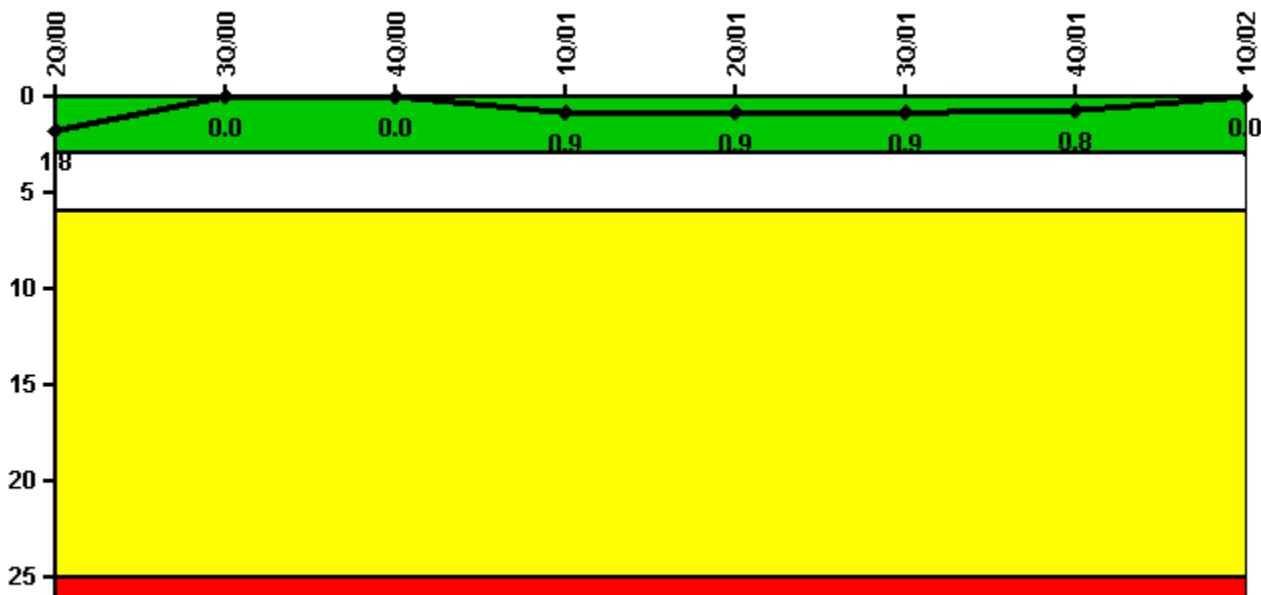


Waterford 3

1Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



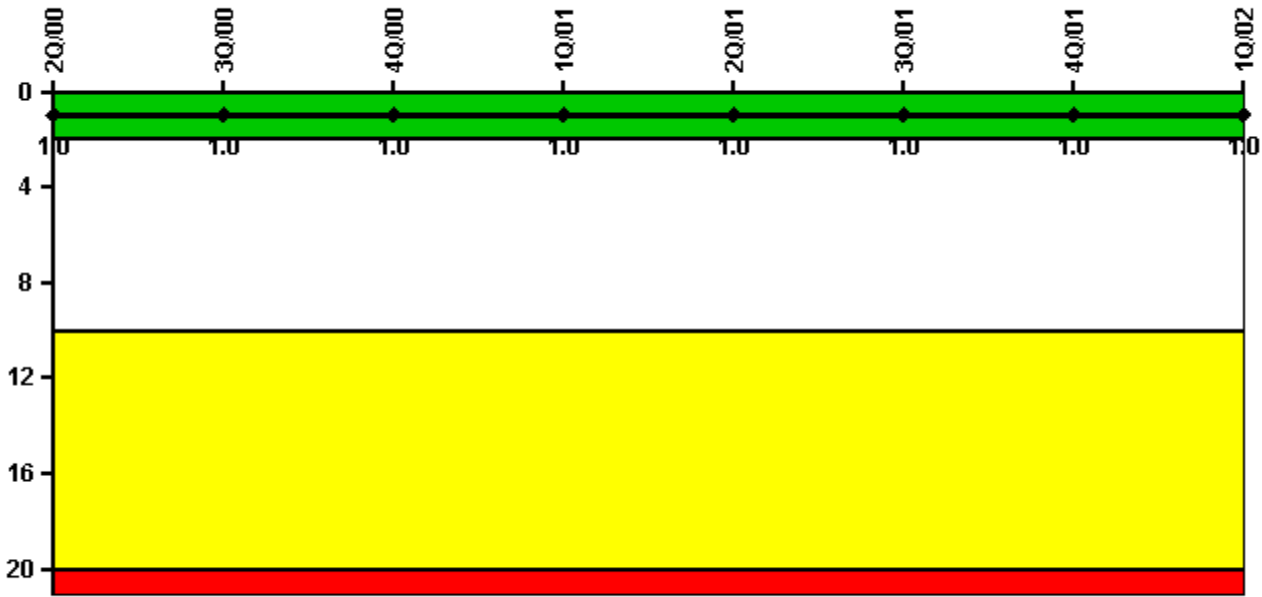
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2029.6	2208.0	1410.7	2127.0	2183.0	2208.0	2209.0	1942.9
Indicator value	1.8	0	0	0.9	0.9	0.9	0.8	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



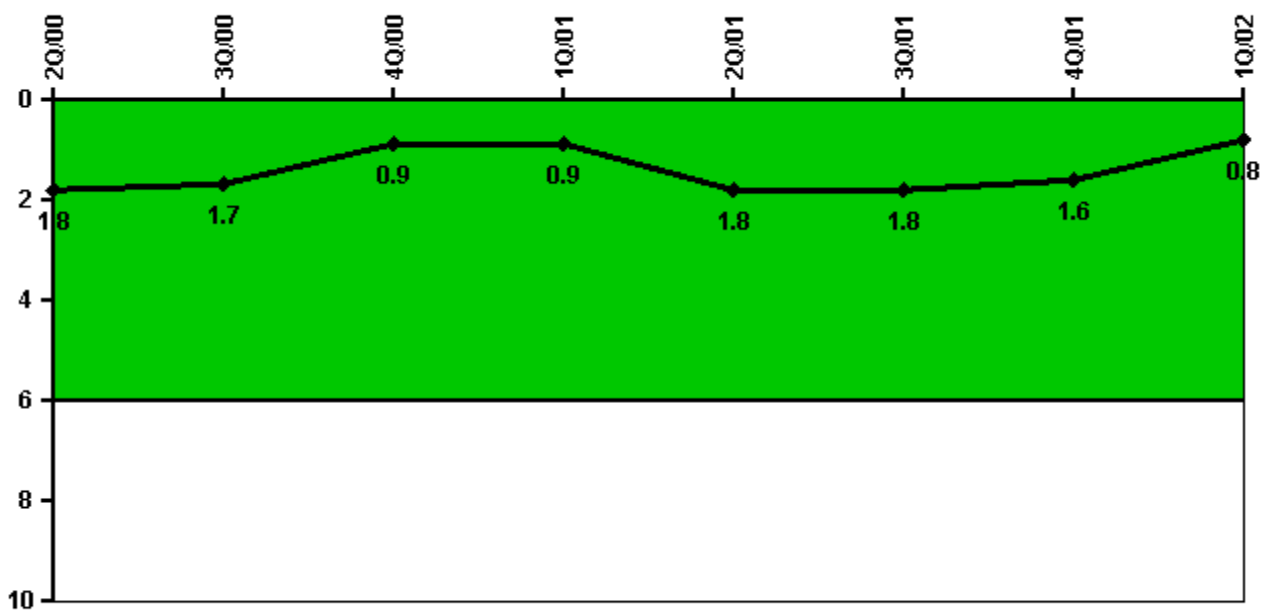
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



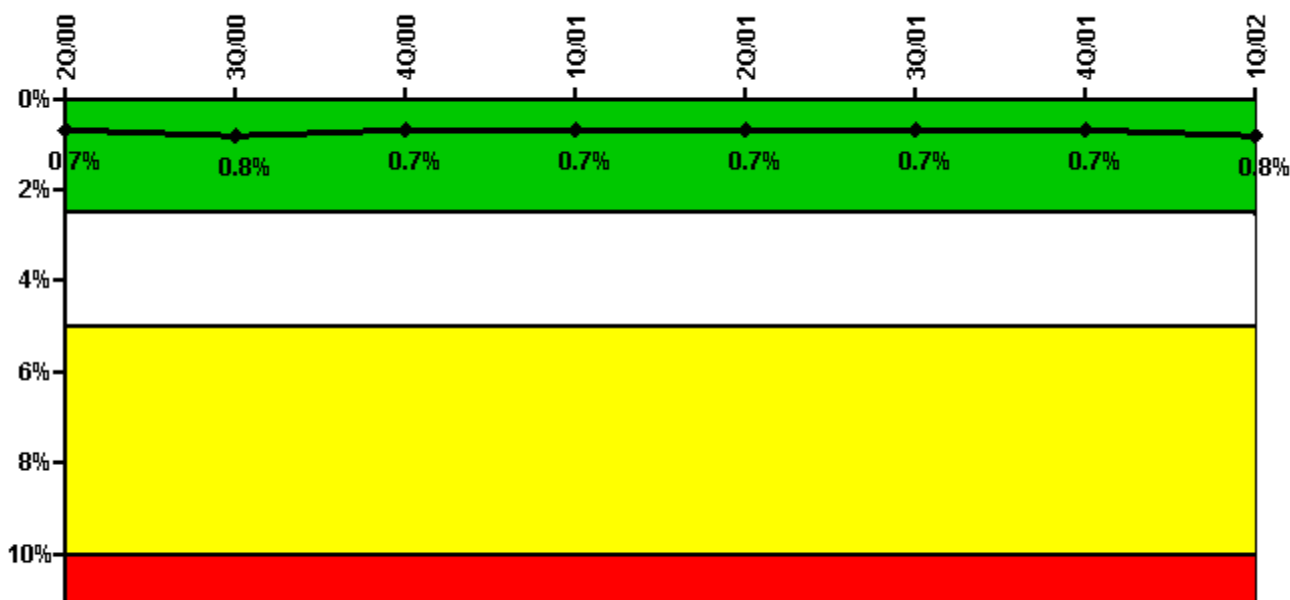
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	0	0	1.0	1.0	0	0	0
Critical hours	2029.6	2208.0	1410.7	2127.0	2183.0	2208.0	2209.0	1942.9
Indicator value	1.8	1.7	0.9	0.9	1.8	1.8	1.6	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



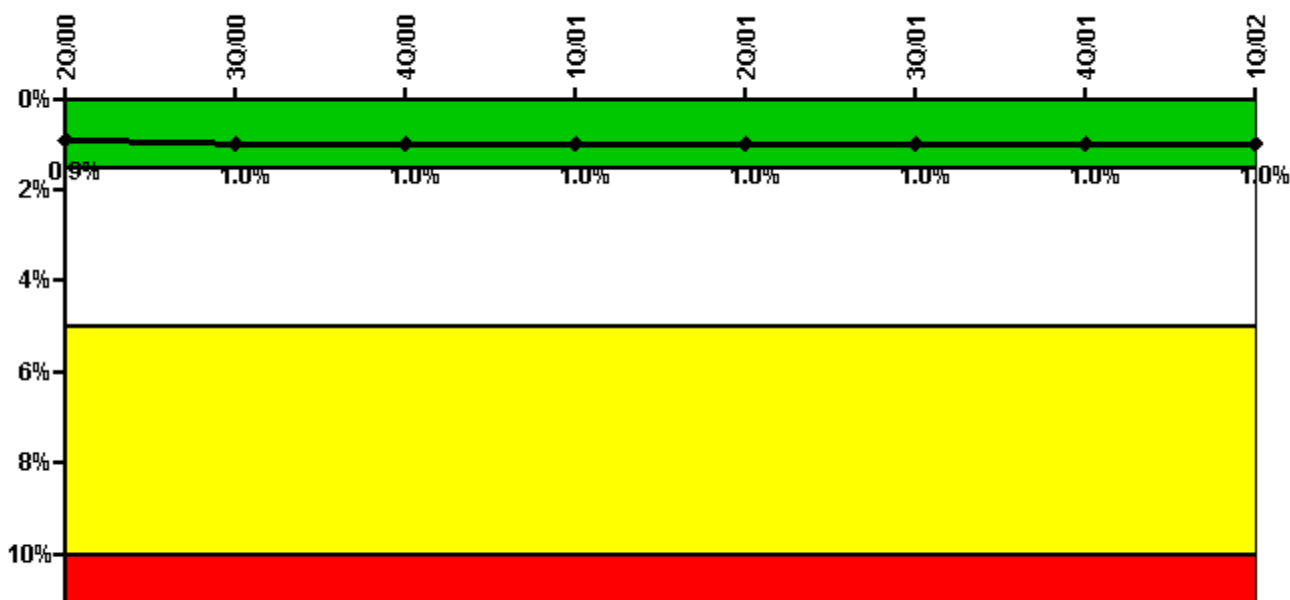
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	13.45	3.88	0	0	0	0	5.68	9.95
Unplanned unavailable hours	0.63	21.55	3.50	2.60	0	16.33	47.48	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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	4.11	2.52	3.98	2.65	1.50	0	1.92	12.77
Unplanned unavailable hours	4.52	9.22	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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	0.7%	0.8%	0.7%	0.7%	0.7%	0.7%	0.7%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



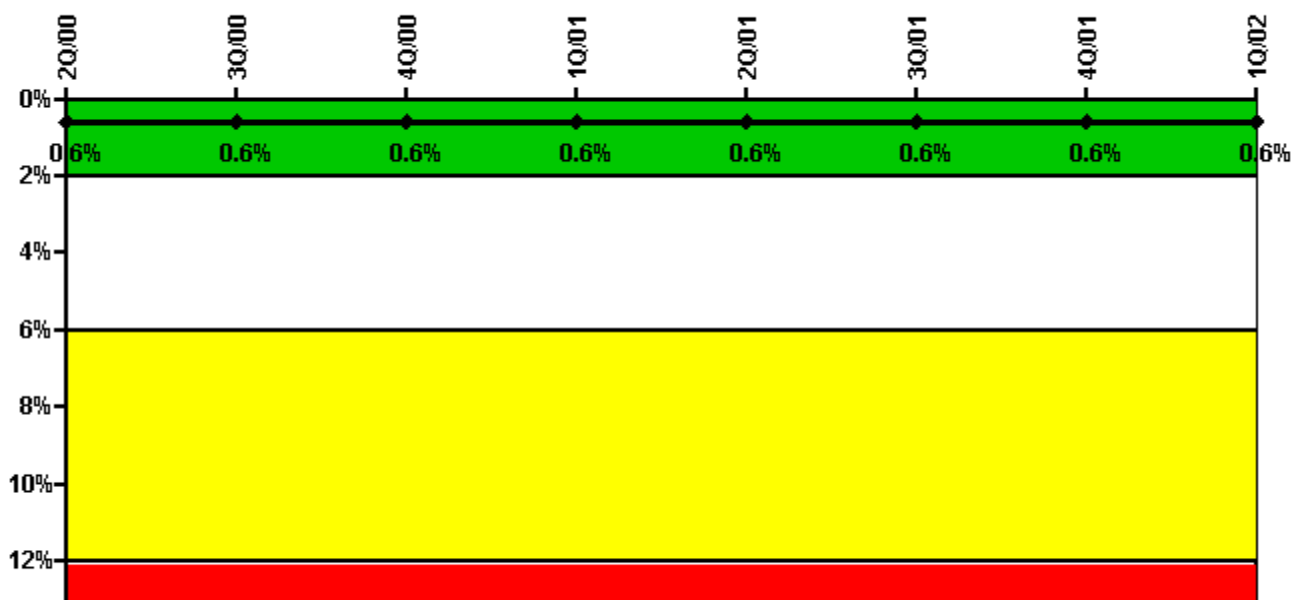
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	13.45	18.43	1.65	2.53	1.00	22.43	14.38	9.80
Unplanned unavailable hours	0.63	21.55	3.50	5.40	0	0.58	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	2029.60	2208.00	1410.60	2127.00	2183.00	2208.00	2209.00	1952.78
Train 2								
Planned unavailable hours	48.63	2.33	3.98	2.65	1.72	0	0	14.42
Unplanned unavailable hours	0	9.22	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	2029.60	2208.00	1410.60	2127.00	2183.00	2208.00	2209.00	1952.78
Indicator value	0.9%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



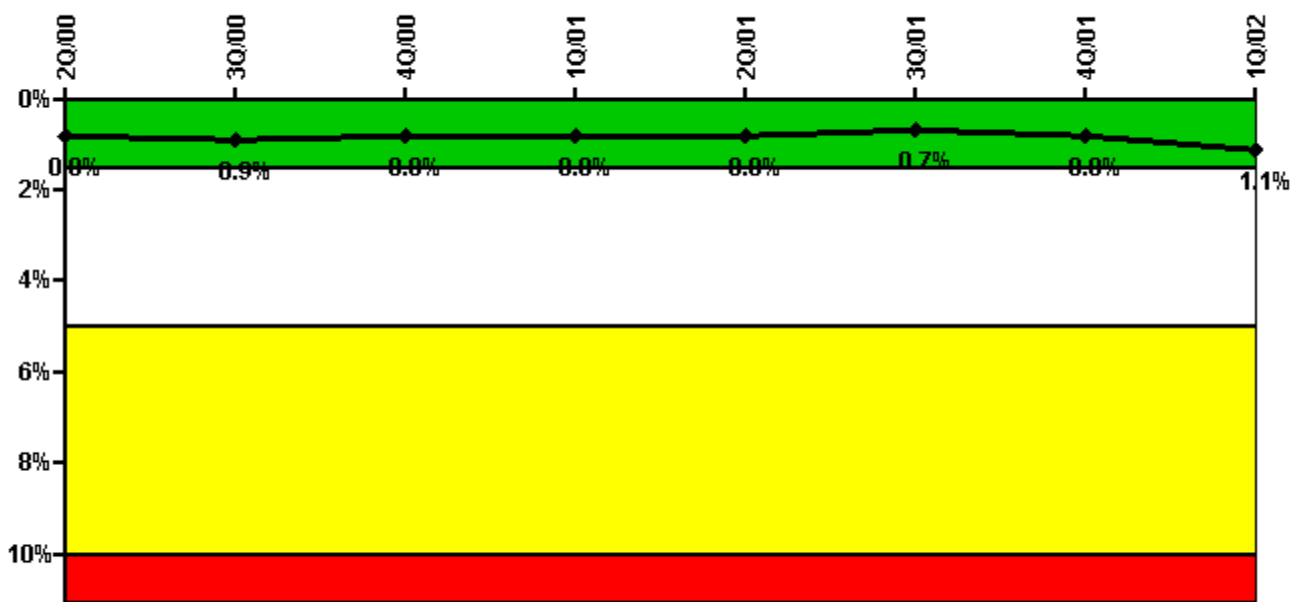
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	13.45	3.88	0	0	0	11.00	14.38	9.80
Unplanned unavailable hours	0.63	21.55	3.50	2.60	0	0.58	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	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78
Train 2								
Planned unavailable hours	12.58	0	3.98	2.65	1.50	8.38	0.32	12.77
Unplanned unavailable hours	0	9.22	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	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78
Train 3								
Planned unavailable hours	0	0.22	0	0	7.90	0	0	0
Unplanned unavailable hours	0	0	0	0	0.87	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	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78
Indicator value	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	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/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	14.68	18.91	2.45	0	0	0	14.38	9.80
Unplanned unavailable hours	0.63	21.85	3.50	2.60	0	0.58	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	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78
Train 2								
Planned unavailable hours	5.18	0.92	5.03	2.65	1.50	0	18.52	34.25
Unplanned unavailable hours	0	9.22	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	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	2.83
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	129.20	0	549.20	0	0	0	0	207.22
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	2.93
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	129.20	0	549.20	0	0	0	0	207.22
Indicator value	0.8%	0.9%	0.8%	0.8%	0.8%	0.7%	0.8%	1.1%

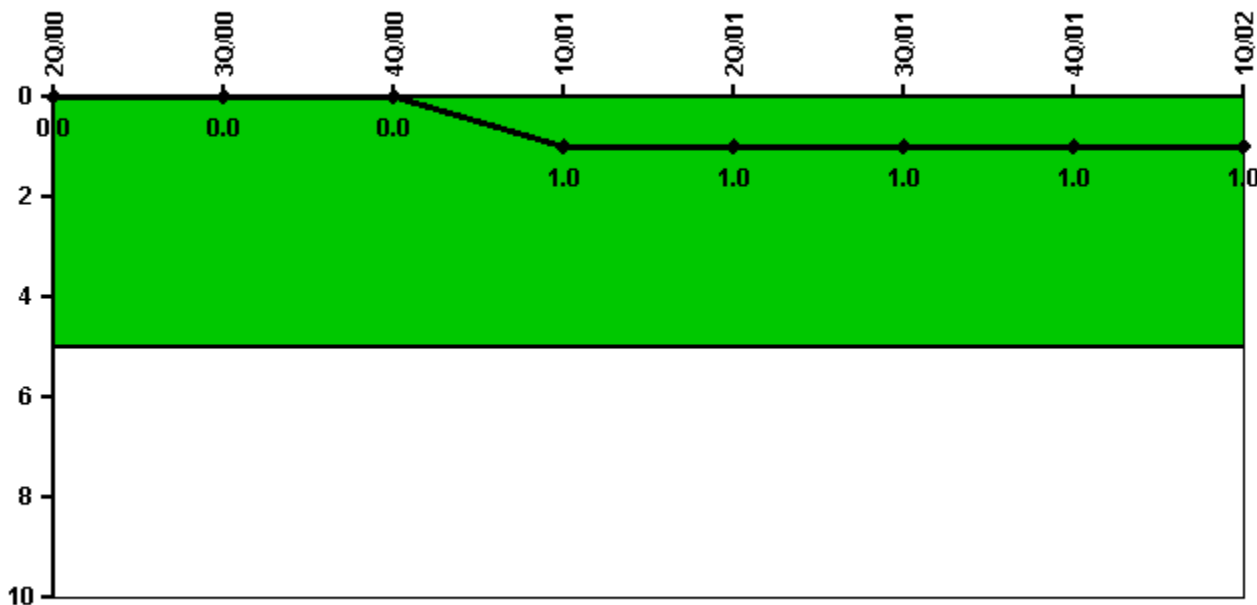
Licensee Comments:

1Q/02: Waterford 3 has revised historical data for the Residual Heat Removal System utilizing the reporting method described as option 3 in FAQ 298. Revising the data did not cause any changes in past or present color results.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

4Q/99: The reported unavailability hours from the first quarter of 1997 to the third quarter of 1999 uses the safety system performance indicator data submitted to WANO. Equipment unavailability for that period was not re-examined to the criteria of NEI 99-02, Draft, Rev D. However, the historical data will be reviewed to determine if support system unavailability was accurately cascaded into the reported system in past WANO submittals. This review should be complete for the next subsequent submittal. Note that fault exposure hours occurring prior to the third quarter of 1999 would have been included in the unplanned unavailability hours. The data for the fourth quarter of 1999 was determined using the guidance of NEI 99-02, Draft, Rev D. Note: The Containment Spray system, as well as the Shutdown Cooling mode of LPSI, comprises the RHR function. Because the RHR system is needed at all times, the number of hours required for RHR system availability is the total hours in the quarter. Unavailability occurs when a train is unable to perform its intended safety function when it is required to be available to perform that function. If a component is not required in certain modes, it is because it is not needed to meet a safety function under those conditions. For example, unavailability is not counted for the Containment Spray system when it is manually isolated and aligned for shutdown cooling in modes 4, 5 and 6. Change to previously submitted data: Hours in the 4th quarter 1999 were reduced because a re-examination of the data determined that unavailable hours had been erroneously counted when the Shutdown Cooling function was not required in Modes 1-3. This did not result in a color change.

Safety System Functional Failures (PWR)



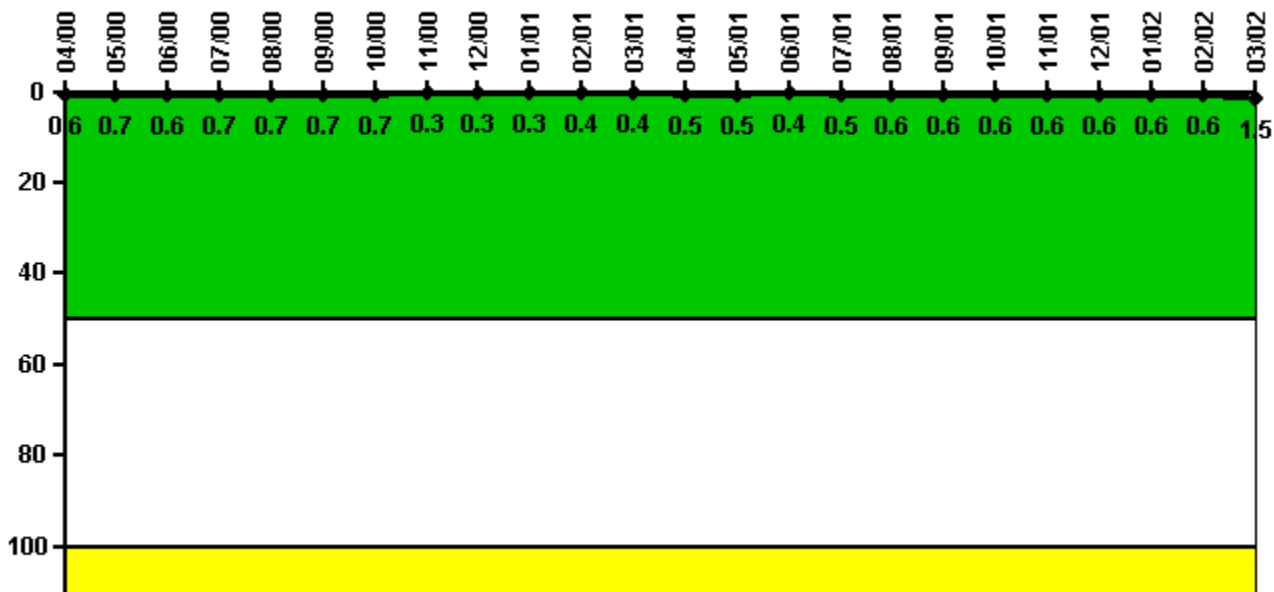
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Safety System Functional Failures	0	0	0	1	0	0	0	1
Indicator value	0	0	0	1	1	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

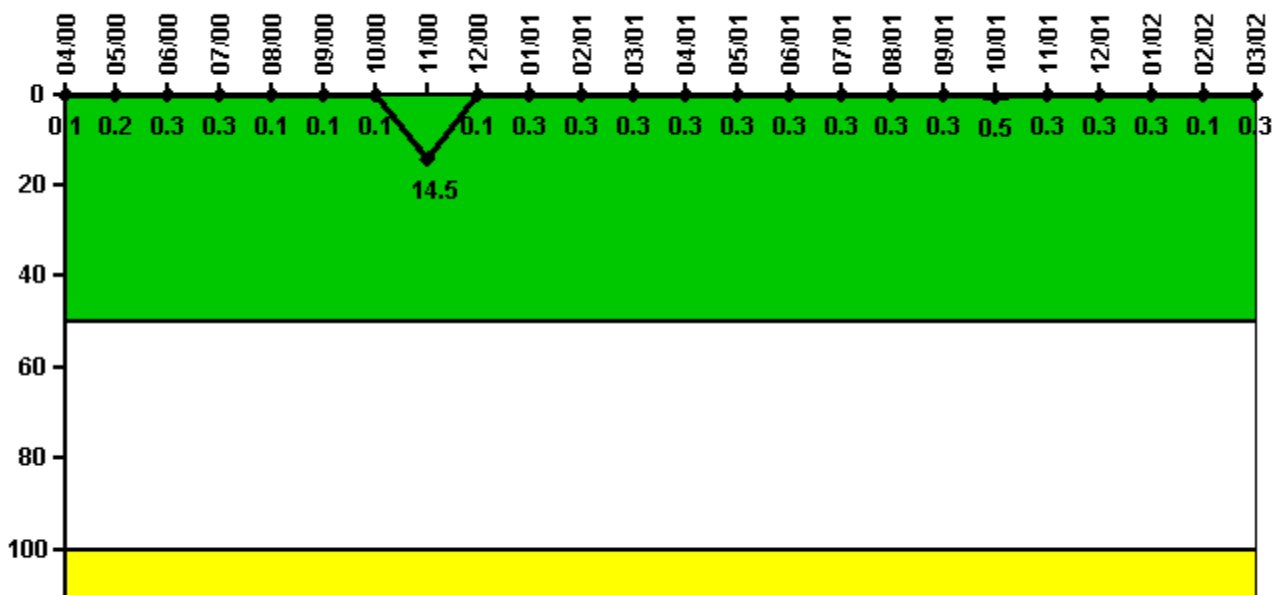
Notes

Reactor Coolant System Activity	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.005910	0.007120	0.006470	0.007090	0.006960	0.006990	0.007100	0.002710	0.003120	0.003460	0.004220	0.004250
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	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.4	0.4

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.004500	0.004500	0.004280	0.005040	0.005940	0.005670	0.005640	0.005650	0.005870	0.005610	0.005930	0.015200
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	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.5

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

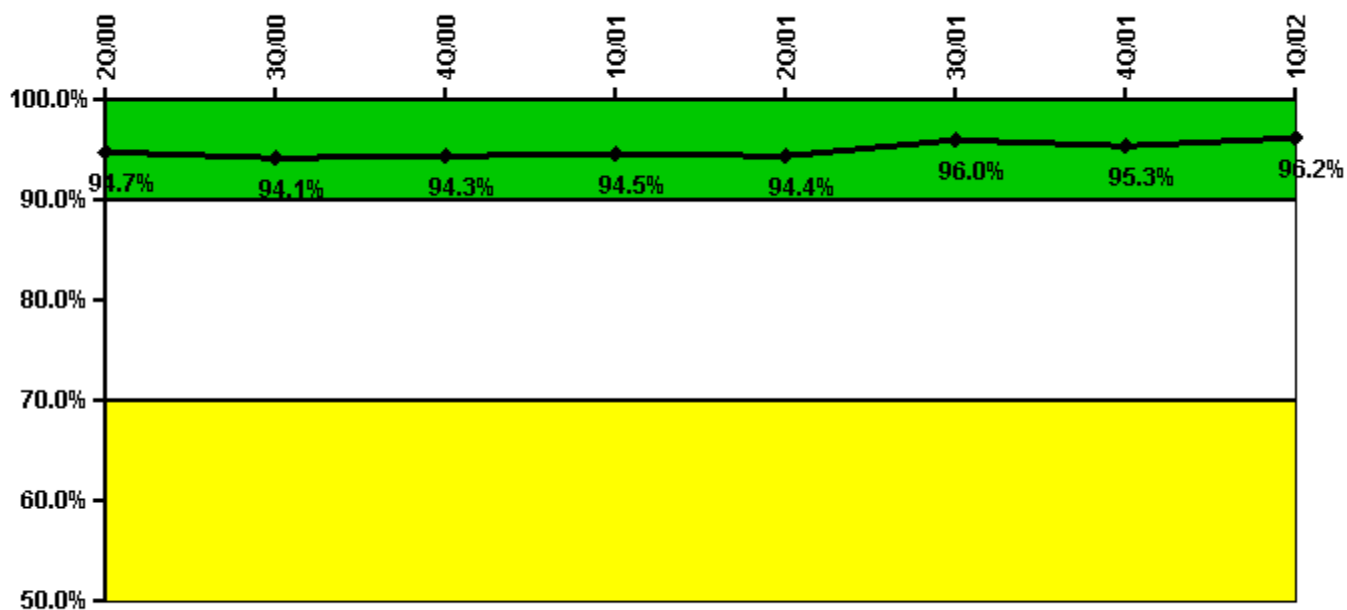
Notes

Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.014	0.020	0.028	0.027	0.014	0.014	0.014	1.452	0.014	0.028	0.028	0.028
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	0.1	0.2	0.3	0.3	0.1	0.1	0.1	14.5	0.1	0.3	0.3	0.3

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	0.028	0.028	0.028	0.028	0.028	0.028	0.051	0.028	0.027	0.033	0.014	0.026
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	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.1	0.3

Licensee Comments: none

Drill/Exercise Performance



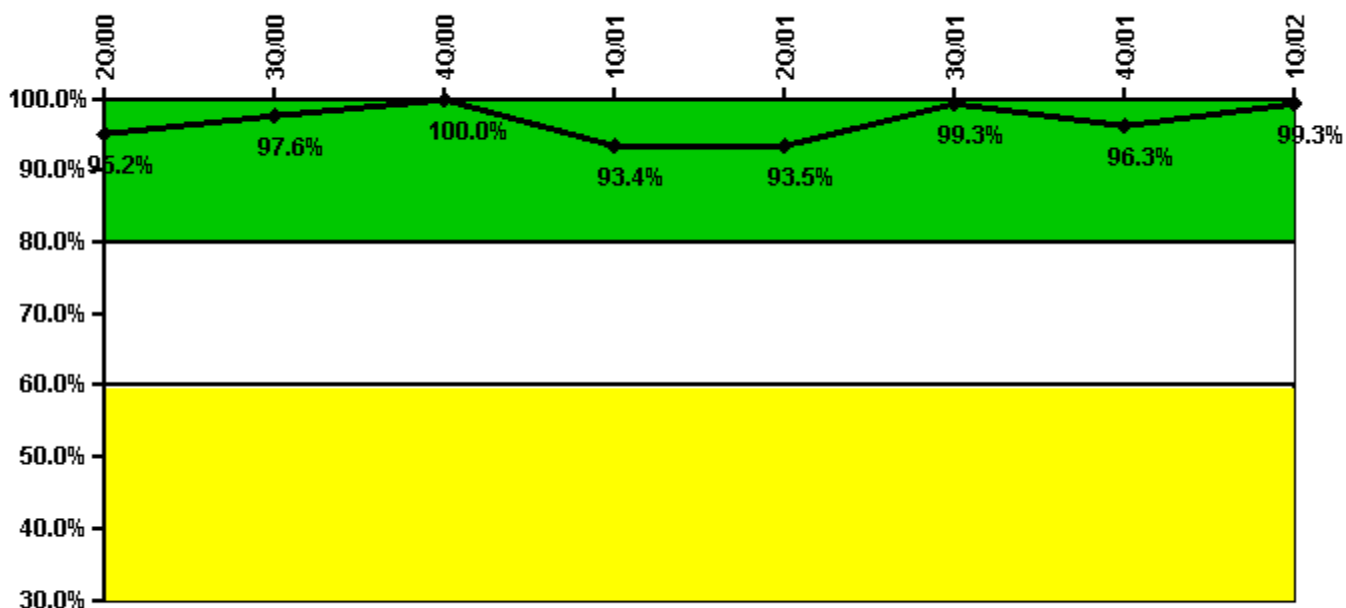
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	62.0	46.0	10.0	12.0	20.0	21.0	43.0	38.0
Total opportunities	64.0	50.0	10.0	12.0	20.0	22.0	46.0	38.0
Indicator value	94.7%	94.1%	94.3%	94.5%	94.4%	96.0%	95.3%	96.2%

Licensee Comments: none

ERO Drill Participation



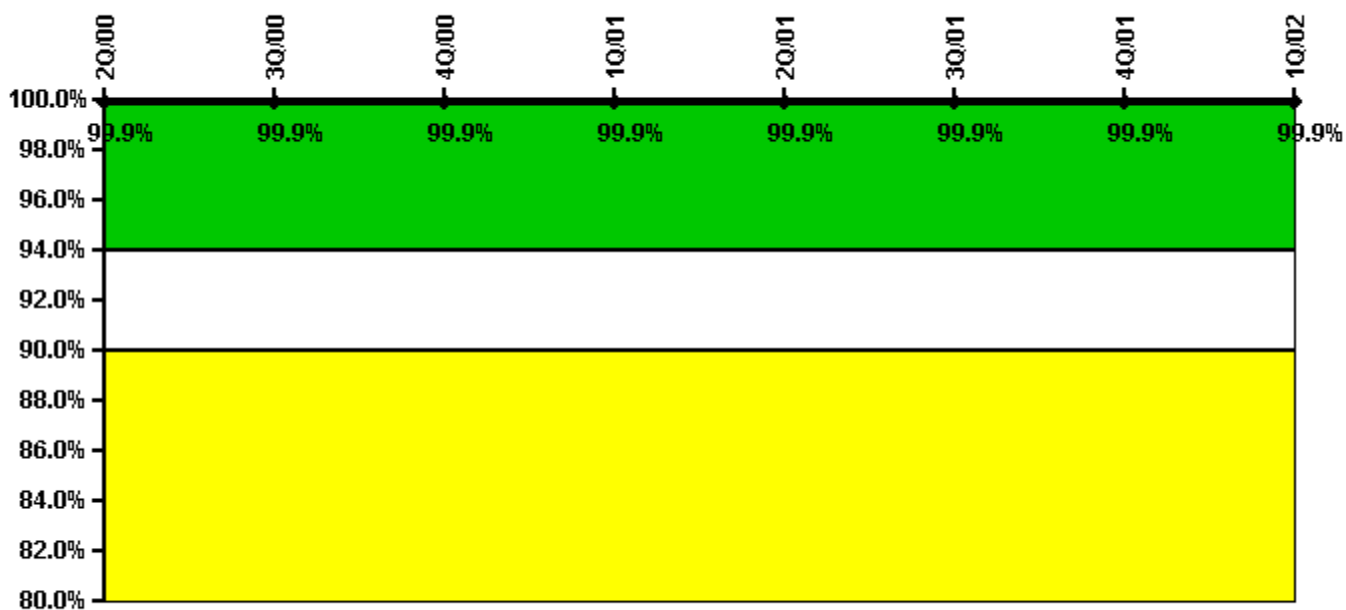
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	118.0	121.0	122.0	128.0	129.0	135.0	130.0	141.0
Total Key personnel	124.0	124.0	122.0	137.0	138.0	136.0	135.0	142.0
Indicator value	95.2%	97.6%	100.0%	93.4%	93.5%	99.3%	96.3%	99.3%

Licensee Comments: none

Alert & Notification System



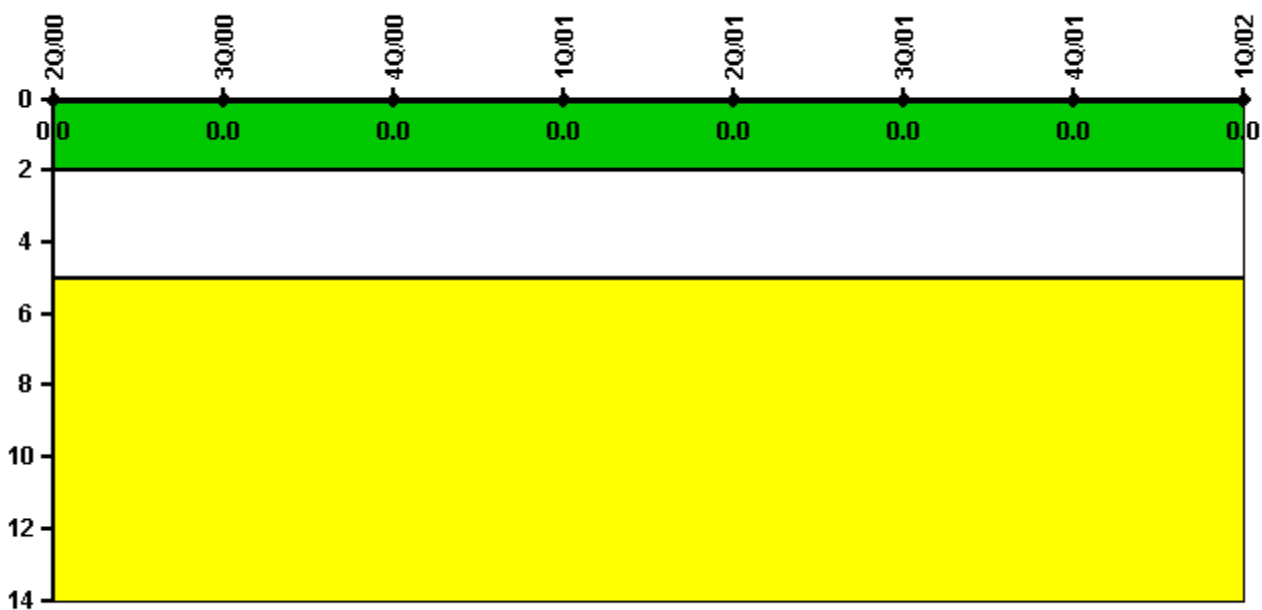
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	402	401	402	402	402	401	401	420
Total sirens-tests	402	402	402	402	402	402	402	420
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



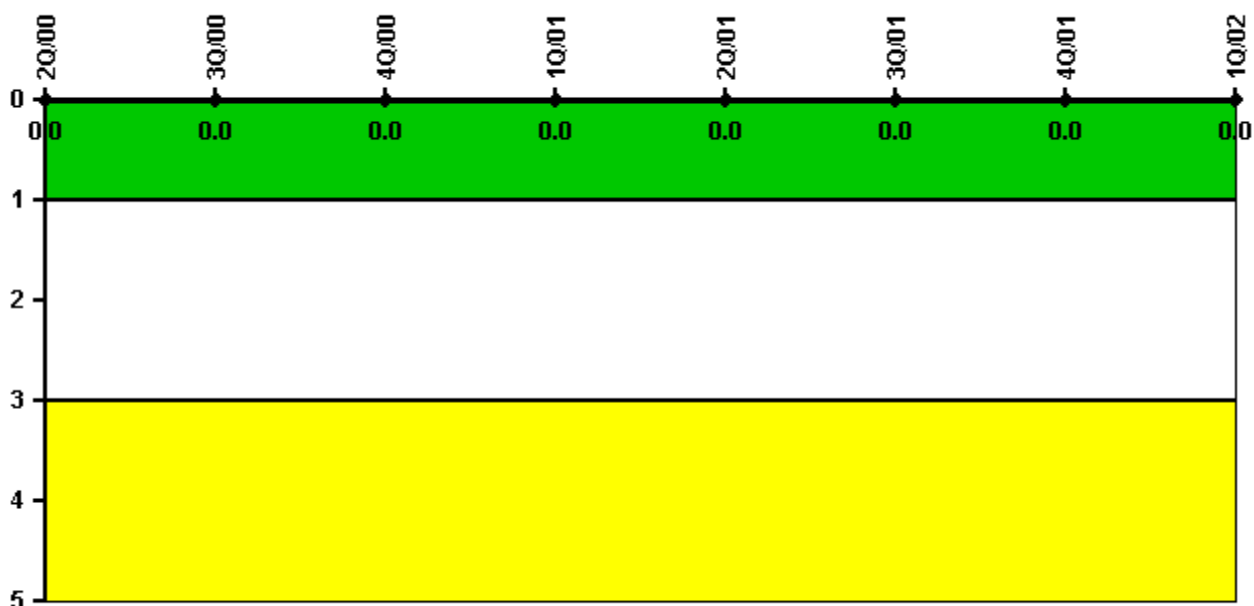
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
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
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



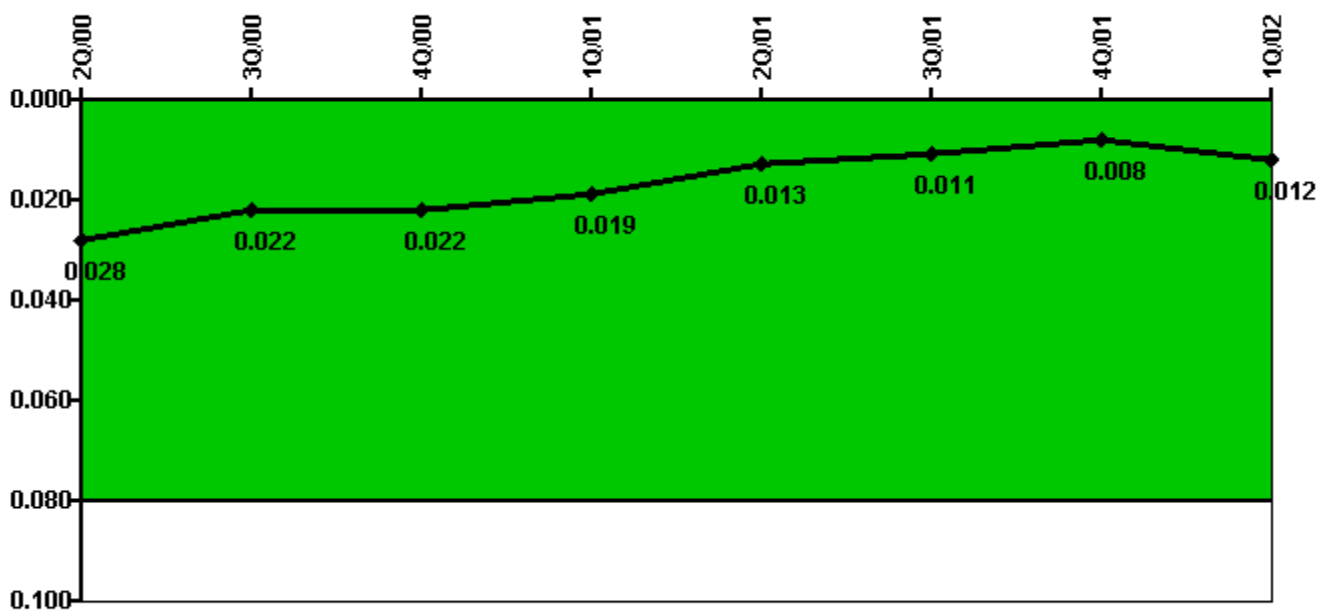
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
IDS compensatory hours	181.70	43.60	25.70	18.60	65.40	8.60	8.70	81.80
CCTV compensatory hours	15.0	19.7	53.1	9.9	5.9	31.3	14.8	14.3
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.028	0.022	0.022	0.019	0.013	0.011	0.008	0.012

Licensee Comments: none

Personnel Screening Program



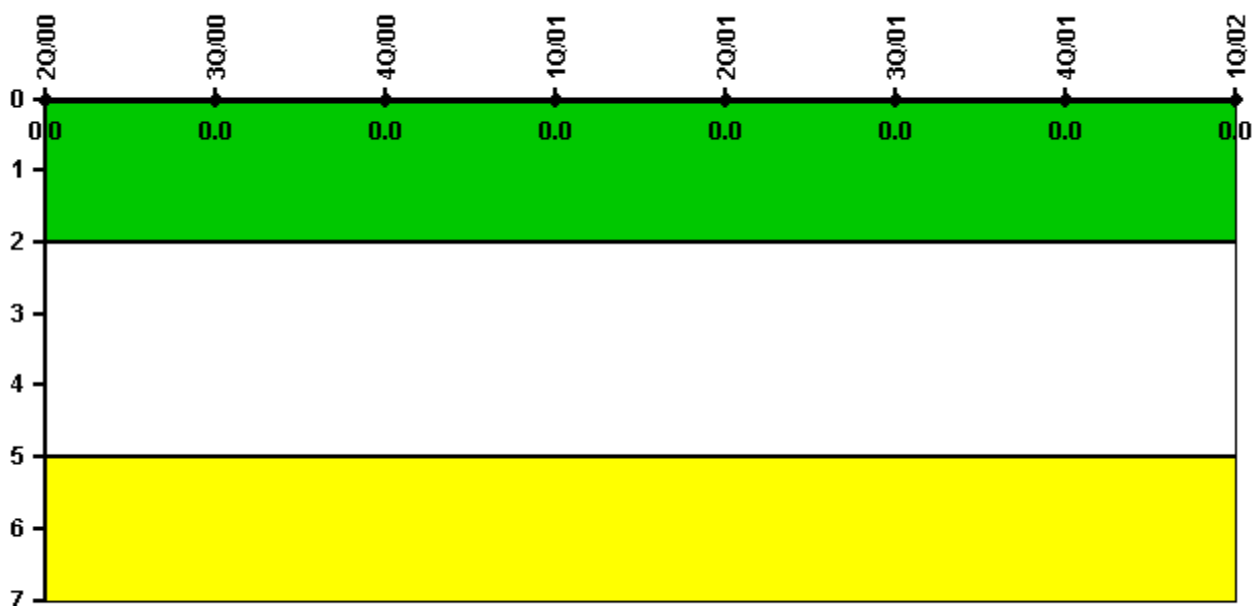
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

Last Modified: May 1, 2002