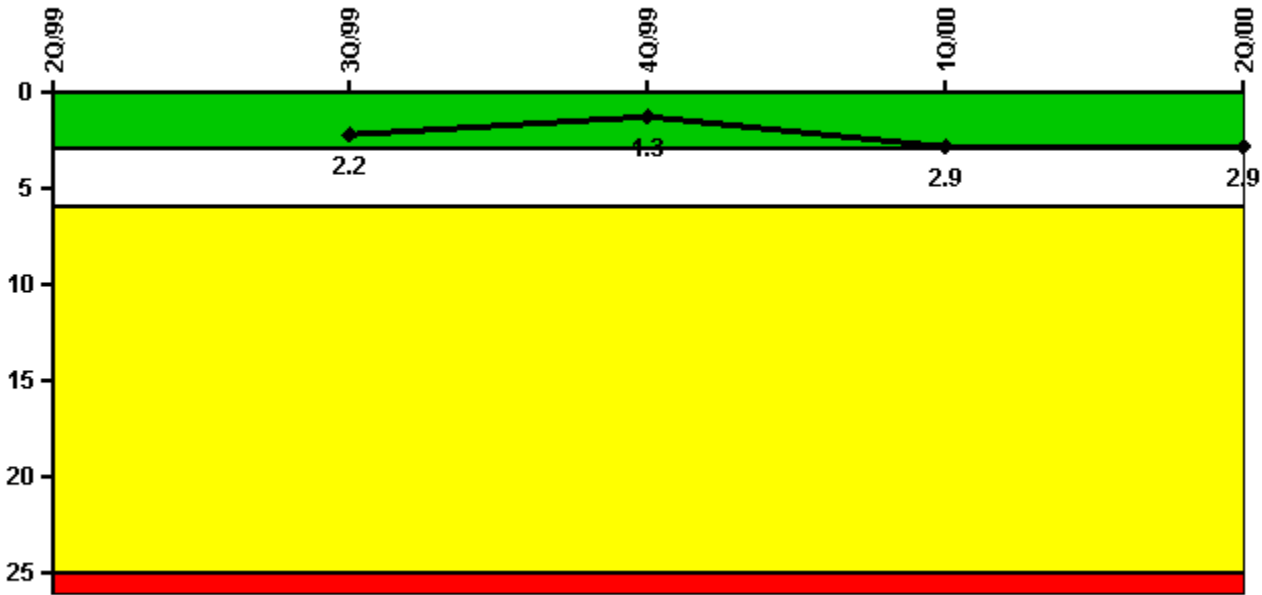


Millstone 2

2Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



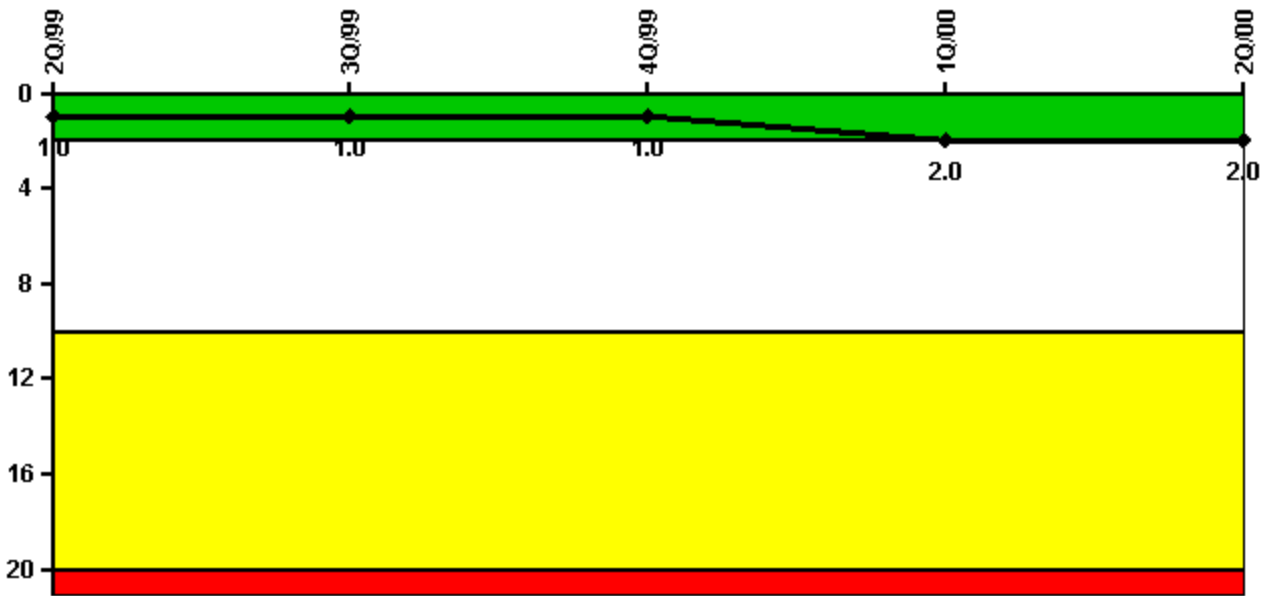
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned scrams	1.0	0	0	2.0	1.0
Critical hours	1159.7	2077.2	2209.0	1772.0	1264.3
Indicator value	N/A	2.2	1.3	2.9	2.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

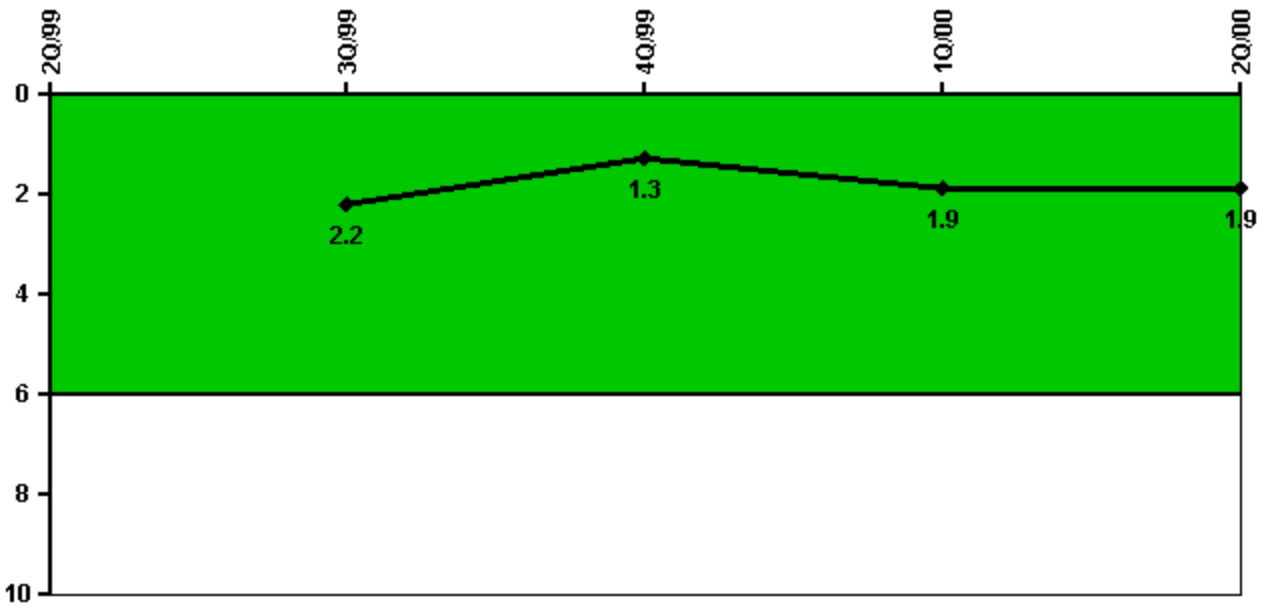
Scrams with Loss of Normal Heat Removal	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Scrams	1.0	0	0	1.0	0
Indicator value	1.0	1.0	1.0	2.0	2.0

Licensee Comments:

2Q/00: Revised to include 5/25/99 reactor trip. This revision does not result in crossing a threshold/ performance color change.

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	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	1.0	0	1.0	0
Critical hours	1159.7	2077.2	2209.0	1772.0	1264.3
Indicator value	N/A	2.2	1.3	1.9	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	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	19.25	57.87	32.12	37.00	6.93
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
Train 2					
Planned unavailable hours	19.22	58.15	37.98	40.20	10.54
Unplanned unavailable hours	0	19.00	0	0	0.02
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
Indicator value	0.5%	0.7%	0.9%	1.0%	1.0%

Licensee Comments:

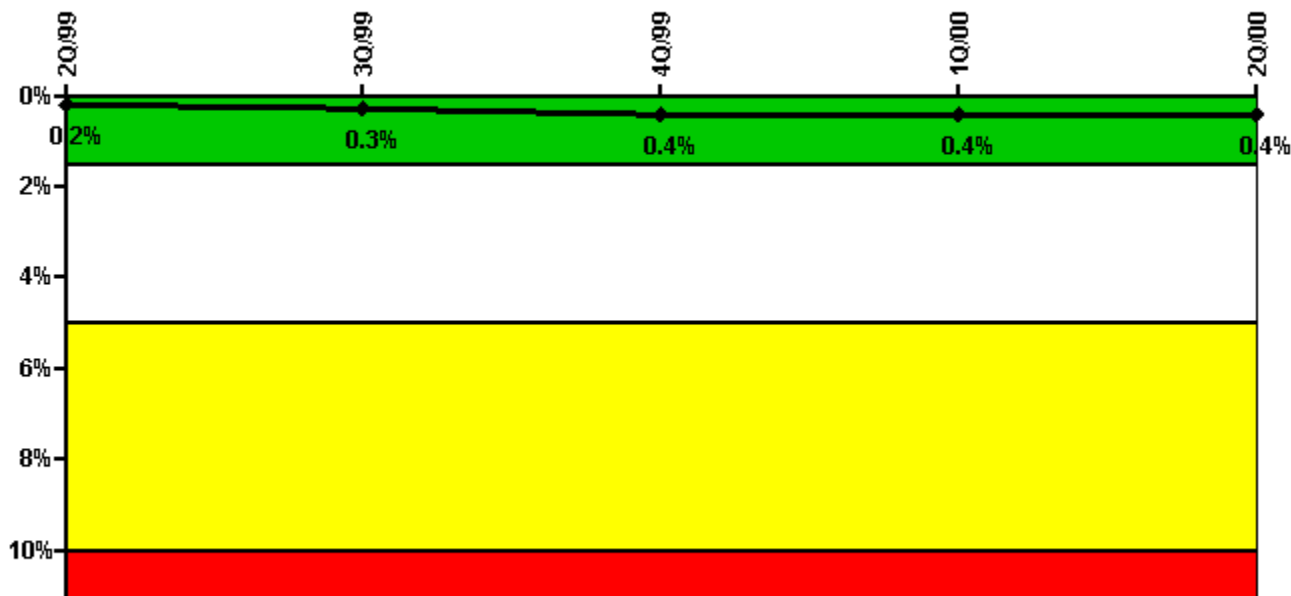
2Q/00: Revised the Train A planned unavailable hours for June, and the Train B unplanned unavailable hours for May, due to data collection errors. The changes do not result in crossing a threshold.

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)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	2.81	7.70	6.81	11.32	7.01
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	1692.00	2208.00	2209.00	1913.50	1648.40
Train 2					
Planned unavailable hours	3.30	12.03	10.33	14.29	4.46
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	1692.00	2208.00	2209.00	1913.50	1648.40
Indicator value	0.2%	0.3%	0.4%	0.4%	0.4%

Licensee Comments:

2Q/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.

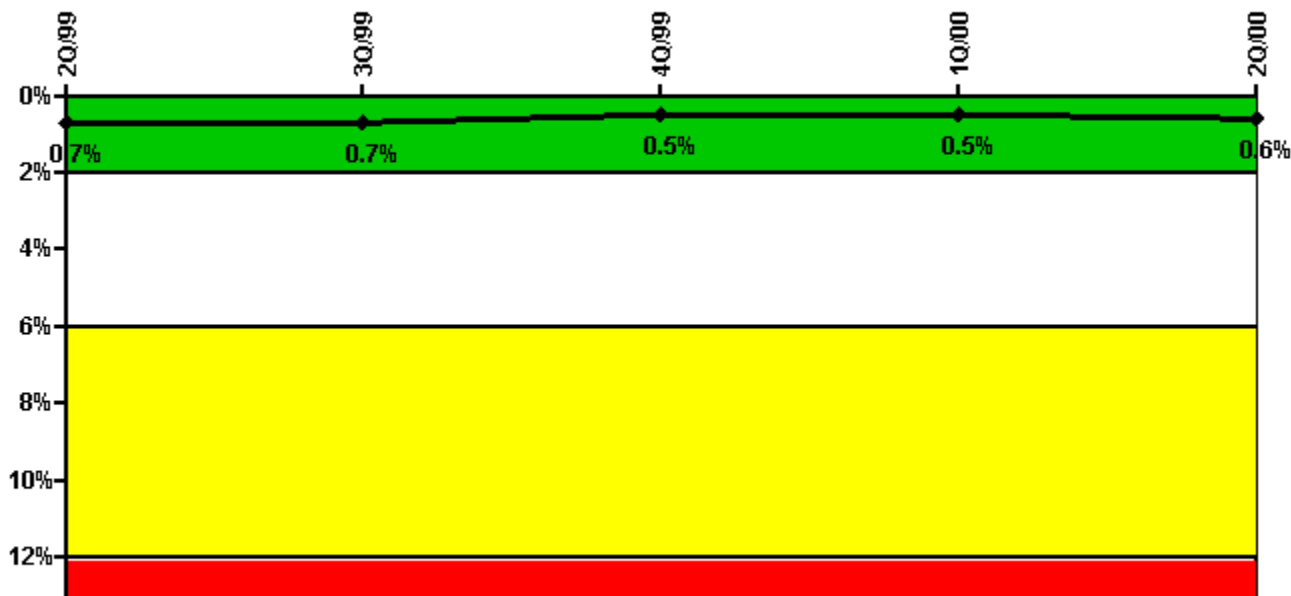
1Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs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

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%

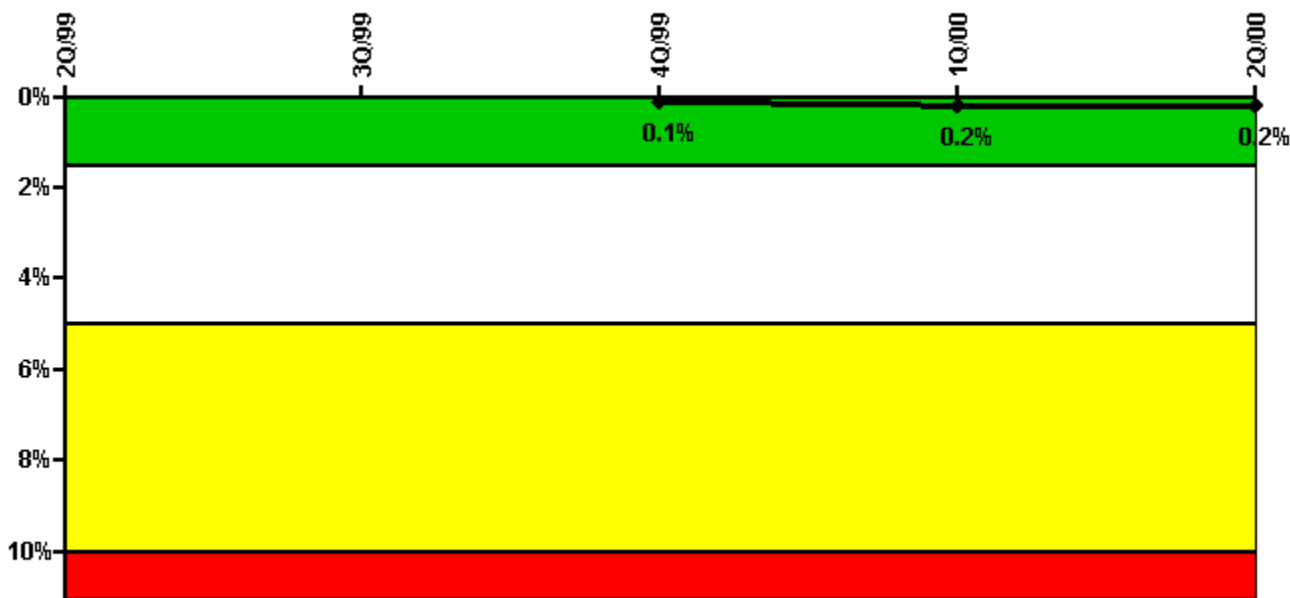
Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	5.00	5.30	5.50	11.50	6.50
Unplanned unavailable hours	0	0	0	1.00	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1159.70	2208.00	2209.00	1772.00	1264.30

Train 2					
Planned unavailable hours	1.20	21.55	8.20	2.00	3.50
Unplanned unavailable hours	7.30	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1159.70	2208.00	2209.00	1772.00	1264.30
Train 3					
Planned unavailable hours	11.10	18.90	5.55	3.75	30.10
Unplanned unavailable hours	0	0	0	5.80	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1159.70	2208.00	2209.00	1772.00	1264.30
Indicator value	0.7%	0.7%	0.5%	0.5%	0.6%

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
Train 1					
Planned unavailable hours	29.88	16.37	3.84	29.35	23.18
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	1913.50	1333.00
Train 2					
Planned unavailable hours	8.12	5.84	17.62	21.29	3.92
Unplanned unavailable hours	0	0	0	11.06	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	1913.50	1333.00
Train 3					
Planned unavailable hours	4.85	7.17	3.84	0	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	2183.00	2208.00	2209.00	269.00	826.00
Train 4					
Planned unavailable hours	4.95	5.84	17.62	0	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	2183.00	2208.00	2209.00	269.00	826.00
Indicator value			0.1%	0.2%	0.2%

Licensee Comments:

2Q/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.

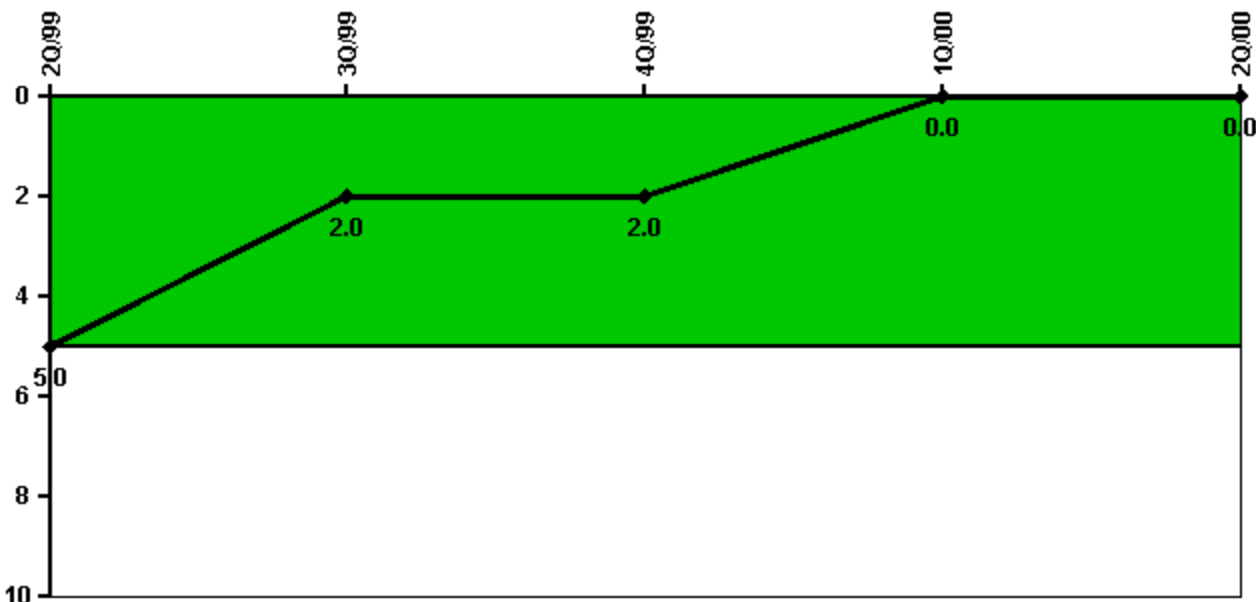
1Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections 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.

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

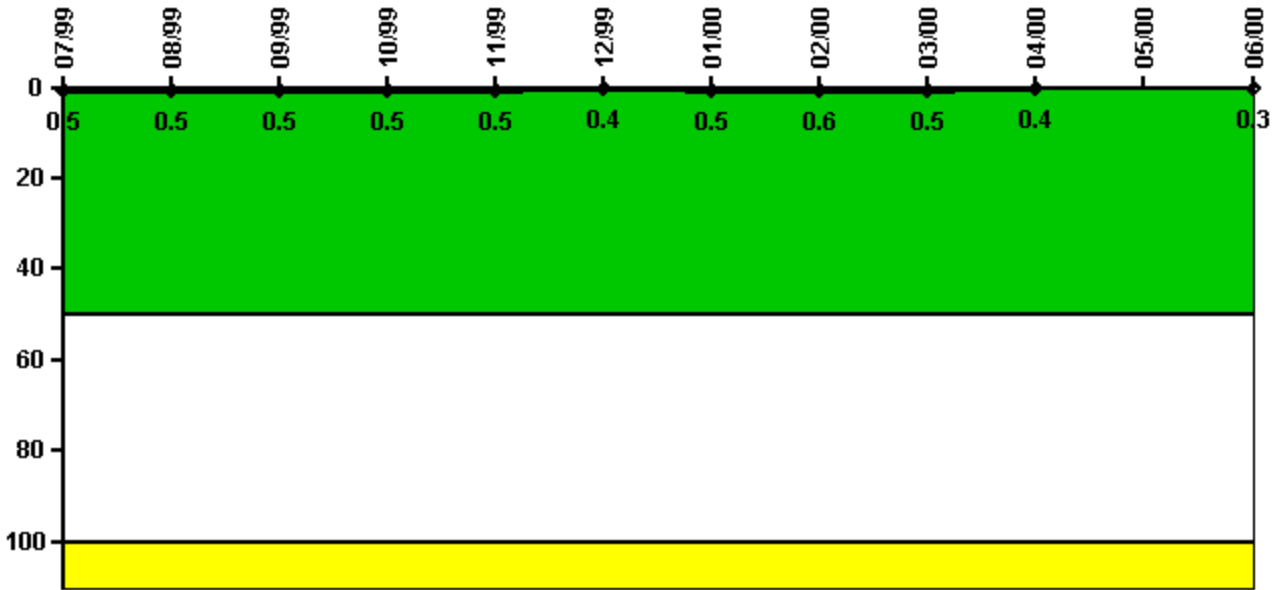
Safety System Functional Failures (PWR)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Safety System Functional Failures	0	0	0	0	0
Indicator value	5	2	2	0	0

Licensee Comments:

2Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: A correction to the data for April 2000 was made to reflect a re-evaluation of the original reportability assessment performed for LER 2000-012. Supplemental LER 2000-012-01 was issued on February 20, 2001 to recharacterize the original event as a loss of safety function. The event occurred on April 19, 2000 when both chilled water pumps associated with the redundant vital DC switchgear cooling systems became air bound. Adjusting the data did not result in any threshold being crossed.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

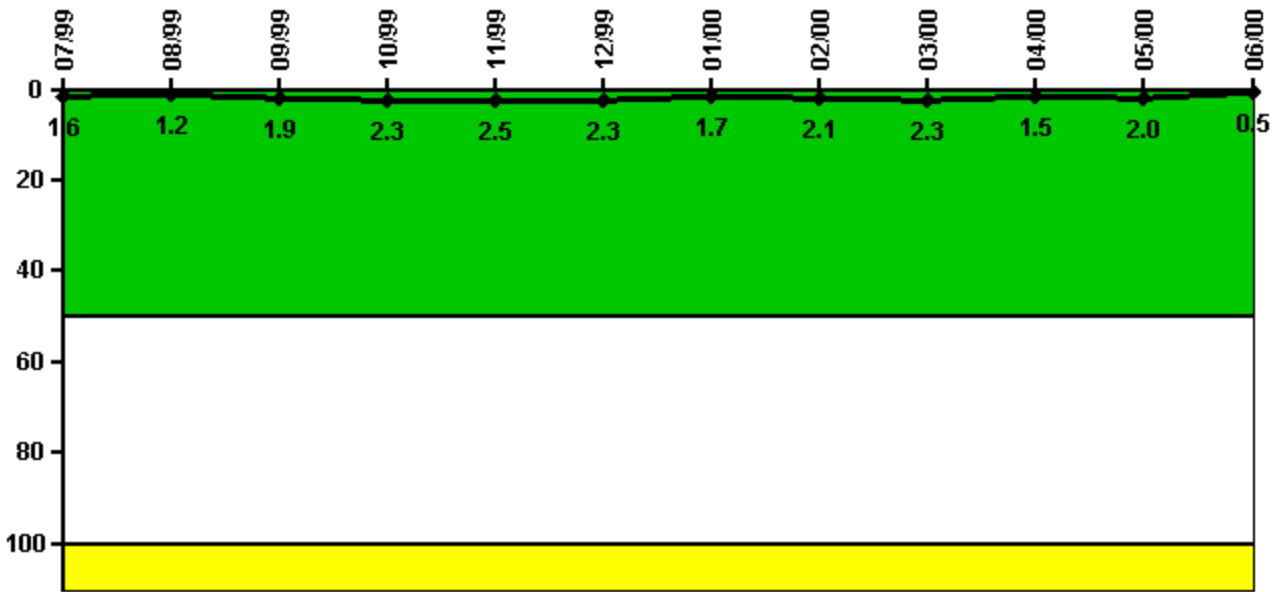
Reactor Coolant System Activity	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum activity	0.004580	0.004910	0.004510	0.004580	0.004580	0.004460	0.005470	0.005510	0.005260	0.003990	N/A	0.002960
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.5	0.4	N/A	0.3

Licensee Comments:

6/00: The indicator is N/A for the month of May since the unit was in a planned refueling outage.

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.

Reactor Coolant System Leakage



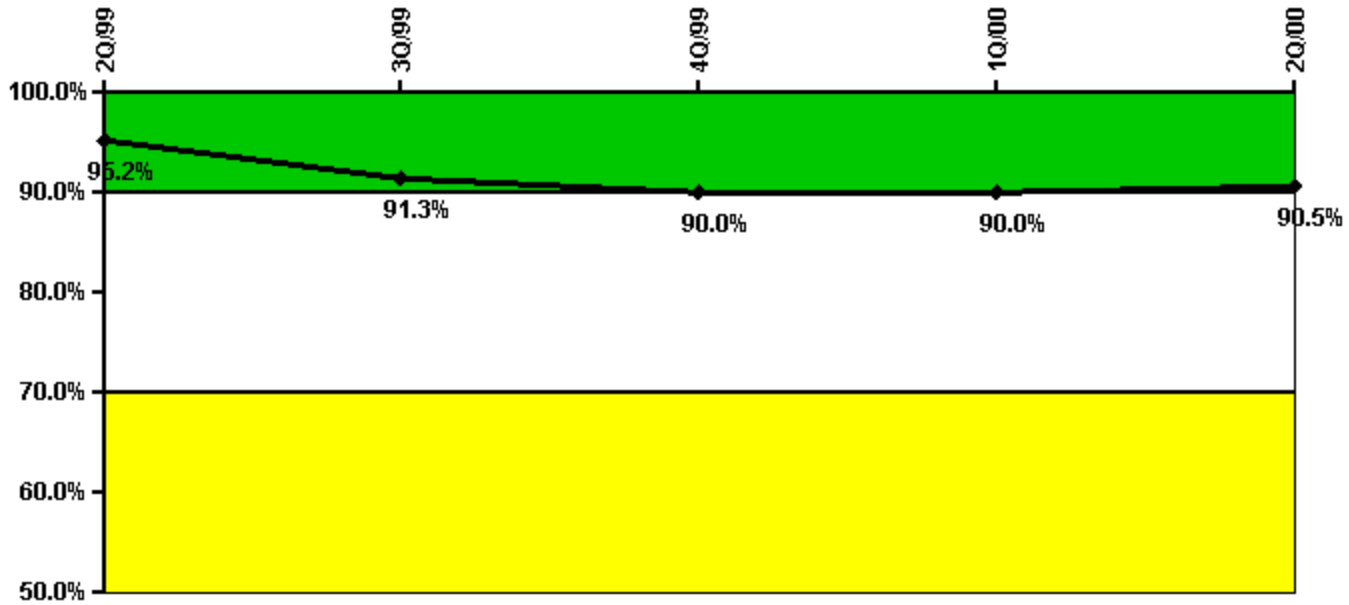
Thresholds: White > 50.0 Yellow > 100.0

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	0.160	0.120	0.190	0.230	0.250	0.230	0.170	0.210	0.230	0.150	0.198	0.051
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	1.6	1.2	1.9	2.3	2.5	2.3	1.7	2.1	2.3	1.5	2.0	0.5

Licensee Comments: none

Drill/Exercise Performance



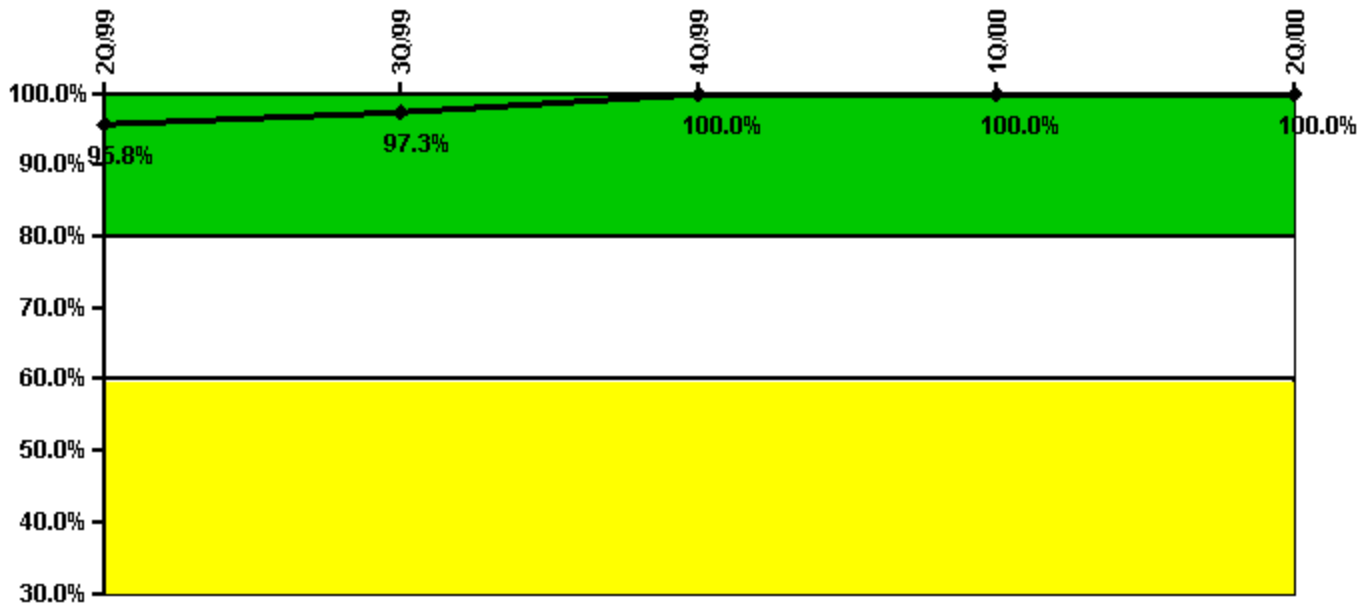
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful opportunities	2.0	15.0	12.0	27.0	14.0
Total opportunities	2.0	20.0	14.0	28.0	14.0
Indicator value	95.2%	91.3%	90.0%	90.0%	90.5%

Licensee Comments: none

ERO Drill Participation



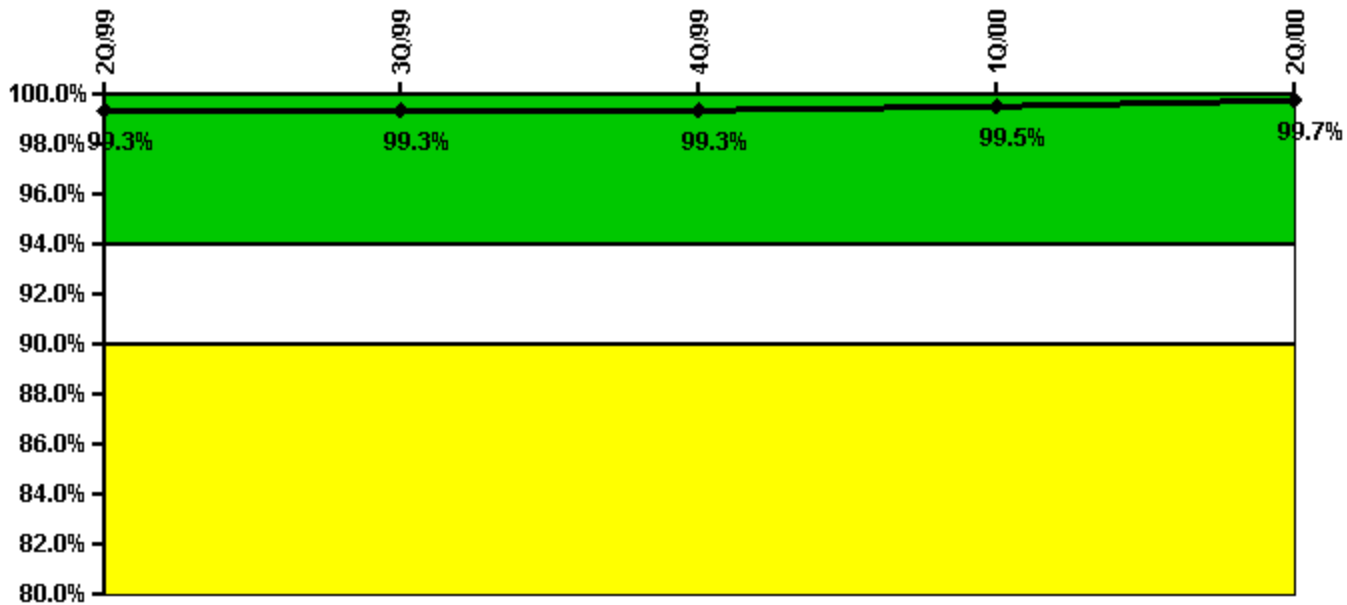
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel	69.0	71.0	74.0	76.0	55.0
Total Key personnel	72.0	73.0	74.0	76.0	55.0
Indicator value	95.8%	97.3%	100.0%	100.0%	100.0%

Licensee Comments: none

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	329	336	335	304	308
Total sirens-tests	331	337	336	306	308
Indicator value	99.3%	99.3%	99.3%	99.5%	99.7%

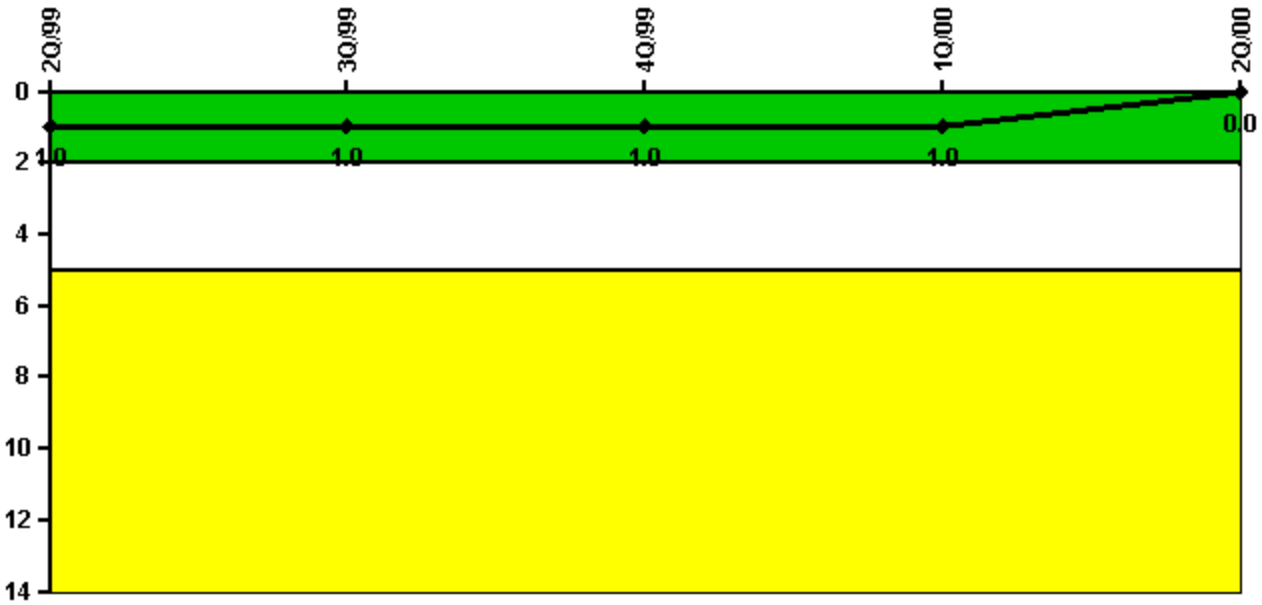
Licensee Comments:

2Q/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.

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



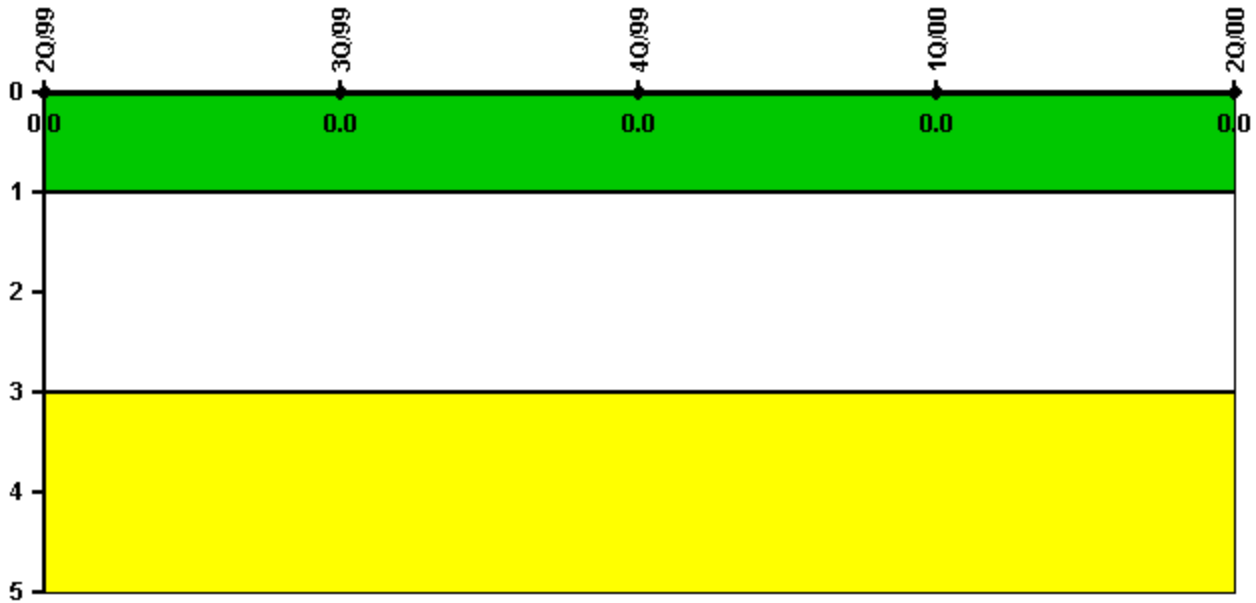
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



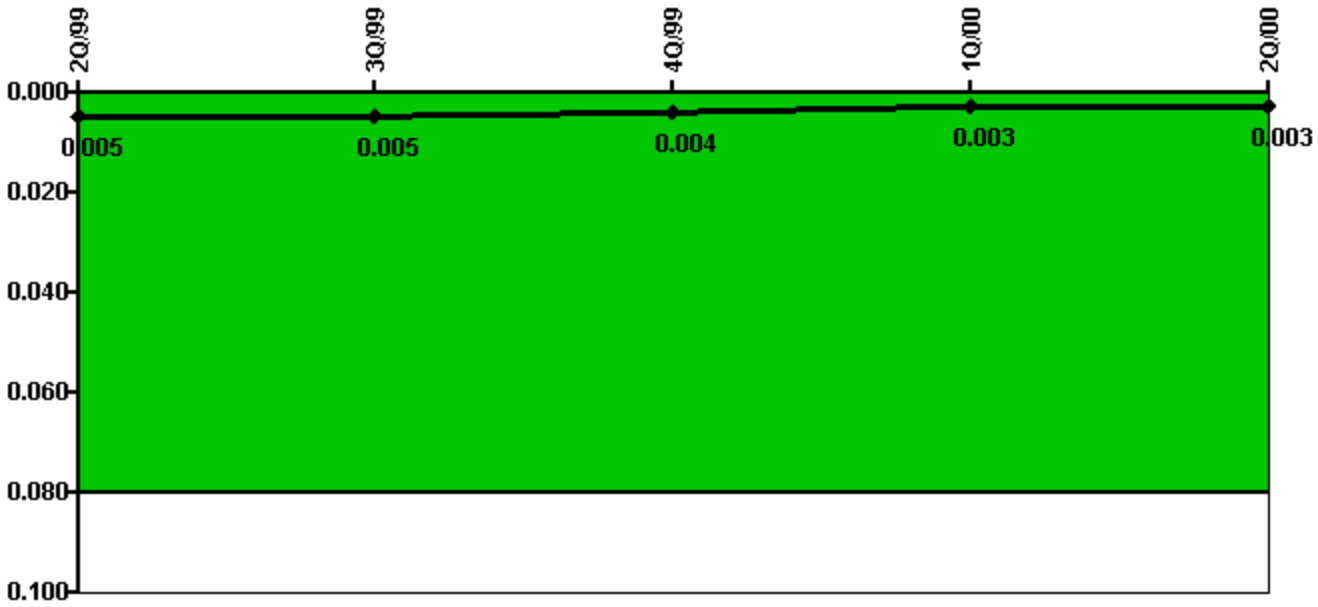
Thresholds: White > 1.0 Yellow > 3.0

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



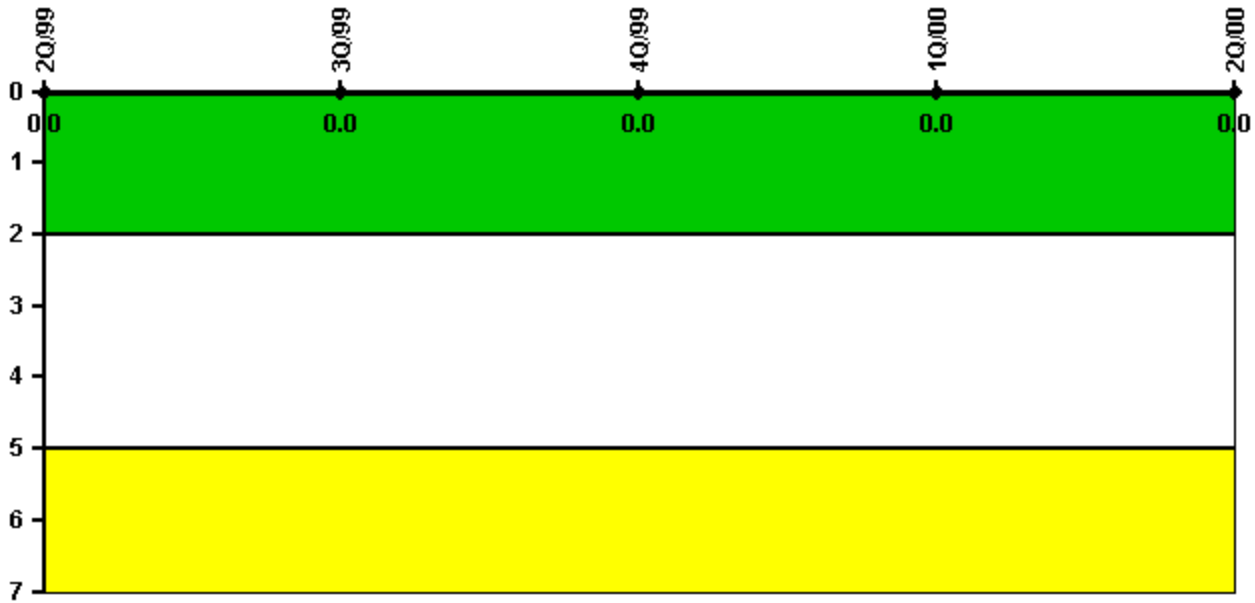
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
IDS compensatory hours	60.00	44.00	17.70	29.10	15.10
CCTV compensatory hours	0	0	0.5	0	29.1
IDS normalization factor	2.55	2.55	2.55	2.55	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1
Index Value	0.005	0.005	0.004	0.003	0.003

Licensee Comments: none

Personnel Screening Program



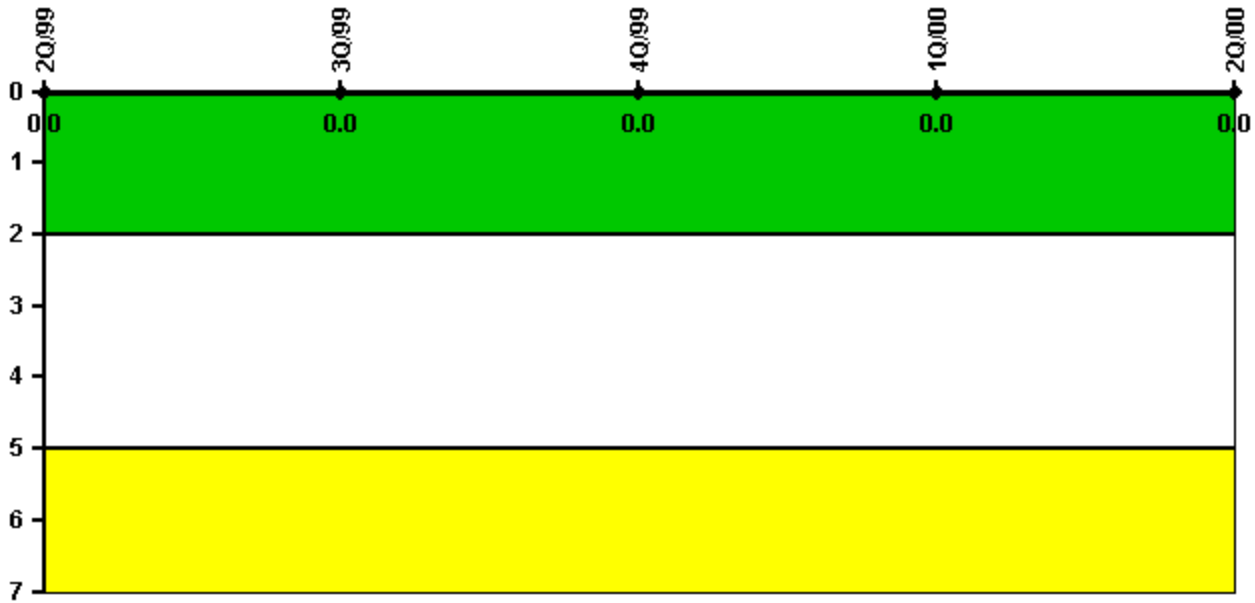
Thresholds: White > 2.0 Yellow > 5.0

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

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

Last Modified: April 1, 2002