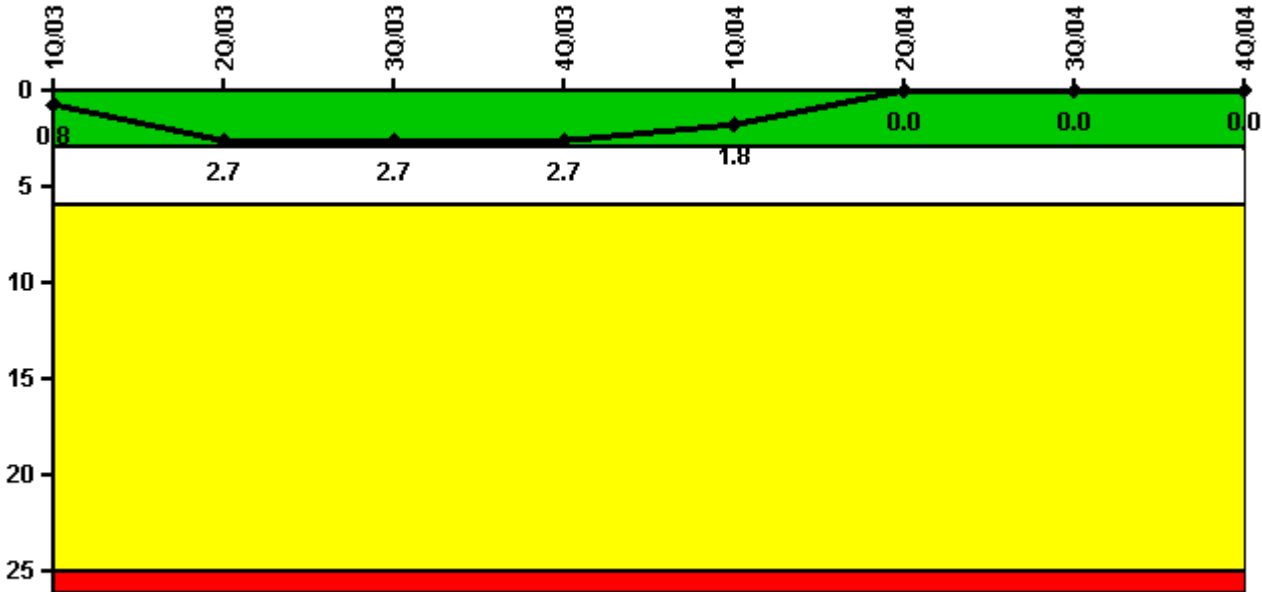


# Pilgrim 1

## 4Q/2004 Performance Indicators

Licensee's General Comments: Pilgrim Station PI data for 4Q-2004.

### 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	2.0	0	0	0	0	0	0
Critical hours	1971.0	1519.0	2188.0	1984.0	2138.6	2183.0	2208.0	2209.0
Indicator value	0.8	2.7	2.7	2.7	1.8	0	0	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



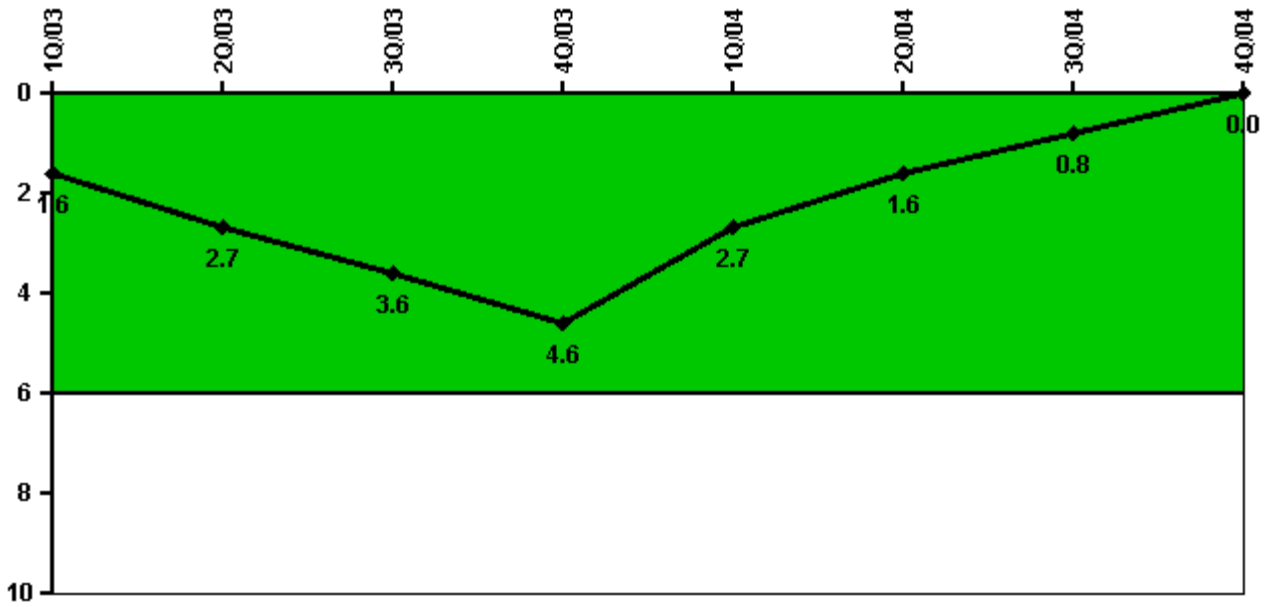
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	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	0	0	0	0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



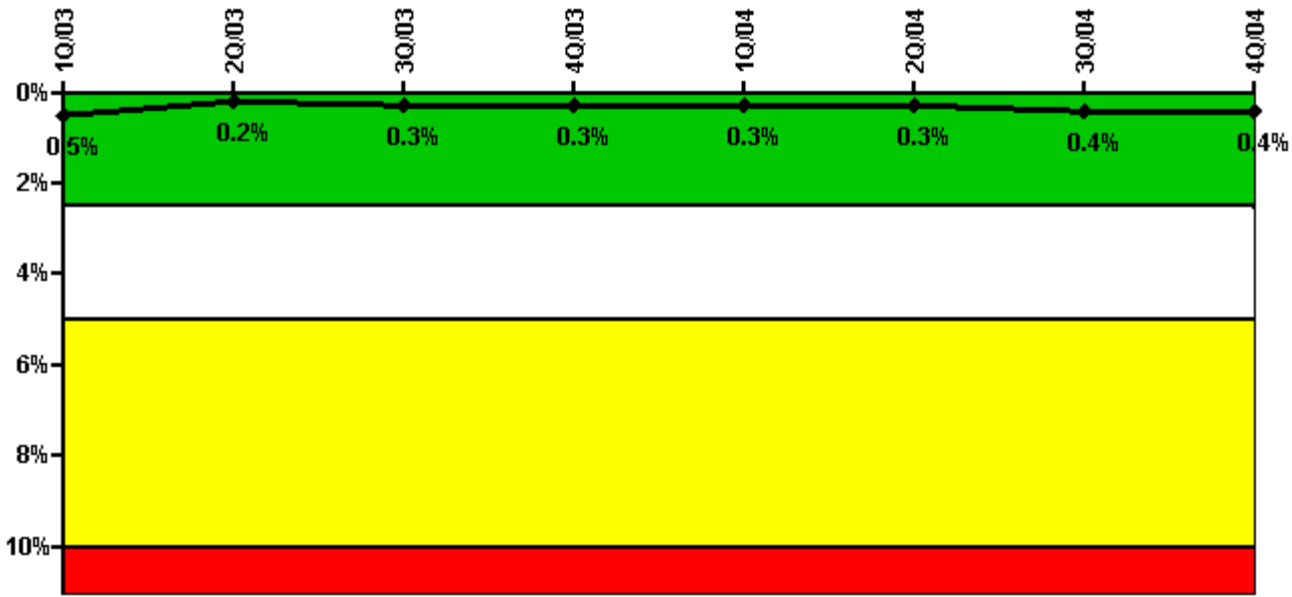
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	2.0	1.0	1.0	1.0	0	0	0	0
Critical hours	1971.0	1519.0	2188.0	1984.0	2138.6	2183.0	2208.0	2209.0
Indicator value	1.6	2.7	3.6	4.6	2.7	1.6	0.8	0

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



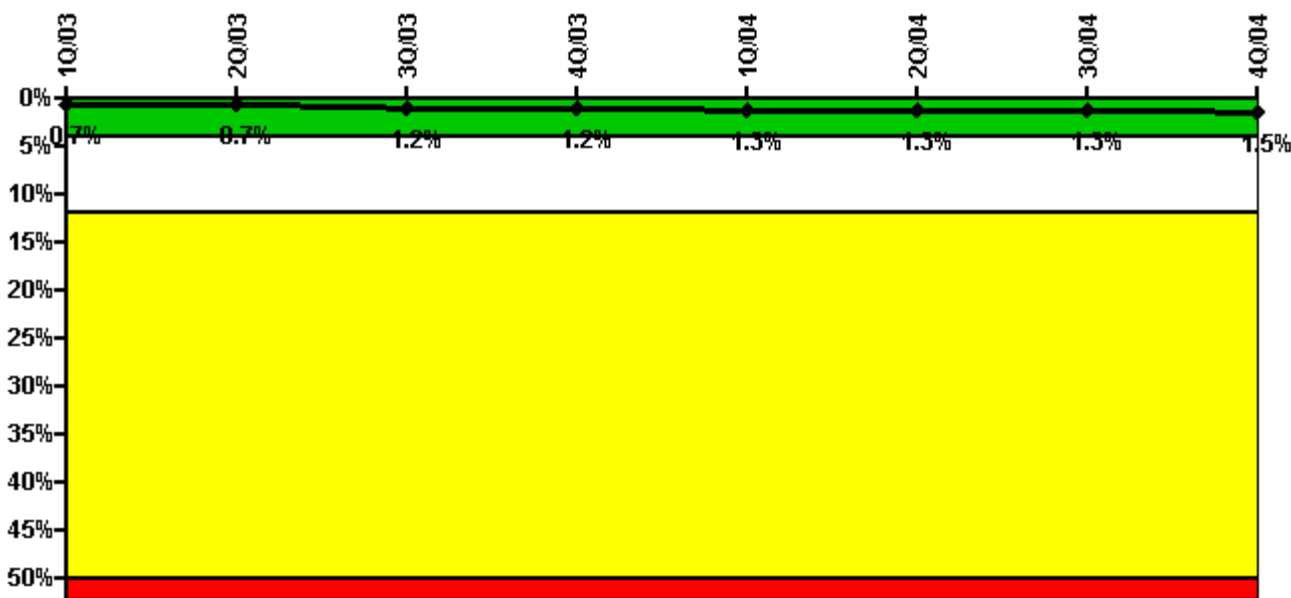
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Emergency AC Power	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	1.01	1.58	1.58	11.34	5.60	2.11	2.98	0.76
Unplanned unavailable hours	0	0	21.08	0	1.50	0	0	0.53
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2058.00	1570.00	2202.70	1983.00	2184.00	2184.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	0.80	0.91	2.51	17.43	2.59	1.02	9.65	8.20
Unplanned unavailable hours	13.72	0	0.50	0	7.70	0.50	9.06	26.83
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2058.00	1570.00	2202.70	1983.00	2184.00	2184.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.5%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.4%</b>

Licensee Comments: none

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



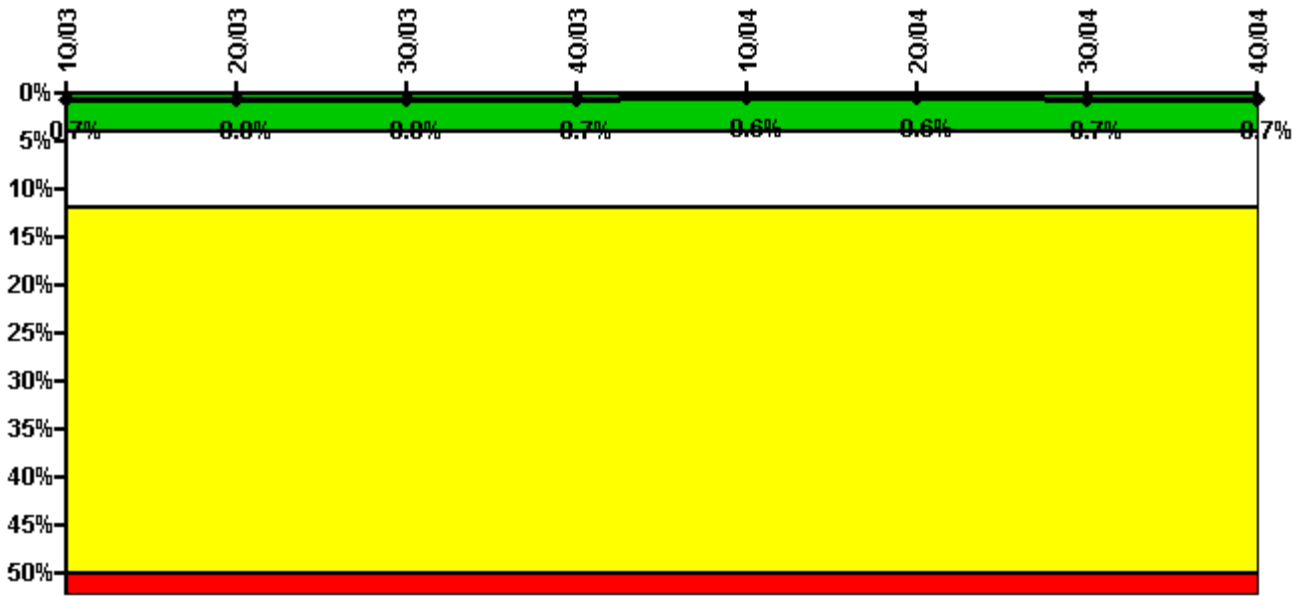
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	0.35	11.15	24.86	0.90	47.58	6.40	10.41	61.46
Unplanned unavailable hours	0	0	155.60	0	0	0	0	5.22
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2000.75	1590.54	2200.60	1980.00	2140.00	2184.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.7%</b>	<b>1.2%</b>	<b>1.2%</b>	<b>1.3%</b>	<b>1.3%</b>	<b>1.3%</b>	<b>1.5%</b>

Licensee Comments: none

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



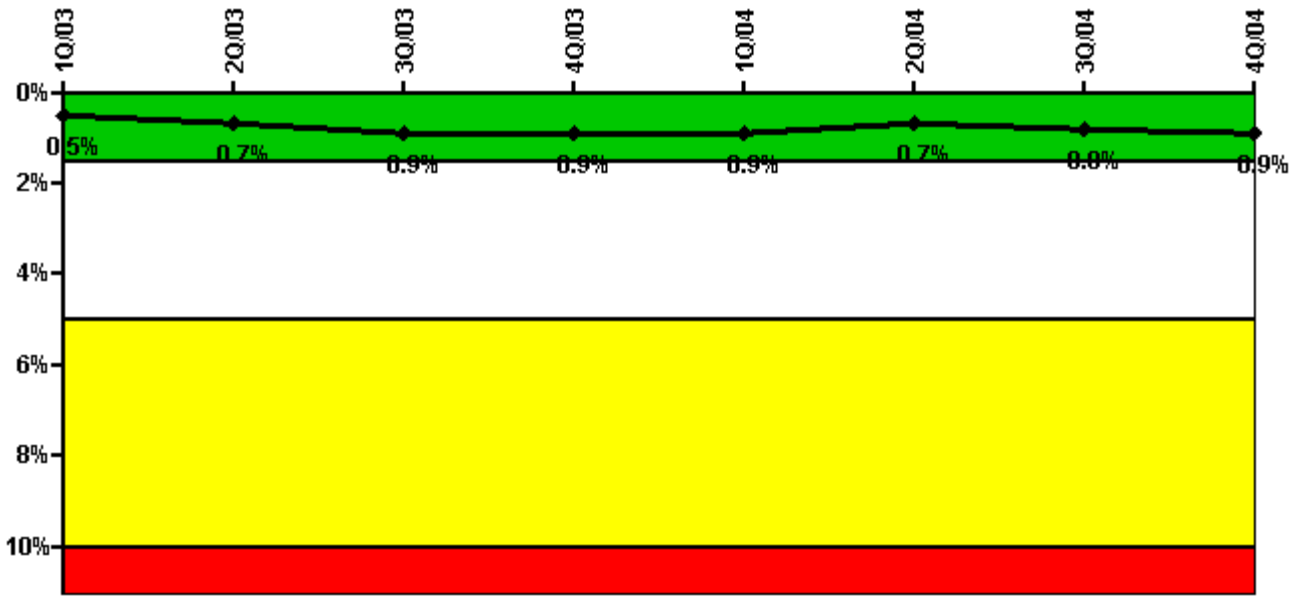
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	19.48	9.74	25.29	4.88	3.18	4.93	34.14	21.41
Unplanned unavailable hours	0	0	0	0	0	0	9.72	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	2000.75	1590.54	2200.60	1980.00	2140.00	2184.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.7%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



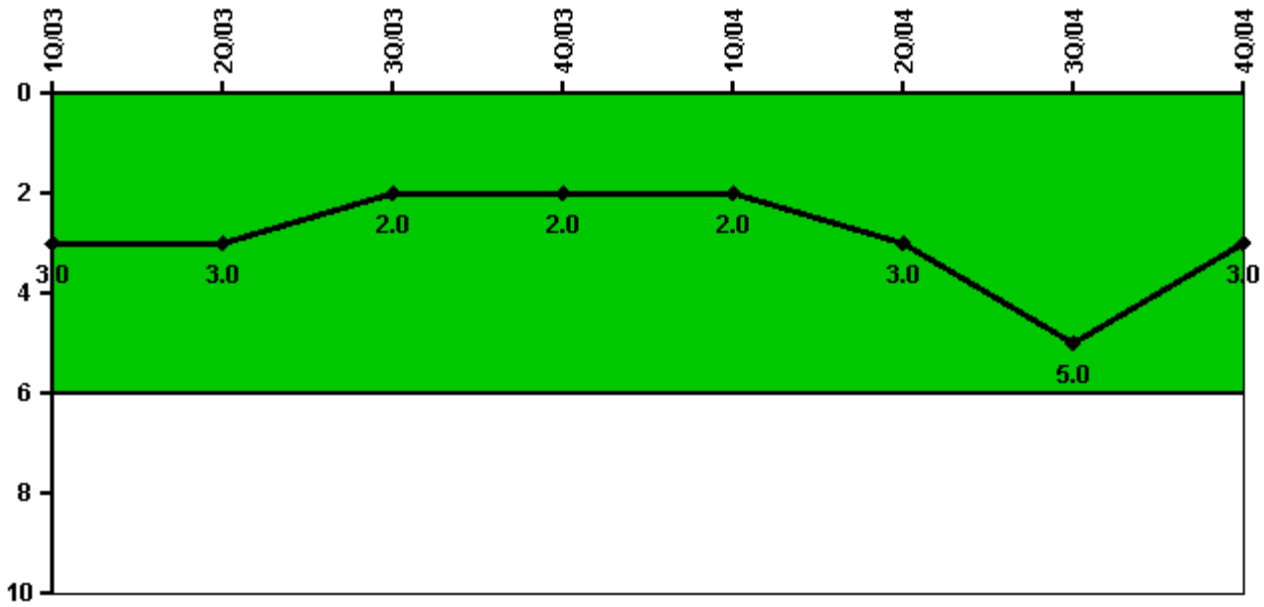
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
<b>Train 1</b>								
Planned unavailable hours	0	109.45	21.09	13.65	1.50	5.62	14.12	16.82
Unplanned unavailable hours	59.20	0	54.59	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	2184.00	2208.00	2209.00
<b>Train 2</b>								
Planned unavailable hours	0	0	0	13.72	17.68	0.82	18.48	28.28
Unplanned unavailable hours	12.80	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	2184.00	2208.00	2209.00
<b>Indicator value</b>	<b>0.5%</b>	<b>0.7%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.9%</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

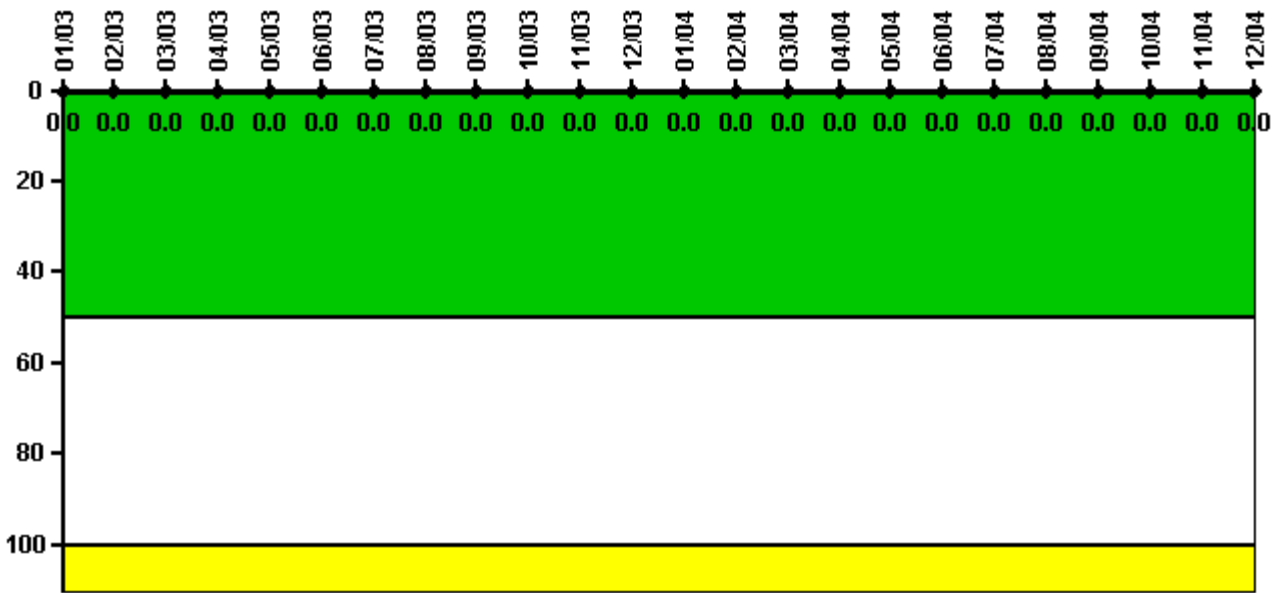
Safety System Functional Failures (BWR)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Safety System Functional Failures	0	0	0	2	0	1	2	0
Indicator value	3	3	2	2	2	3	5	3

Licensee Comments:

4Q/04: Reflects LERs submitted in the last 4 quarters: LER 2004-003 (HPC) that was submitted on 4/26/04, LER 2004-004-00 (RCIC) that was submitted on 9/28/04, and LER 2004-005-00 (SGTS) that was submitted on 9/29/04.



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

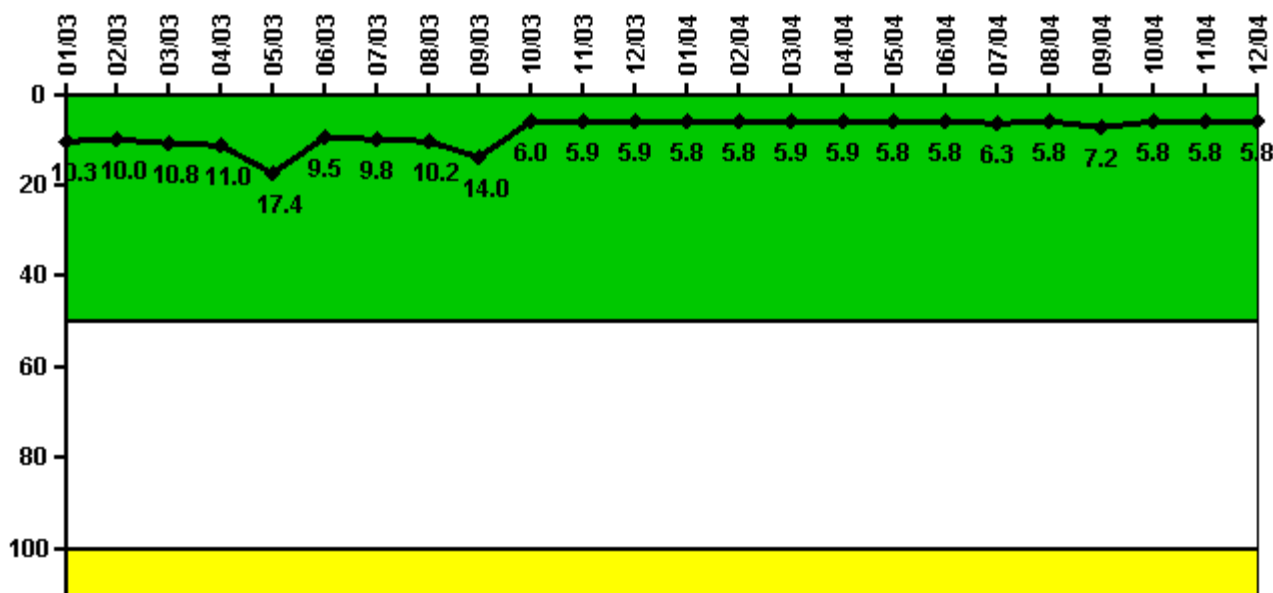
**Notes**

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	0.004520	0.003160	0.003040	0.002970	0.002360	0.005000	0.005000	0.004350	0.003780	0.004690	0.004120	0.003900
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
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	0.003930	0.003840	0.003430	0.003610	0.004280	0.003400	0.003470	0.003500	0.003320	0.003430	0.003610	0.003100
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments:

12/04: Indicates reactor coolant activity, expressed as a percentage of the Technical Specifications limit for Iodine. Technical Specifications do not specify a limit for Iodine-131.

### 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	2.570	2.500	2.710	2.750	4.340	2.370	2.440	2.540	3.510	1.500	1.470	1.470
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	10.3	10.0	10.8	11.0	17.4	9.5	9.8	10.2	14.0	6.0	5.9	5.9

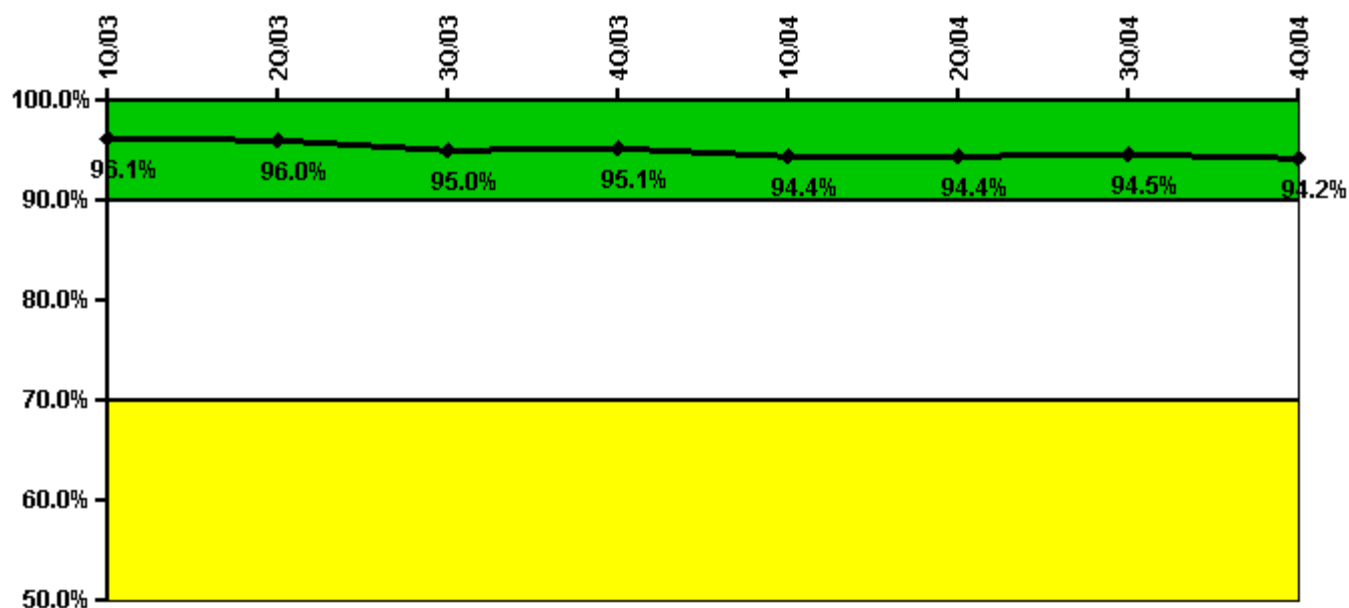
  

Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	1.460	1.460	1.470	1.480	1.460	1.460	1.580	1.450	1.790	1.460	1.450	1.460
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	5.8	5.8	5.9	5.9	5.8	5.8	6.3	5.8	7.2	5.8	5.8	5.8

Licensee Comments:

12/04: Indicates maximum total leakage (identified and un-identified) in gpm for each month, expressed as a percentage of the Technical Specifications limit. Technical Specifications specify un-identified and total leakage, does not specify identified leakage.

### Drill/Exercise Performance



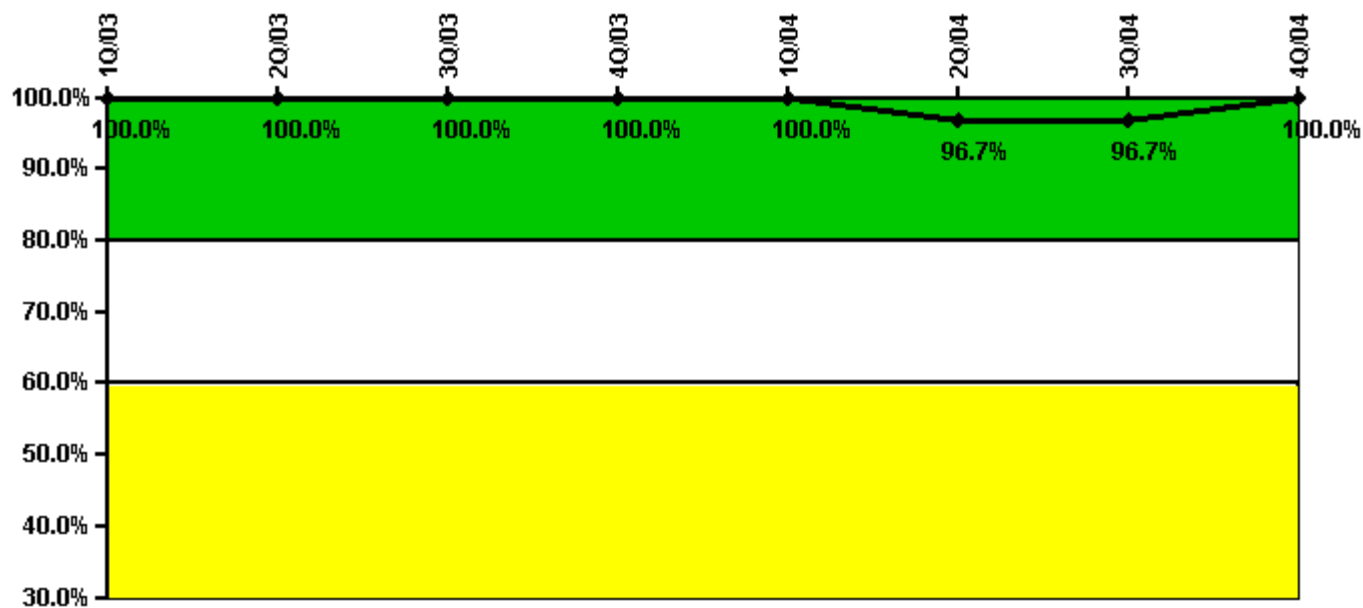
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	15.0	21.0	56.0	24.0	36.0	56.0	26.0	57.0
Total opportunities	17.0	22.0	60.0	24.0	40.0	58.0	26.0	62.0
Indicator value	96.1%	96.0%	95.0%	95.1%	94.4%	94.4%	94.5%	94.2%

Licensee Comments: none

### ERO Drill Participation



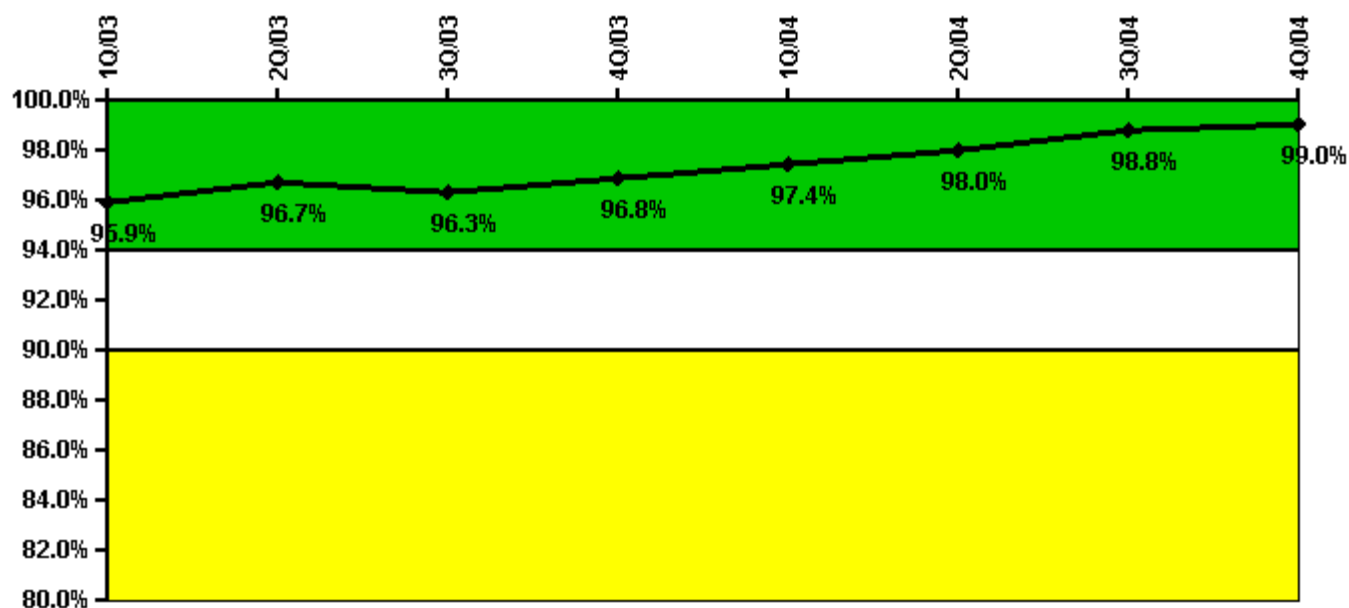
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	57.0	56.0	55.0	55.0	59.0	59.0	59.0	62.0
Total Key personnel	57.0	56.0	55.0	55.0	59.0	61.0	61.0	62.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	96.7%	96.7%	100.0%

Licensee Comments: none

### 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	321	325	291	472	330	334	331	447
Total sirens-tests	336	336	307	477	336	336	336	448
Indicator value	95.9%	96.7%	96.3%	96.8%	97.4%	98.0%	98.8%	99.0%

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