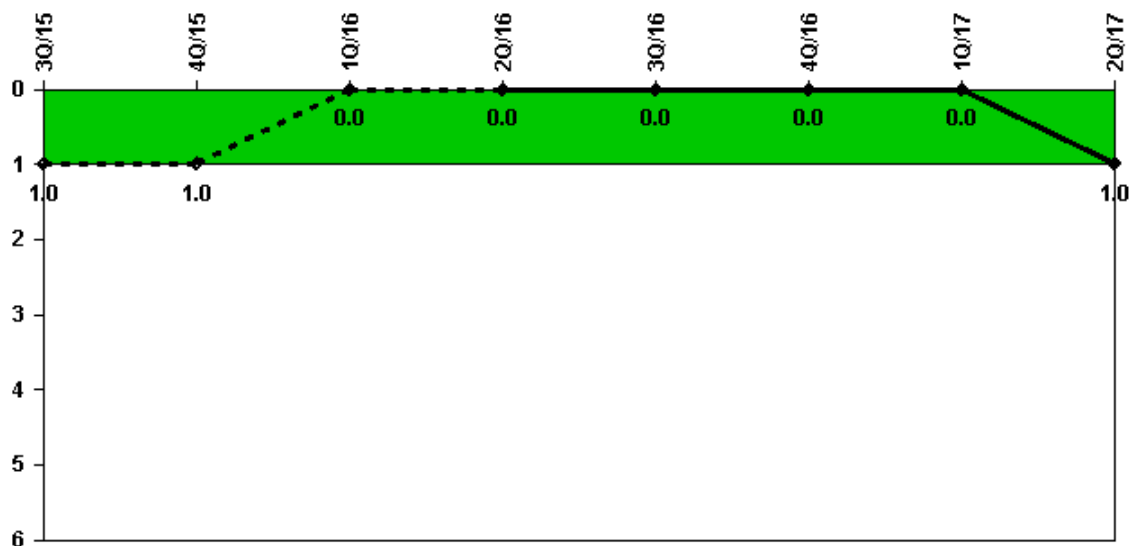
Indicator value	0	0	0	2.7	3.1	4.6	5.8	1.5
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#### Licensee Comments:

4Q/16: Entergy submitted an FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 3Q/16: Entergy will submit a FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 3Q/16: Entergy will submit a FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 2Q/16: Entered 3 power changes upon resolution of FAQ-17-02 for June 17, 2016 power oscillation event. Entered after FAQ resolution on 5/18/2017.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

#### Notes

**Unplanned Scrams with Complications** 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

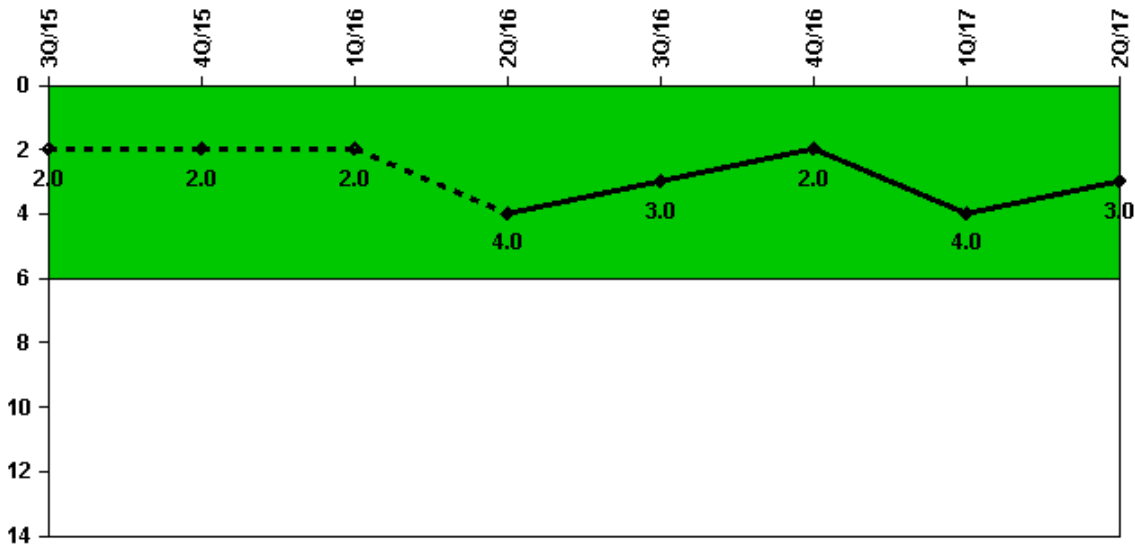
Scrams with complications 0 0 0 0 0 0 0 1.0

**Indicator value** 1.0 1.0 0.0 0.0 0.0 0.0 0.0 1.0

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Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

Safety System Functional Failures (BWR) 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

Safety System Functional Failures 1 1 0 2 0 0 2 1

Indicator value 2 2 2 4 3 2 4 3

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#### Licensee Comments:

2Q/17: LER 2017-002-00, submitted on 4/25/2017

1Q/17: LER 2016-009-00, OPRM Upscale Settings incorrectly set

3Q/16: Changed comments in 4Q15 PI comments to correct typographical error

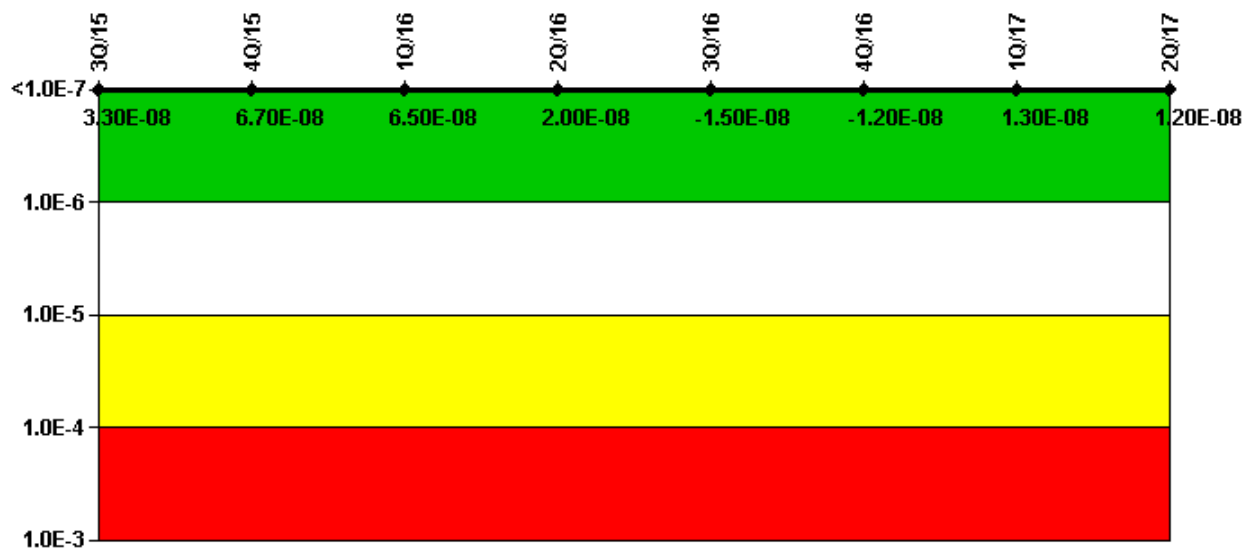
2Q/16: Reference LERs 2016-001-00 & 2016-003-00

4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q15 and one in 4Q15. Correction of typographical errors (3Q15 & 4Q15)

4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q14 and one in 4Q14

3Q/15: LER 2015-002-00 Documents one safety system functional failure in August 2015.

### Mitigating Systems Performance Index, Emergency AC Power System



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

**Notes**

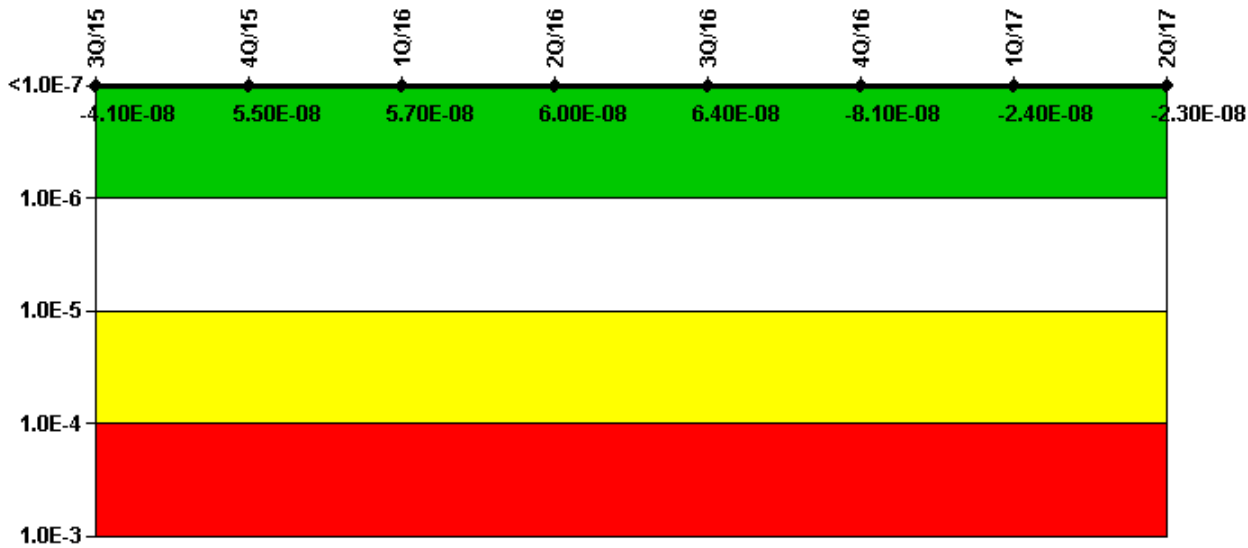
**Mitigating Systems Performance Index, Emergency AC Power System**

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	1.33E-08	1.31E-08	1.44E-08	1.57E-09	-4.28E-10	2.24E-09	2.55E-08	2.36E-08
URI (ΔCDF)	1.94E-08	5.39E-08	5.01E-08	1.87E-08	-1.42E-08	-1.39E-08	-1.21E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>3.30E-08</b>	<b>6.70E-08</b>	<b>6.50E-08</b>	<b>2.00E-08</b>	<b>-1.50E-08</b>	<b>-1.20E-08</b>	<b>1.30E-08</b>	<b>1.20E-08</b>

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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**

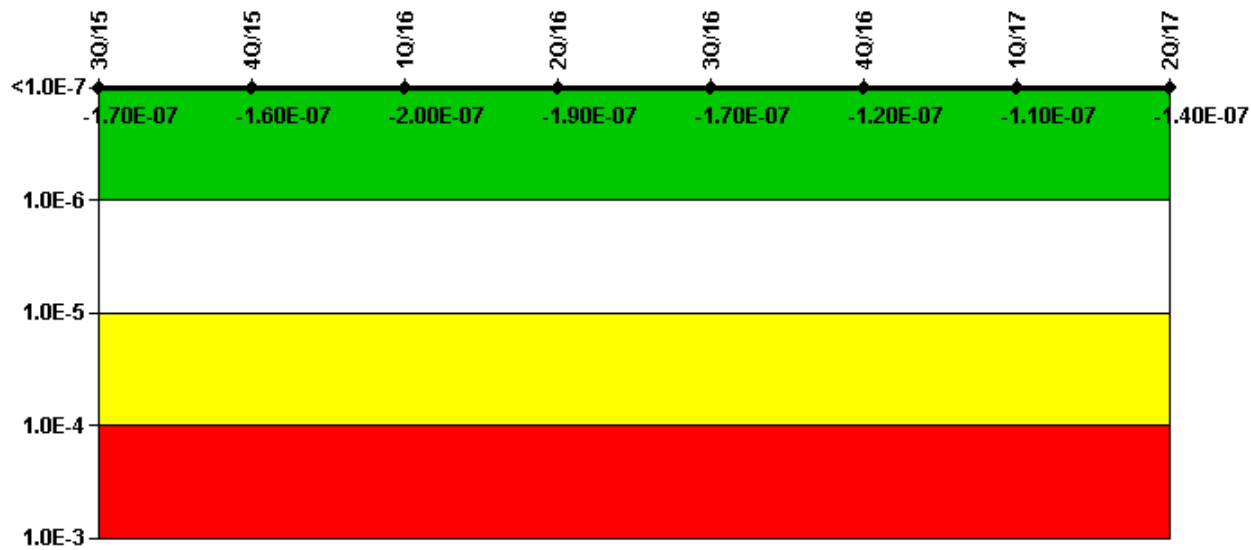
**Mitigating Systems Performance Index, High Pressure Injection System**

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI ( $\Delta$ CDF)	3.69E-08	1.36E-07	1.33E-07	1.36E-07	1.35E-07	-1.30E-08	4.63E-08	4.71E-08
URI ( $\Delta$ CDF)	-7.84E-08	-8.09E-08	-7.69E-08	-7.59E-08	-7.04E-08	-6.83E-08	-7.04E-08	-6.97E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-4.10E-08</b>	<b>5.50E-08</b>	<b>5.70E-08</b>	<b>6.00E-08</b>	<b>6.40E-08</b>	<b>-8.10E-08</b>	<b>-2.40E-08</b>	<b>-2.30E-08</b>

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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**

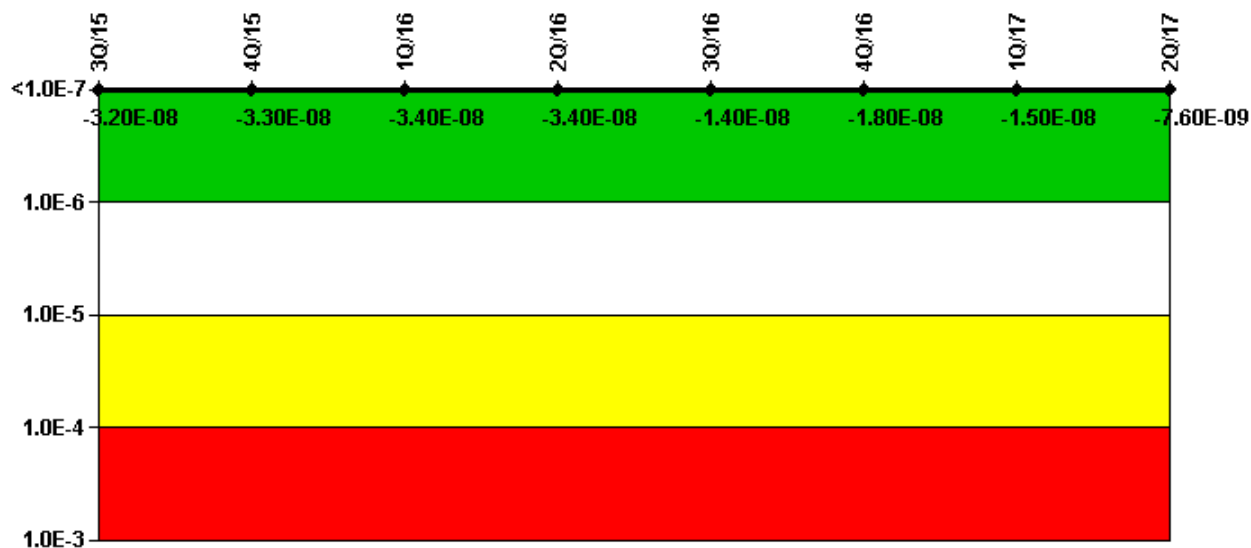
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI ( $\Delta$ CDF)	2.80E-08	2.73E-08	-1.47E-08	-8.76E-09	5.45E-10	3.07E-08	2.42E-08	4.39E-09
URI ( $\Delta$ CDF)	-1.96E-07	-1.90E-07	-1.85E-07	-1.79E-07	-1.69E-07	-1.55E-07	-1.30E-07	-1.47E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-1.70E-07</b>	<b>-1.60E-07</b>	<b>-2.00E-07</b>	<b>-1.90E-07</b>	<b>-1.70E-07</b>	<b>-1.20E-07</b>	<b>-1.10E-07</b>	<b>-1.40E-07</b>

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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**

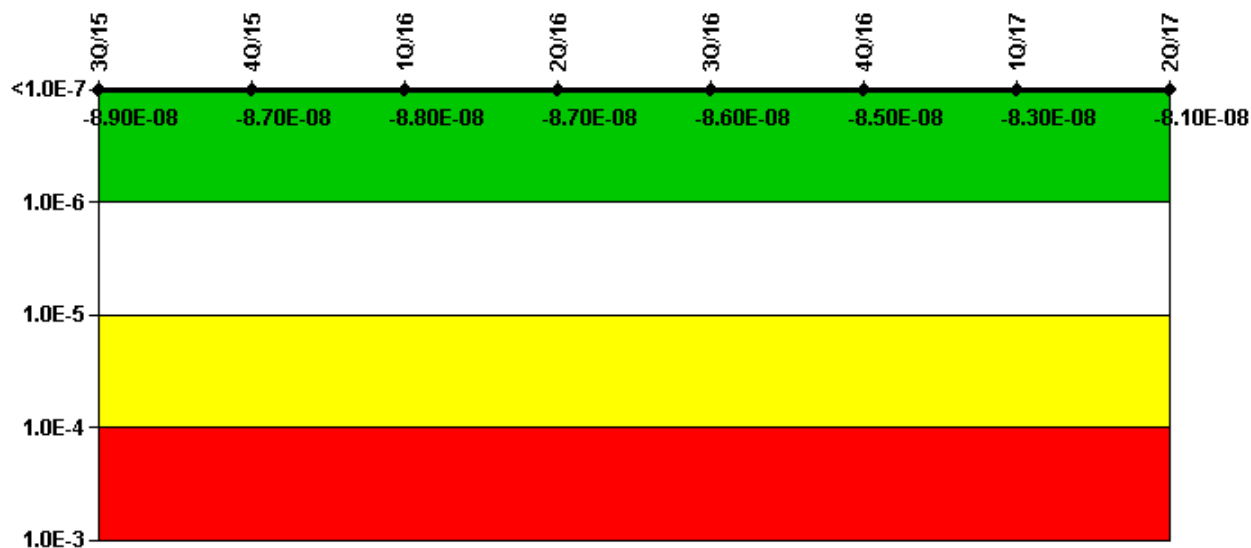
**Mitigating Systems Performance Index, Residual Heat Removal System**

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI ( $\Delta$ CDF)	-7.32E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-2.02E-09
URI ( $\Delta$ CDF)	-2.44E-08	-2.42E-08	-2.57E-08	-2.55E-08	-5.16E-09	-9.11E-09	-5.98E-09	-5.58E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-3.20E-08</b>	<b>-3.30E-08</b>	<b>-3.40E-08</b>	<b>-3.40E-08</b>	<b>-1.40E-08</b>	<b>-1.80E-08</b>	<b>-1.50E-08</b>	<b>-7.60E-09</b>

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Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



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

#### Notes

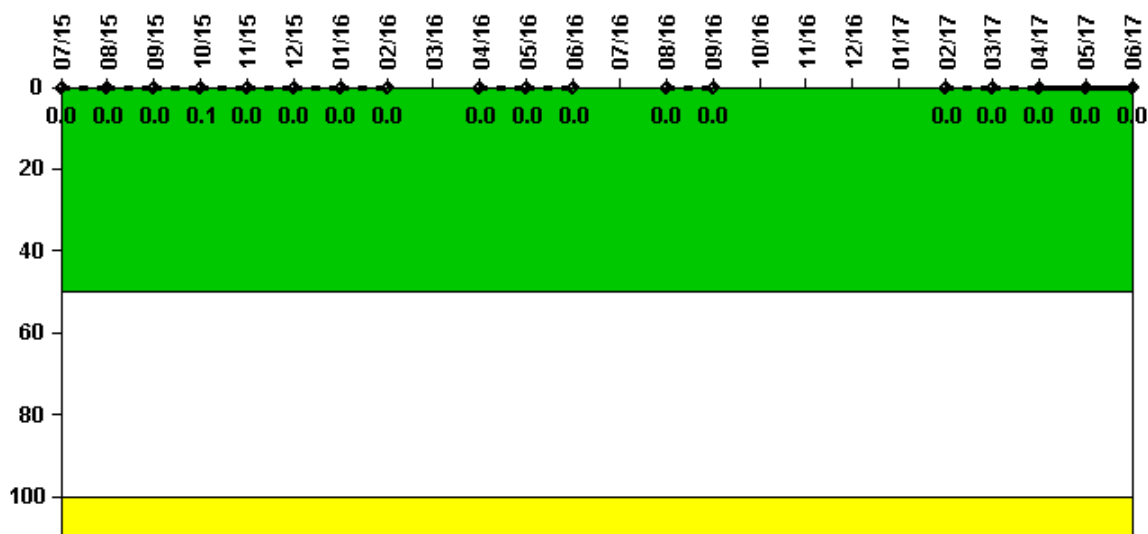
#### Mitigating Systems Performance Index, Cooling Water Systems

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09
URI ( $\Delta$ CDF)	-8.70E-08	-8.54E-08	-8.68E-08	-8.54E-08	-8.47E-08	-8.36E-08	-8.10E-08	-7.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-8.90E-08</b>	<b>-8.70E-08</b>	<b>-8.80E-08</b>	<b>-8.70E-08</b>	<b>-8.60E-08</b>	<b>-8.50E-08</b>	<b>-8.30E-08</b>	<b>-8.10E-08</b>

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Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.000063	0.000079	0.000092	0.000116	0.000033	0.000053	0.000069	0.000053	N/A	0.000013	0.000009	0.000005
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	0.1	0	0	0	0	0	N/A	0	0

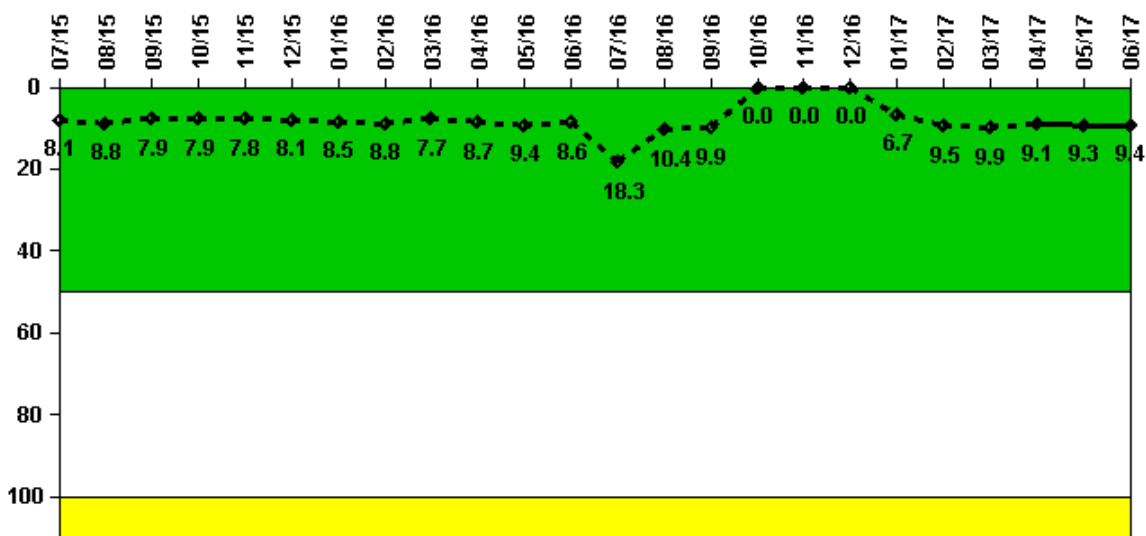
Reactor Coolant System Activity	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum activity	N/A	0.000048	0.000020	N/A	N/A	N/A	N/A	0.000052	0.000013	0.000015	0.000012	0.000052
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	N/A	0	0	N/A	N/A	N/A	N/A	0	0	0	0	0

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#### Licensee Comments:

12/16: Corrected typographical error in May Data. Changed Maximum I-131 to 9.35E-6 from 9.35E-5. CR-GGN-2016-09779.  
 6/16: Corrected typographical error in may data. Changed Maximum I-131 to 9.35E-6 from 9.35E-5. CR-GGN-2016-09779  
 3/16: For March 2016 the unit did not obtain a stable state power condition

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

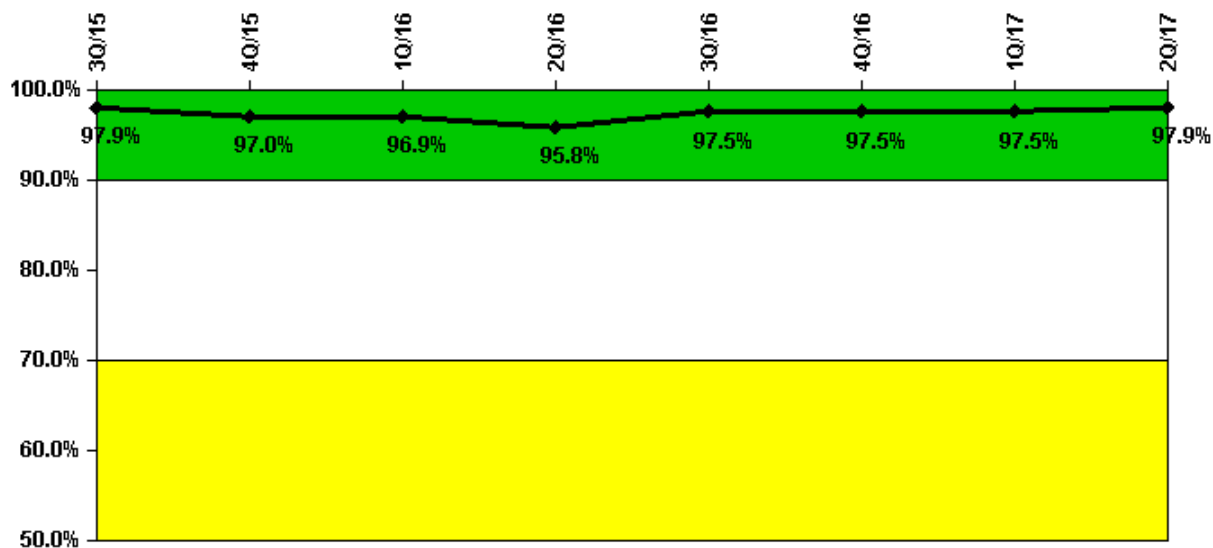
#### Notes

Reactor Coolant System Leakage	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum leakage	2.440	2.630	2.370	2.370	2.350	2.430	2.540	2.630	2.300	2.600	2.810	2.580
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>8.1</b>	<b>8.8</b>	<b>7.9</b>	<b>7.9</b>	<b>7.8</b>	<b>8.1</b>	<b>8.5</b>	<b>8.8</b>	<b>7.7</b>	<b>8.7</b>	<b>9.4</b>	<b>8.6</b>
Reactor Coolant System Leakage	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum leakage	5.500	3.120	2.980	0	0	0	2.020	2.860	2.970	2.720	2.780	2.810
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>18.3</b>	<b>10.4</b>	<b>9.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6.7</b>	<b>9.5</b>	<b>9.9</b>	<b>9.1</b>	<b>9.3</b>	<b>9.4</b>

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Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

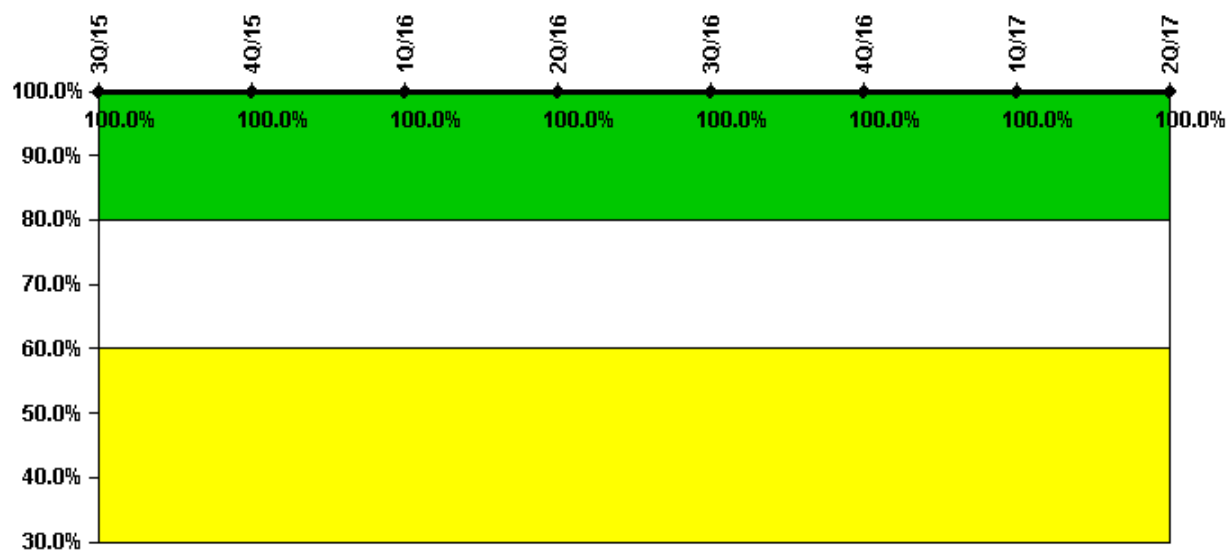
Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	17.0	51.0	0	29.0	143.0	62.0	13.0	12.0
Total opportunities	17.0	53.0	0	32.0	144.0	62.0	14.0	12.0

**Indicator value**                    97.9% 97.0% 96.9% 95.8% 97.5% 97.5% 97.5% 97.9%

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Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

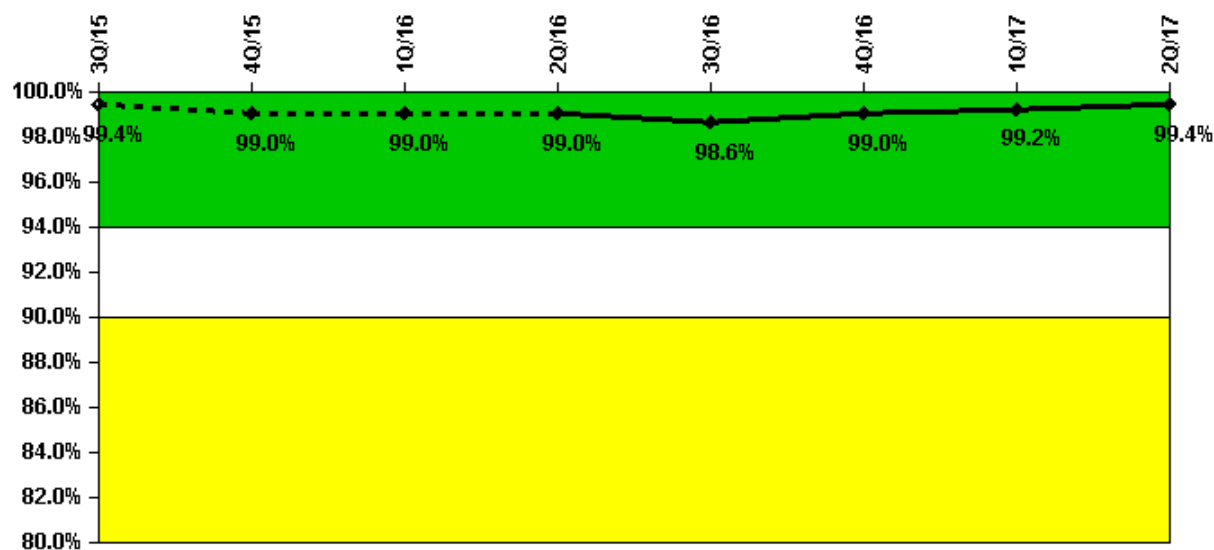
ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	64.0	68.0	64.0	67.0	44.0	50.0	42.0	41.0
Total Key personnel	64.0	68.0	64.0	67.0	44.0	50.0	42.0	41.0

**Indicator value**                    **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

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Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

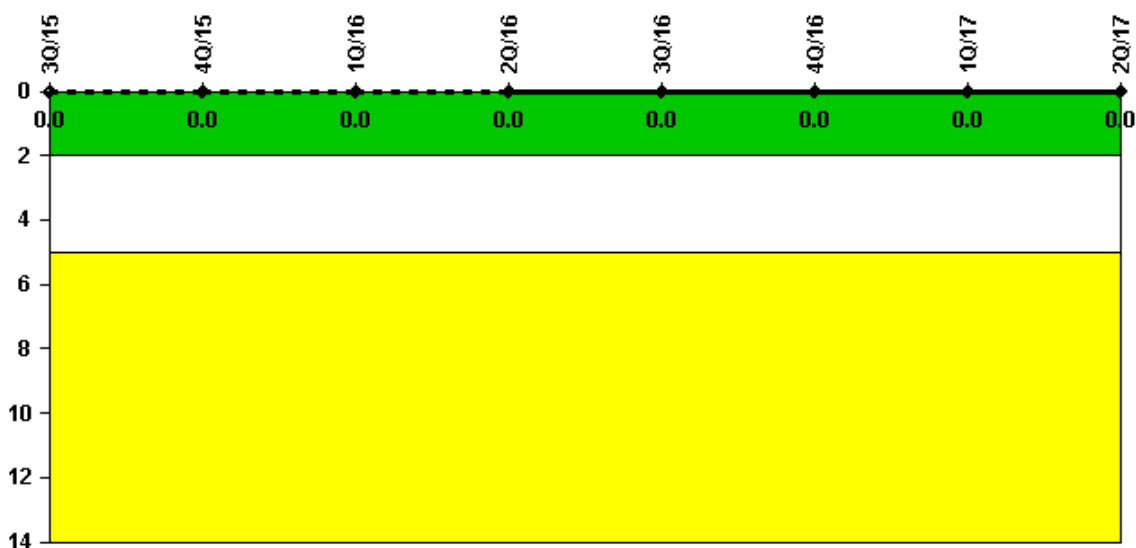
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	126	127	127	128	126	129	129	127
Total sirens-tests	127	129	128	129	129	129	129	127

**Indicator value**                    **99.4% 99.0% 99.0% 99.0% 98.6% 99.0% 99.2% 99.4%**

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Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

**Notes**

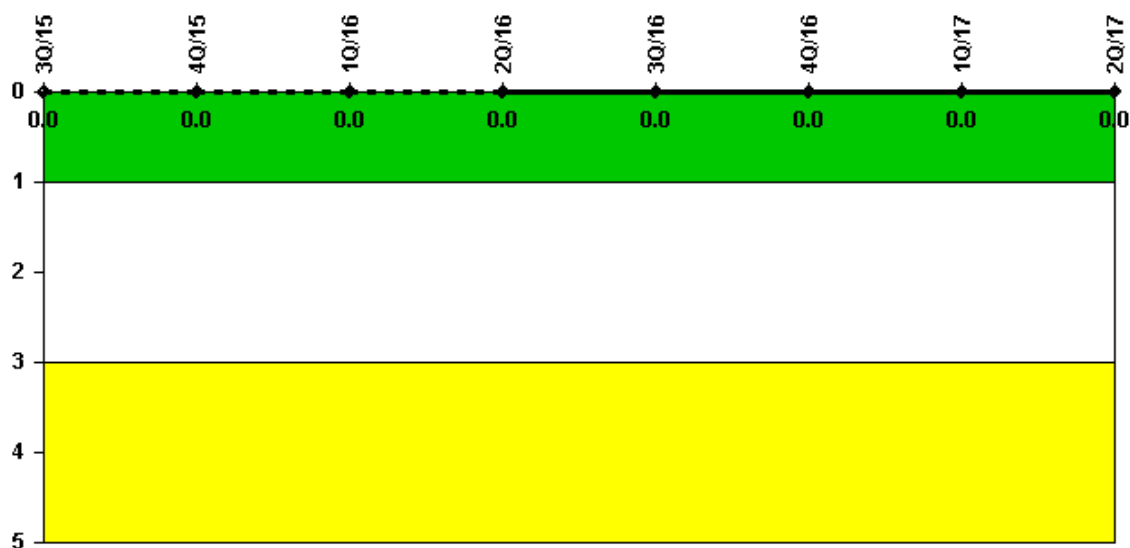
Occupational Exposure Control Effectiveness	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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Licensee Comments: none



### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: July 26, 2017

Page Last Reviewed/Updated Monday, July 10, 2017



[Home](#) > [Nuclear Reactors](#) > [Operating Reactors](#) > [Reactor Oversight Process](#) > [Plant Summaries](#)> [Grand Gulf 1](#) > [Quarterly Performance Indicators](#)

## Grand Gulf 1 – Quarterly Performance Indicators

### 3Q/2017 Performance Indicators

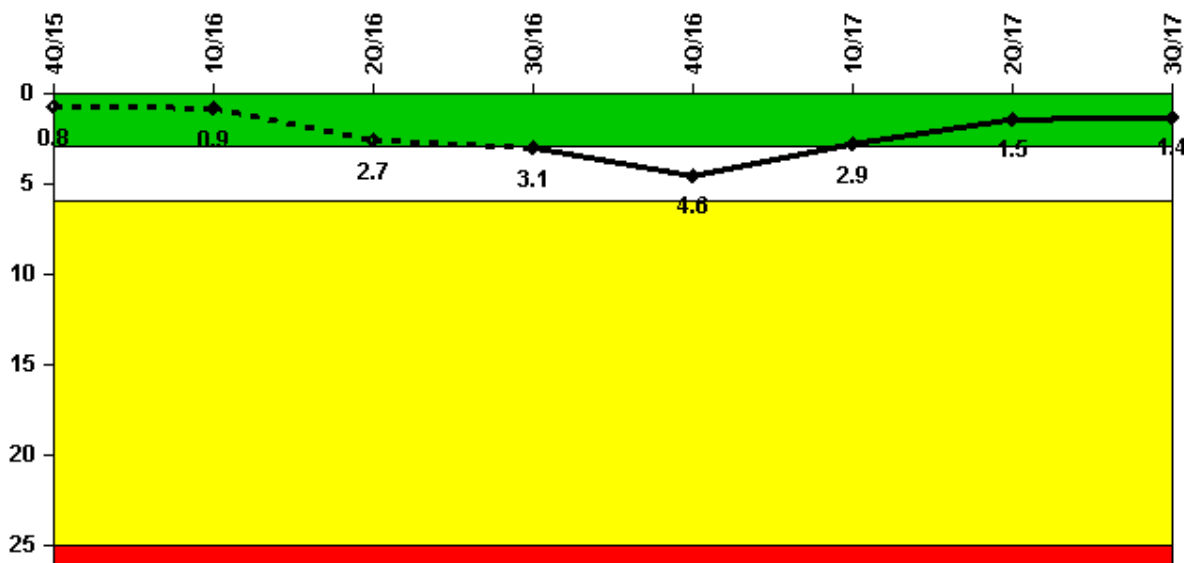
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- [Unplanned Scrams \(IE01\)](#)
- [Unplanned Power Changes per 7000 Critical Hours \(IE03\)](#)
- [Unplanned Scrams with Complications \(IE04\)](#)
- [Safety System Functional Failures \(MS05\)](#)
- [Emergency AC Power Systems \(MS06\)](#)
- [High Pressure Injection Systems \(MS07\)](#)
- [Heat Removal Systems \(MS08\)](#)
- [Residual Heat Removal Systems \(MS09\)](#)
- [Cooling Water Systems \(MS10\)](#)
- [Reactor Coolant System Activity \(BI01\)](#)
- [Reactor Coolant System Leakage \(BI02\)](#)
- [Drill/Exercise Performance \(EP01\)](#)
- [Emergency Response Organization Drill Participation \(EP02\)](#)
- [Alert and Notification System Reliability \(EP03\)](#)
- [Occupational Exposure Control Effectiveness \(OR01\)](#)
- [RETS/OCDM Radiological Effluent Occurrence \(PR01\)](#)
- [Protected Area Equipment \(PP01\)](#)

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

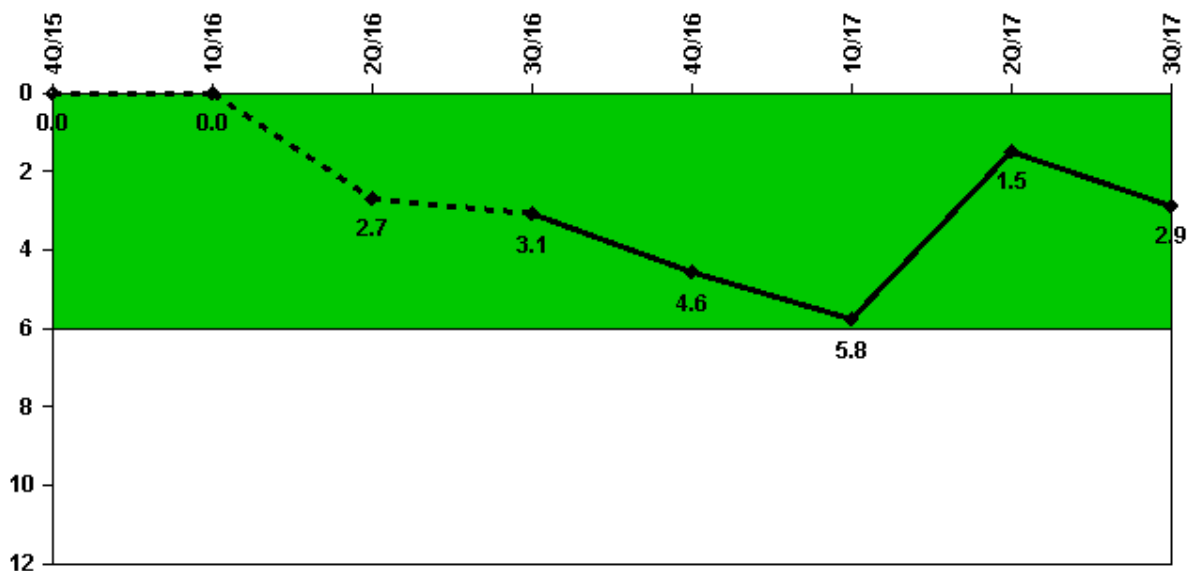
#### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	0	1.0	2.0	0	0	0	1.0	0
Critical hours	2209.0	1315.9	2010.2	1276.3	0	1516.3	1934.2	1447.3
<b>Indicator value</b>	<b>0.8</b>	<b>0.9</b>	<b>2.7</b>	<b>3.1</b>	<b>4.6</b>	<b>2.9</b>	<b>1.5</b>	<b>1.4</b>

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Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

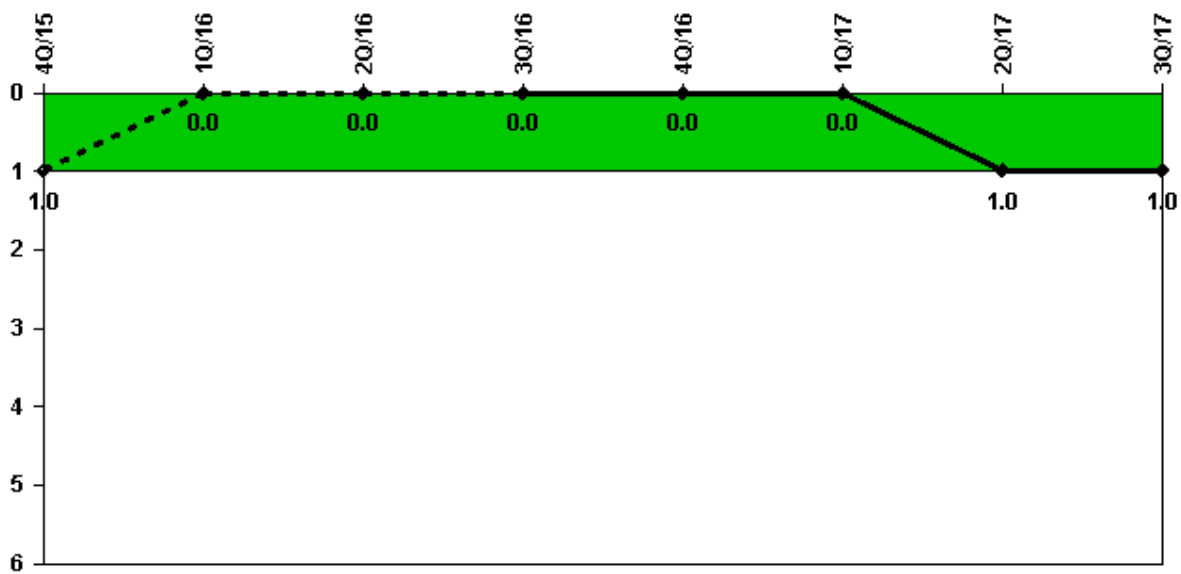
Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	3.0	0	0	1.0	0	1.0
Critical hours	2209.0	1315.9	2010.2	1276.3	0	1516.3	1934.2	1447.3
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>2.7</b>	<b>3.1</b>	<b>4.6</b>	<b>5.8</b>	<b>1.5</b>	<b>2.9</b>

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#### Licensee Comments:

4Q/16: Entergy submitted an FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 3Q/16: Entergy will submit a FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 3Q/16: Entergy will submit a FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 2Q/16: Entered 3 power changes upon resolution of FAQ-17-02 for June 17, 2016 power oscillation event. Entered after FAQ resolution on 5/18/2017.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

#### Notes

**Unplanned Scrams with Complications** 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

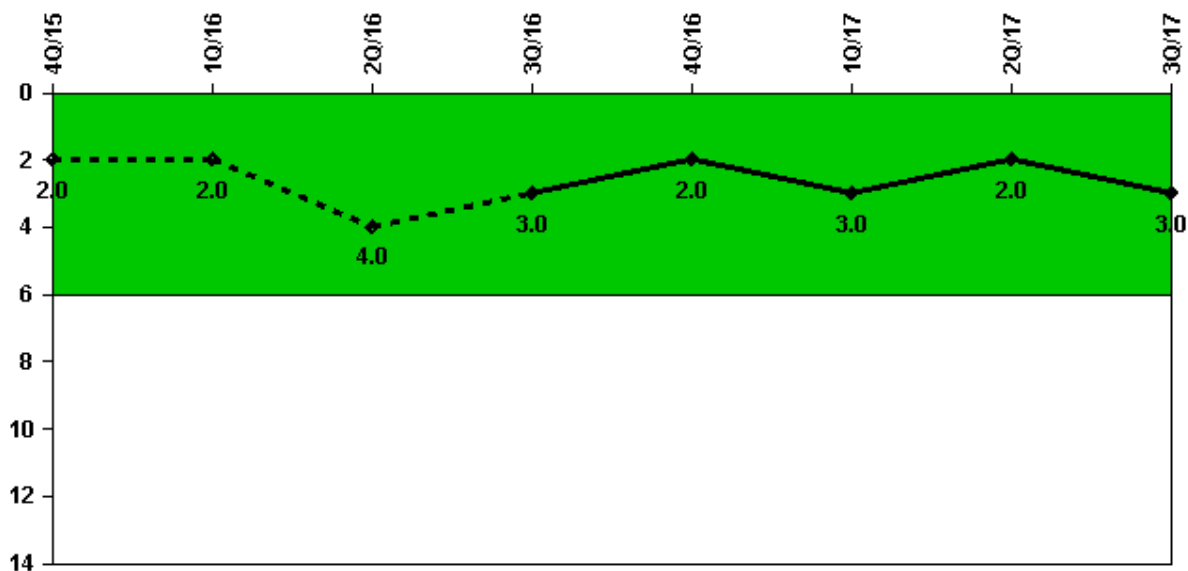
Scrams with complications 0 0 0 0 0 0 1.0 0

**Indicator value** 1.0 0.0 0.0 0.0 0.0 0.0 1.0 1.0

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Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

#### Safety System Functional Failures (BWR) 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

Safety System Functional Failures	1	0	2	0	0	1	1	1
<b>Indicator value</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>

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#### Licensee Comments:

3Q/17: LER 2016-009-01 removed SSFF for Jan 2017

2Q/17: LER 2017-002-00, submitted on 4/25/2017

1Q/17: LER 2016-009-00, OPRM Upscale Settings incorrectly set

1Q/17: LER 2016-009-01, OPRM Upscale Settings incorrectly set removed SSFF

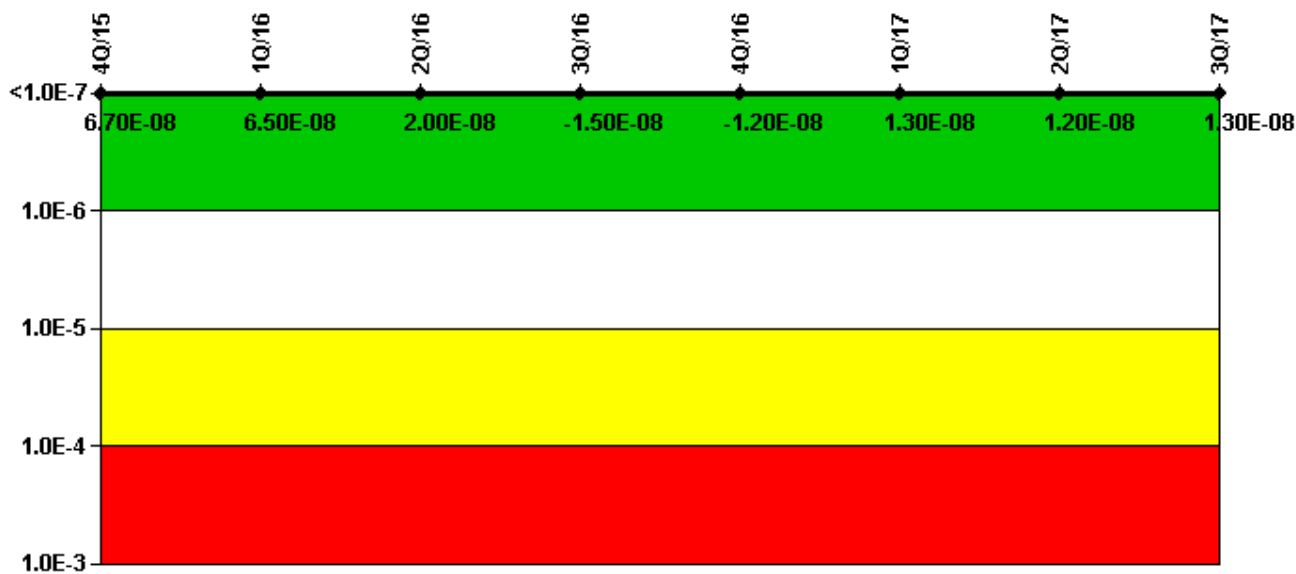
3Q/16: Changed comments in 4Q15 PI comments to correct typographical error

2Q/16: Reference LERs 2016-001-00 & 2016-003-00

4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q15 and one in 4Q15. Correction of typographical errors (3Q15 & 4Q15)

4Q/15: LER 2015-002-00 Documents 4 SSFF failures one in 2Q14, one in 4Q14, one in 3Q14 and one in 4Q14

### Mitigating Systems Performance Index, Emergency AC Power System



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

**Notes**

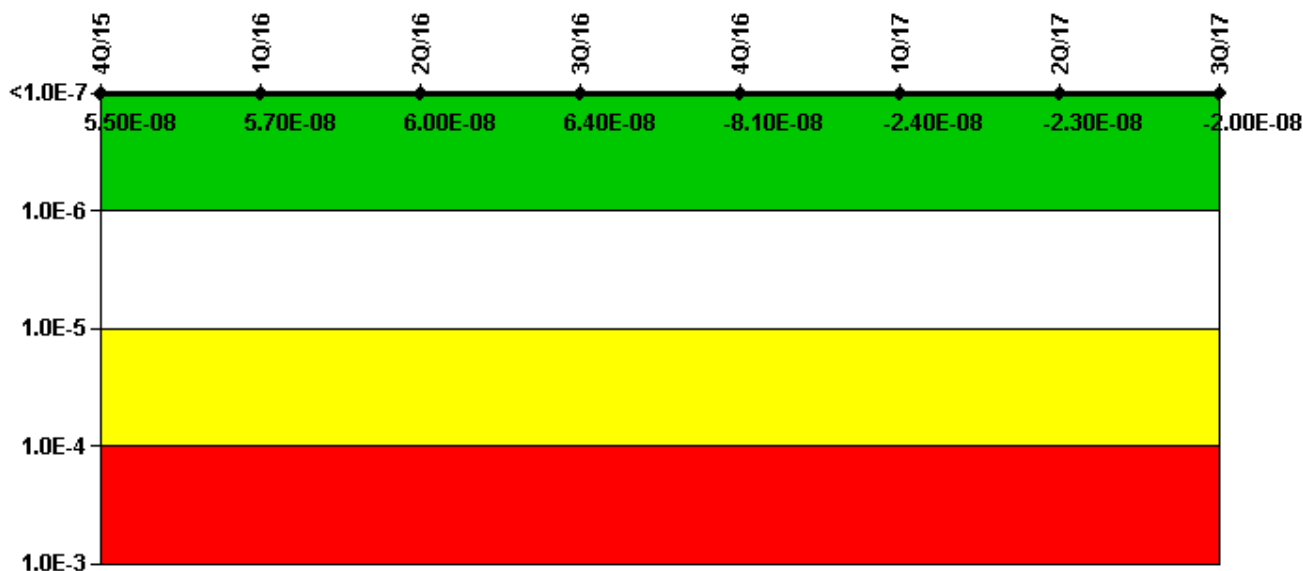
**Mitigating Systems Performance Index, Emergency AC Power System**

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	1.31E-08	1.44E-08	1.57E-09	-4.28E-10	2.24E-09	2.55E-08	2.36E-08	2.54E-08
URI (ΔCDF)	5.39E-08	5.01E-08	1.87E-08	-1.42E-08	-1.39E-08	-1.21E-08	-1.20E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>6.70E-08</b>	<b>6.50E-08</b>	<b>2.00E-08</b>	<b>-1.50E-08</b>	<b>-1.20E-08</b>	<b>1.30E-08</b>	<b>1.20E-08</b>	<b>1.30E-08</b>

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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

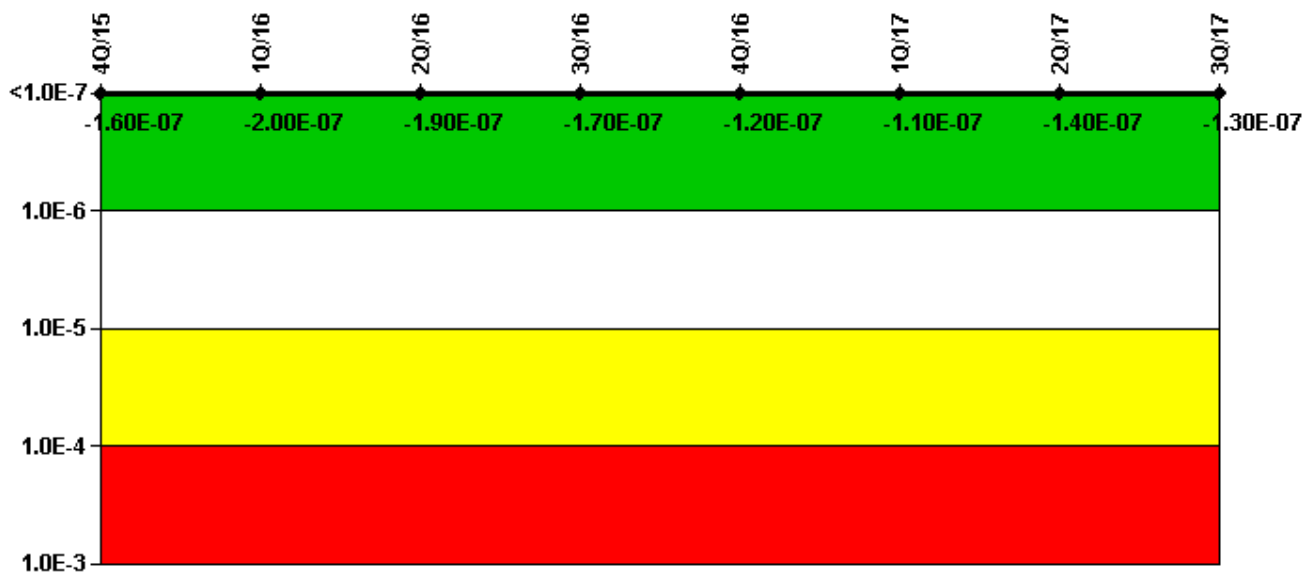
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	1.36E-07	1.33E-07	1.36E-07	1.35E-07	-1.30E-08	4.63E-08	4.71E-08	4.96E-08
URI (ΔCDF)	-8.09E-08	-7.69E-08	-7.59E-08	-7.04E-08	-6.83E-08	-7.04E-08	-6.97E-08	-6.98E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>5.50E-08</b>	<b>5.70E-08</b>	<b>6.00E-08</b>	<b>6.40E-08</b>	<b>-8.10E-08</b>	<b>-2.40E-08</b>	<b>-2.30E-08</b>	<b>-2.00E-08</b>

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Licensee Comments: none



### Mitigating Systems Performance Index, Heat Removal System



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

**Notes**

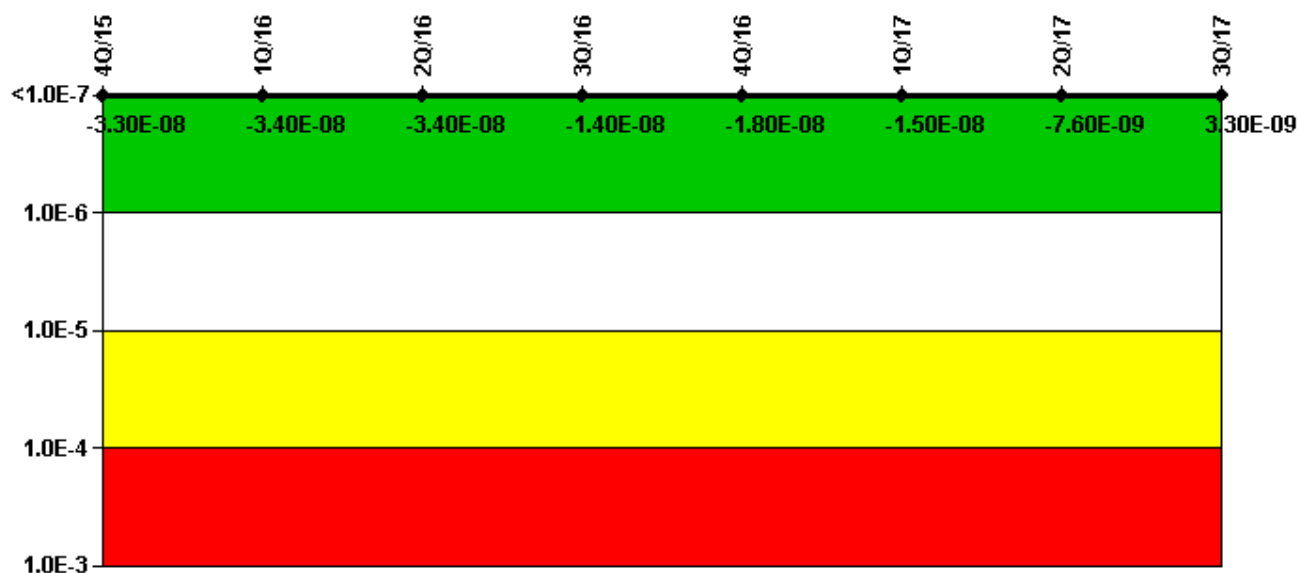
**Mitigating Systems Performance Index, Heat Removal System**

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	2.73E-08	-1.47E-08	-8.76E-09	5.45E-10	3.07E-08	2.42E-08	4.39E-09	2.04E-08
URI (ΔCDF)	-1.90E-07	-1.85E-07	-1.79E-07	-1.69E-07	-1.55E-07	-1.30E-07	-1.47E-07	-1.47E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-1.60E-07</b>	<b>-2.00E-07</b>	<b>-1.90E-07</b>	<b>-1.70E-07</b>	<b>-1.20E-07</b>	<b>-1.10E-07</b>	<b>-1.40E-07</b>	<b>-1.30E-07</b>

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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

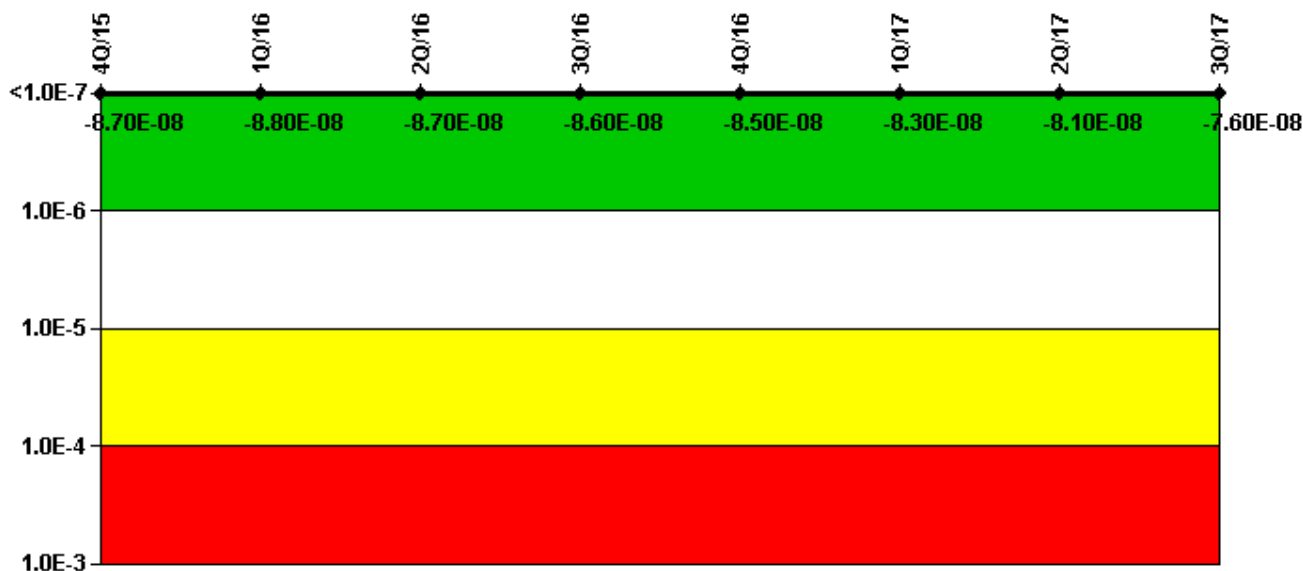
#### Mitigating Systems Performance Index, Residual Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI ( $\Delta$ CDF)	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-2.02E-09	9.02E-09
URI ( $\Delta$ CDF)	-2.42E-08	-2.57E-08	-2.55E-08	-5.16E-09	-9.11E-09	-5.98E-09	-5.58E-09	-5.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-3.30E-08</b>	<b>-3.40E-08</b>	<b>-3.40E-08</b>	<b>-1.40E-08</b>	<b>-1.80E-08</b>	<b>-1.50E-08</b>	<b>-7.60E-09</b>	<b>3.30E-09</b>

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Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



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

**Notes**

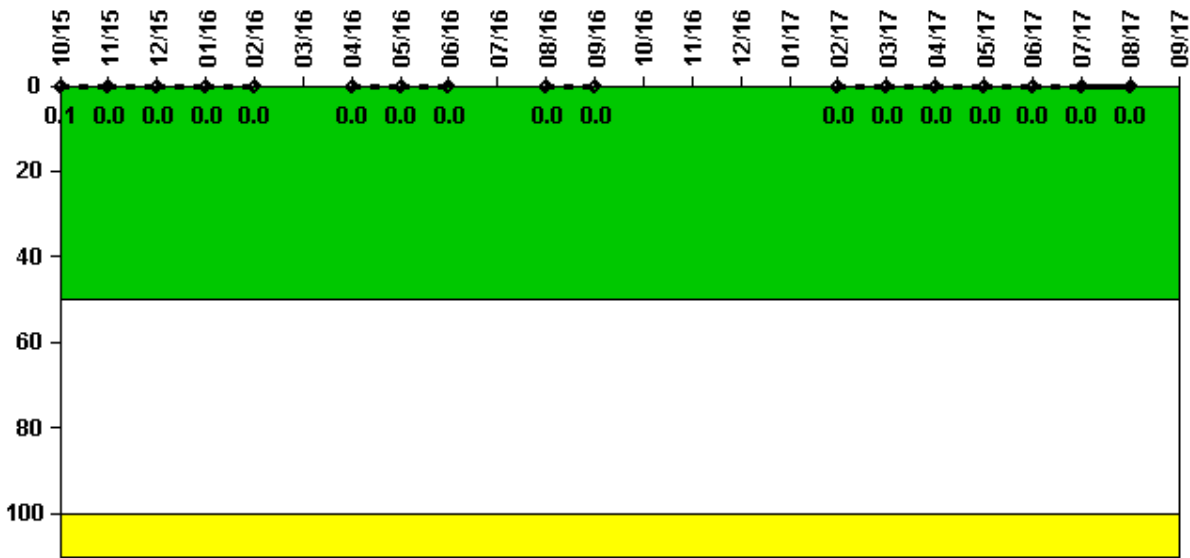
**Mitigating Systems Performance Index, Cooling Water Systems**

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	1.66E-09
URI (ΔCDF)	-8.54E-08	-8.68E-08	-8.54E-08	-8.47E-08	-8.36E-08	-8.10E-08	-7.94E-08	-7.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-8.70E-08</b>	<b>-8.80E-08</b>	<b>-8.70E-08</b>	<b>-8.60E-08</b>	<b>-8.50E-08</b>	<b>-8.30E-08</b>	<b>-8.10E-08</b>	<b>-7.60E-08</b>

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Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.000116	0.000033	0.000053	0.000069	0.000053	N/A	0.000013	0.000009	0.000005	N/A	0.000048	0.000020
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	0.1	0	0	0	0	N/A	0	0	0	N/A	0	0

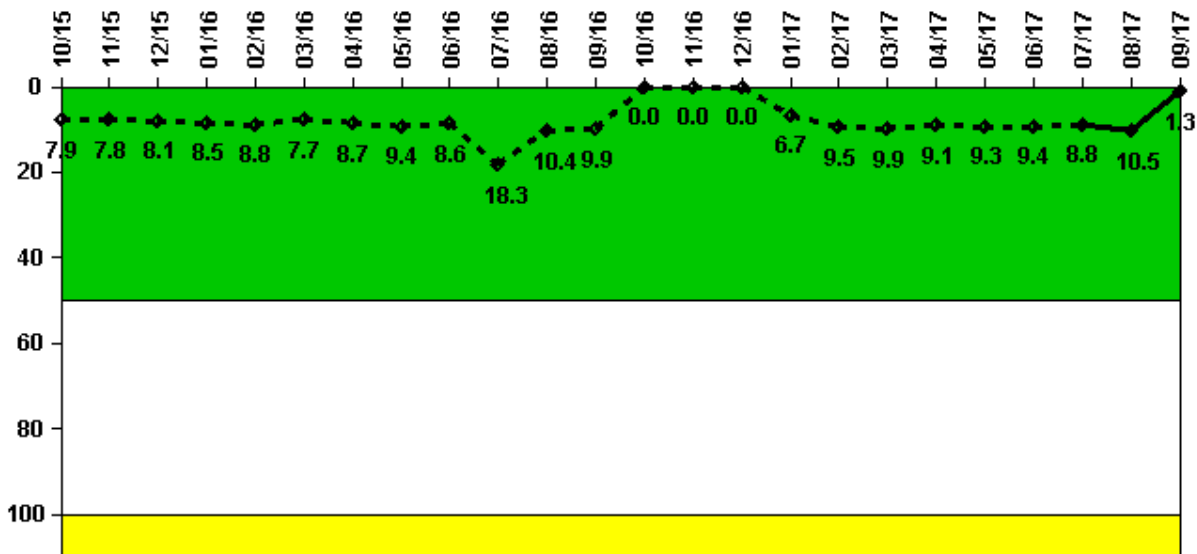
Reactor Coolant System Activity	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum activity	N/A	N/A	N/A	N/A	0.000052	0.000013	0.000015	0.000012	0.000052	0.000002	0.000021	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	N/A

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Licensee Comments:

12/16: Corrected typographical error in May Data. Changed Maximum I-131 to 9.35E-6 from 9.35E-5. CR-GGN-2016-09779.  
 6/16: Corrected typographical error in may data. Changed Maximum I-131 to 9.35E-6 from 9.35E-5. CR-GGN-2016-09779  
 3/16: For March 2016 the unit did not obtain a stable state power condition

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

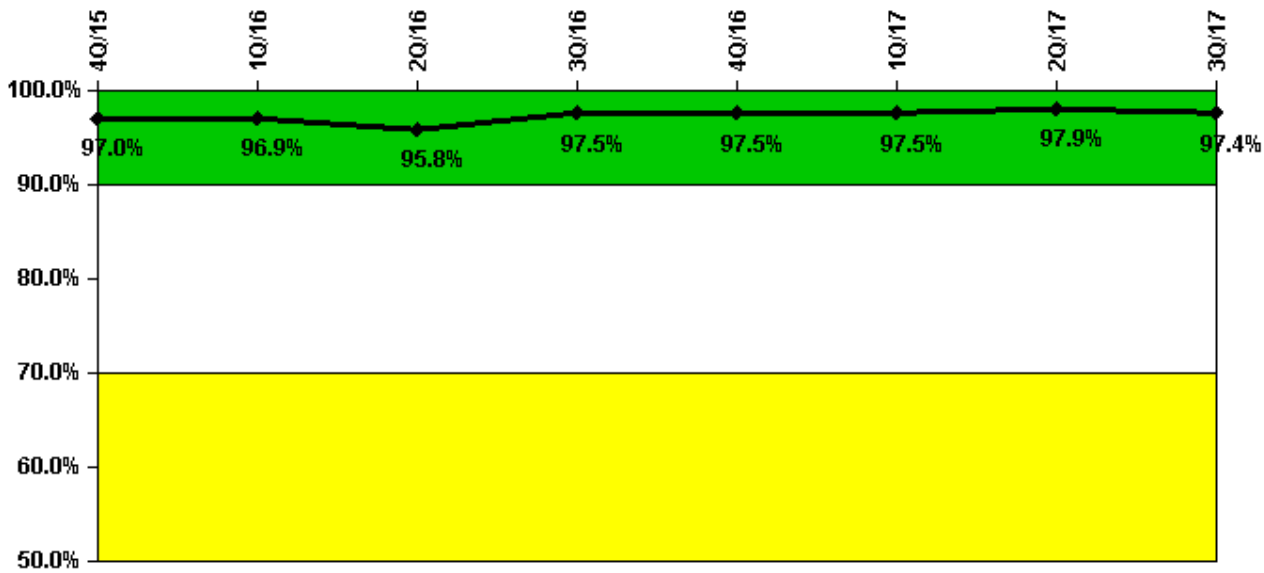
Reactor Coolant System Leakage	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	2.370	2.350	2.430	2.540	2.630	2.300	2.600	2.810	2.580	5.500	3.120	2.980
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0

<b>Indicator value</b>	<b>7.9</b>	<b>7.8</b>	<b>8.1</b>	<b>8.5</b>	<b>8.8</b>	<b>7.7</b>	<b>8.7</b>	<b>9.4</b>	<b>8.6</b>	<b>18.3</b>	<b>10.4</b>	<b>9.9</b>
Reactor Coolant System Leakage	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum leakage	0	0	0	2.020	2.860	2.970	2.720	2.780	2.810	2.650	3.140	0.400
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6.7</b>	<b>9.5</b>	<b>9.9</b>	<b>9.1</b>	<b>9.3</b>	<b>9.4</b>	<b>8.8</b>	<b>10.5</b>	<b>1.3</b>

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Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

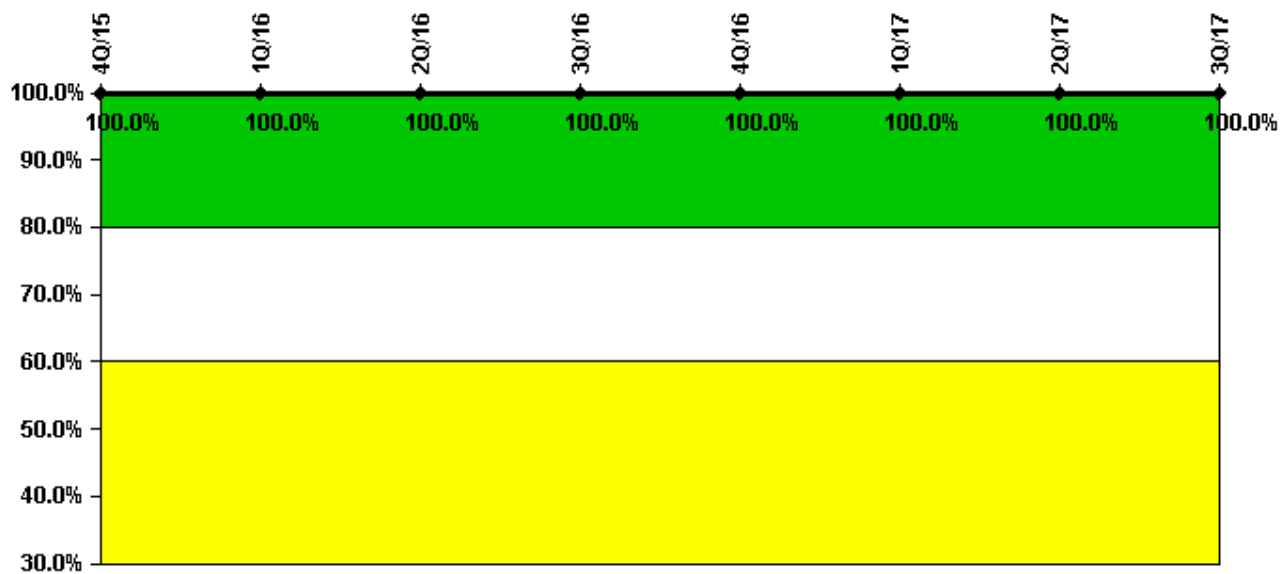
#### Notes

Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	51.0	0	29.0	143.0	62.0	13.0	12.0	25.0
Total opportunities	53.0	0	32.0	144.0	62.0	14.0	12.0	27.0
<b>Indicator value</b>	<b>97.0%</b>	<b>96.9%</b>	<b>95.8%</b>	<b>97.5%</b>	<b>97.5%</b>	<b>97.5%</b>	<b>97.9%</b>	<b>97.4%</b>

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Licensee Comments: none

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

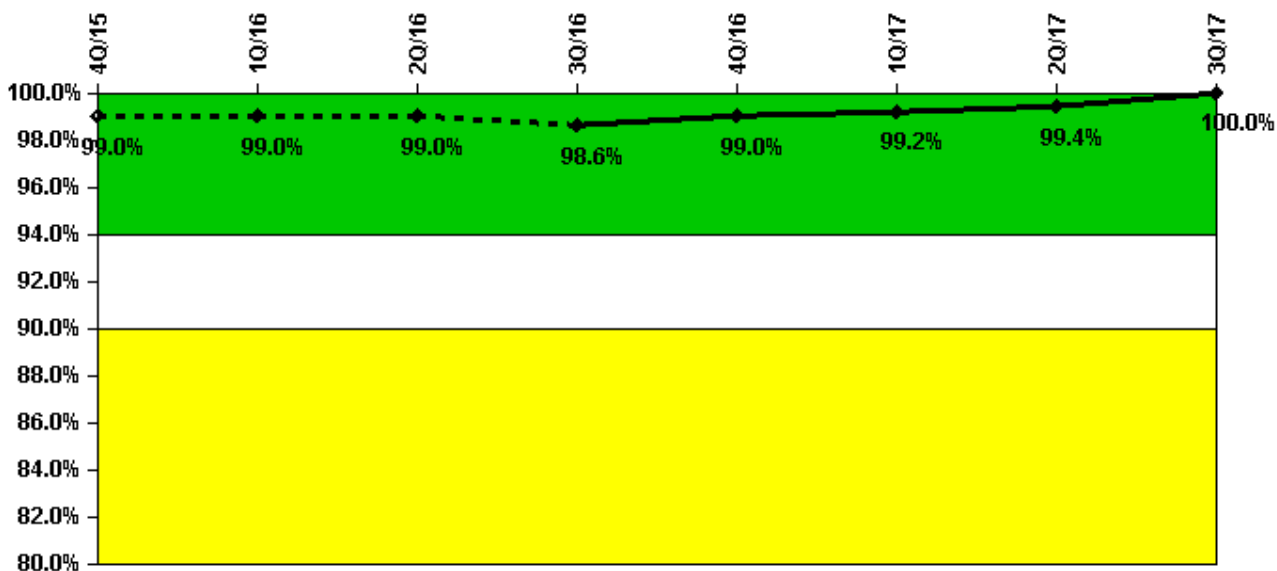
#### Notes

ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	68.0	64.0	67.0	44.0	50.0	42.0	41.0	41.0
Total Key personnel	68.0	64.0	67.0	44.0	50.0	42.0	41.0	41.0
<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>

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Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	127	127	128	126	129	129	127	129
Total sirens-tests	129	128	129	129	129	129	127	129

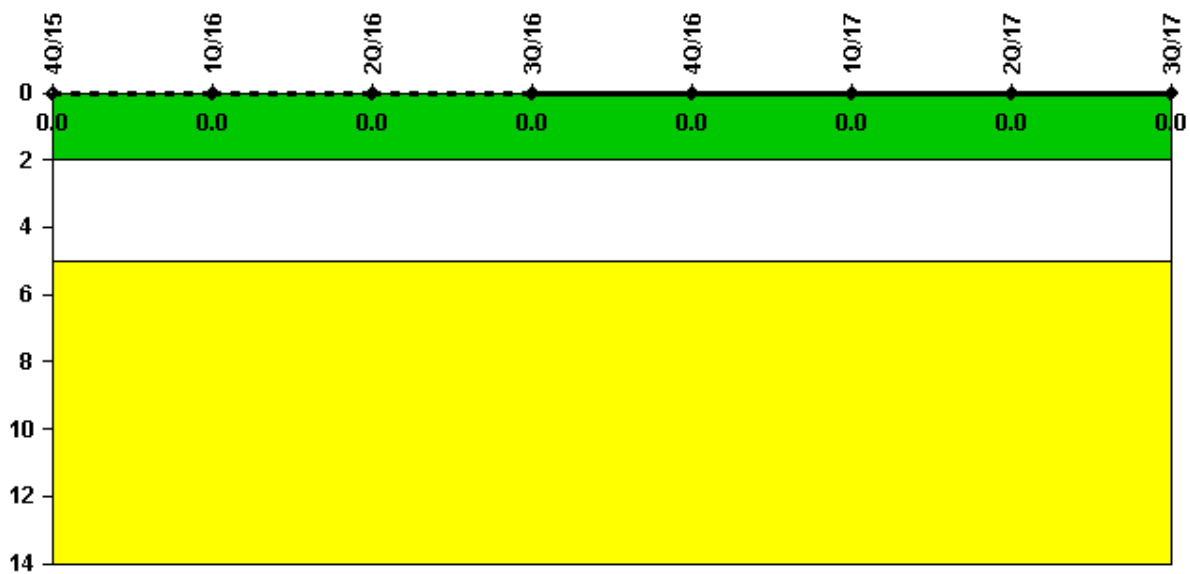
**Indicator value**                    **99.0% 99.0% 99.0% 98.6% 99.0% 99.2% 99.4% 100.0%**

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Licensee Comments: none



### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

**Notes**

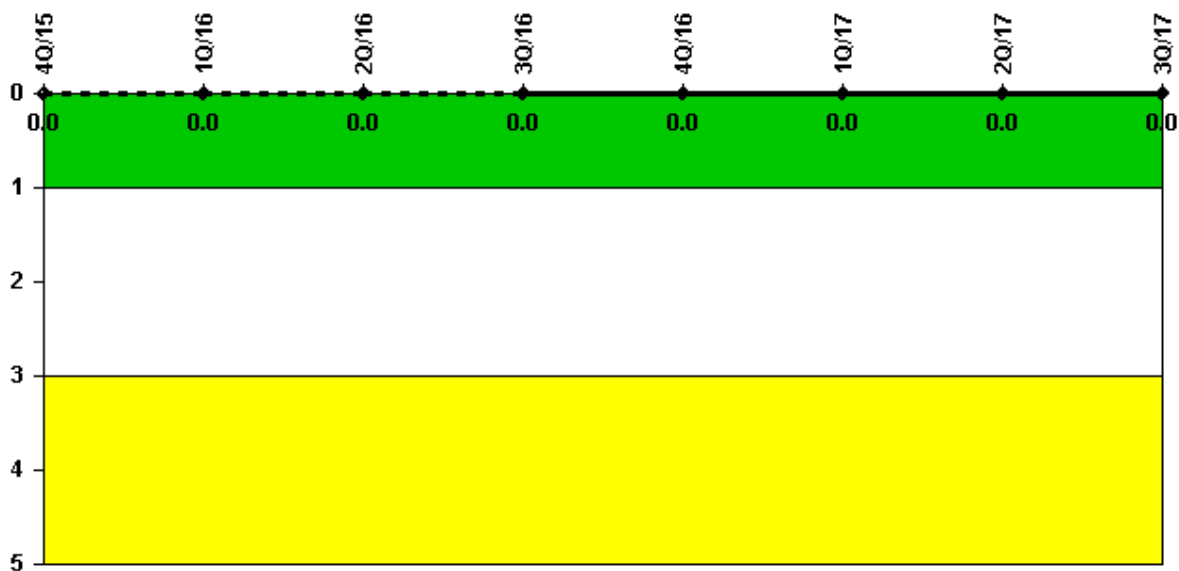
**Occupational Exposure Control Effectiveness** 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

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>

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Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: October 31, 2017

*Page Last Reviewed/Updated Monday, November 06, 2017*

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[Home](#) > [Nuclear Reactors](#) > [Operating Reactors](#) > [Reactor Oversight Process](#) > [Plant Summaries](#) > [Grand Gulf 1](#) > [Quarterly Performance Indicators](#)

## Grand Gulf 1 – Quarterly Performance Indicators

### 4Q/2017 Performance Indicators

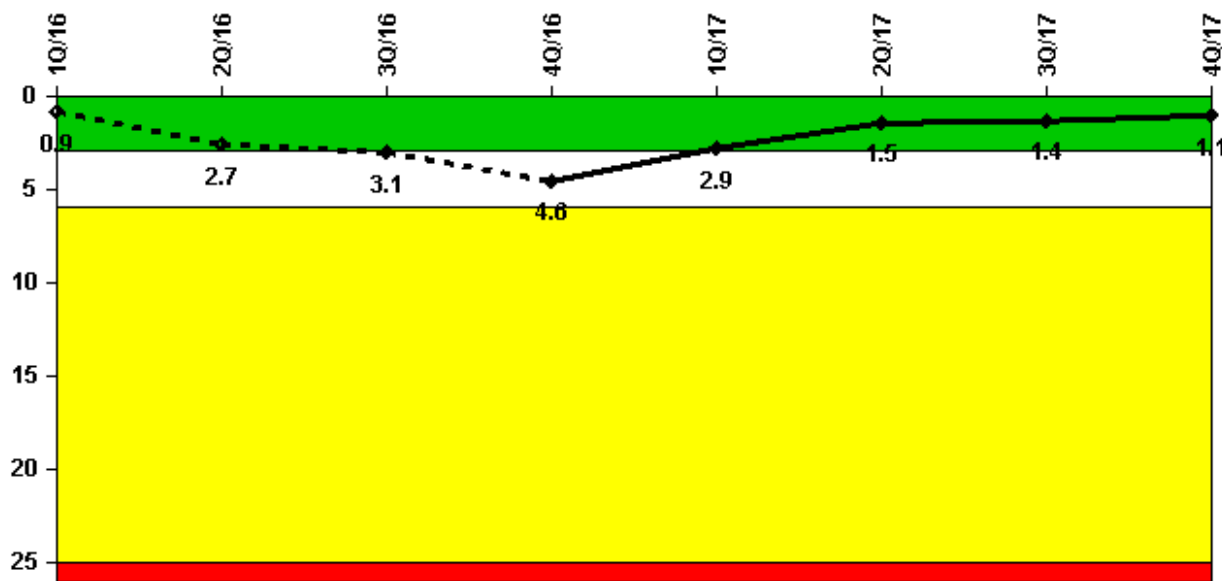
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- [Unplanned Scrams \(IE01\)](#)
- [Unplanned Power Changes per 7000 Critical Hours \(IE03\)](#)
- [Unplanned Scrams with Complications \(IE04\)](#)
- [Safety System Functional Failures \(MS05\)](#)
- [Emergency AC Power Systems \(MS06\)](#)
- [High Pressure Injection Systems \(MS07\)](#)
- [Heat Removal Systems \(MS08\)](#)
- [Residual Heat Removal Systems \(MS09\)](#)
- [Cooling Water Systems \(MS10\)](#)
- [Reactor Coolant System Activity \(BI01\)](#)
- [Reactor Coolant System Leakage \(BI02\)](#)
- [Drill/Exercise Performance \(EP01\)](#)
- [Emergency Response Organization Drill Participation \(EP02\)](#)
- [Alert and Notification System Reliability \(EP03\)](#)
- [Occupational Exposure Control Effectiveness \(OR01\)](#)
- [RETS/OCDM Radiological Effluent Occurrence \(PR01\)](#)
- [Protected Area Equipment \(PP01\)](#)

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

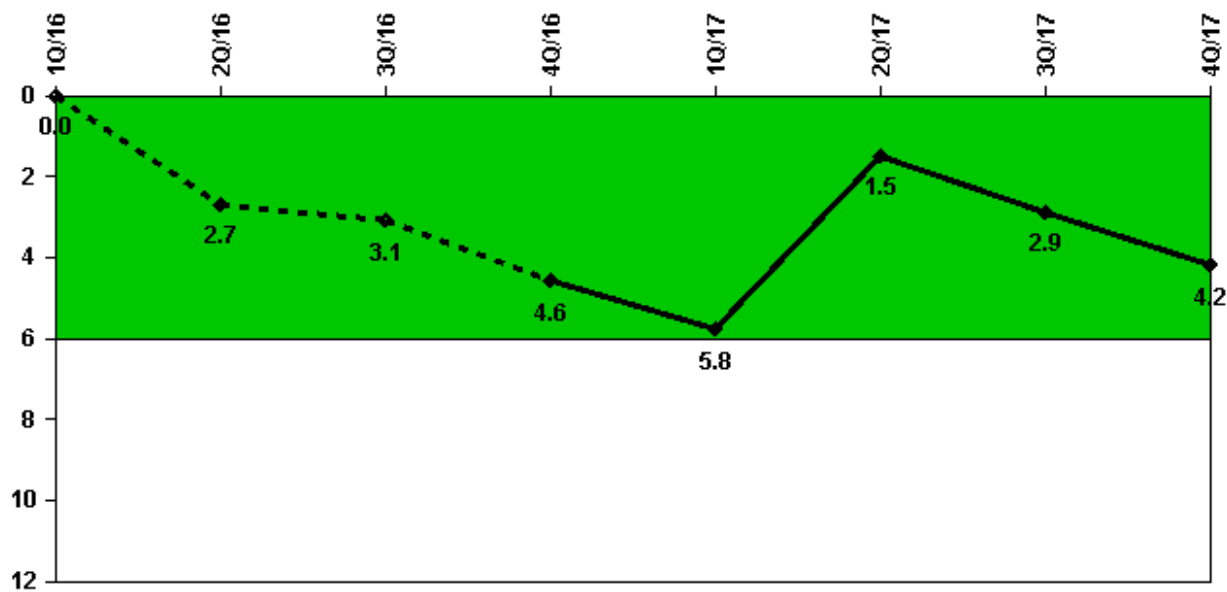
#### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	1.0	2.0	0	0	0	1.0	0	0
Critical hours	1315.9	2010.2	1276.3	0	1516.3	1934.2	1447.3	1710.6
<b>Indicator value</b>	<b>0.9</b>	<b>2.7</b>	<b>3.1</b>	<b>4.6</b>	<b>2.9</b>	<b>1.5</b>	<b>1.4</b>	<b>1.1</b>

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Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

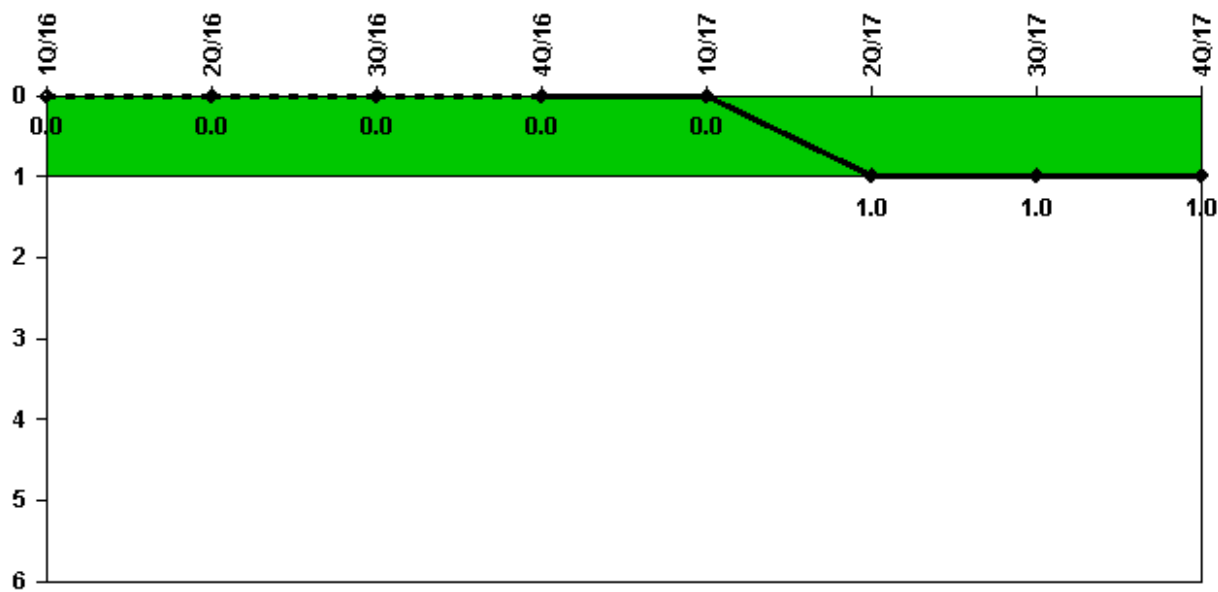
Unplanned Power Changes per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned power changes	0	3.0	0	0	1.0	0	1.0	2.0
Critical hours	1315.9	2010.2	1276.3	0	1516.3	1934.2	1447.3	1710.6
<b>Indicator value</b>	<b>0</b>	<b>2.7</b>	<b>3.1</b>	<b>4.6</b>	<b>5.8</b>	<b>1.5</b>	<b>2.9</b>	<b>4.2</b>

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#### Licensee Comments:

4Q/16: Entergy submitted an FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 3Q/16: Entergy will submit a FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 3Q/16: Entergy will submit a FAQ to document it's position on the June 17, 2016 power oscillation and SCRAM.  
 2Q/16: Entered 3 power changes upon resolution of FAQ-17-02 for June 17, 2016 power oscillation event. Entered after FAQ resolution on 5/18/2017.

### Unplanned Scrams with Complications



Thresholds: White > 1.0

#### Notes

#### Unplanned Scrams with Complications 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

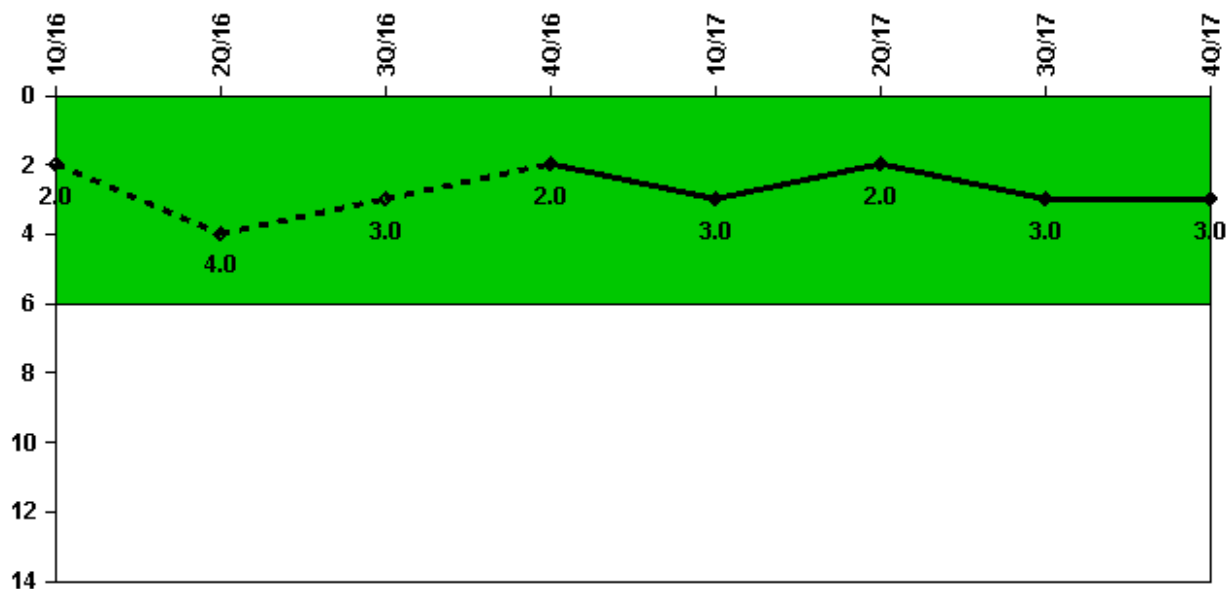
Scrams with complications 0 0 0 0 0 1.0 0 0

Indicator value 0.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0

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Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

#### Notes

#### Safety System Functional Failures (BWR) 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

Safety System Functional Failures	0	2	0	0	1	1	1	0
<b>Indicator value</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>

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#### Licensee Comments:

3Q/17: LER 2016-009-01 removed SSFF for Jan 2017

2Q/17: LER 2017-002-00, submitted on 4/25/2017

1Q/17: LER 2016-009-00, OPRM Upscale Settings incorrectly set

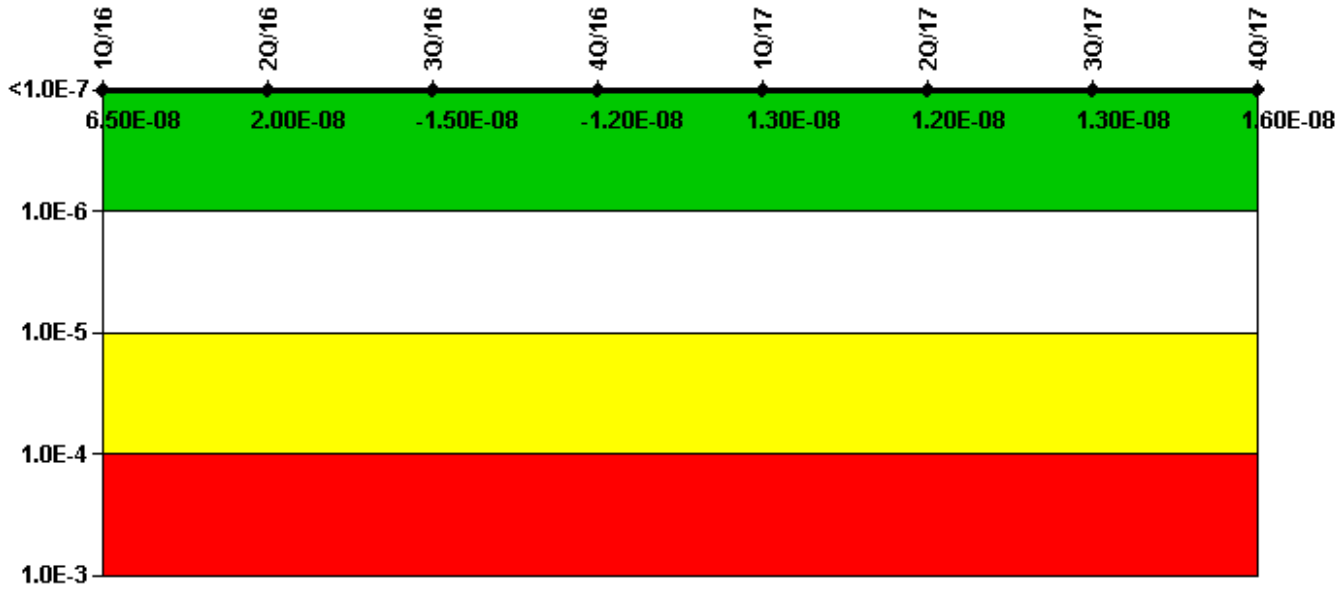
1Q/17: LER 2016-009-01, OPRM Upscale Settings incorrectly set removed SSFF

3Q/16: Changed comments in 4Q15 PI comments to correct typographical error

2Q/16: Reference LERs 2016-001-00 & 2016-003-00



### Mitigating Systems Performance Index, Emergency AC Power System



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

**Notes**

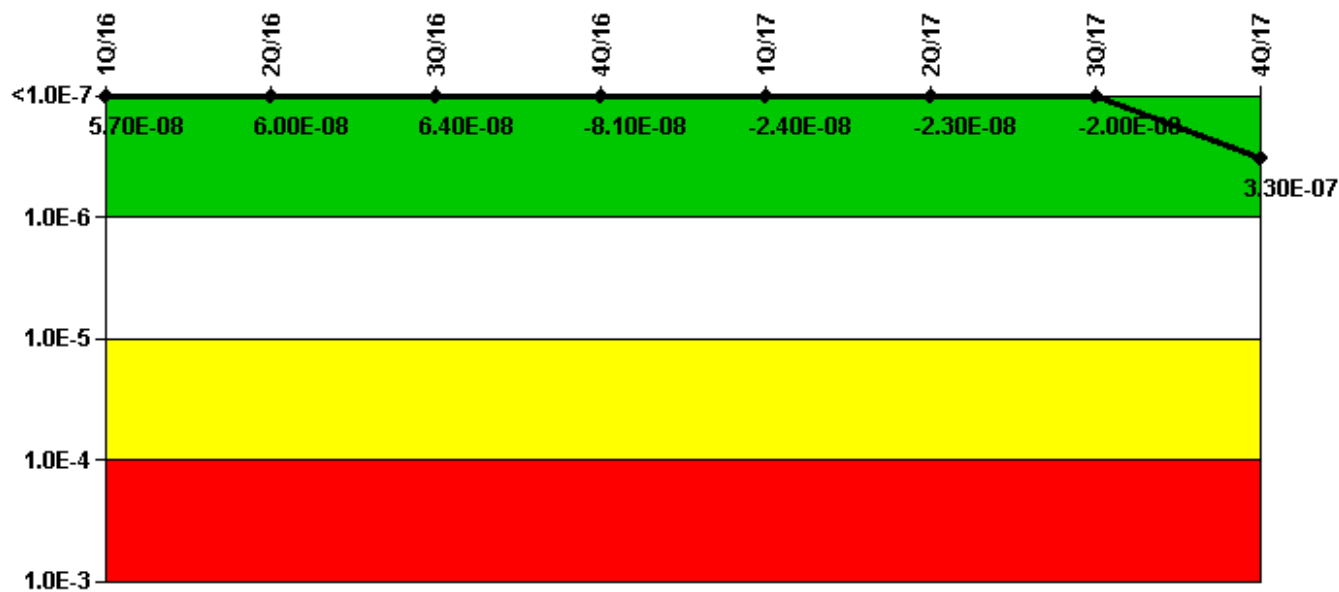
**Mitigating Systems Performance Index, Emergency AC Power System**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	1.44E-08	1.57E-09	-4.28E-10	2.24E-09	2.55E-08	2.36E-08	2.54E-08	3.39E-08
URI (ΔCDF)	5.01E-08	1.87E-08	-1.42E-08	-1.39E-08	-1.21E-08	-1.20E-08	-1.28E-08	-1.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>6.50E-08</b>	<b>2.00E-08</b>	<b>-1.50E-08</b>	<b>-1.20E-08</b>	<b>1.30E-08</b>	<b>1.20E-08</b>	<b>1.30E-08</b>	<b>1.60E-08</b>

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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**

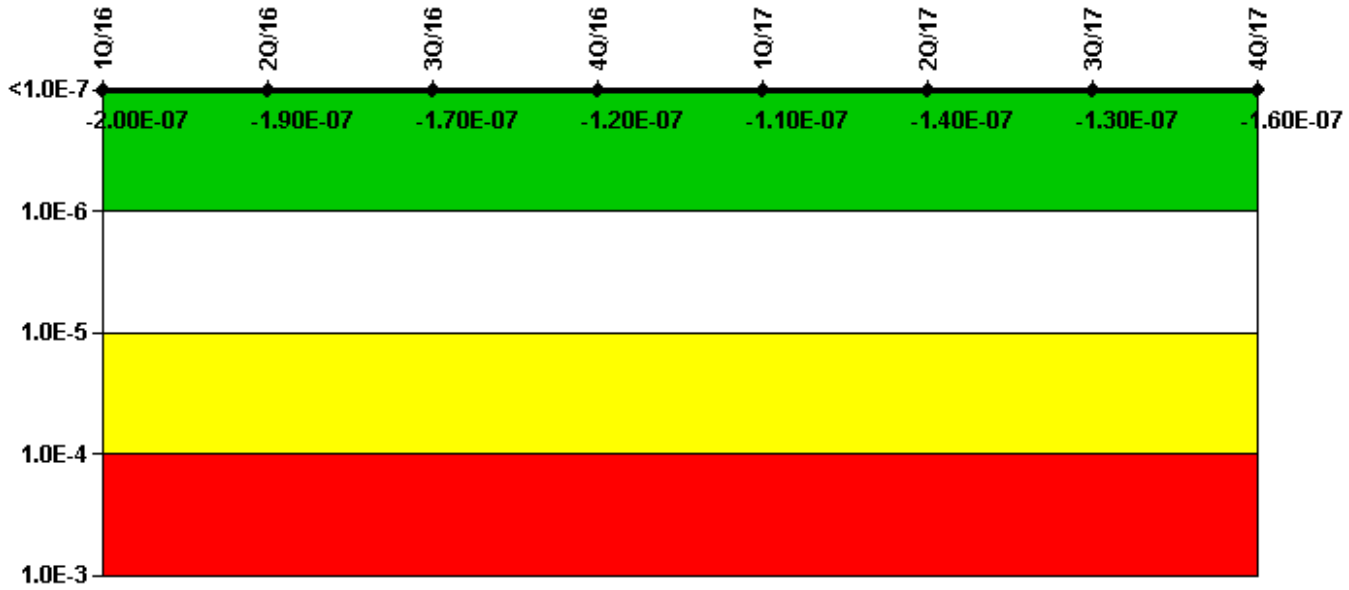
**Mitigating Systems Performance Index, High Pressure Injection System**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	1.33E-07	1.36E-07	1.35E-07	-1.30E-08	4.63E-08	4.71E-08	4.96E-08	4.02E-07
URI (ΔCDF)	-7.69E-08	-7.59E-08	-7.04E-08	-6.83E-08	-7.04E-08	-6.97E-08	-6.98E-08	-7.08E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>5.70E-08</b>	<b>6.00E-08</b>	<b>6.40E-08</b>	<b>-8.10E-08</b>	<b>-2.40E-08</b>	<b>-2.30E-08</b>	<b>-2.00E-08</b>	<b>3.30E-07</b>

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Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



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

**Notes**

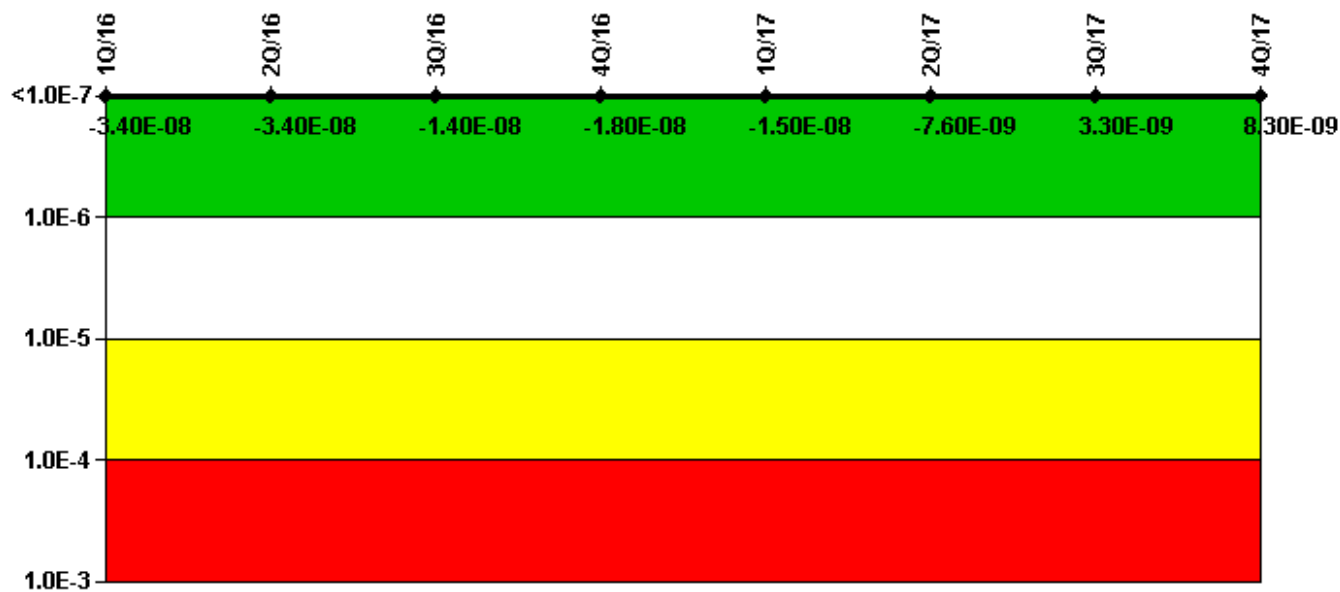
**Mitigating Systems Performance Index, Heat Removal System**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI ( $\Delta$ CDF)	-1.47E-08	-8.76E-09	5.45E-10	3.07E-08	2.42E-08	4.39E-09	2.04E-08	-1.21E-08
URI ( $\Delta$ CDF)	-1.85E-07	-1.79E-07	-1.69E-07	-1.55E-07	-1.30E-07	-1.47E-07	-1.47E-07	-1.46E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-2.00E-07</b>	<b>-1.90E-07</b>	<b>-1.70E-07</b>	<b>-1.20E-07</b>	<b>-1.10E-07</b>	<b>-1.40E-07</b>	<b>-1.30E-07</b>	<b>-1.60E-07</b>

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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**

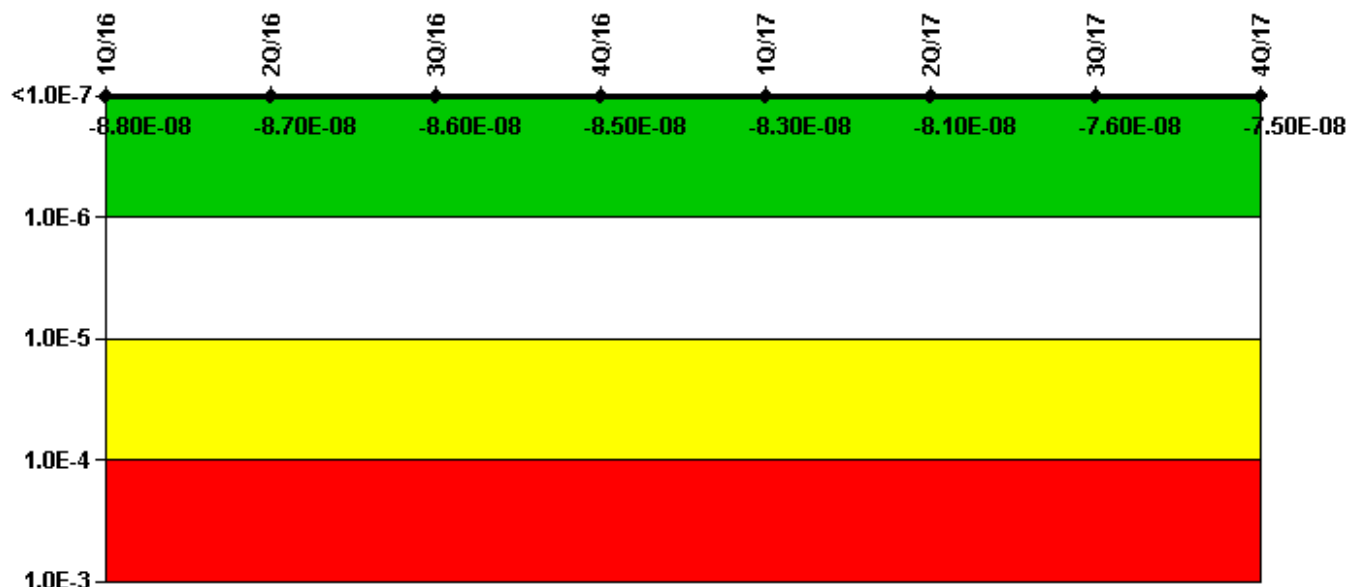
**Mitigating Systems Performance Index, Residual Heat Removal System**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-8.56E-09	-2.02E-09	9.02E-09	1.40E-08
URI (ΔCDF)	-2.57E-08	-2.55E-08	-5.16E-09	-9.11E-09	-5.98E-09	-5.58E-09	-5.75E-09	-5.71E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-3.40E-08</b>	<b>-3.40E-08</b>	<b>-1.40E-08</b>	<b>-1.80E-08</b>	<b>-1.50E-08</b>	<b>-7.60E-09</b>	<b>3.30E-09</b>	<b>8.30E-09</b>

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Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



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

#### Notes

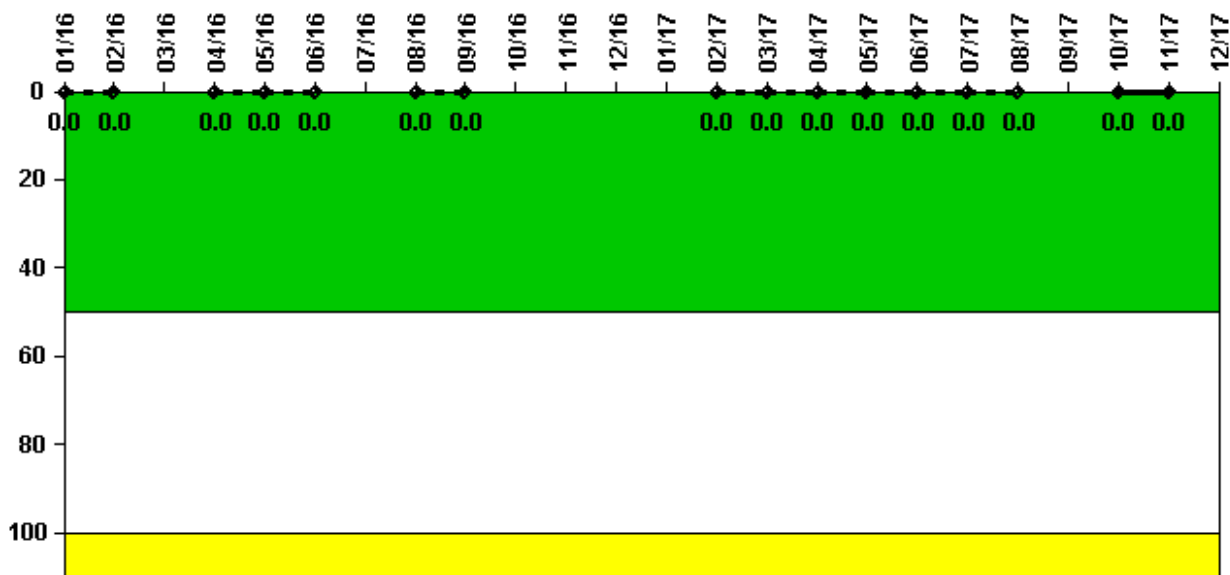
#### Mitigating Systems Performance Index, Cooling Water Systems

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI ( $\Delta$ CDF)	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	-1.71E-09	1.66E-09	2.35E-09
URI ( $\Delta$ CDF)	-8.68E-08	-8.54E-08	-8.47E-08	-8.36E-08	-8.10E-08	-7.94E-08	-7.73E-08	-7.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-8.80E-08</b>	<b>-8.70E-08</b>	<b>-8.60E-08</b>	<b>-8.50E-08</b>	<b>-8.30E-08</b>	<b>-8.10E-08</b>	<b>-7.60E-08</b>	<b>-7.50E-08</b>

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Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000069	0.000053	N/A	0.000013	0.000009	0.000005	N/A	0.000048	0.000020	N/A	N/A	N/A
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	N/A	0	0	0	N/A	0	0	N/A	N/A	N/A

Reactor Coolant System Activity	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum activity	N/A	0.000052	0.000013	0.000015	0.000012	0.000052	0.000002	0.000021	N/A	0.000062	0.000057	N/A
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	N/A	0	0	0	0	0	0	0	N/A	0	0	N/A

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#### Licensee Comments:

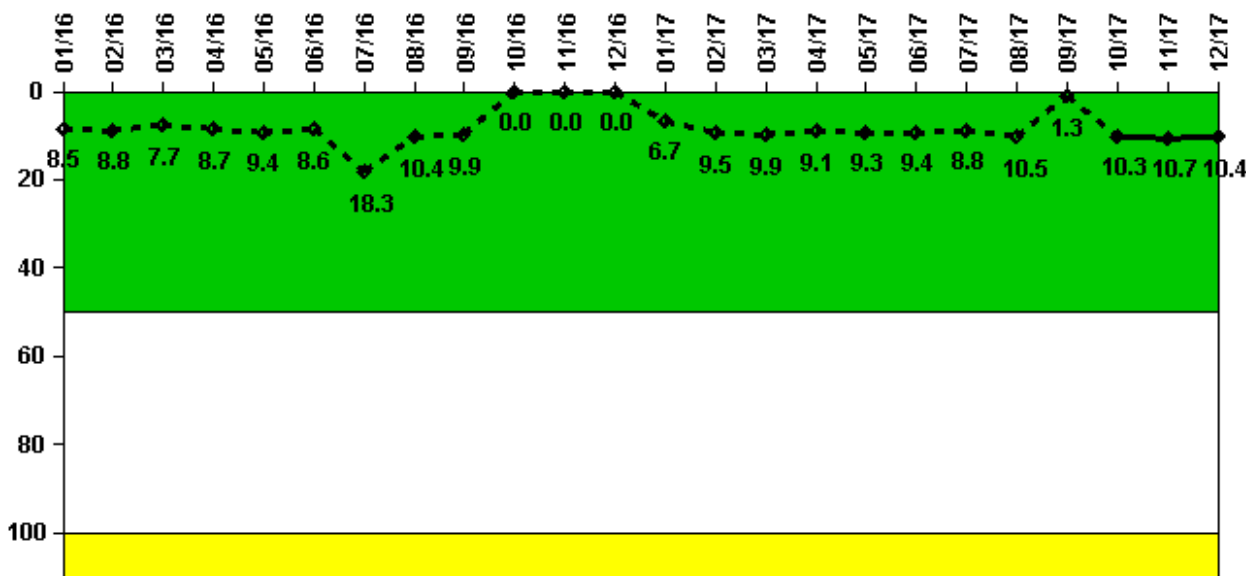
12/17: Max I-131 activity for 2017-12 changed to NA as unit was not at steady state for duration of period. PAS  
 12/16: Corrected typographical error in May Data. Changed Maximum I-131 to 9.35E-6 from 9.35E-5. CR-GGN-2016-

09779.

6/16: Corrected typographical error in may data. Changed Maximum I-131 to 9.35E-6 from 9.35E-5. CR-GGN-2016-09779

3/16: For March 2016 the unit did not obtain a stable state power condition

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	2.540	2.630	2.300	2.600	2.810	2.580	5.500	3.120	2.980	0	0	0
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0

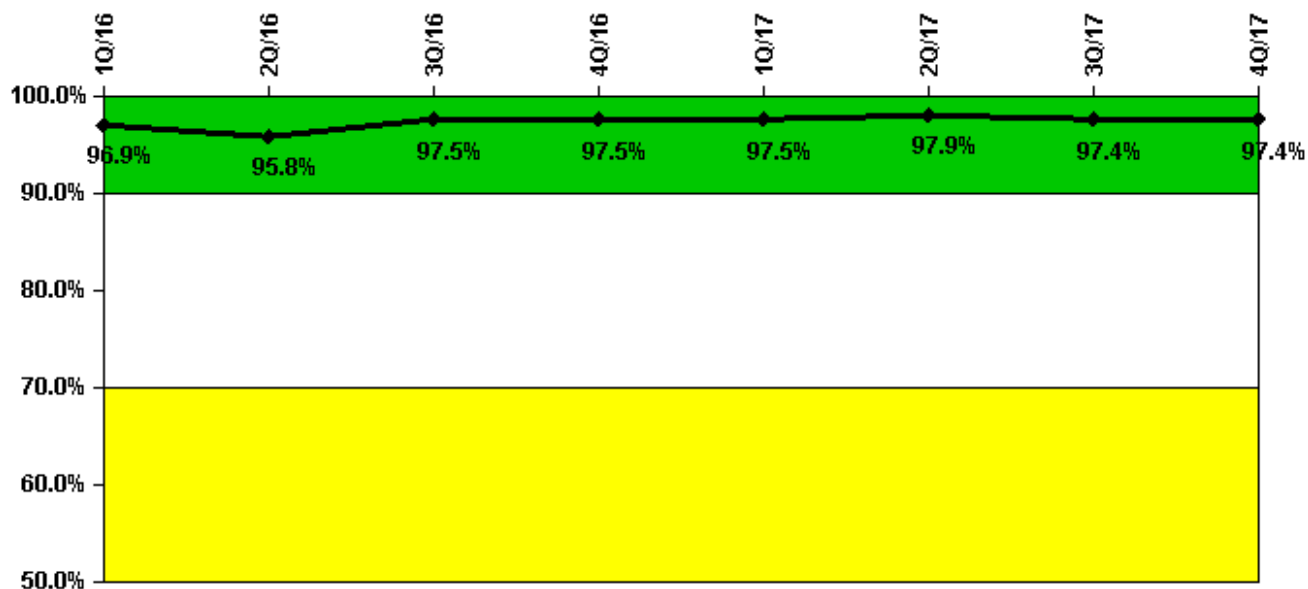
Reactor Coolant System Leakage	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Indicator value	8.5	8.8	7.7	8.7	9.4	8.6	18.3	10.4	9.9	0	0	0
Maximum leakage	2.020	2.860	2.970	2.720	2.780	2.810	2.650	3.140	0.400	3.100	3.220	3.120
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0

Indicator value	6.7	9.5	9.9	9.1	9.3	9.4	8.8	10.5	1.3	10.3	10.7	10.4
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Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	0	29.0	143.0	62.0	13.0	12.0	25.0	19.0
Total opportunities	0	32.0	144.0	62.0	14.0	12.0	27.0	20.0

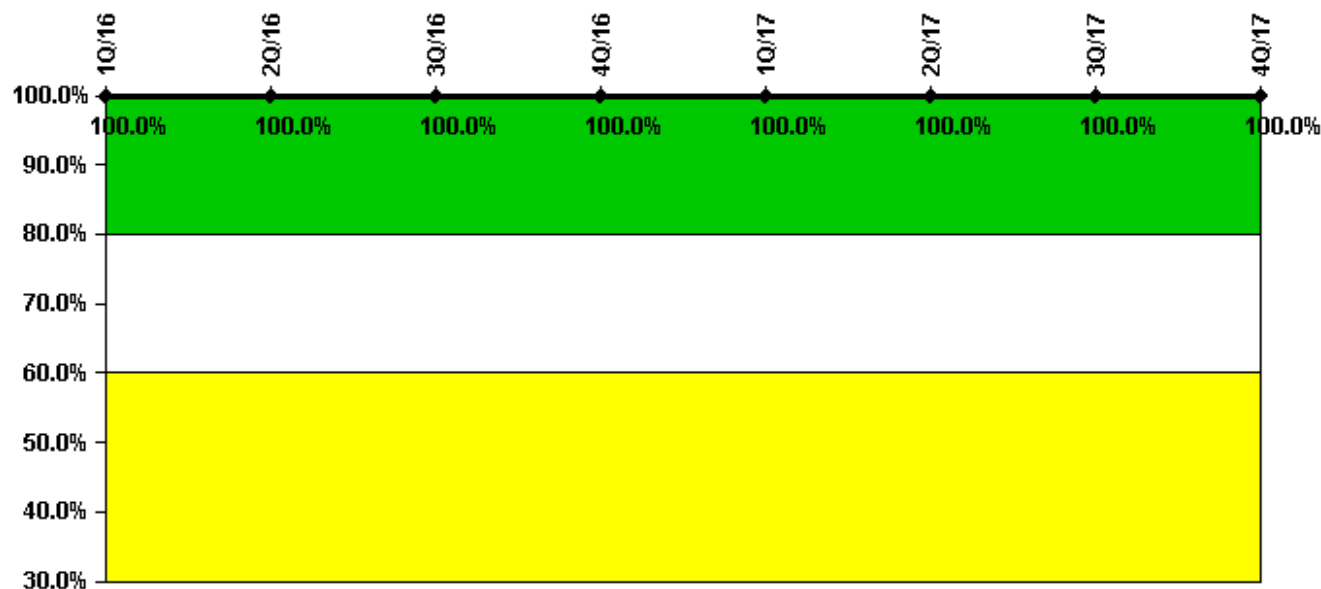
Indicator value                    96.9% 95.8% 97.5% 97.5% 97.5% 97.9% 97.4% 97.4%

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Licensee Comments: none



### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

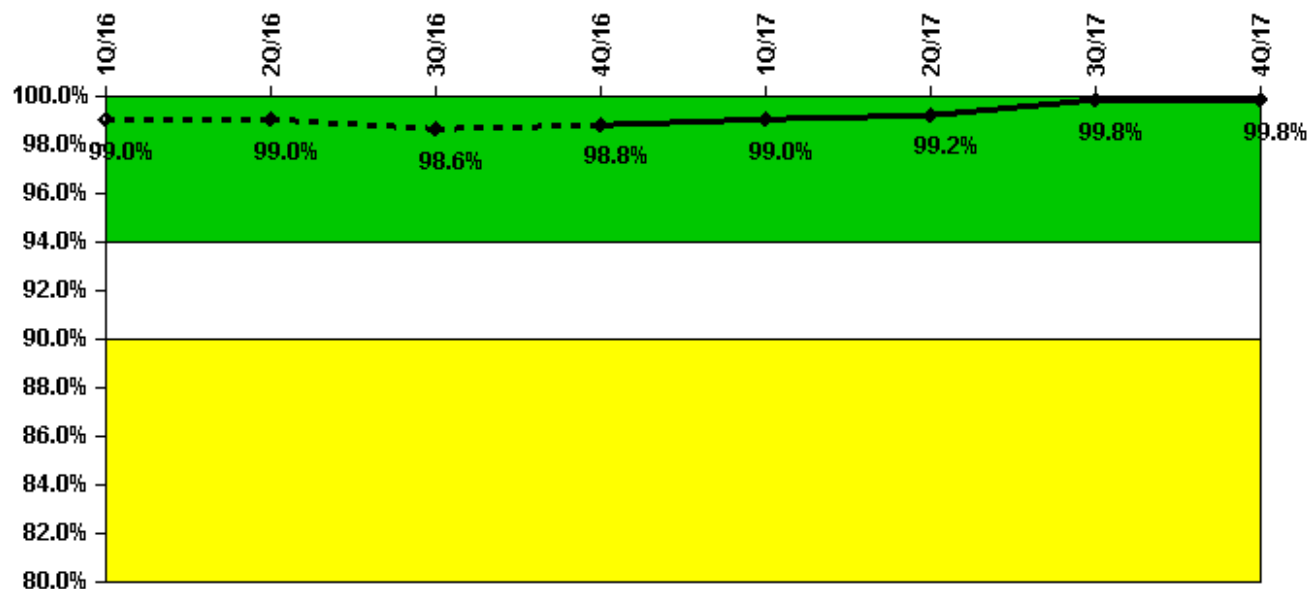
ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	64.0	67.0	44.0	50.0	42.0	44.0	43.0	42.0
Total Key personnel	64.0	67.0	44.0	50.0	42.0	44.0	43.0	42.0

**Indicator value**                    **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

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Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	127	128	126	128	129	84	129	128
Total sirens-tests	128	129	129	129	129	84	129	129

**Indicator value**                    **99.0% 99.0% 98.6% 98.8% 99.0% 99.2% 99.8% 99.8%**

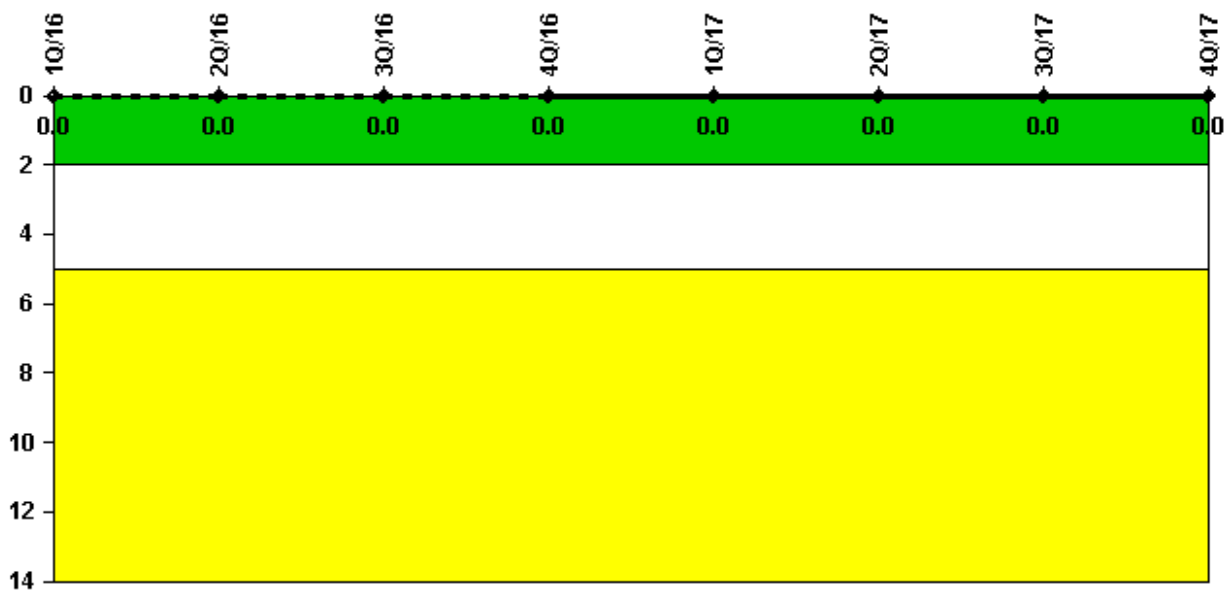
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#### Licensee Comments:

4Q/17: Siren MCD in CC failed to activate. Repairs made immediately, CR-GGN-2017-12113.

2Q/17: Sirens were not tested in May by direction of Tensas Parish and Clairborne County Emergency Management. Sirens MAD and LEB were removed from service by direction of Tensas Parish and Claiborne County Emergency Management

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

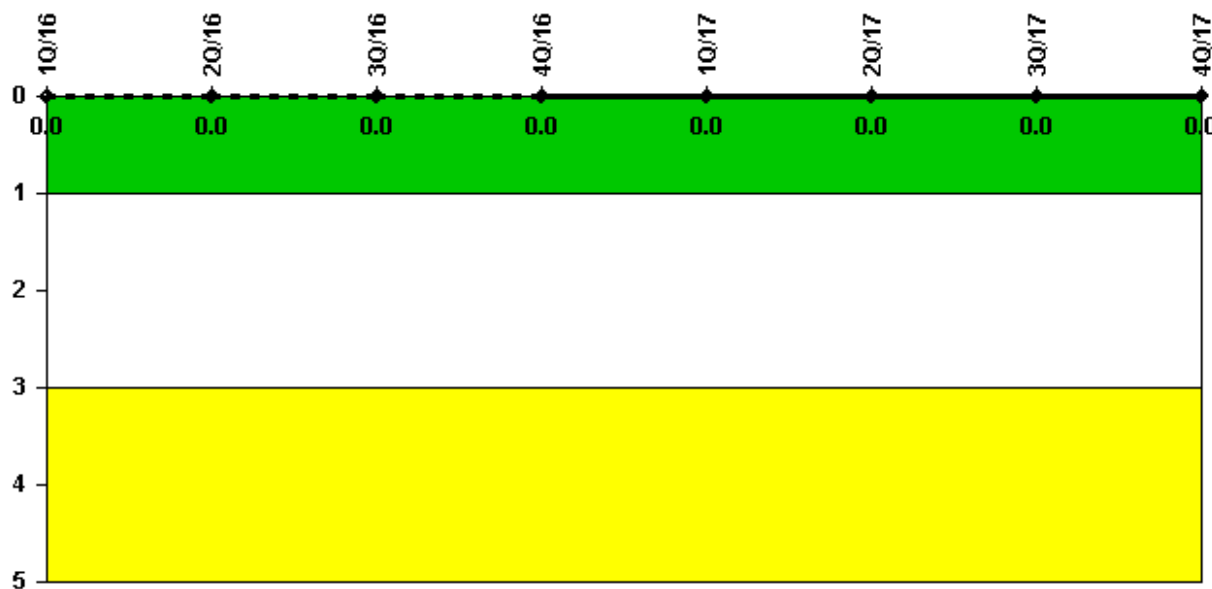
**Notes**

Occupational Exposure Control Effectiveness	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
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>

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Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: February 1, 2018

*Page Last Reviewed/Updated Monday, November 06, 2017*