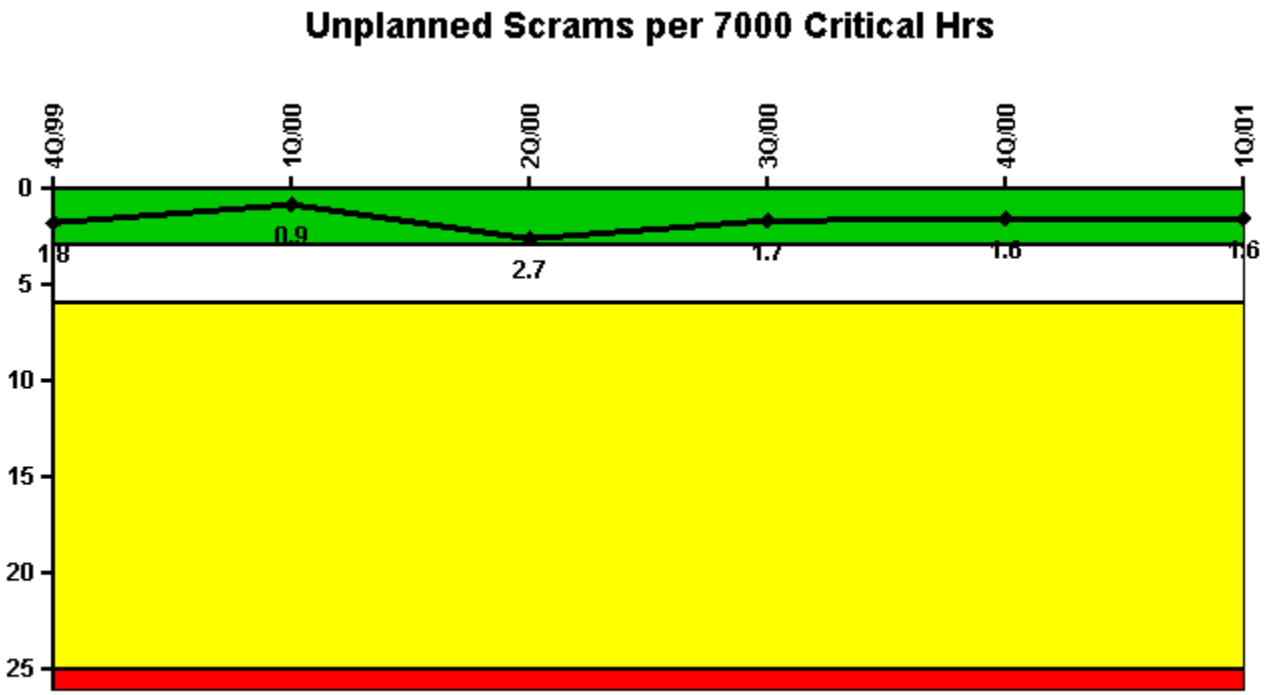
Indian Point 3

1Q/2001 Performance Indicators

Licensee's General Comments: none



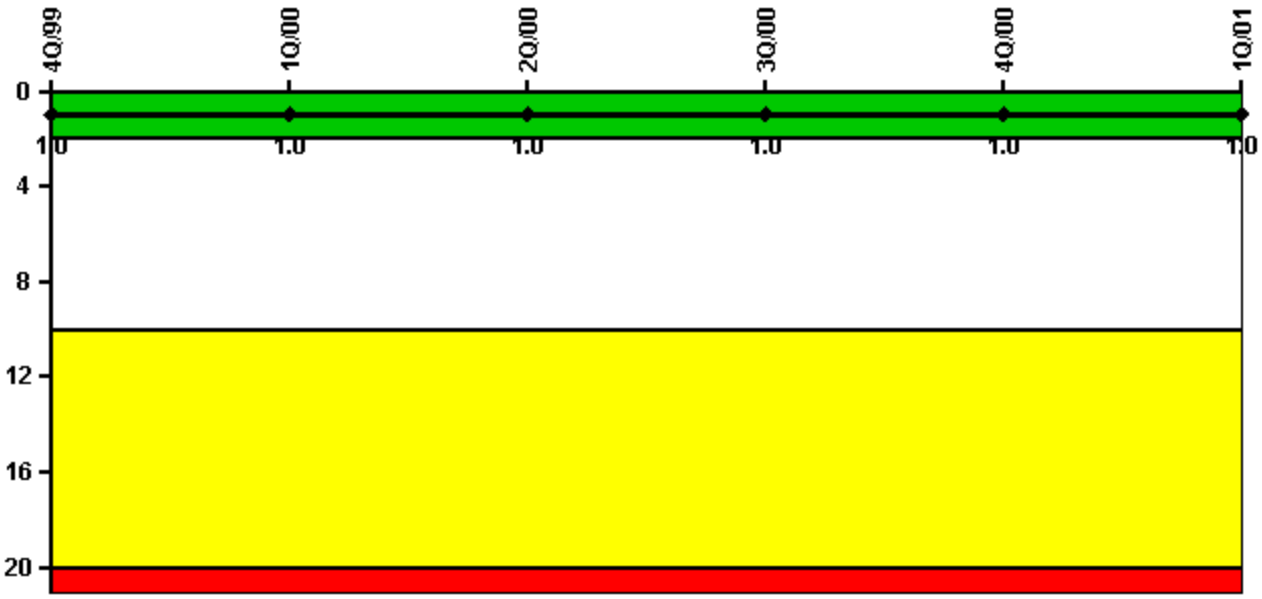
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	2.0	0	0	0
Critical hours	1746.1	2184.0	2149.5	2208.0	2181.5	2160.0
Indicator value	**1.8**	**0.9**	**2.7**	**1.7**	**1.6**	**1.6**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



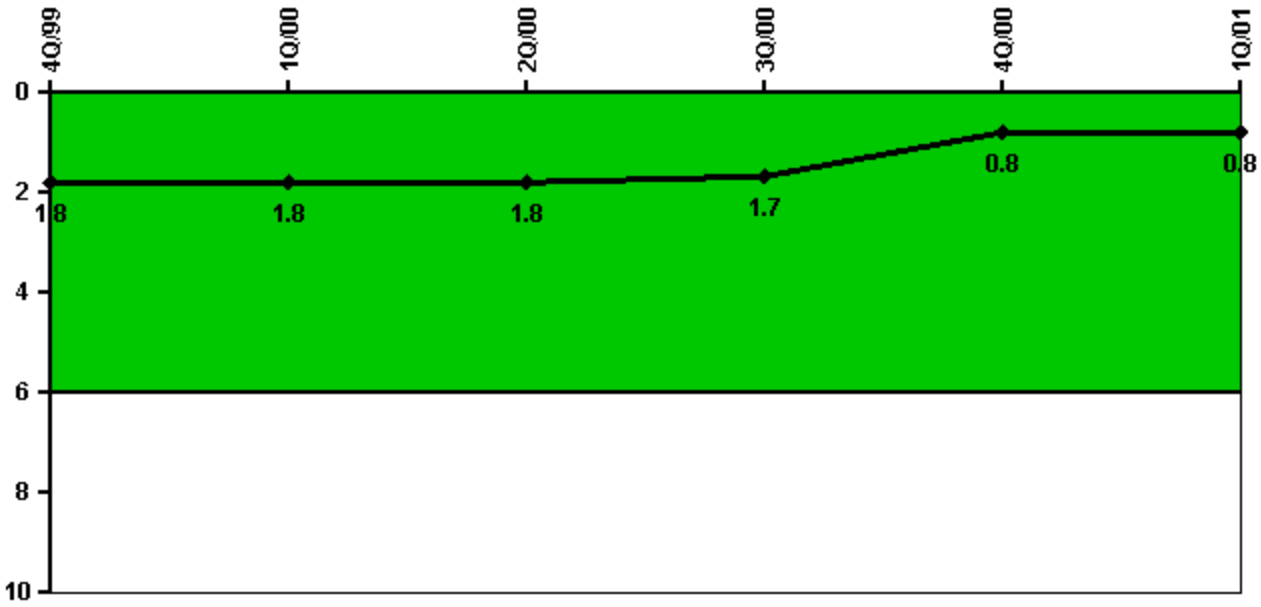
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



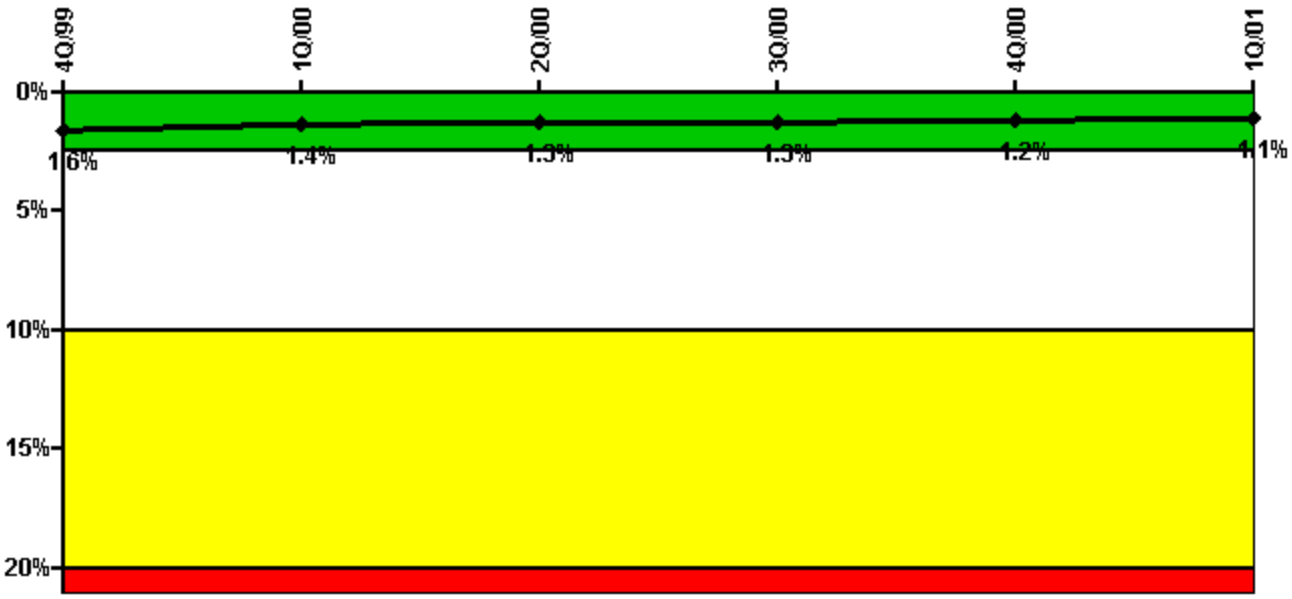
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	1.0	0	1.0	0	0	0
Critical hours	1746.1	2184.0	2149.5	2208.0	2181.5	2160.0
Indicator value	**1.8**	**1.8**	**1.8**	**1.7**	**0.8**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



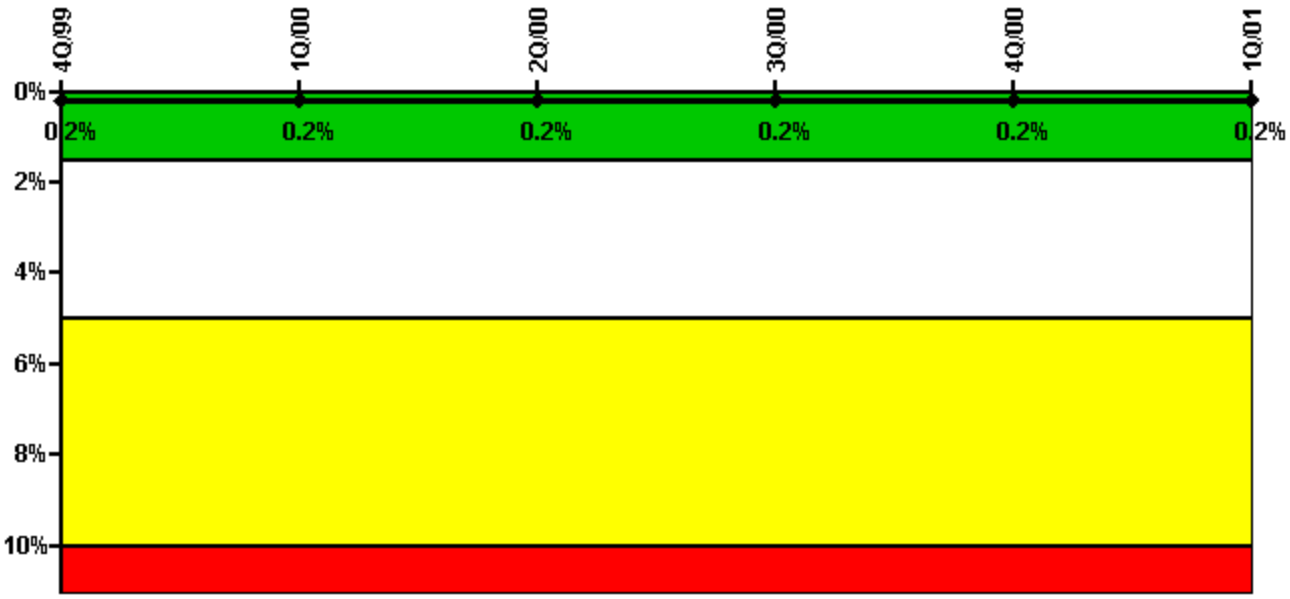
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	43.79	12.33	1.77	0	0	0.63
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	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	10.90	51.74	0	0	0	5.33
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	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	44.98	34.97	10.88	0	0	2.99
Unplanned unavailable hours	0	2.97	0	14.46	0	0
Fault exposure hours	0	0	0	4.00	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
Indicator value	**1.6%**	**1.4%**	**1.3%**	**1.3%**	**1.2%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



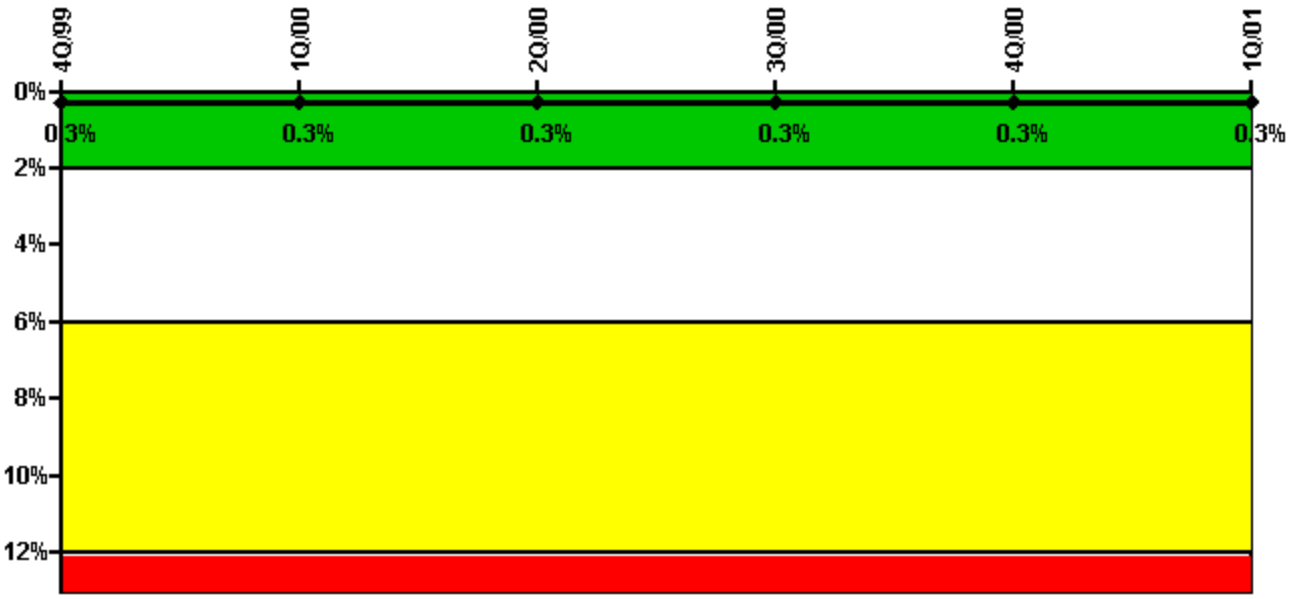
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	8.42	14.00	0	0	10.88	9.52
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	1746.12	2184.00	2149.50	2208.00	2181.50	2160.00
Train 2						
Planned unavailable hours	8.18	0.43	0	0	0	8.00
Unplanned unavailable hours	0	7.02	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	1746.12	2184.00	2149.50	2208.00	2181.50	2160.00
Train 3						
Planned unavailable hours	0	0	0	6.95	0	1.97
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	1746.12	2184.00	2149.50	2208.00	2181.50	2160.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



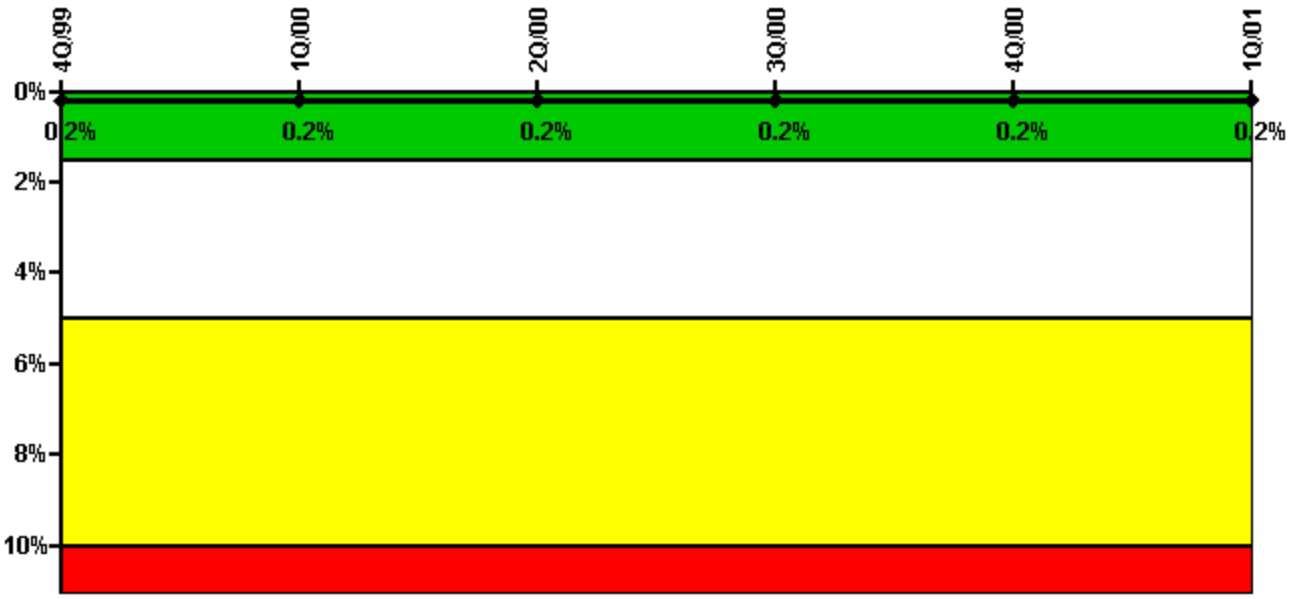
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	0	0	7.57	3.12	4.78
Unplanned unavailable hours	0	0	0	0	0	12.09
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	1746.12	2184.00	2149.50	2208.00	2181.50	2160.00
Train 2						
Planned unavailable hours	0.43	0	8.58	9.12	0	0
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	1746.12	2184.00	2149.50	2208.00	2181.50	2160.00
Train 3						
Planned unavailable hours	0	5.66	1.38	14.09	11.55	9.00
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	1746.12	2184.00	2149.50	2208.00	2181.50	2160.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

Notes

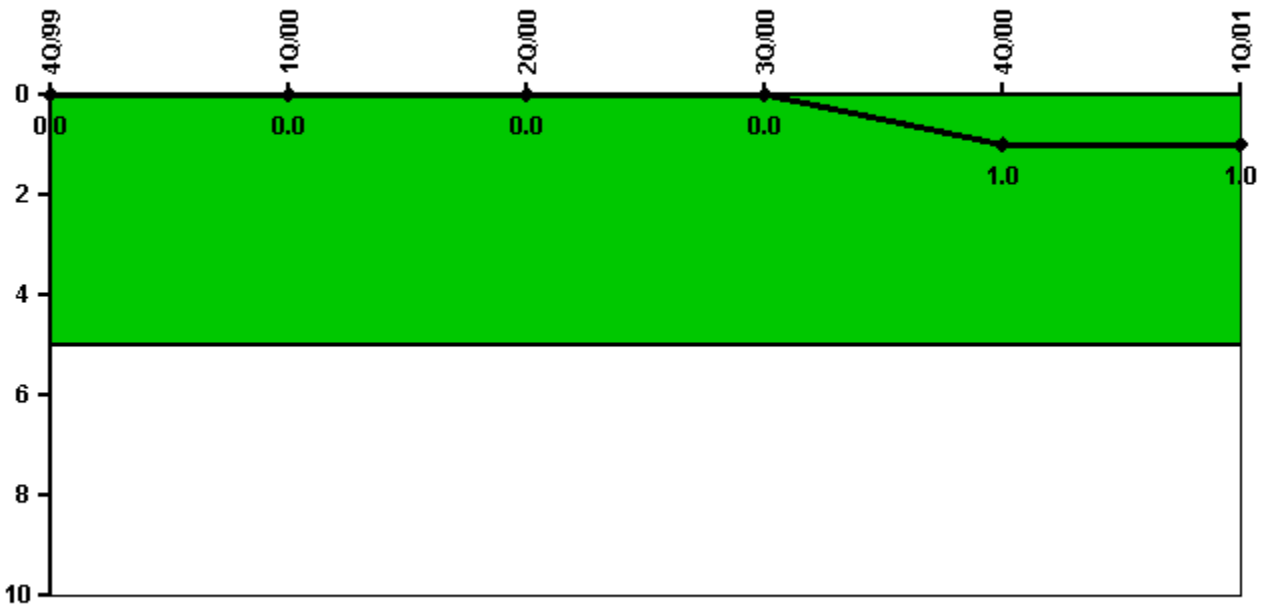
Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	1.42	9.62	0	0	18.37
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	0	0	5.40	0	11.25
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	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	0	0	0	0	0	18.37
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	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 4						
Planned unavailable hours	0	0	0	0	0	11.25
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	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments:

1Q/01: The design for the RHR PI has been changed from a two train system to a four train system as a result of NRC approval of FAQ 236. This change was a result of a unique design that contains two RHR pumps, heat exchangers, and associated components used for normal shutdown cooling and low head SI, and two low head recirculation pumps, containment sump, and associated components that is used during SI recirculation. The recirculation system met the NEI reporting guideline for RHR unavailability for function 1. The change affects PI data for 1Q97 through 1Q01. The revisions do not result in a color change for the indicator.

4Q/00: As a result of a unique Indian Point design that contains two low head recirculation pumps, a containment sump, and associated components, the applicability of this system for monitoring RHR system unavailability was questioned via FAQ 236. The recirculation subsystem appeared to provide one of the performance indicator monitored functions defined as taking suction from the containment sump, cooling the fluid and injecting it into the RCS at low pressure. The NRC reviewed draft FAQ 21 and approved it as FAQ 236 resulting in a change in reporting for the RHR PI. The previously defined two train RHR system was changed to a four train RHR system with the inclusion of two additional trains for the recirculation subsystem. PI data has been provided by this report to reflect the inclusion of applicable historical unavailable hours for this recirculation subsystem (two additional RHR trains 3 and 4) up to the current reporting quarter (1Q97 - 4Q00). A review of historical records identified unavailability for only the new train 3 in the 2Q98, 3Q98, 4Q98. Also, as a result of this review data was identified requiring correction of the unavailable hours for the existing train 1 in the 2Q98. The 1Q01 PI report contains applicable data for the four train defined RHR system and includes the two additional trains for the recirculation system (trains 3 and 4). Components common to each function (e.g., RHR heat exchangers) will have any applicable unavailable hours assigned to the effected trains. This change does not result in a threshold exceedance (color change) for the indicator.

Safety System Functional Failures (PWR)



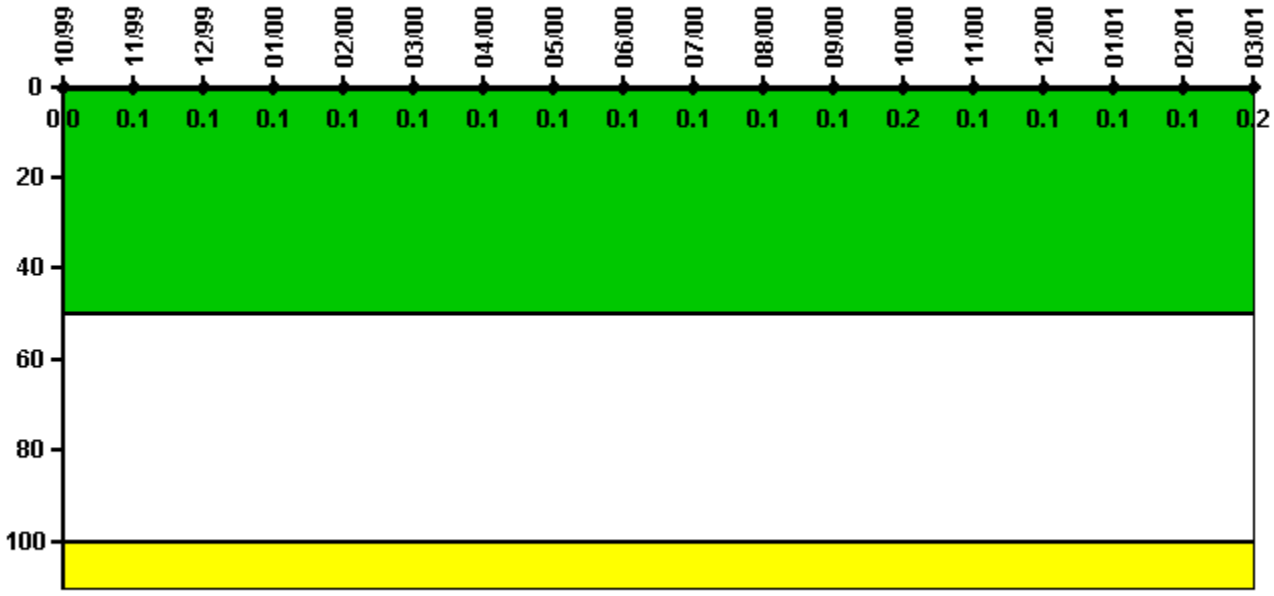
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

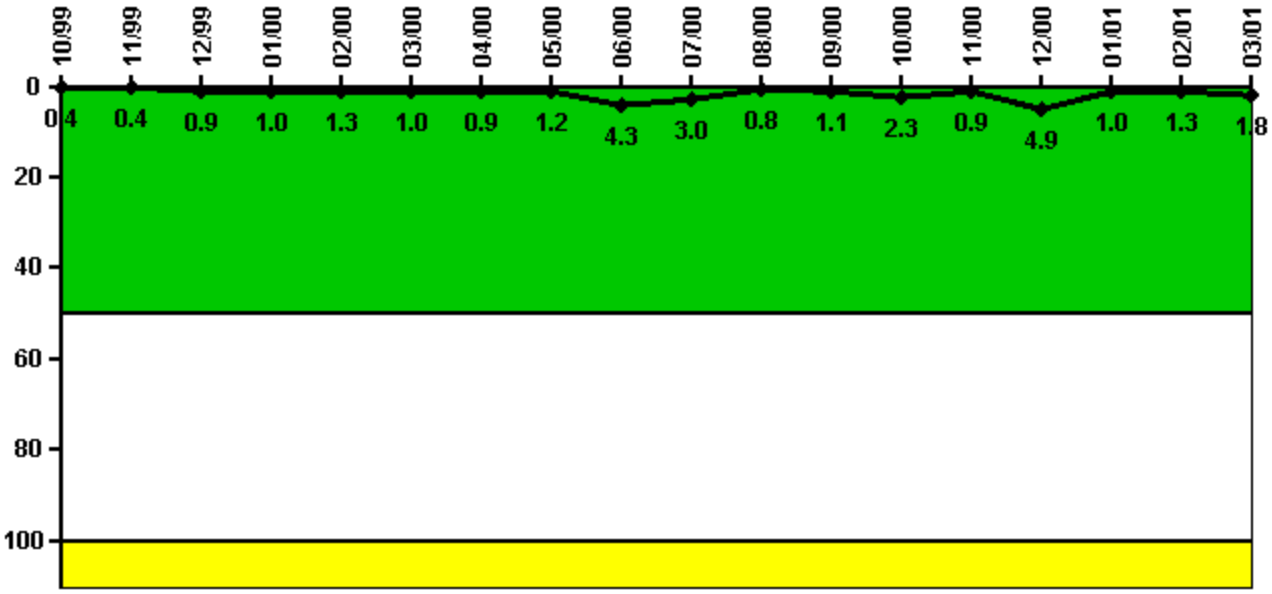
Notes

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	0.000464	0.000613	0.000653	0.000763	0.000724	0.000764	0.000760	0.000927	0.001310	0.001260	0.001260	0.001420
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.002340	0.001380	0.001350	0.001380	0.001460	0.001500
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

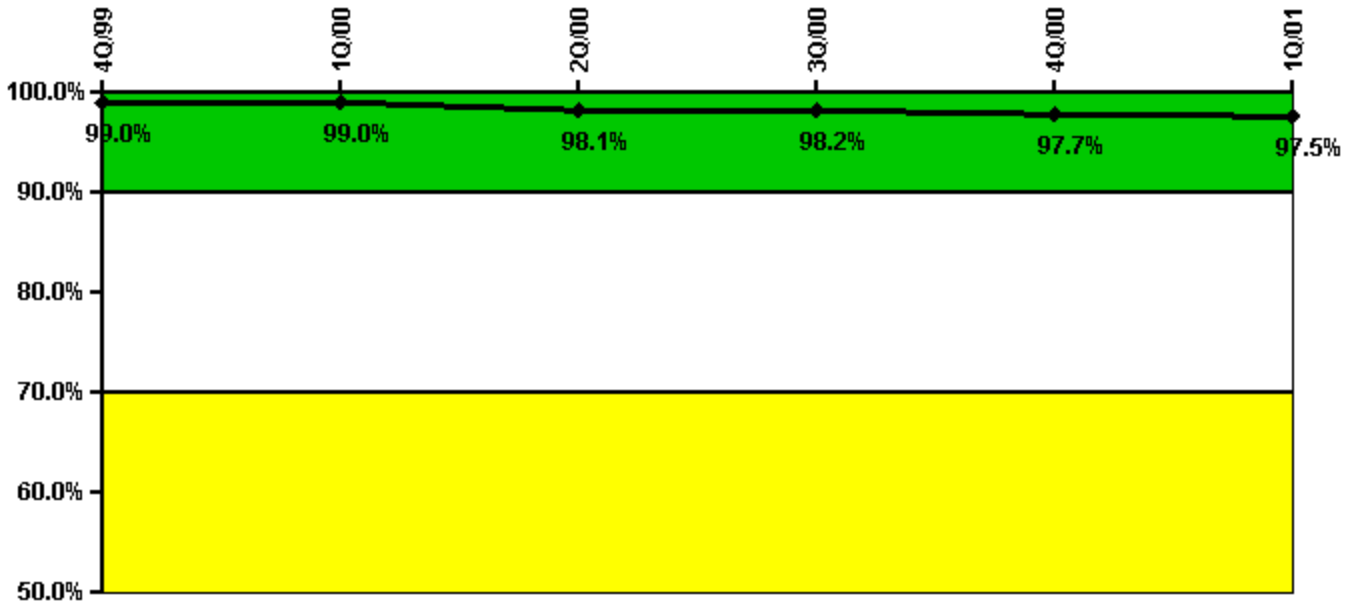
Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.040	0.040	0.085	0.100	0.130	0.100	0.090	0.120	0.430	0.300	0.080	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.4**	**0.9**	**1.0**	**1.3**	**1.0**	**0.9**	**1.2**	**4.3**	**3.0**	**0.8**	**1.1**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.230	0.090	0.490	0.100	0.130	0.180
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.3**	**0.9**	**4.9**	**1.0**	**1.3**	**1.8**

Licensee Comments:

3/01: On 3/19/01 Indian Point 3 implemented improved standard Tech Specs (ITS) replacing the plant's custom Tech Specs (CTS). As a result of the ITS, the Tech Spec for RCS operational leakage changed from a TOTAL limit of 10 gpm to an IDENTIFIED limit of 10 gpm. RCS operational limits that remained the same were unidentified leakage of 1 gpm and 1 gpm total primary to secondary leakage through all steam generators. The RCS leakage values reported for this PI were based on the highest monthly TOTAL leakage per the CTS. The March PI value is based on Total leakage. The highest Identified leak rate identified during the period since ITS implementation (3/19/01 - 3/31/01) was 0.013 gpm. The reporting of future PI values will be based on Identified leakage per the ITS and guidelines of NEI 99-02. These changes do not result in a color change.

Drill/Exercise Performance



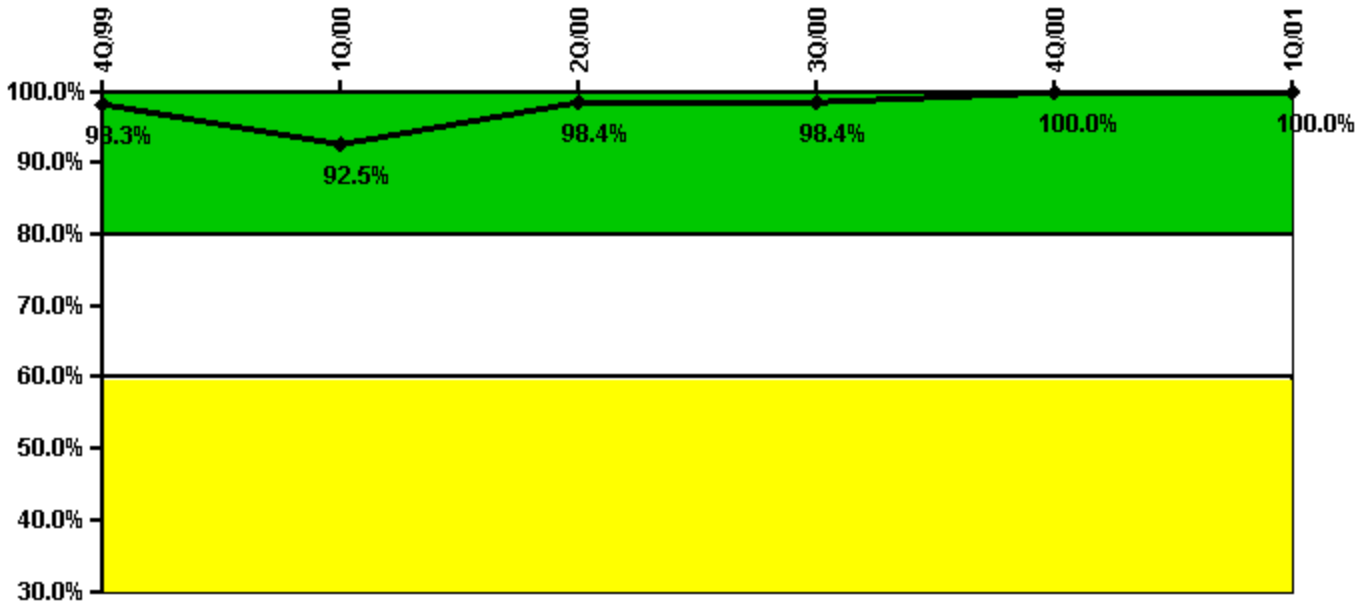
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	20.0	10.0	15.0	10.0	35.0	4.0
Total opportunities	20.0	10.0	16.0	11.0	36.0	4.0
Indicator value	**99.0%**	**99.0%**	**98.1%**	**98.2%**	**97.7%**	**97.5%**

Licensee Comments: none

ERO Drill Participation

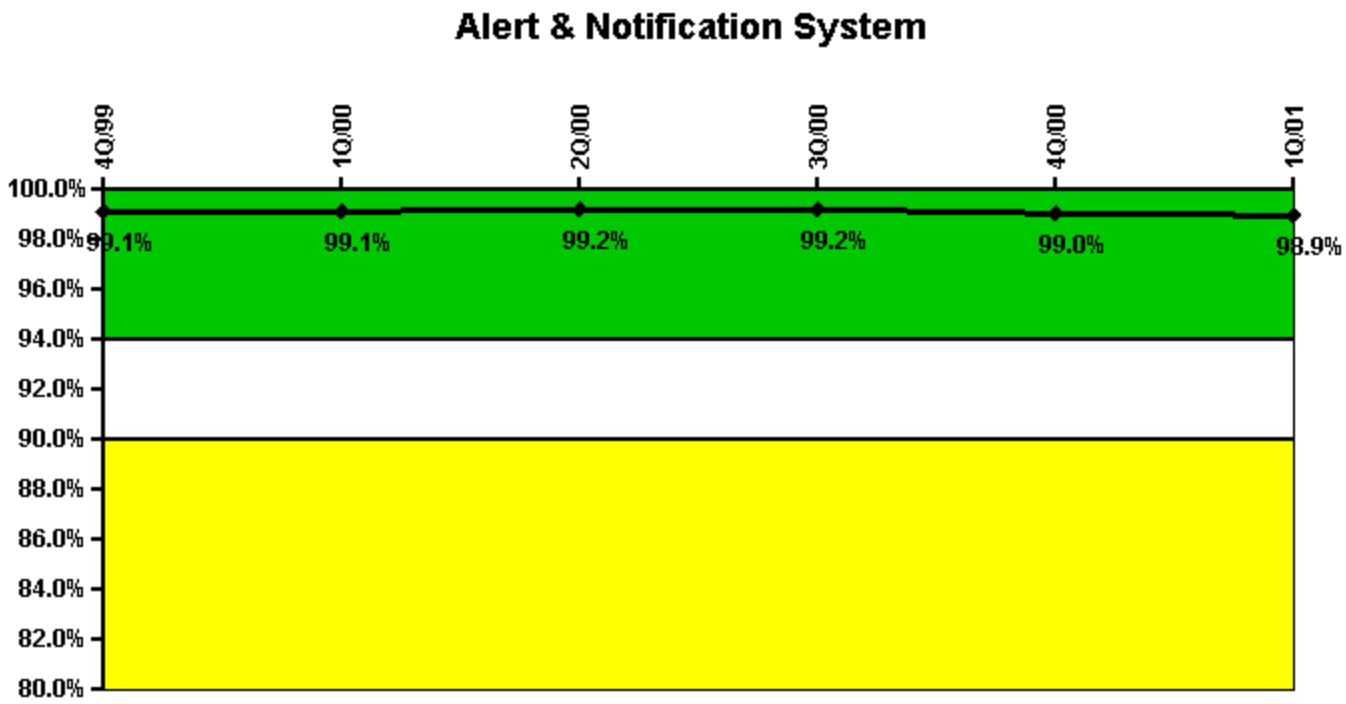


Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel	58.0	62.0	62.0	60.0	63.0	65.0
Total Key personnel	59.0	67.0	63.0	61.0	63.0	65.0
Indicator value	**98.3%**	**92.5%**	**98.4%**	**98.4%**	**100.0%**	**100.0%**

Licensee Comments: none



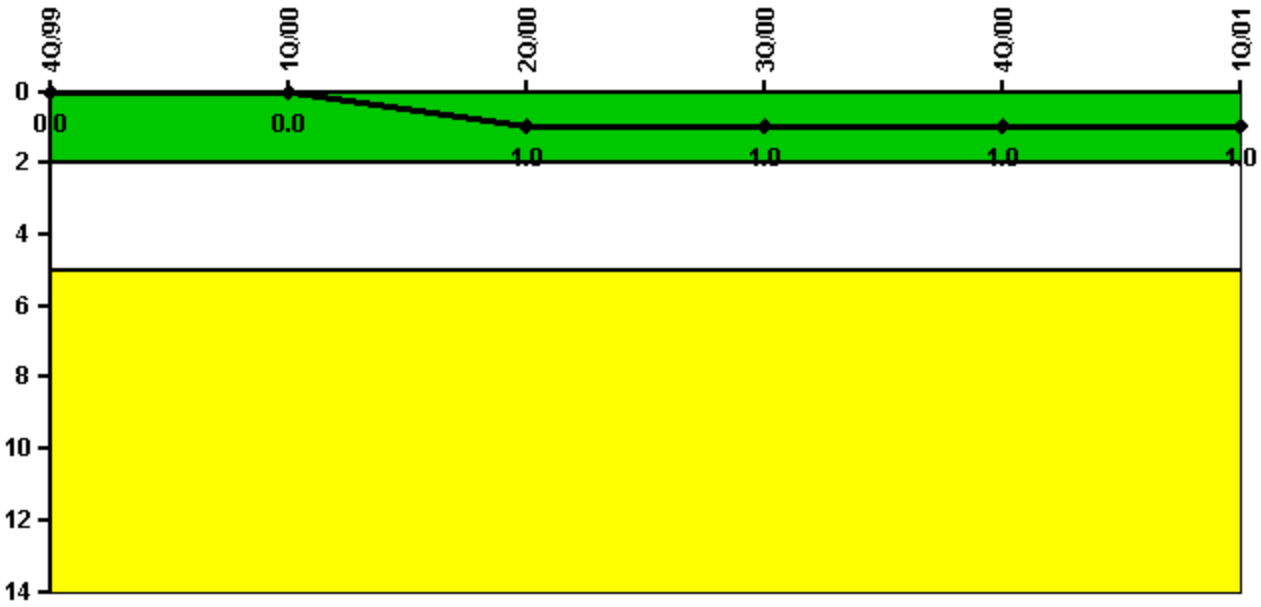
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful siren-tests	1217	920	1225	914	906	1069
Total sirens-tests	1232	924	1232	924	924	1078
Indicator value	**99.1%**	**99.1%**	**99.2%**	**99.2%**	**99.0%**	**98.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



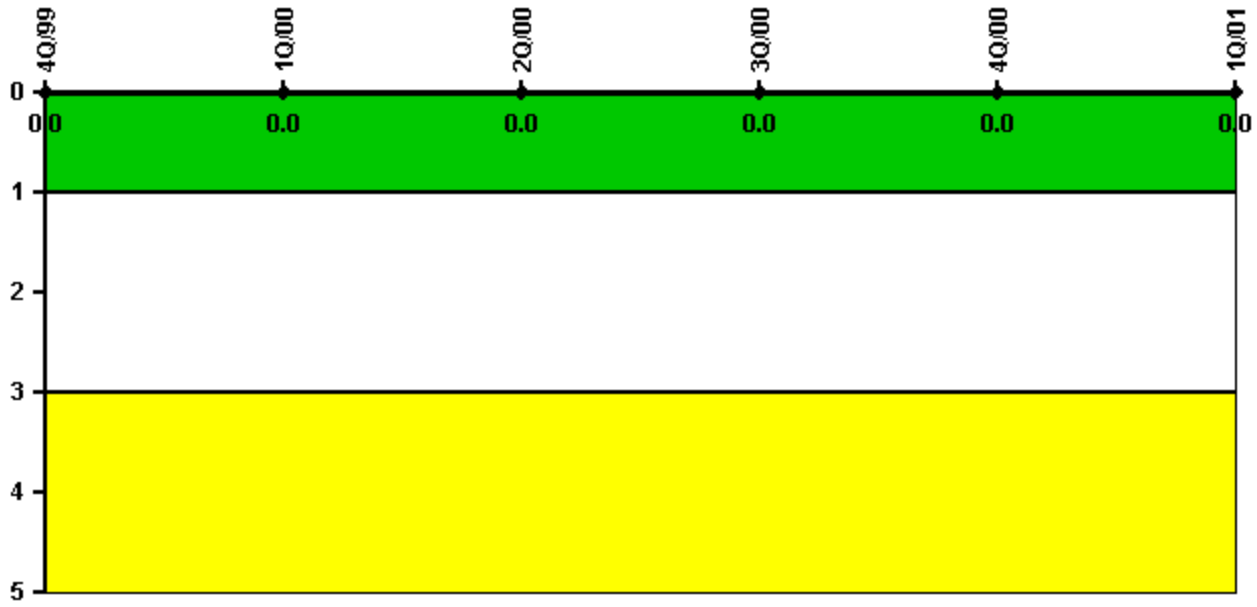
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

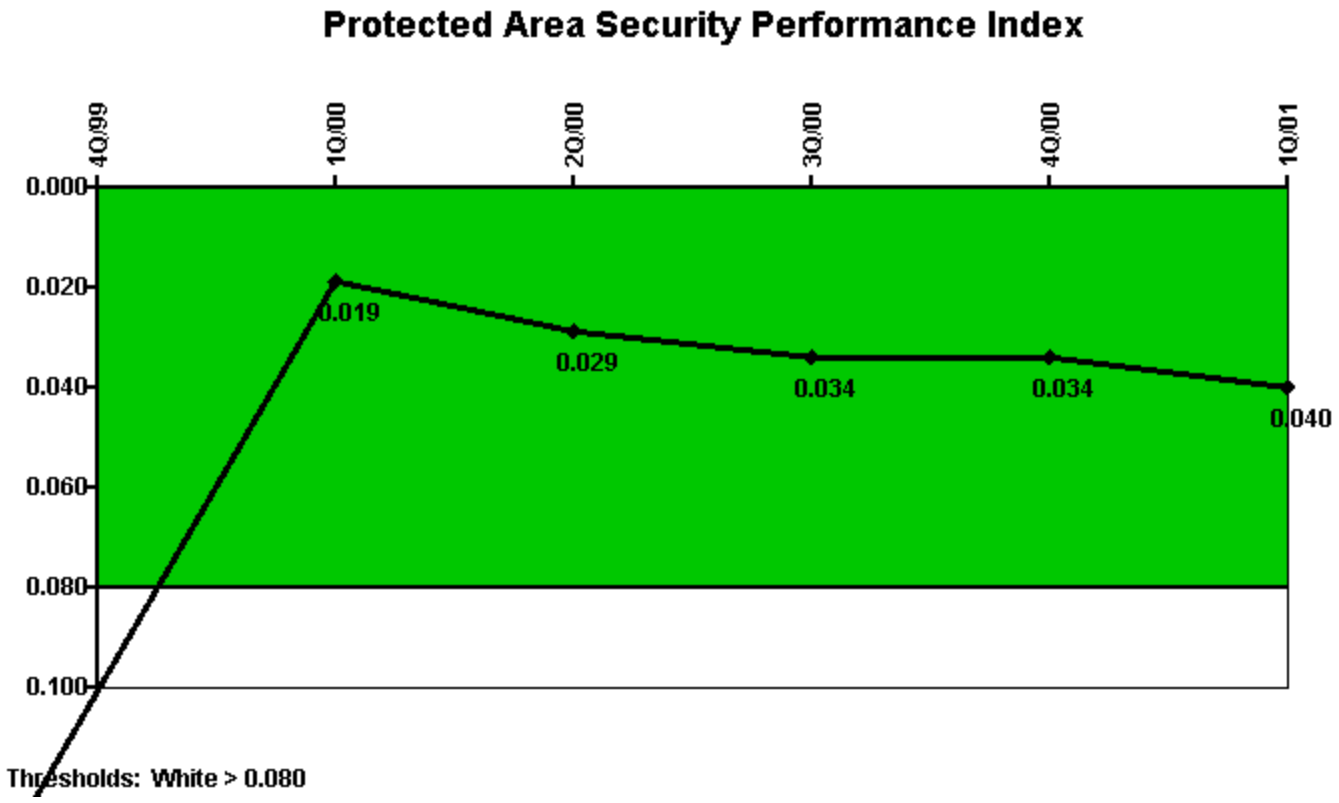


Thresholds: White > 1.0 Yellow > 3.0

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



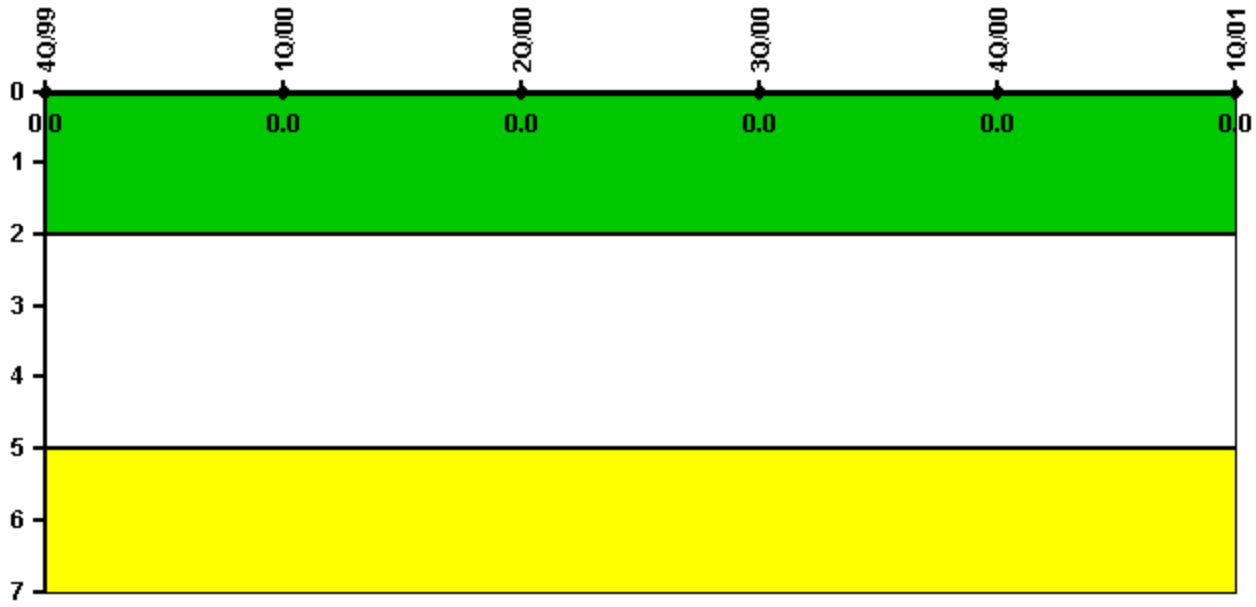
Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
IDS compensatory hours	234.00	87.30	207.80	235.20	127.30	133.50
CCTV compensatory hours	0	0	50.9	0	97.1	82.4
IDS normalization factor	1.85	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.1	1.1	1.1	1.1	1.1
Index Value	**0.101**	**0.019**	**0.029**	**0.034**	**0.034**	**0.040**

Licensee Comments:

1Q/01: The IDS compensatory hours for March were incorrectly reported as the quarterly total IDS compensatory hours rather than the monthly hours that were applicable (i.e., 61.9 hours). The error was identified by the PI data provider and a Deviation Event Report (DER) was initiated for recording and correction by the CAP (Problem Identification & Resolution). The Human Performance Error that caused the over reporting of hours for March (1Q2001), did not result in a threshold exceedance and its correction did not change the indicator color which remains Green.

Personnel Screening Program



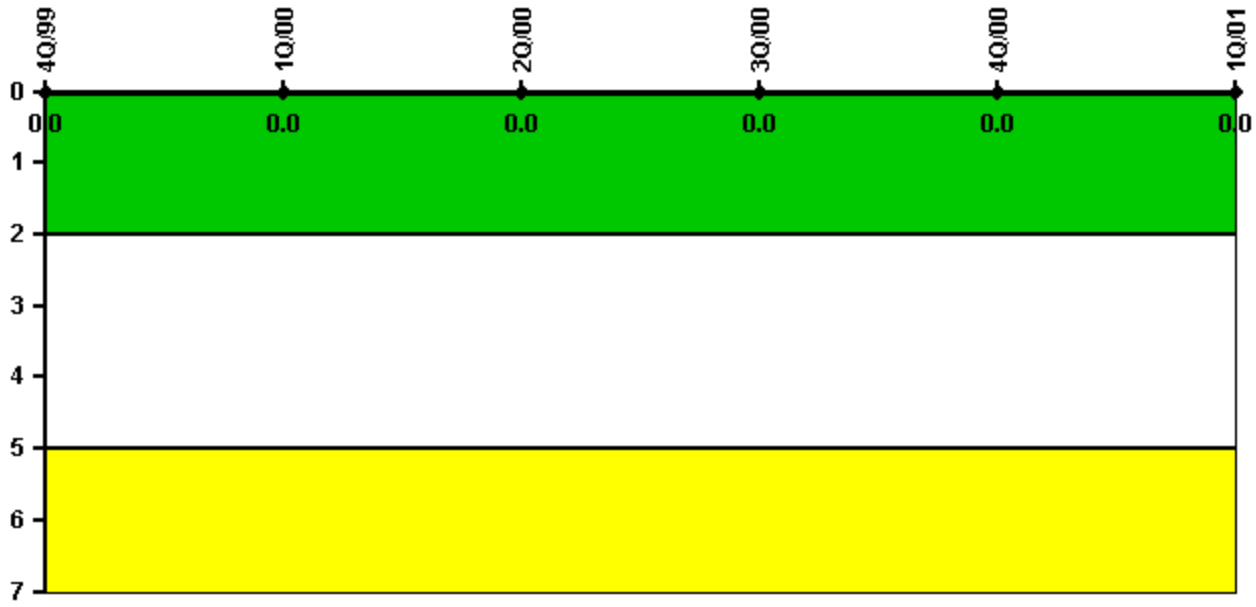
Thresholds: White > 2.0 Yellow > 5.0

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