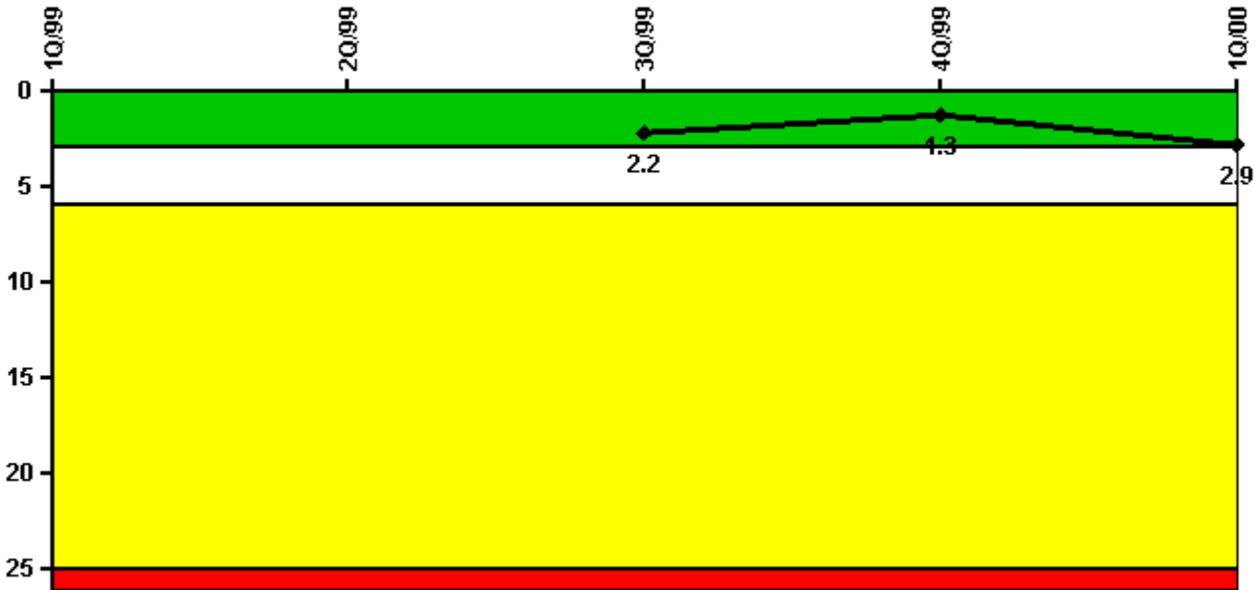


Millstone 2

1Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



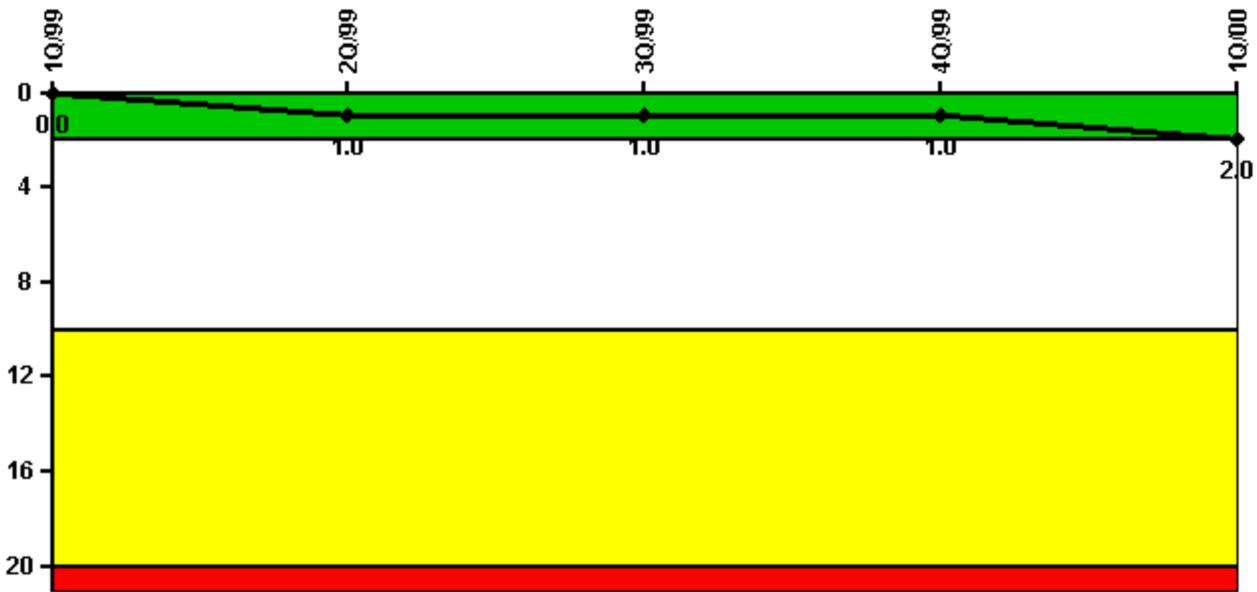
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	0	1.0	0	0	2.0
Critical hours	0	1159.7	2077.2	2209.0	1772.0
Indicator value	N/A	N/A	2.2	1.3	2.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

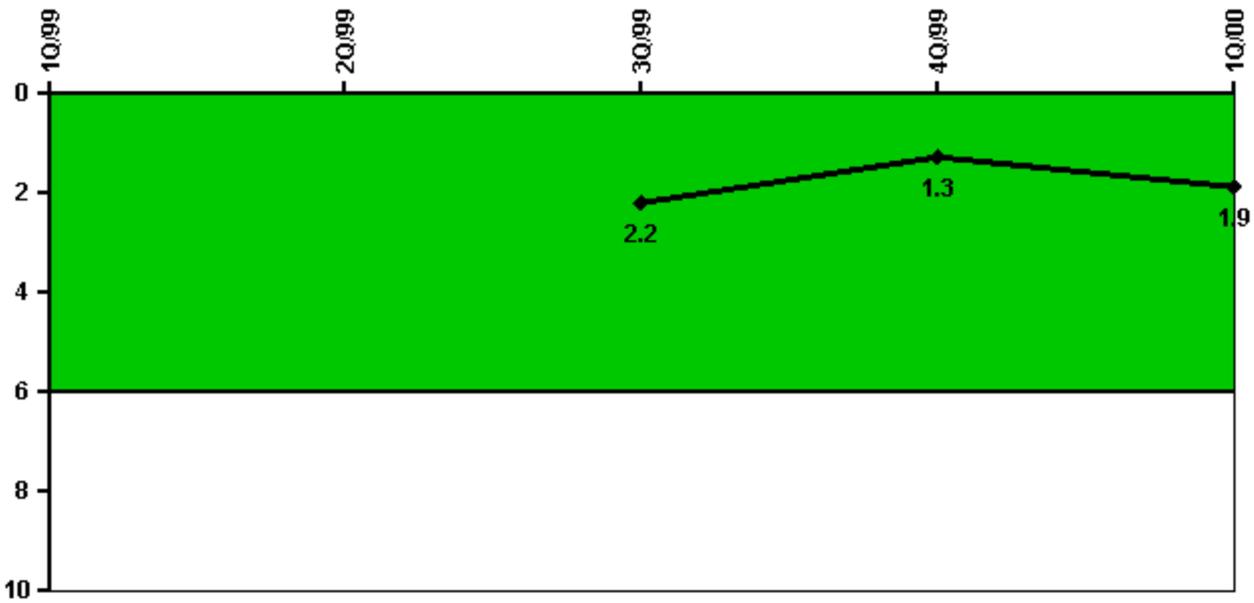
Notes

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

Licensee Comments:

2Q/99: Revised to include 5/25/99 reactor trip, following review with NRC resident inspector.

Unplanned Power Changes per 7000 Critical Hrs



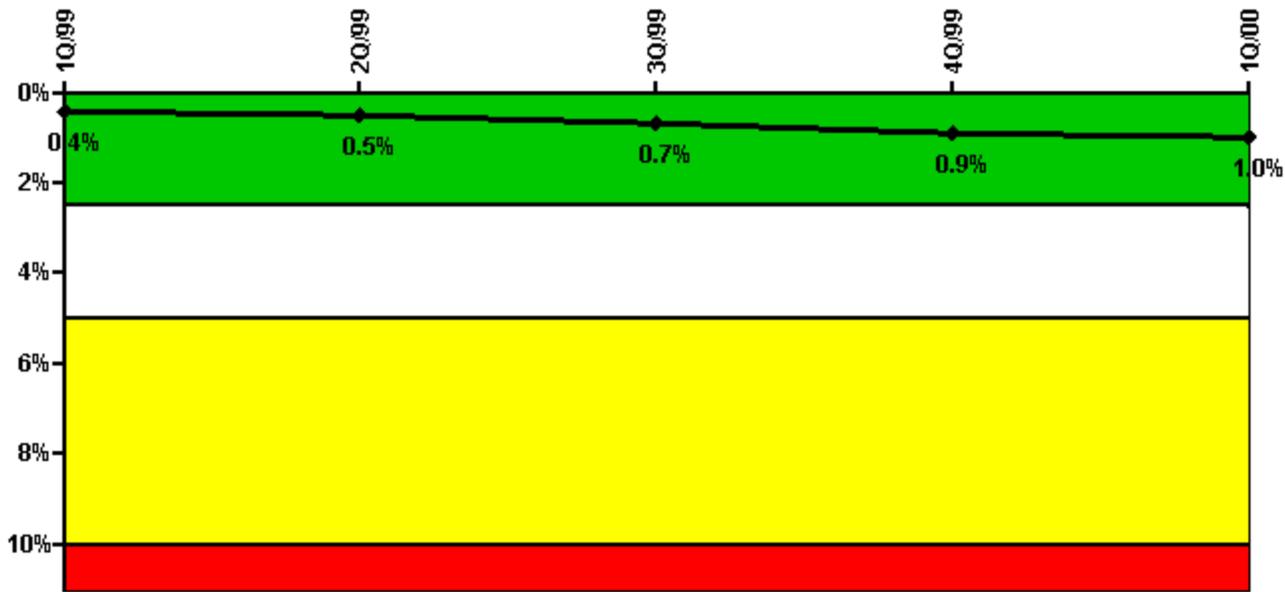
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	1.0	0	1.0
Critical hours	0	1159.7	2077.2	2209.0	1772.0
Indicator value	N/A	N/A	2.2	1.3	1.9

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/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	8.20	19.25	57.87	32.12	37.00
Unplanned unavailable hours	48.00	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
Train 2					
Planned unavailable hours	0.50	19.22	58.15	37.98	40.20
Unplanned unavailable hours	0	0	19.00	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
Indicator value	0.4%	0.5%	0.7%	0.9%	1.0%

Licensee Comments:

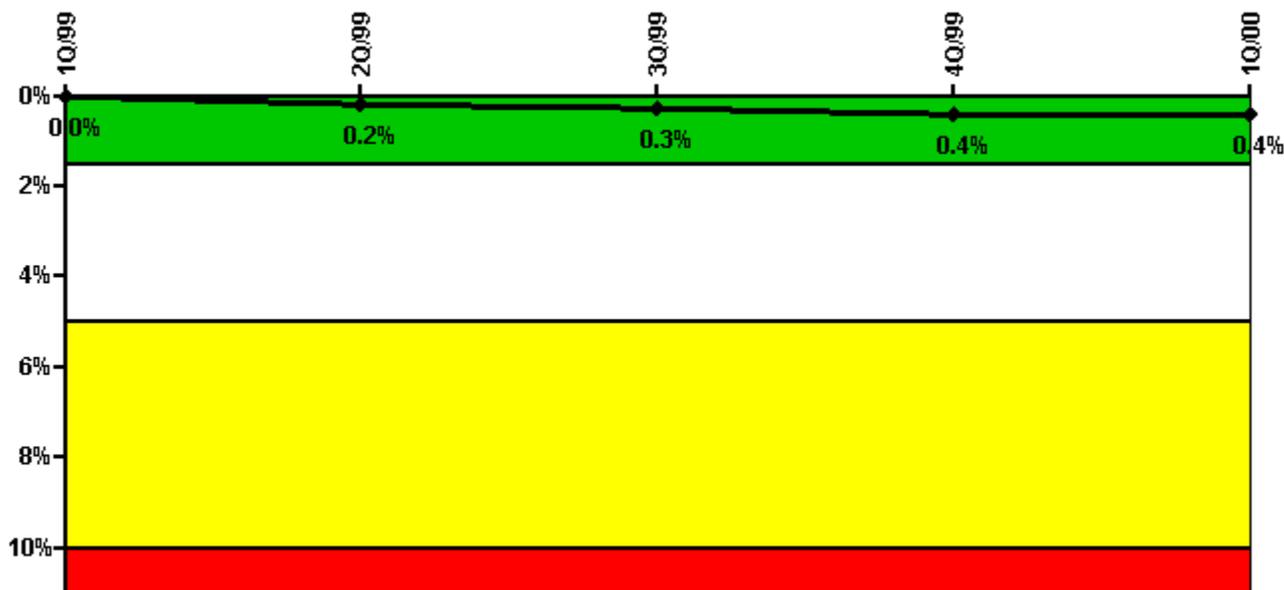
4Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

3Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

2Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE

threshold.

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)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	2.81	7.70	6.81	11.32
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	0	1692.00	2208.00	2209.00	1913.50
Train 2					
Planned unavailable hours	0	3.30	12.03	10.33	14.29
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	0	1692.00	2208.00	2209.00	1913.50
Indicator value	0%	0.2%	0.3%	0.4%	0.4%

Licensee Comments:

1Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

1Q/00: The planned unavailable hours were revised in accordance with the guidance in NEI 99-02, to take credit for availability during

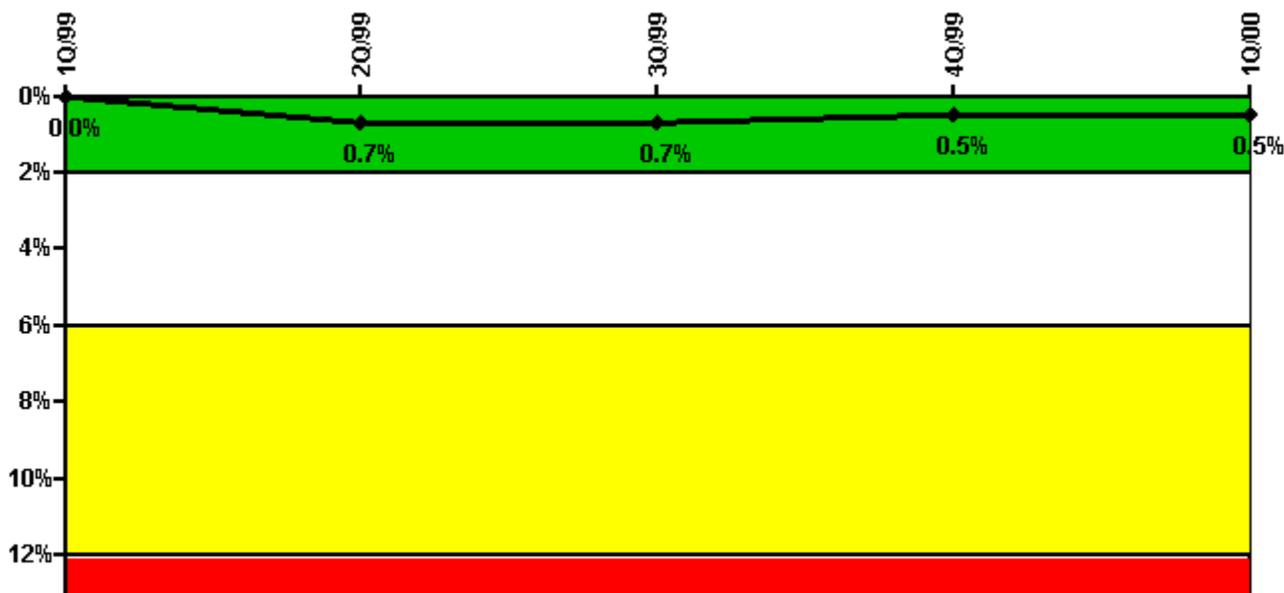
evolutions when components remain available to perform their safety function. This revision does not result in crossing a threshold/performance color change.

4Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

Safety System Unavailability, Heat Removal System (AFW)



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

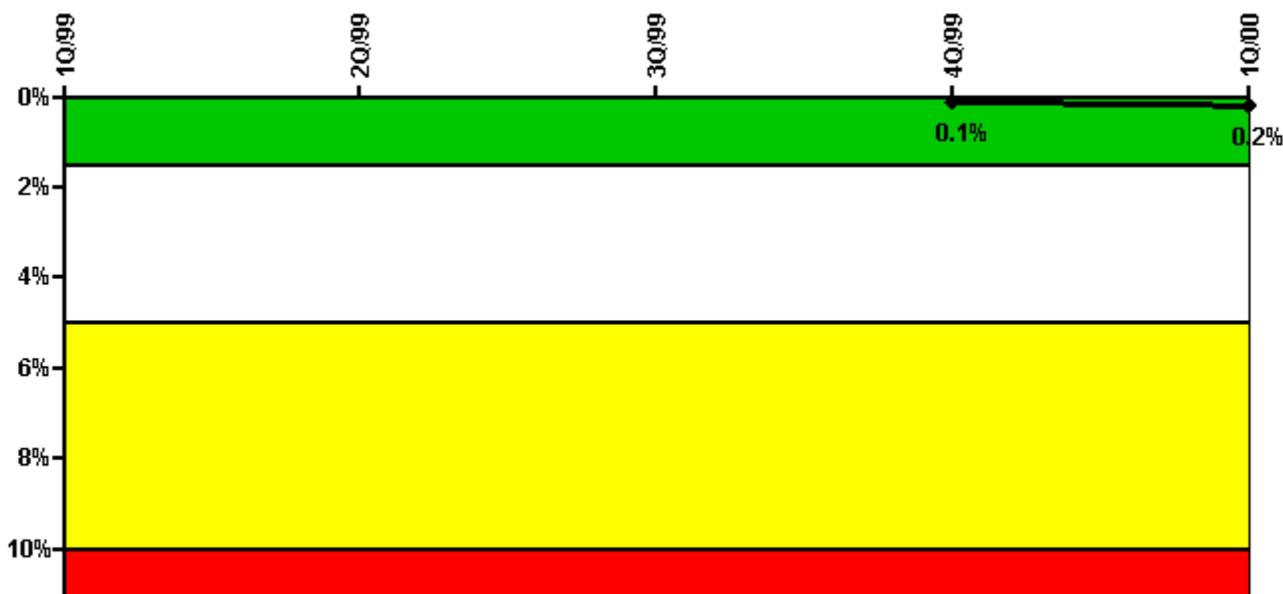
Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	5.00	5.30	5.50	11.50
Unplanned unavailable hours	0	0	0	0	1.00
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	1159.70	2208.00	2209.00	1772.00
Train 2					
Planned unavailable hours	0	1.20	21.55	8.20	2.00
Unplanned unavailable hours	0	7.30	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	1159.70	2208.00	2209.00	1772.00

Train 3					
Planned unavailable hours	0	11.10	18.90	5.55	3.75
Unplanned unavailable hours	0	0	0	0	5.80
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	1159.70	2208.00	2209.00	1772.00
Indicator value	0%	0.7%	0.7%	0.5%	0.5%

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	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	29.88	16.37	3.84	29.35
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	1913.50
Train 2					
Planned unavailable hours	0	8.12	5.84	17.62	21.29
Unplanned unavailable hours	0	0	0	0	11.06
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	1913.50
Train 3					
Planned unavailable hours	0	4.85	7.17	3.84	0
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	269.00
Train 4					
Planned unavailable hours	0	4.95	5.84	17.62	0
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	269.00
Indicator value				0.1%	0.2%

Licensee Comments:

1Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

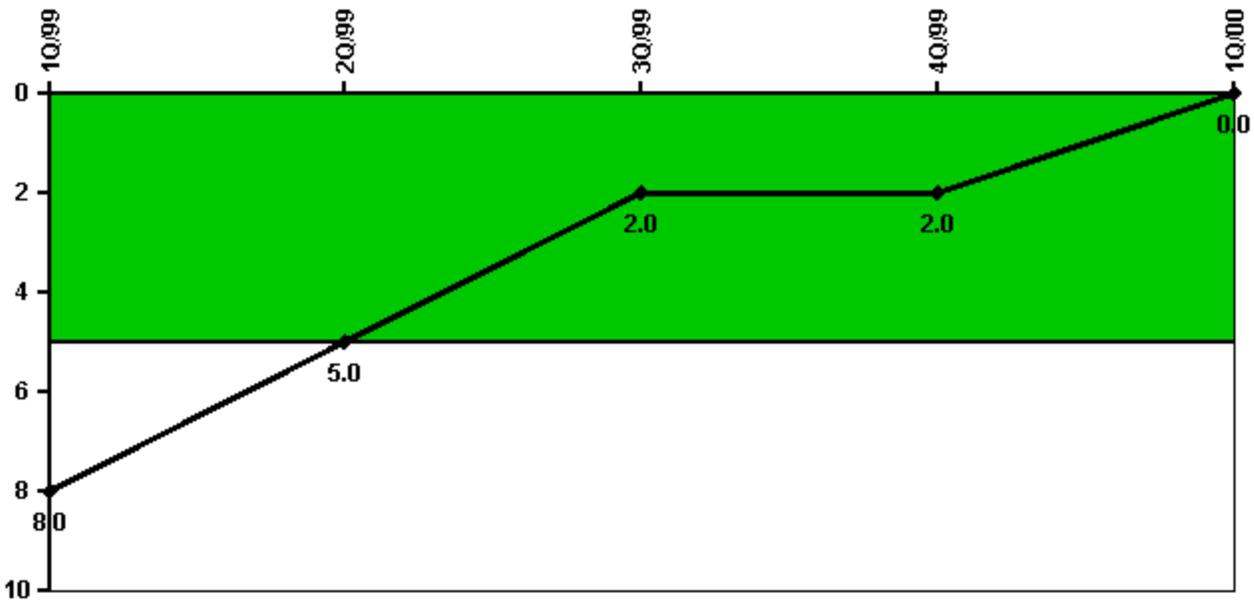
1Q/00: The planned unavailable hours were revised in accordance with the guidance in NEI 99-02, to take credit for availability during evolutions when components remain available to perform their safety function. The data was also revised to incorporate the guidance from FAQ 172. This revision does not result in crossing a threshold/performance color change.

4Q/99: For this indicator, Shut Down Cooling System unavailability for operating modes 4, 5, and 6, and Containment Spray System unavailability for operating modes 1, 2, and 3, are reported. Data is reported as a two train system.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

Safety System Functional Failures (PWR)



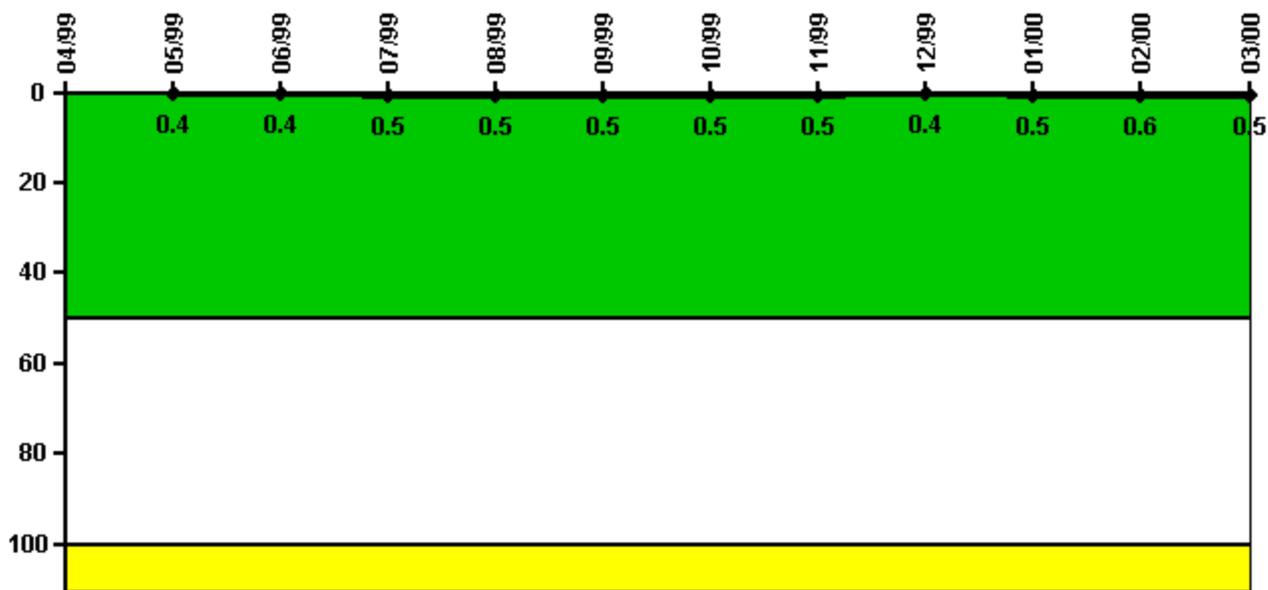
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Safety System Functional Failures	2	0	0	0	0
Indicator value	8	5	2	2	0

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	N/A	0.003980	0.004420	0.004580	0.004910	0.004510	0.004580	0.004580	0.004460	0.005470	0.005510	0.005260
Technical specification limit	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.5

Licensee Comments:

3/00: Revised the first quarter data to reflect the maximum monthly activity vs. the average monthly activity to be consistent with the requirements of NEI 99-02. This revision does not result in crossing a threshold/performance color change.

6/99: Replaced null values for the April 1999 with NA since the unit was shut down for recovery.

3/99: Replaced null values for the first quarter '99 with NA since the unit was shut down for recovery.

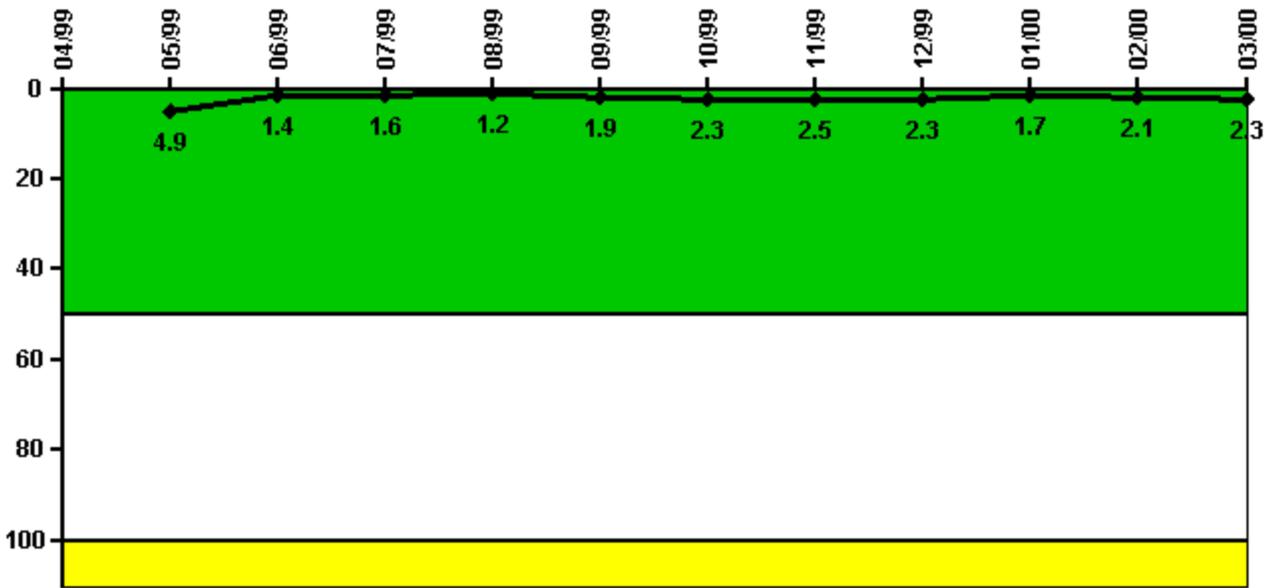
12/98: Replaced null values for the fourth quarter '98 with NA since the unit was shut down for recovery.

9/98: Replaced null values for the third quarter '98 with NA since the unit was shut down for recovery.

6/98: Replaced null values for the second quarter '98 with NA since the unit was shut down for recovery.

3/98: Replaced null values for the first quarter '98 with NA since the unit was shut down for recovery.

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	N/A	0.490	0.140	0.160	0.120	0.190	0.230	0.250	0.230	0.170	0.210	0.230
Technical specification limit	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	4.9	1.4	1.6	1.2	1.9	2.3	2.5	2.3	1.7	2.1	2.3

Licensee Comments:

6/99: Replaced null values for April 1999 with NA since the unit was shut down for recovery.

3/99: Replaced null values for the first quarter '99 with NA since the unit was shut down for recovery.

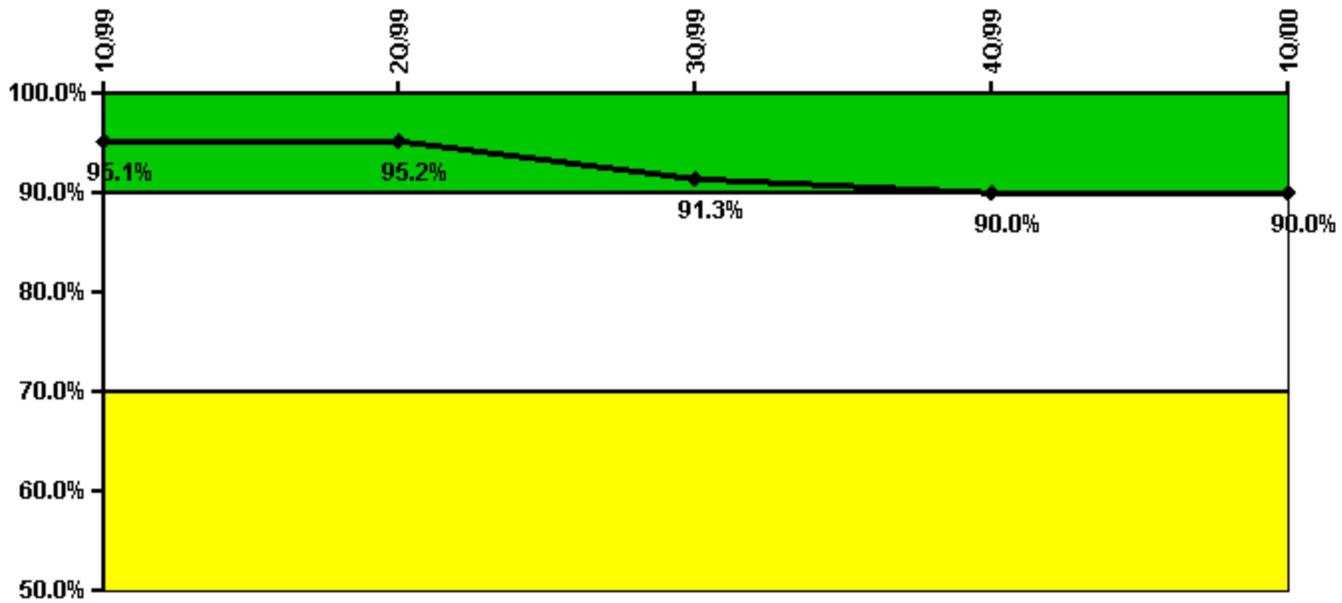
12/98: Replaced null values for the fourth quarter '98 with NA since the unit was shut down for recovery.

9/98: Replaced null values for the third quarter '98 with NA since the unit was shut down for recovery.

6/98: Replaced null values for the second quarter '98 with NA since the unit was shut down for recovery.

3/98: Replaced null values for the first quarter '98 with NA since the unit was shut down for recovery.

Drill/Exercise Performance



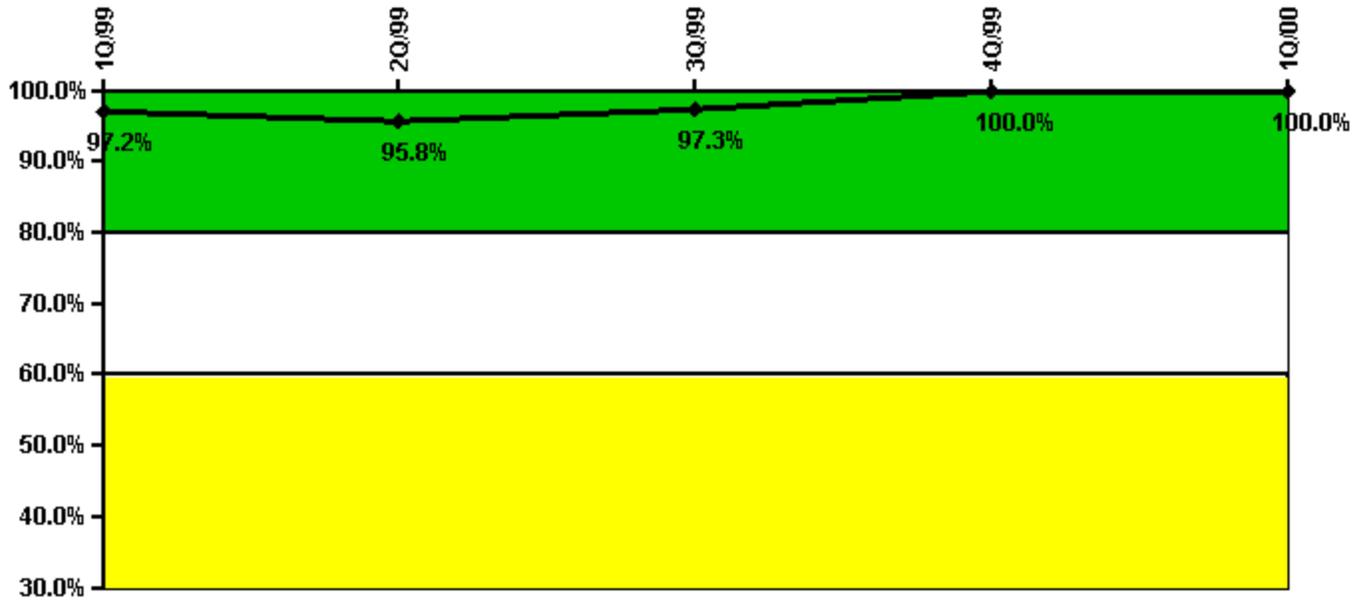
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities	0	2.0	15.0	12.0	27.0
Total opportunities	0	2.0	20.0	14.0	28.0
Indicator value	95.1%	95.2%	91.3%	90.0%	90.0%

Licensee Comments: none

ERO Drill Participation



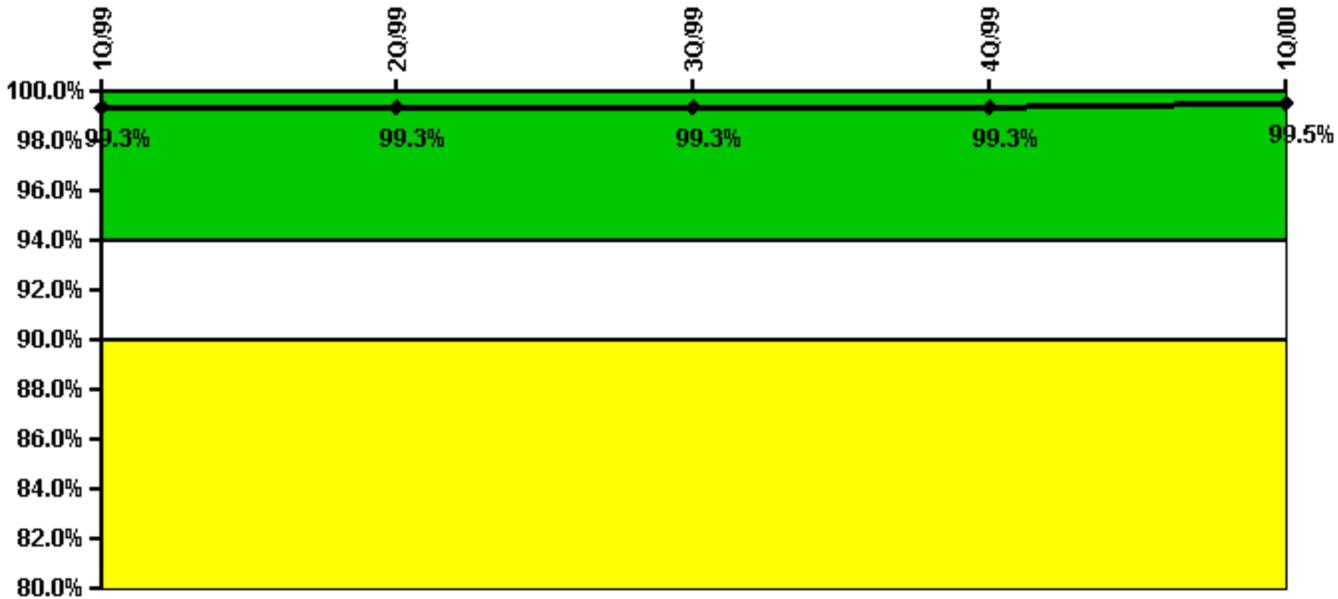
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel	70.0	69.0	71.0	74.0	76.0
Total Key personnel	72.0	72.0	73.0	74.0	76.0
Indicator value	97.2%	95.8%	97.3%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

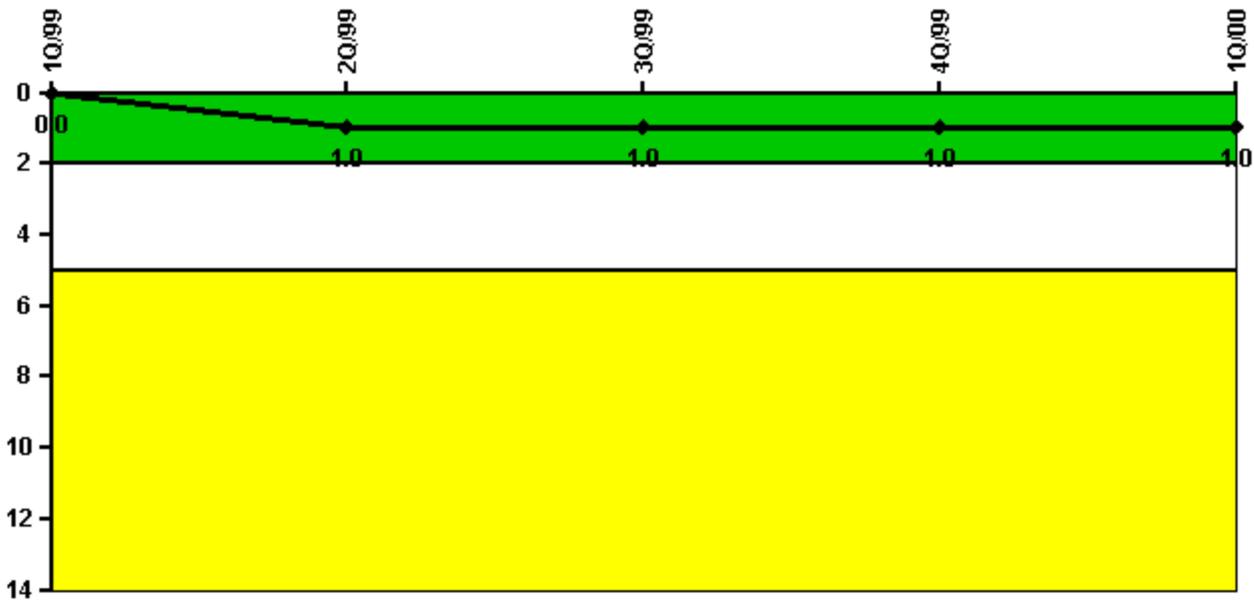
Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	328	329	336	335	304
Total sirens-tests	334	331	337	336	306
Indicator value	99.3%	99.3%	99.3%	99.3%	99.5%

Licensee Comments:

1Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

4Q/99: This indicator depicts information for Millstone Station.

Occupational Exposure Control Effectiveness



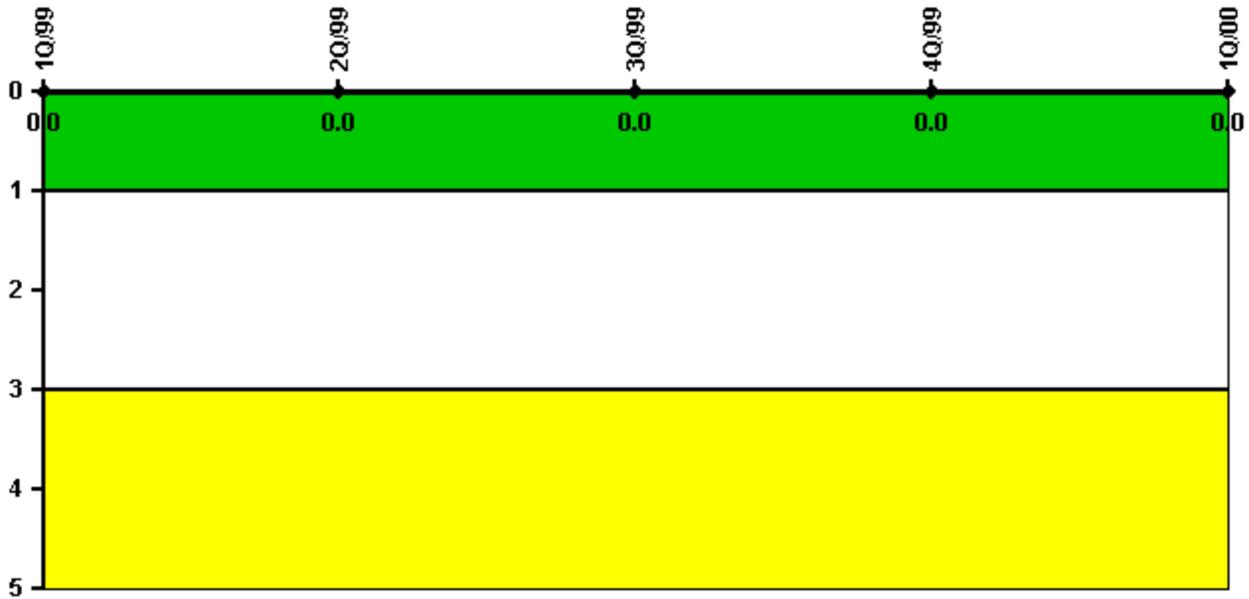
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



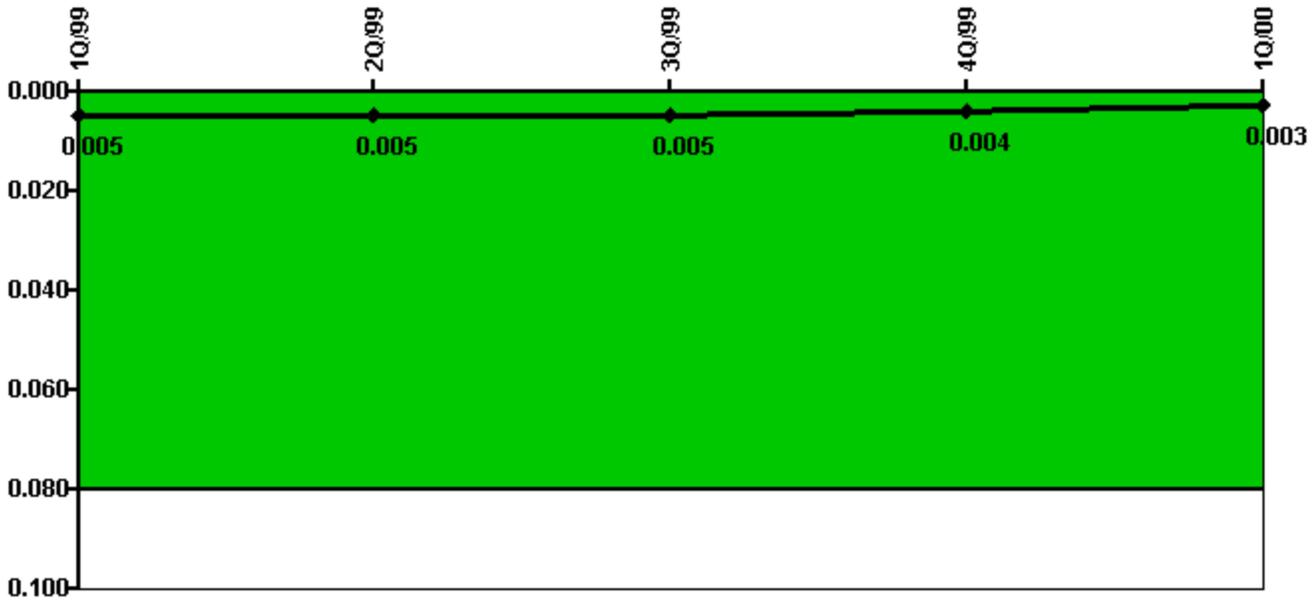
Thresholds: White > 1.0 Yellow > 3.0

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



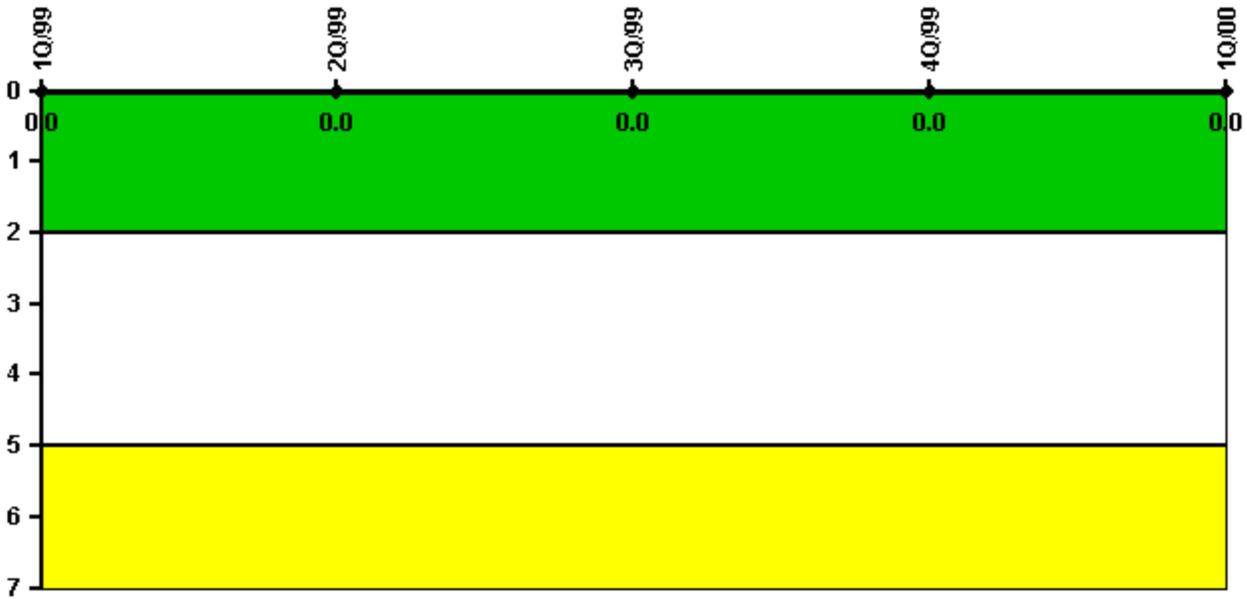
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	60.00	60.00	44.00	17.70	29.10
CCTV compensatory hours	0	0	0	0.5	0
IDS normalization factor	2.55	2.55	2.55	2.55	2.55
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1
Index Value	0.005	0.005	0.005	0.004	0.003

Licensee Comments: none

Personnel Screening Program



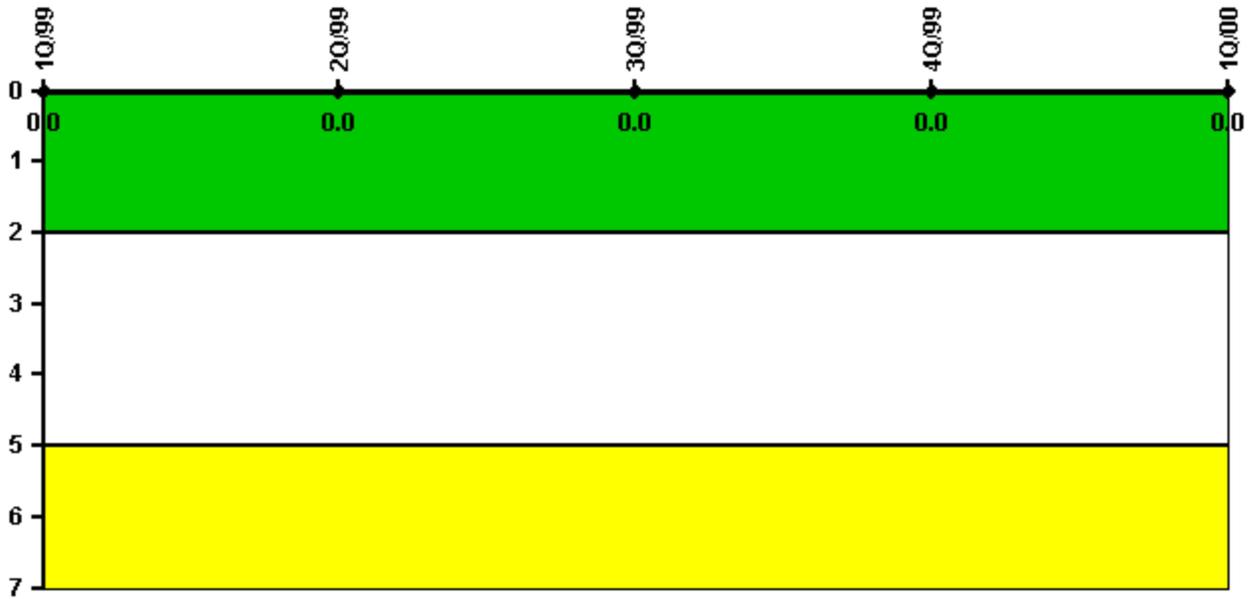
Thresholds: White > 2.0 Yellow > 5.0

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