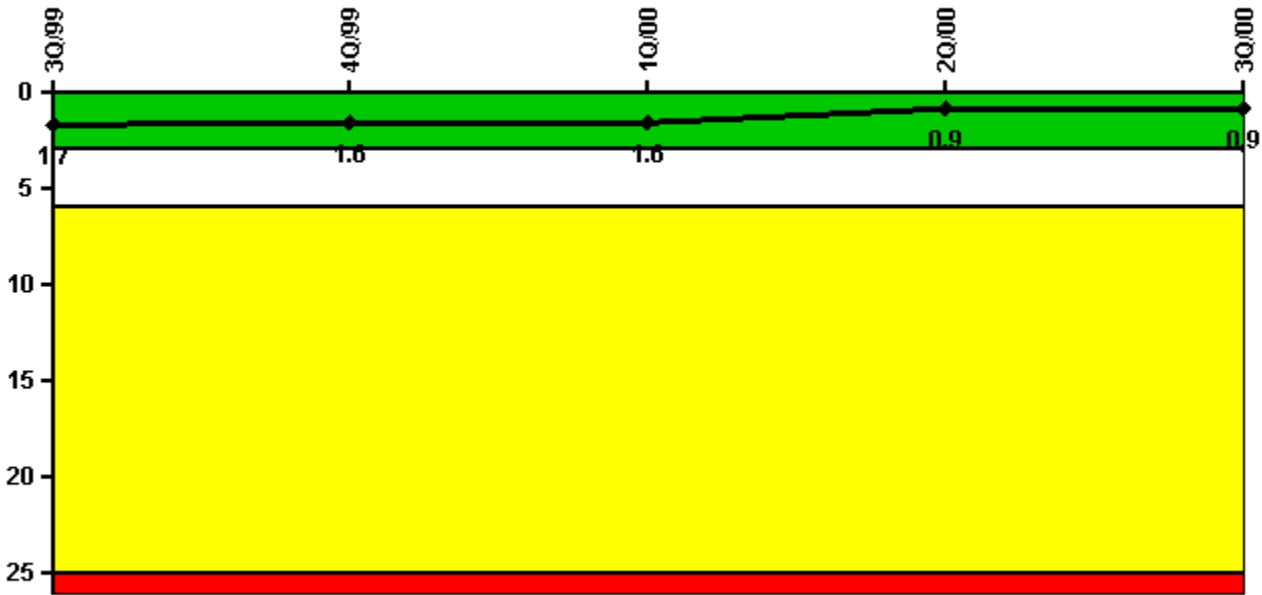


Limerick 1

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	1.0	0
Critical hours	2208.0	2209.0	2127.8	1589.0	2208.0
Indicator value	1.7	1.6	1.6	0.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



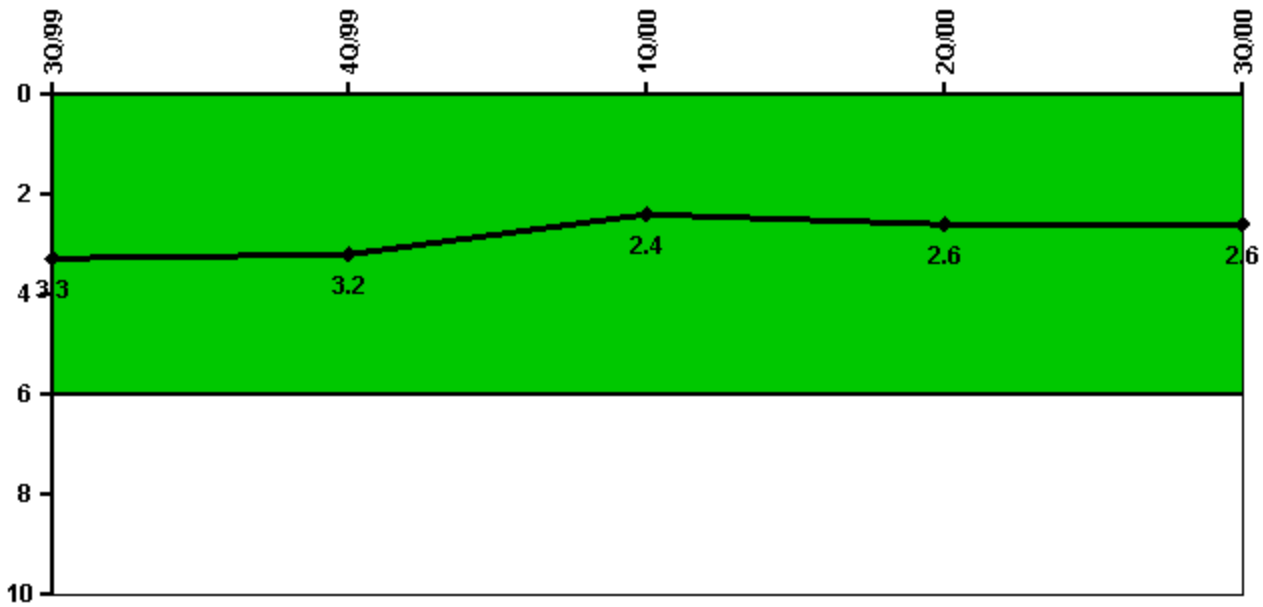
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



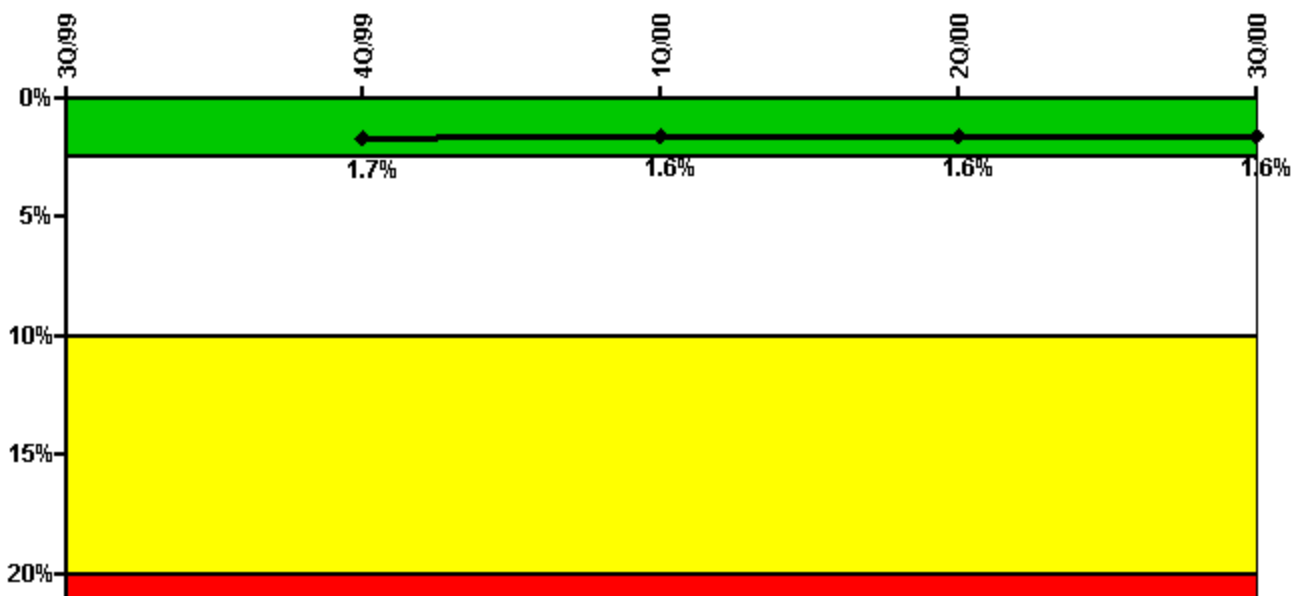
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	0	2.0	0	1.0	0
Critical hours	2208.0	2209.0	2127.8	1589.0	2208.0
Indicator value	3.3	3.2	2.4	2.6	2.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



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

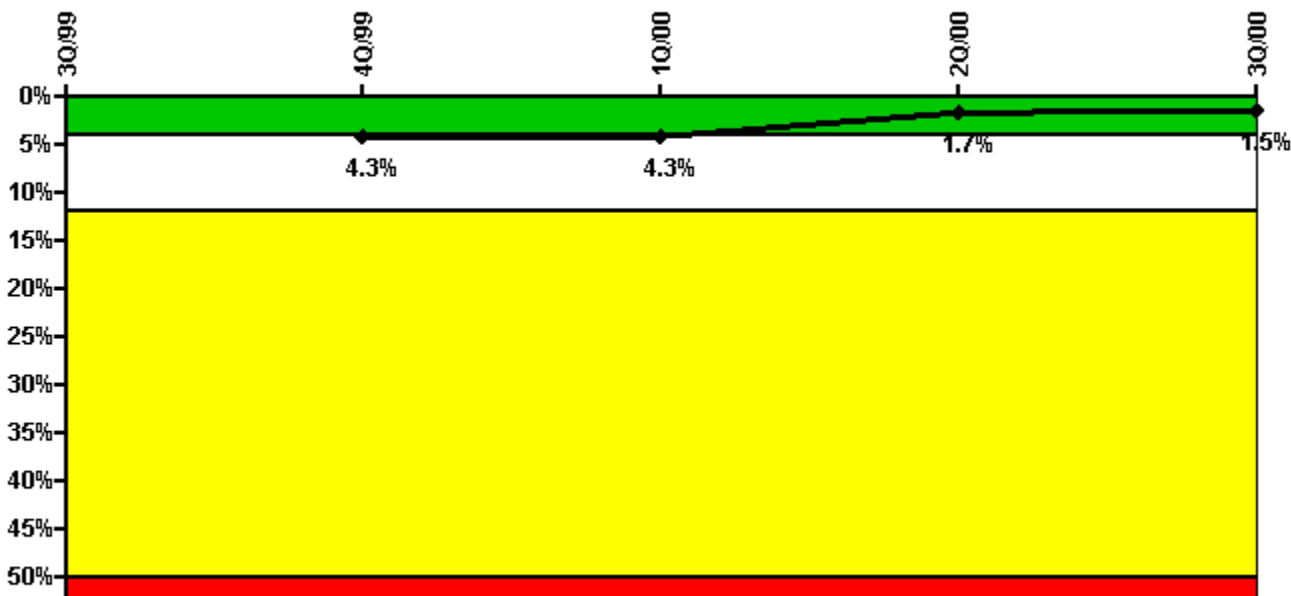
Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	357.29	0	2.42	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	2208.00	2208.00	2184.00	1906.26	2208.00
Train 2					
Planned unavailable hours	187.14	0	0	0	0
Unplanned unavailable hours	0	0	14.65	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2208.00	2184.00	1906.26	2208.00
Train 3					
Planned unavailable hours	2.38	0	10.61	0	0
Unplanned unavailable hours	0	0	9.79	0	0.66
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2208.00	2184.00	1906.26	2208.00
Train 4					
Planned unavailable hours	1.22	0	17.23	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	2208.00	2208.00	2184.00	1906.26	2208.00
Indicator value		1.7%	1.6%	1.6%	1.6%

Licensee Comments:

1Q/00: Removed 168.08 hours of planned unavailability on Train 4 in January 2000 since these hours qualify as on-line planned overhaul maintenance. Overhauls are exempted from planned unavailability per NEI 99-02, Rev. 0, Page 4, lines 23-27 and Page 27, lines 2-8. (Entry made 10-3-2000)

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)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	0	30.20	0	0
Unplanned unavailable hours	0	0	0	1.30	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	652.50	0
Required hours	2208.00	2209.00	2127.80	1589.00	2208.00
Indicator value		4.3%	4.3%	1.7%	1.5%

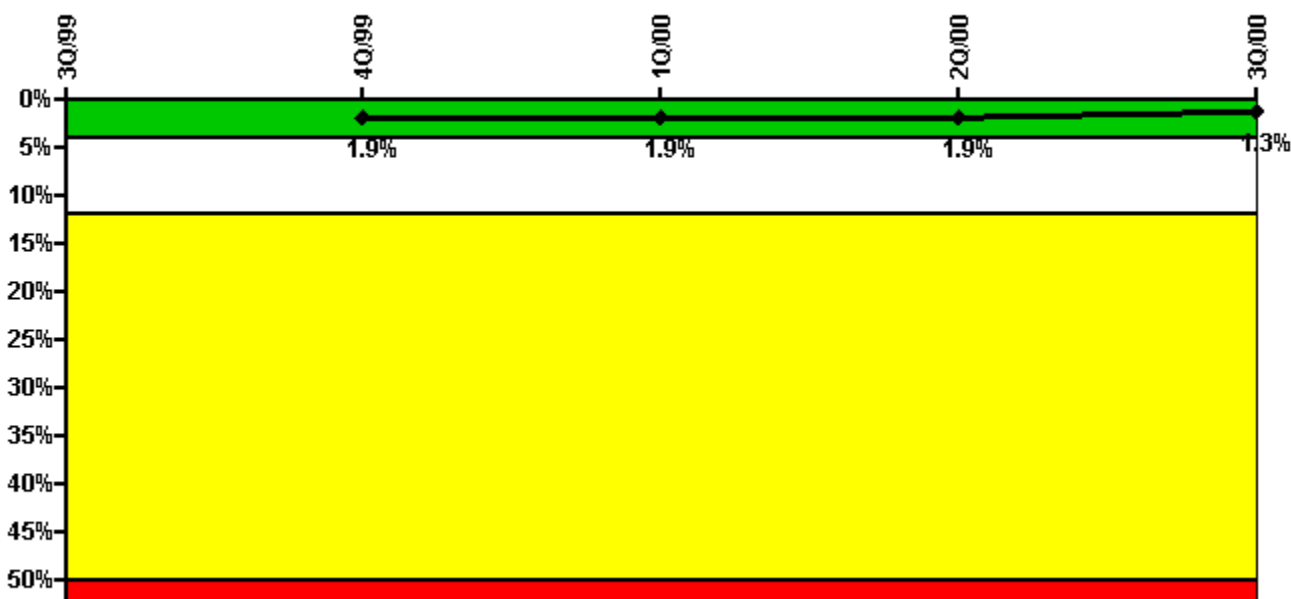
Licensee Comments:

2Q/99: 184.6 hours fault exposure unavailability from May, 1999 and 467.9 hours fault exposure unavailability from June, 1999 have been removed from this PI. These fault exposure hours were the result of a HPCI failure to start that occurred in June, 1999 due to EG-R corrosion. These fault exposure hours are being removed from the PI because 4 quarters have elapsed from the time of discovery and the following criteria of NEI 99-02, Revision 0, section 2.2 have been met: 1) The fault exposure hours associated with this item are greater than 336 hours. 2) Corrective actions to prevent recurrence of EG-R binding have been implemented. 3) NRC Inspection Report 05000352/2000-1; 05000353/2000-1 concluded that "...corrective actions for the June 1999 Unit 1 HPCI system failure were appropriate and had been implemented in a timely manner. No additional supplemental inspection is required for this issue."

Effective Reset Comments:

2Q/00: 184.6 hours fault exposure unavailability from May, 1999 and 467.9 hours fault exposure unavailability from June, 1999 have been removed from this PI. These fault exposure hours were the result of a HPCI failure to start that occurred in June, 1999 due to EG-R corrosion. These fault exposure hours are being removed from the PI because 4 quarters have elapsed from the time of discovery and the following criteria of NEI 99-02, Revision 0, section 2.2 have been met: 1) The fault exposure hours associated with this item are greater than 336 hours. 2) Corrective actions to prevent recurrence of EG-R binding have been implemented. 3) NRC Inspection Report 05000352/2000-1; 05000353/2000-1 concluded that "...corrective actions for the June 1999 Unit 1 HPCI system failure were appropriate and had been implemented in a timely manner. No additional supplemental inspection is required for this issue."

Safety System Unavailability, Heat Removal System (RCIC)



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

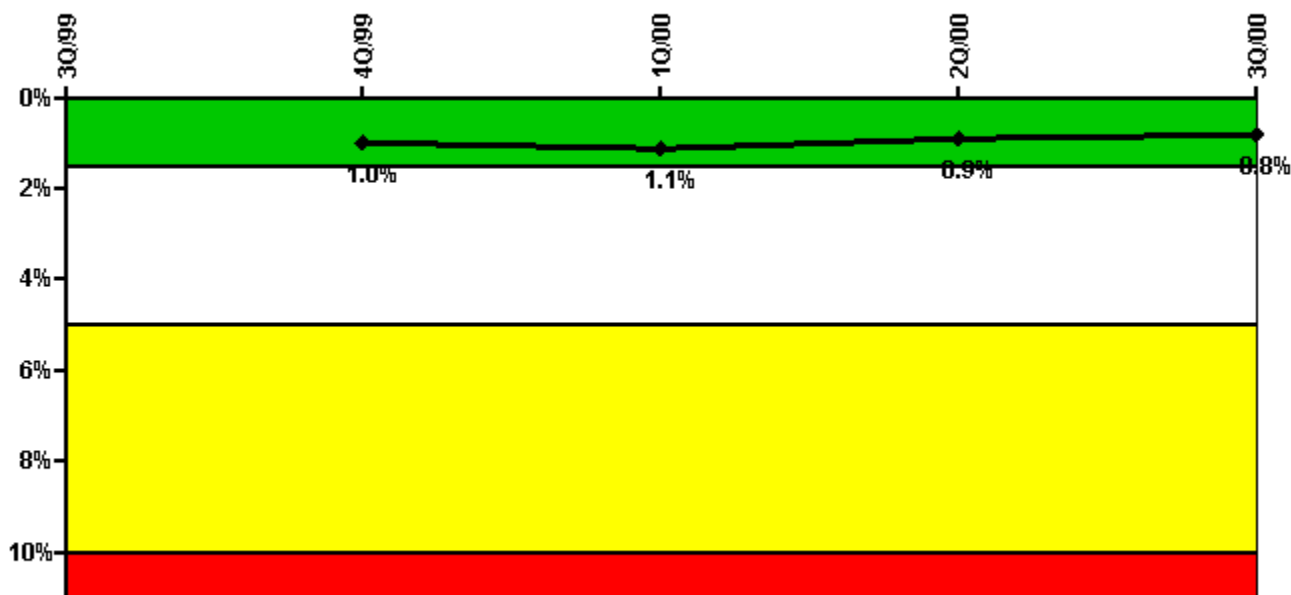
Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	74.42	3.40	8.80	1.90	7.10
Unplanned unavailable hours	62.72	0	4.40	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2127.80	1589.00	2208.00
Indicator value		1.9%	1.9%	1.9%	1.3%

Licensee Comments:

3Q/00: Planned unavailability data was revised historically from Jan 98 to present to account for (additional) unavailability which originally was not accounted for.

Safety System Unavailability, Residual Heat Removal System



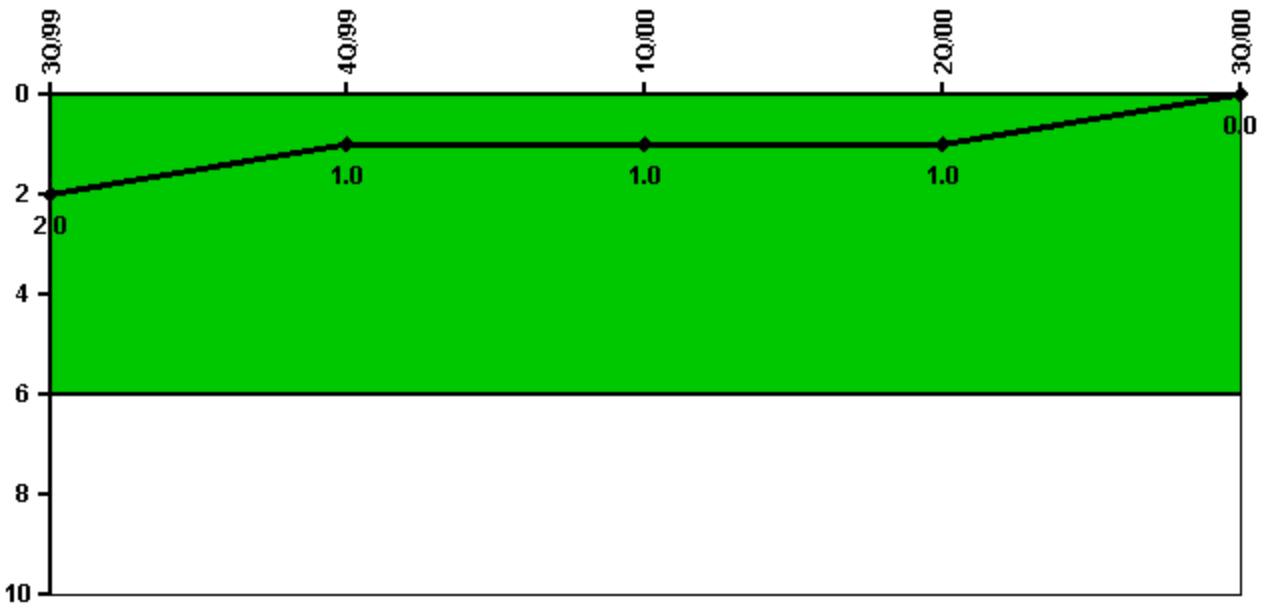
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	0	19.82	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	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	0	42.80	21.85	0	0
Unplanned unavailable hours	0	1.00	21.00	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
Indicator value		1.0%	1.1%	0.9%	0.8%

Licensee Comments: none

Safety System Functional Failures (BWR)



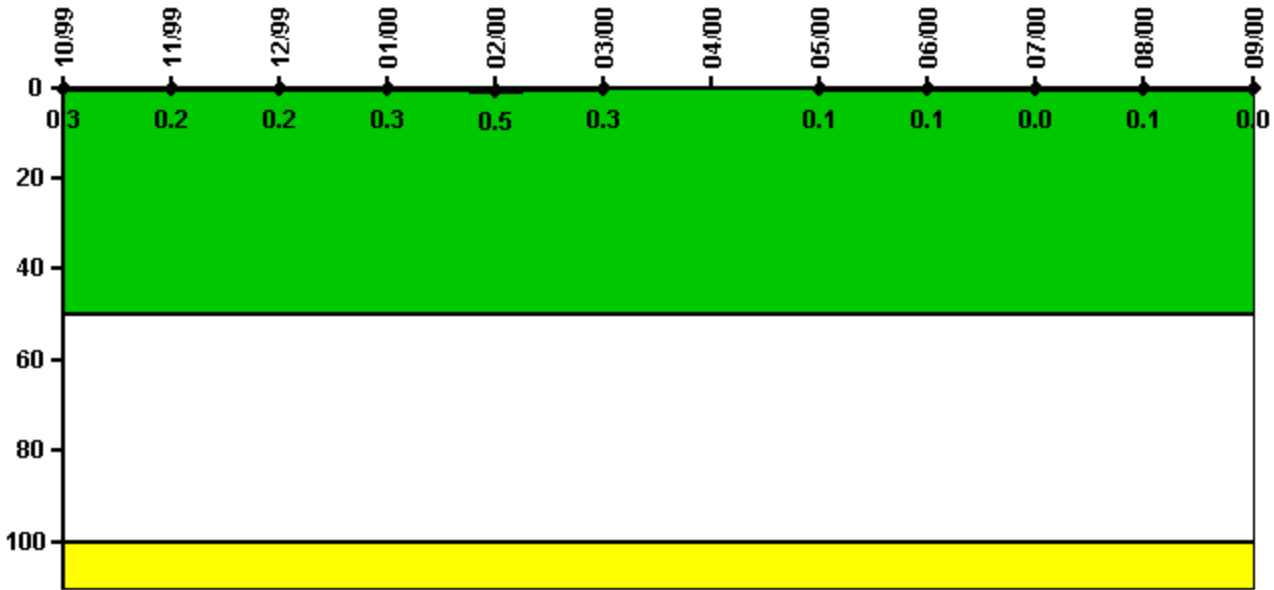
Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



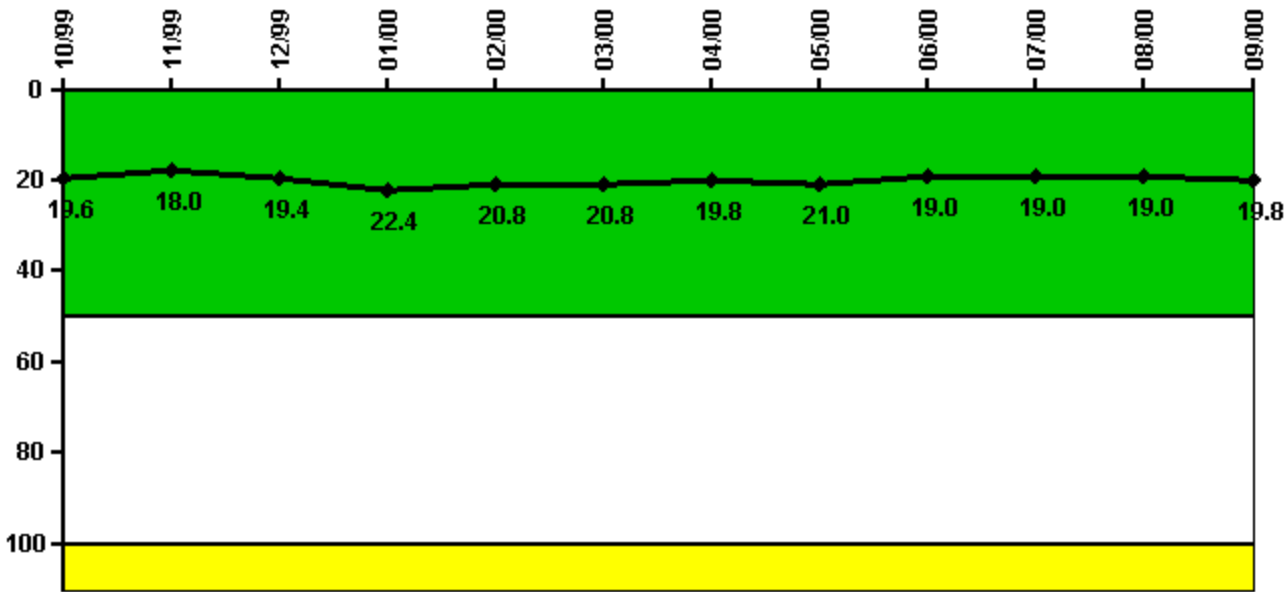
Thresholds: White > 50.0 Yellow > 100.0

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	0.000503	0.000493	0.000475	0.000508	0.000914	0.000605	N/A	0.000125	0.000101	0.000073	0.000100	0.000091
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	0.2	0.2	0.3	0.5	0.3	N/A	0.1	0.1	0	0.1	0

Licensee Comments: none

Reactor Coolant System Leakage



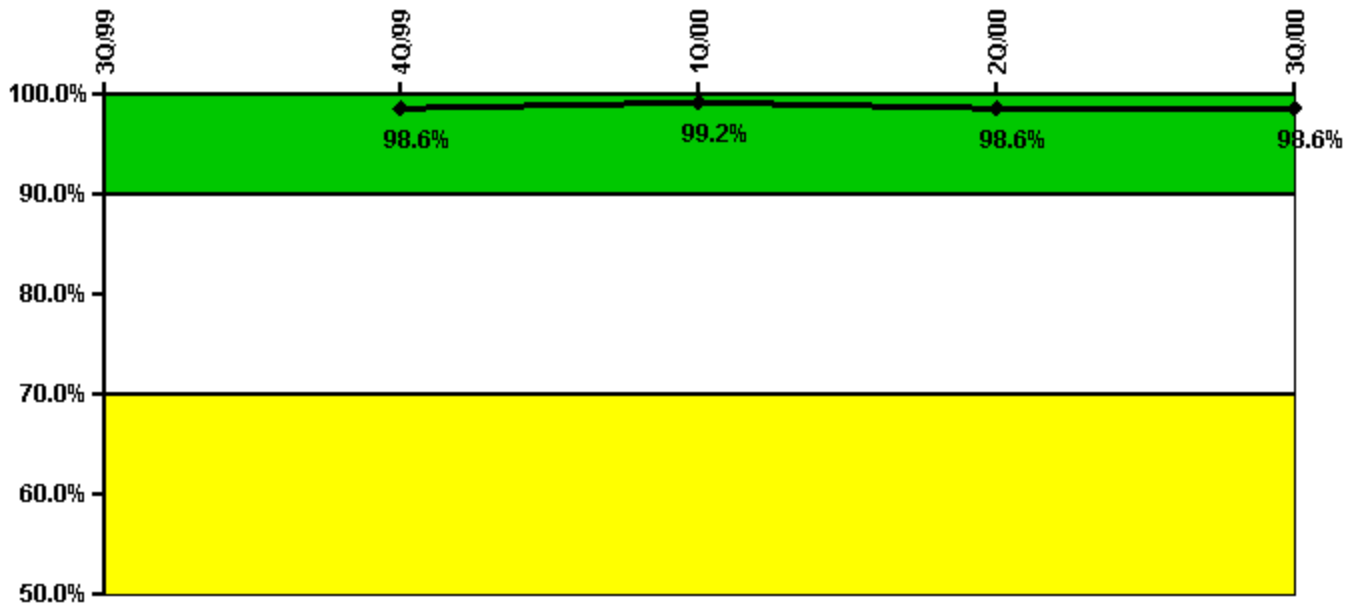
Thresholds: White > 50.0 Yellow > 100.0

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	4.900	4.500	4.850	5.600	5.200	5.200	4.960	5.260	4.760	4.760	4.760	4.960
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	19.6	18.0	19.4	22.4	20.8	20.8	19.8	21.0	19.0	19.0	19.0	19.8

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

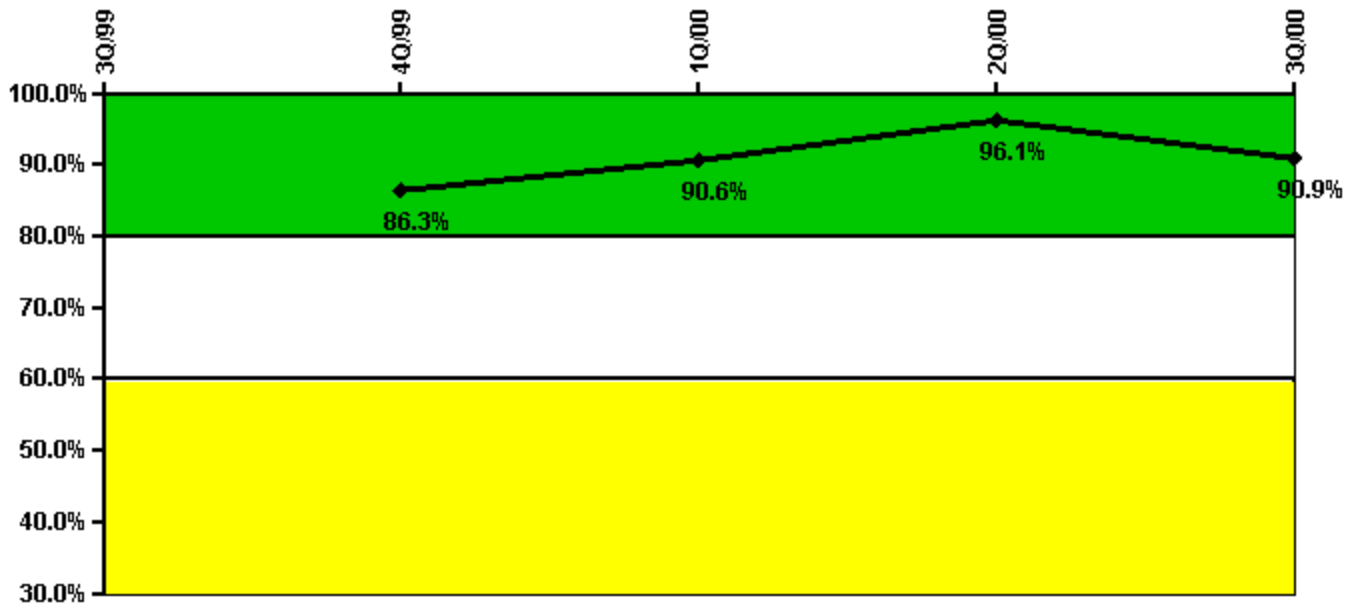
Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	37.0	11.0	67.0	9.0	0
Total opportunities	38.0	11.0	67.0	10.0	0
Indicator value		98.6%	99.2%	98.6%	98.6%

Licensee Comments:

2Q/00: A total of 6 opportunities were removed from the database for drills covering the period of 06/14/2000 to 2/15/2001 because they were determined to be invalid notification opportunities.

ERO Drill Participation



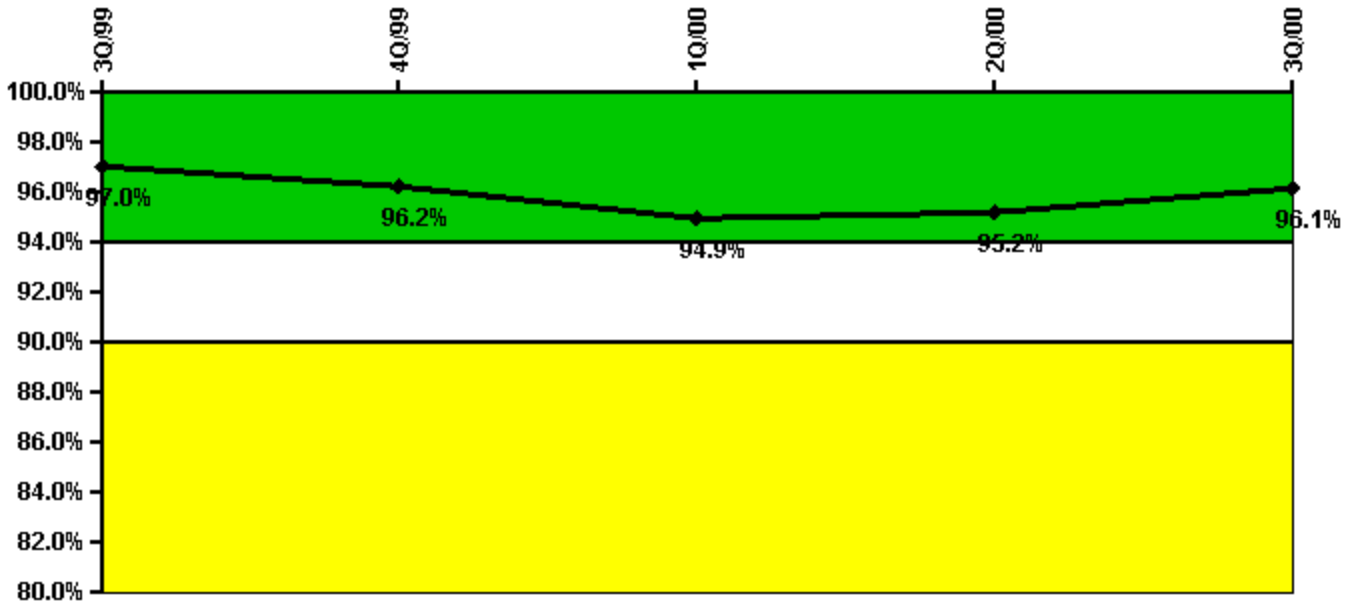
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel		44.0	48.0	49.0	50.0
Total Key personnel		51.0	53.0	51.0	55.0
Indicator value		86.3%	90.6%	96.1%	90.9%

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	475	467	459	954	2561
Total sirens-tests	495	495	495	990	2640
Indicator value	97.0%	96.2%	94.9%	95.2%	96.1%

Licensee Comments:

2Q/00: Limerick siren performance percentages have changed due to inadequate maintenance practices, which resulted in degraded siren performance. The percentage change did not cause a change in the overall PI color. All sirens have been inspected and appropriate corrective actions have been taken to correct identified deficiencies. Accelerated testing frequencies continue and good overall siren performance has been restored.

2Q/00: Limerick siren performance percentages have changed due to inadequate maintenance practices, which resulted in degraded siren performance. The percentage change did not cause a change in the overall PI color. All sirens have been inspected and appropriate corrective actions have been taken to correct identified deficiencies. Accelerated testing frequencies continue and good overall siren performance has been restored.

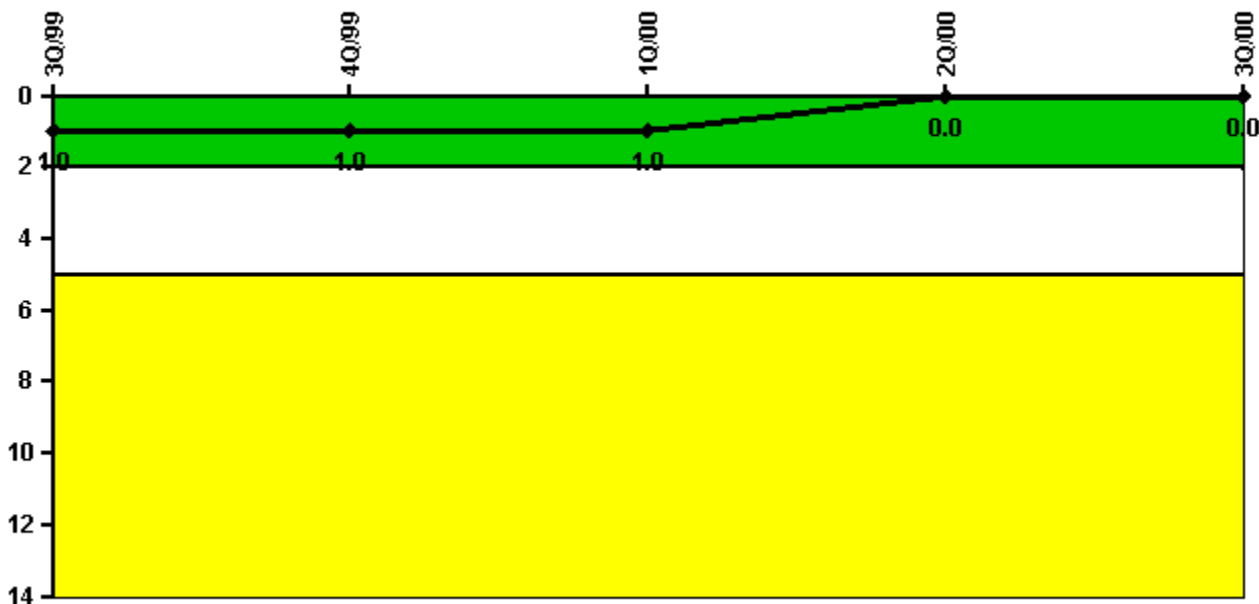
1Q/00: Limerick siren performance percentages have changed due to inadequate maintenance practices, which resulted in degraded siren performance. The percentage change did not cause a change in the overall PI color. All sirens have been inspected and appropriate corrective actions have been taken to correct identified deficiencies. Accelerated testing frequencies continue and good overall siren performance has been restored.

1Q/00: Limerick siren performance percentages have changed due to inadequate maintenance practices, which resulted in degraded siren performance. The percentage change did not cause a change in the overall PI color. All sirens have been inspected and appropriate corrective actions have been taken to correct identified deficiencies. Accelerated testing frequencies continue and good overall siren performance has been restored.

1Q/00: Limerick siren performance percentages have changed due to inadequate maintenance practices, which resulted in degraded siren performance. The percentage change did not cause a change in the overall PI color. All sirens have been inspected and appropriate corrective actions have been taken to correct identified deficiencies. Accelerated testing frequencies continue and good overall siren performance has been restored.

4Q/99: Limerick siren performance percentages have changed due to inadequate maintenance practices, which resulted in degraded siren performance. The percentage change did not cause a change in the overall PI color. All sirens have been inspected and appropriate corrective actions have been taken to correct identified deficiencies. Accelerated testing frequencies continue and good overall siren performance has been restored.

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
Indicator value	1	1	1	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



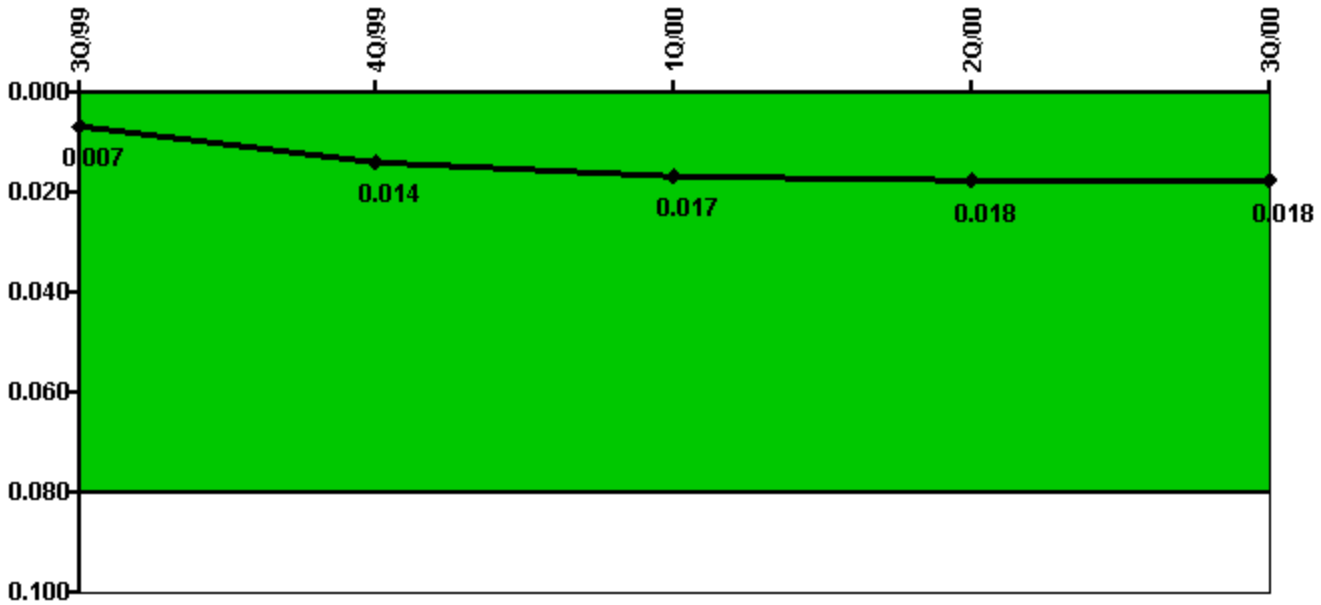
Thresholds: White > 1.0 Yellow > 3.0

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	63.25	357.70	143.40	63.20	29.50
CCTV compensatory hours	2.8	0	17.6	36.4	16.1
IDS normalization factor	2.35	2.35	2.35	2.35	2.35
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2
Index Value	0.007	0.014	0.017	0.018	0.018

Licensee Comments: none

Personnel Screening Program



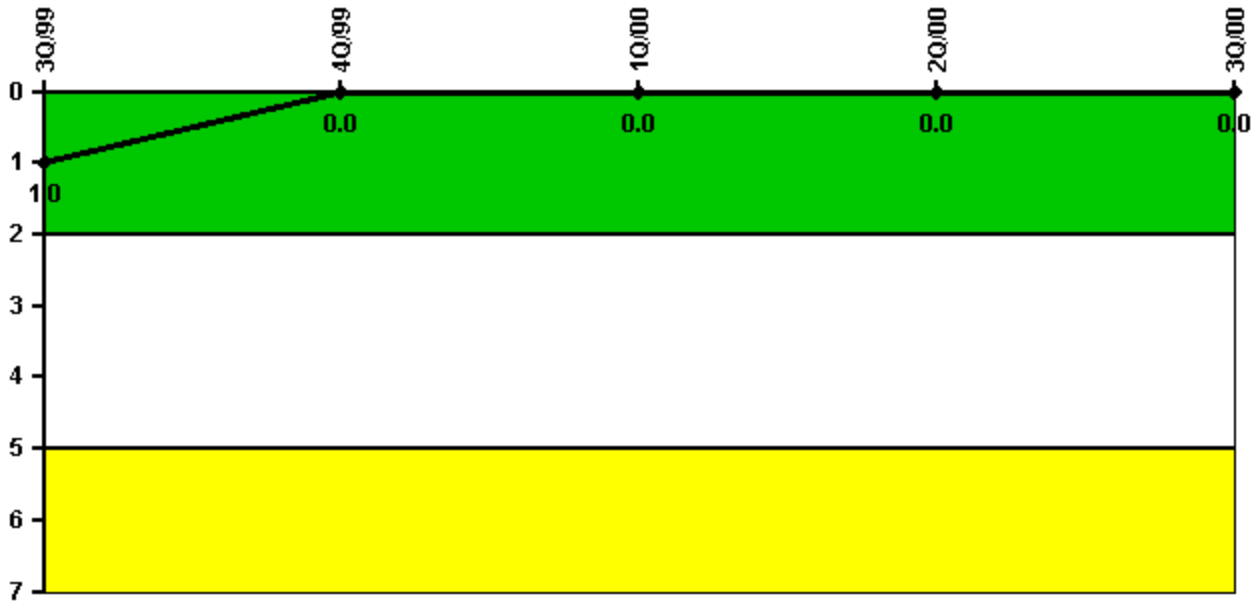
Thresholds: White > 2.0 Yellow > 5.0

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	1	0	0	0	0

Licensee Comments: none

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

Last Modified: March 29, 2002