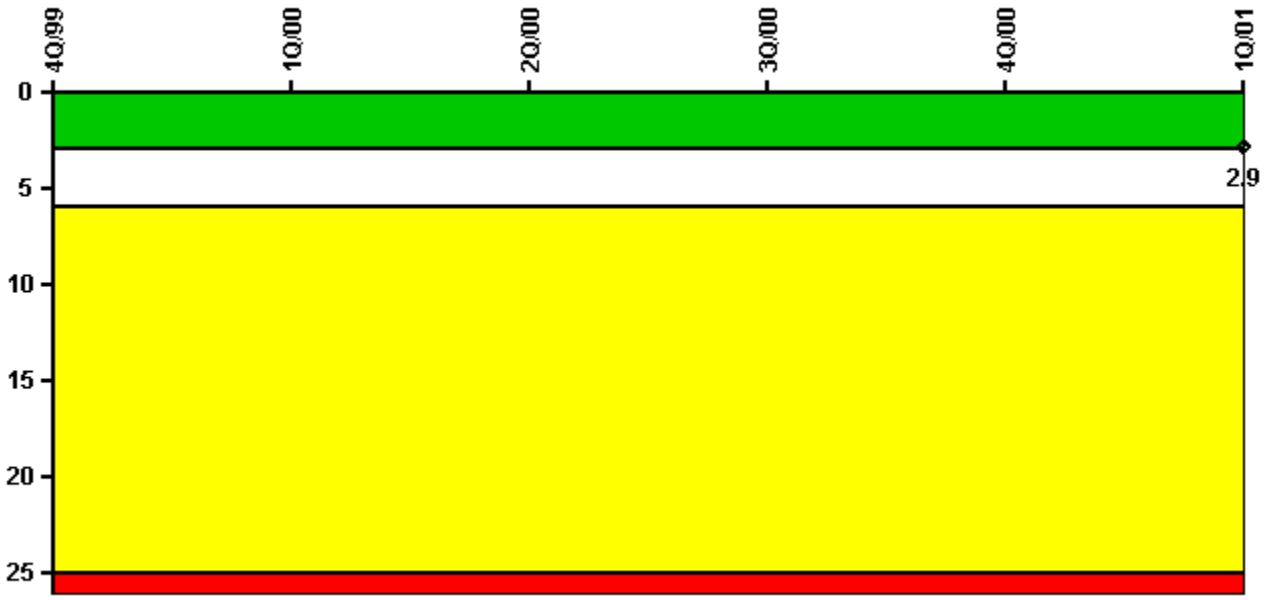
D.C. Cook 1

1Q/2001 Performance Indicators

Licensee's General Comments: Cook Unit 1 returned to service December 18, 2000 after a 39-month forced outage. Without sufficient operational service, various performance indicators are not calculated.

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

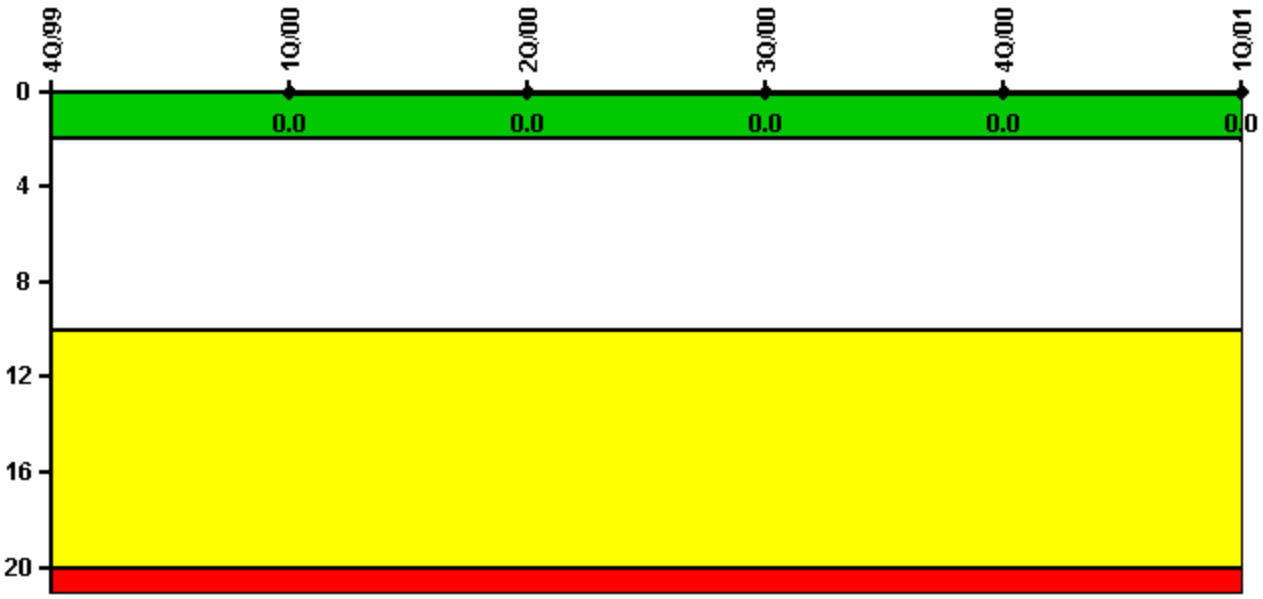
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	0	0	0	1.0
Critical hours	0	0	0	0	331.0	2080.5
Indicator value	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**2.9**

Licensee Comments:

1Q/01: Unit 1 performed a manual scram on 2/15/01 in response to low vacuum on the East Main Feed Pump Condenser caused by debris in the condenser waterbox. The debris was determined to be a product of general corrosion that occurred in the carbon steel piping leading to the condenser. Upon discovery of the corrosion, the vertical circulating water piping leading to the Unit 1 Feed Pump condensers were cleaned with high pressure sprays and the resulting debris was removed by vacuum. The calculated value of 2.9 is a result of this indicator being rate based with less than 7000 critical hours.

Scrams with Loss of Normal Heat Removal



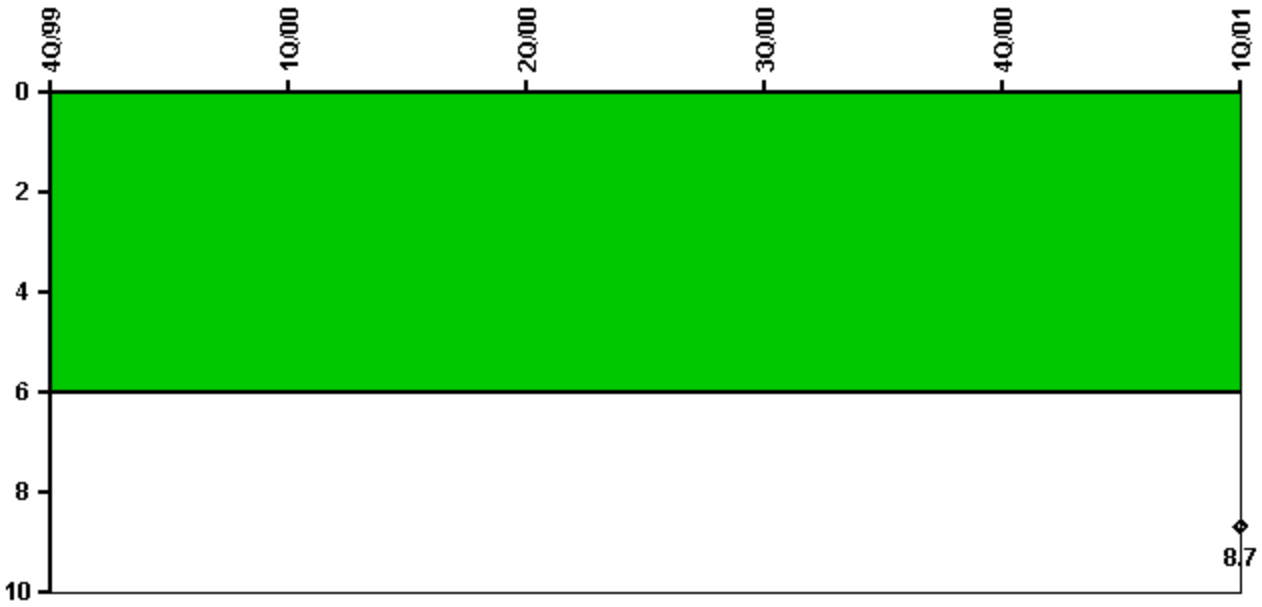
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

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		**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

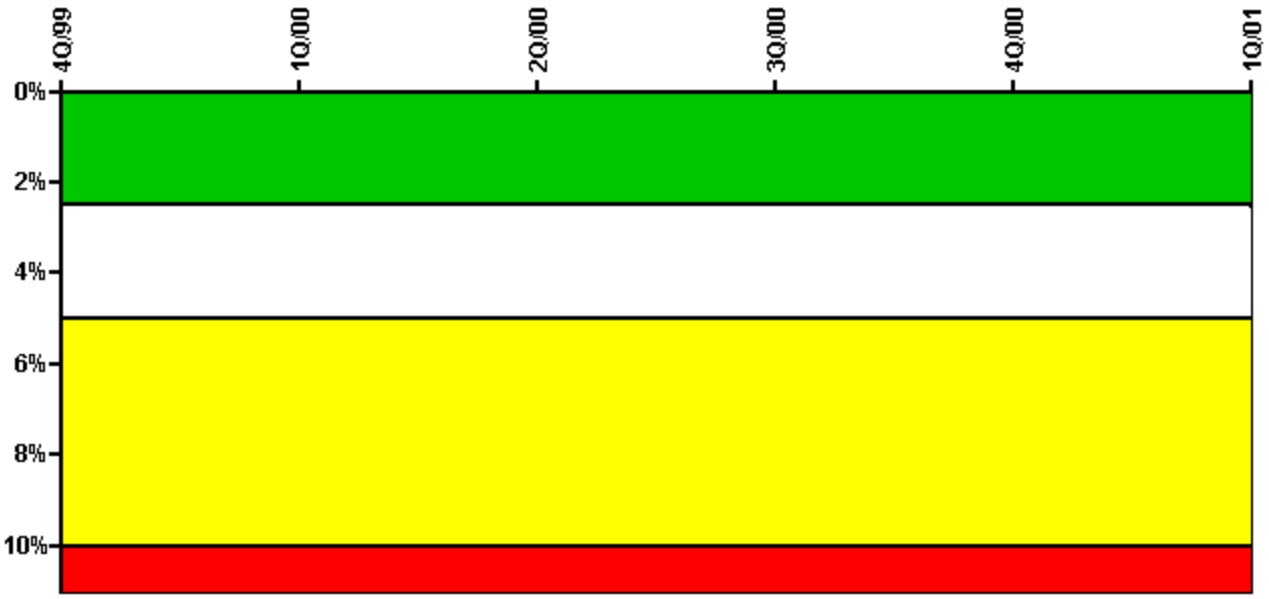
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	0	0	0	0	0	3.0
Critical hours	0	0	0	0	331.0	2080.5
Indicator value	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**8.7**

Licensee Comments:

1Q/01: Unit 1 required 3 unplanned power reductions. On 2/8/01, a Technical Specification required shutdown was initiated due to an inoperable train of Solid State Protection System (SSPS) and then halted at 53.5% reactor power when the SSPS train was declared operable. The SSPS train was declared inoperable due to the wording in the alarm response procedures for a loss of SSPS power supply. The procedure was subsequently revised to allow the SSPS train to be operable if the redundant power supply was available. On 3/4/01, a power reduction to 29% power was initiated to repair a steam leak on a Feedwater Heater. On 3/30/01, a power reduction was initiated to clean out zebra mussel debris from a Feed Pump condenser waterbox. The zebra mussel debris entered the system when circulating water was shifted from the de-ice mode. Plant procedures have been revised incorporating lessons learned from this evolution. The current calculated value of 8.7 is a result of this indicator being rate based with less than 7000 critical hours.

Safety System Unavailability, Emergency AC Power



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

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	0	0	0	0	0.40
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	0	0	2184.00	1046.95	1475.42	2160.00
Train 2						
Planned unavailable hours	0	0	0	0	0	8.67
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	0	0	2184.00	1590.33	1940.53	2160.00
Indicator value						

Licensee Comments:

1Q/01: Change made to add planned unavailable hours to train 2 EDG to account for CO2 testing. Also corrected a cross-train reporting error.

1Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

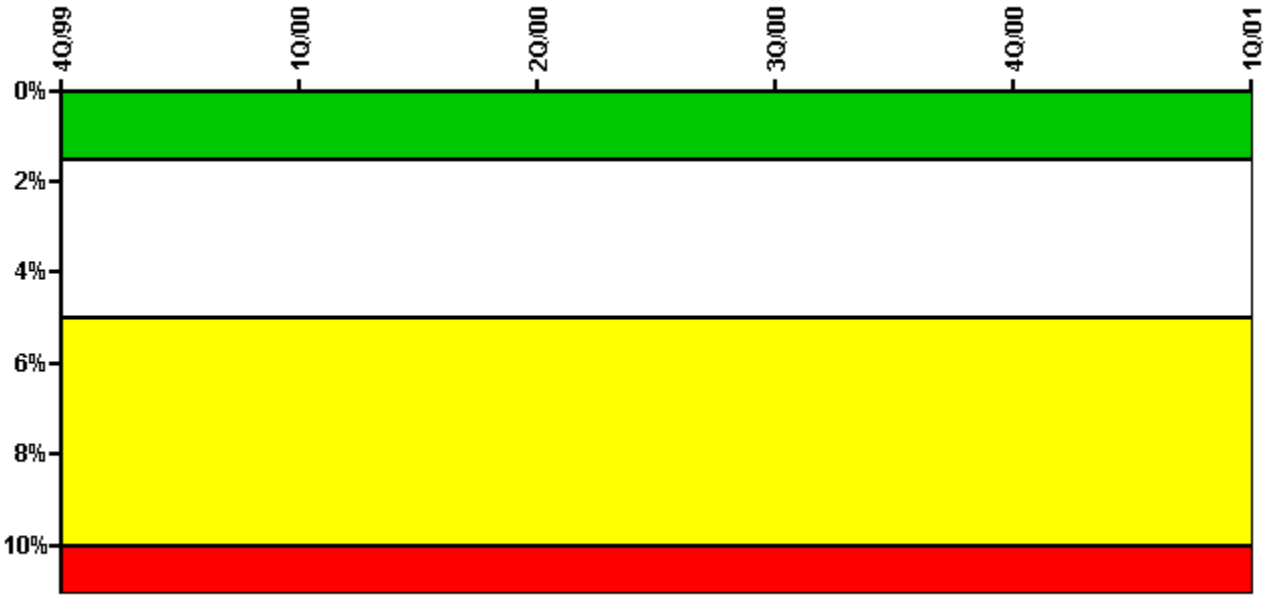
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

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	0	0	0	0	0	12.05
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	0	0	0	0	593.02	2160.00
Train 2						
Planned unavailable hours	0	0	0	0	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	0	0	0	0	593.02	2160.00
Train 3						
Planned unavailable hours	0	0	0	0	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	0	0	0	0	463.25	2160.00
Train 4						
Planned unavailable hours	0	0	0	0	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	0	0	0	0	463.25	2160.00
Indicator value						

Licensee Comments:

1Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

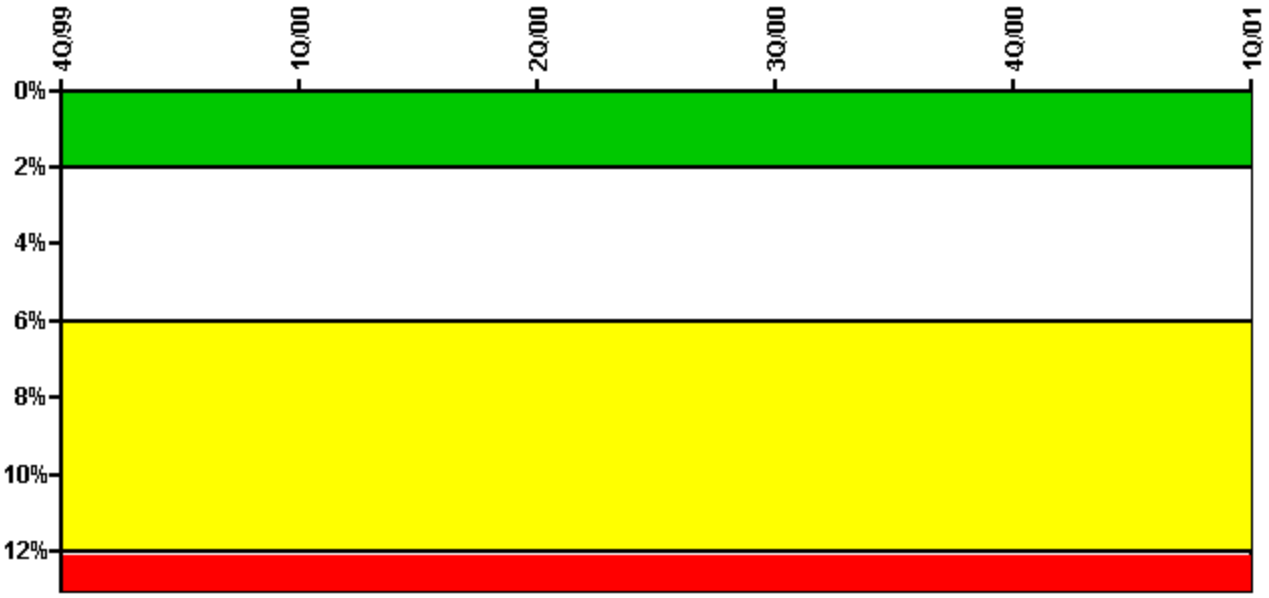
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

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	0	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	0	0	0	0	456.00	2160.00
Train 2						
Planned unavailable hours	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	18.15
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	0	0	456.00	2160.00
Train 3						
Planned unavailable hours	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	7.08	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	0	0	456.00	2160.00
Indicator value						

Licensee Comments:

1Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

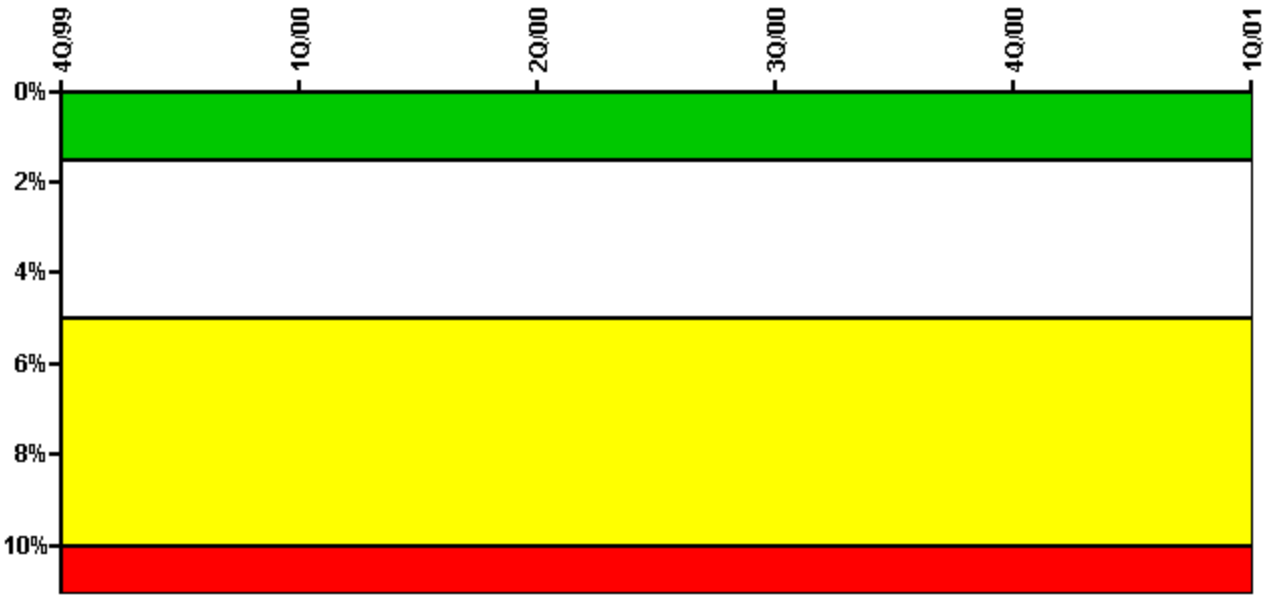
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

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	0	0	0	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	0	0	0	0	1339.02	2160.00
Train 2						
Planned unavailable hours	0	0	0	0	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	0	0	0	0	1339.02	2160.00
Indicator value						

Licensee Comments:

1Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

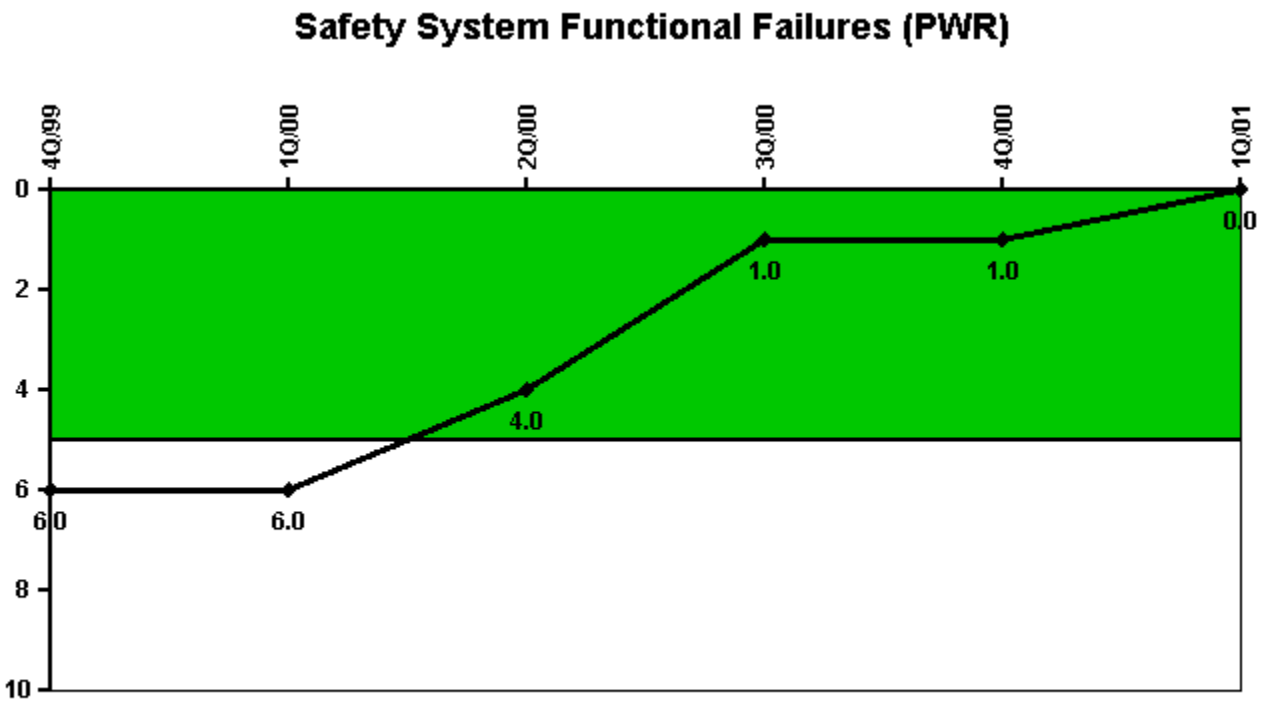
1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.



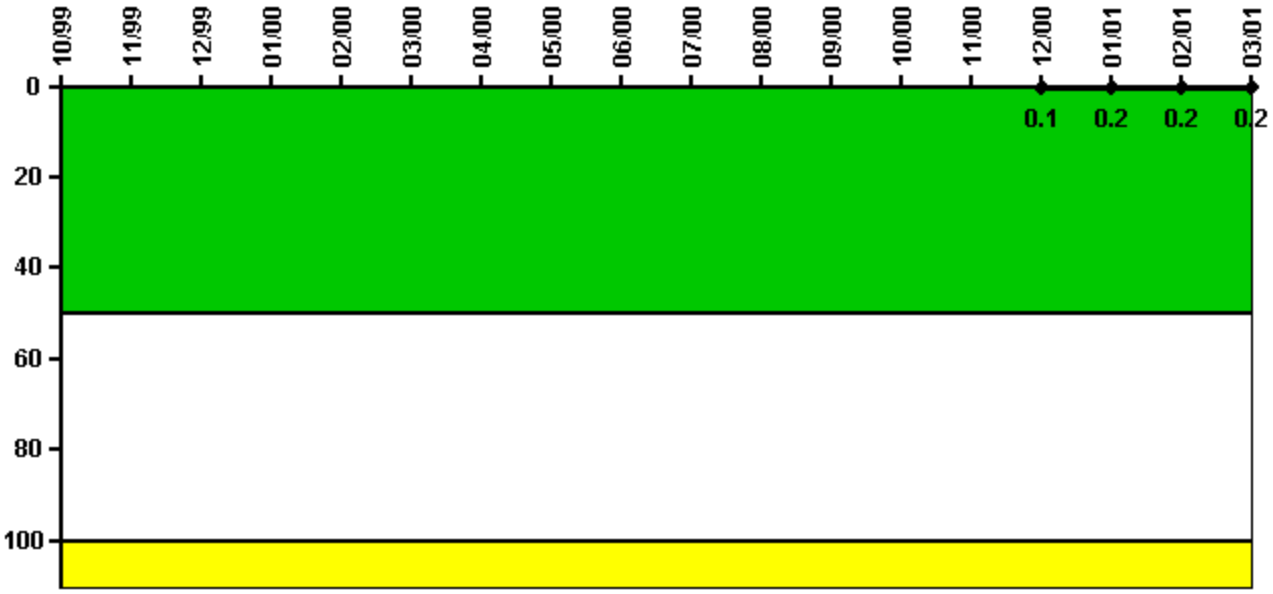
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Safety System Functional Failures	0	1	0	0	0	0
Indicator value	**6**	**6**	**4**	**1**	**1**	**0**

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

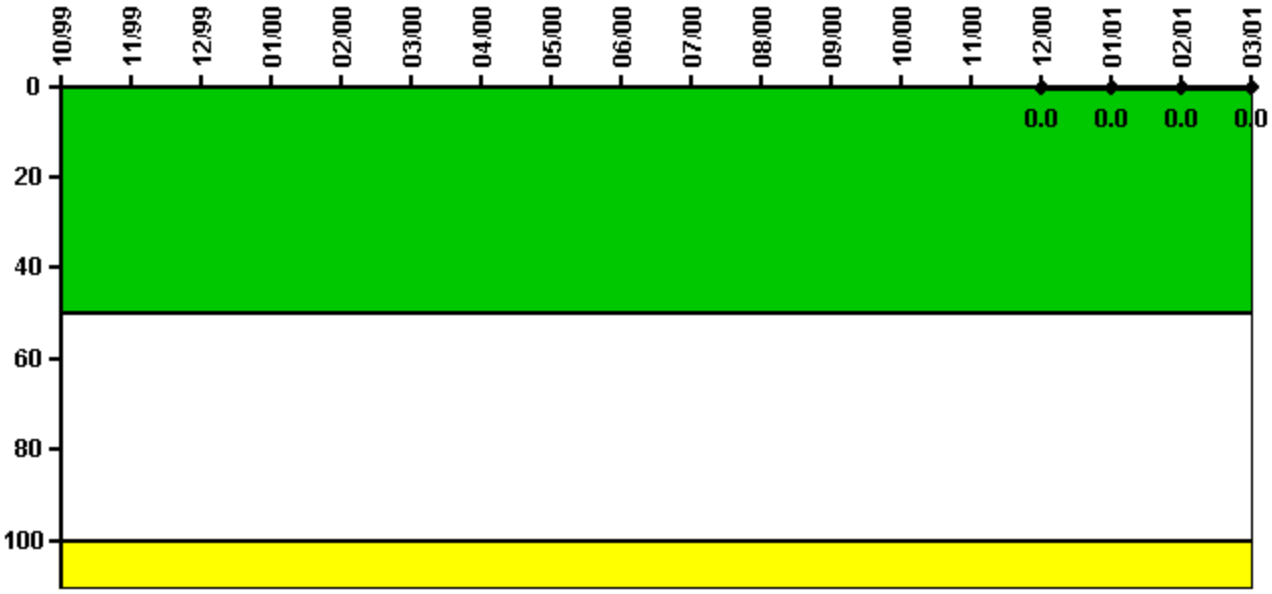
Notes

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							N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit							1.0	1.0	1.0	1.0	1.0	1.0
Indicator value							**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	N/A	N/A	0.001000	0.001510	0.001530	0.001650
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**N/A**	**N/A**	**0.1**	**0.2**	**0.2**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

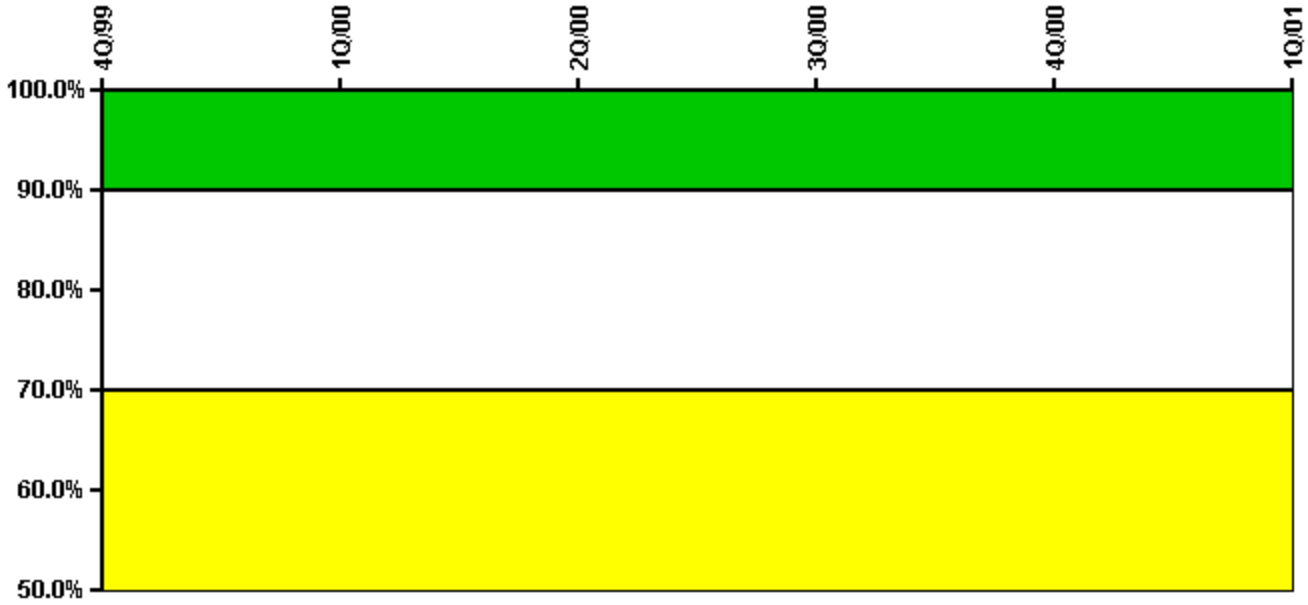
Notes

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							N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit							10.0	10.0	10.0	10.0	10.0	10.0
Indicator value							**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	N/A	N/A	0	0	0	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**N/A**	**N/A**	**0**	**0**	**0**	**0**

Licensee Comments: none

Drill/Exercise Performance

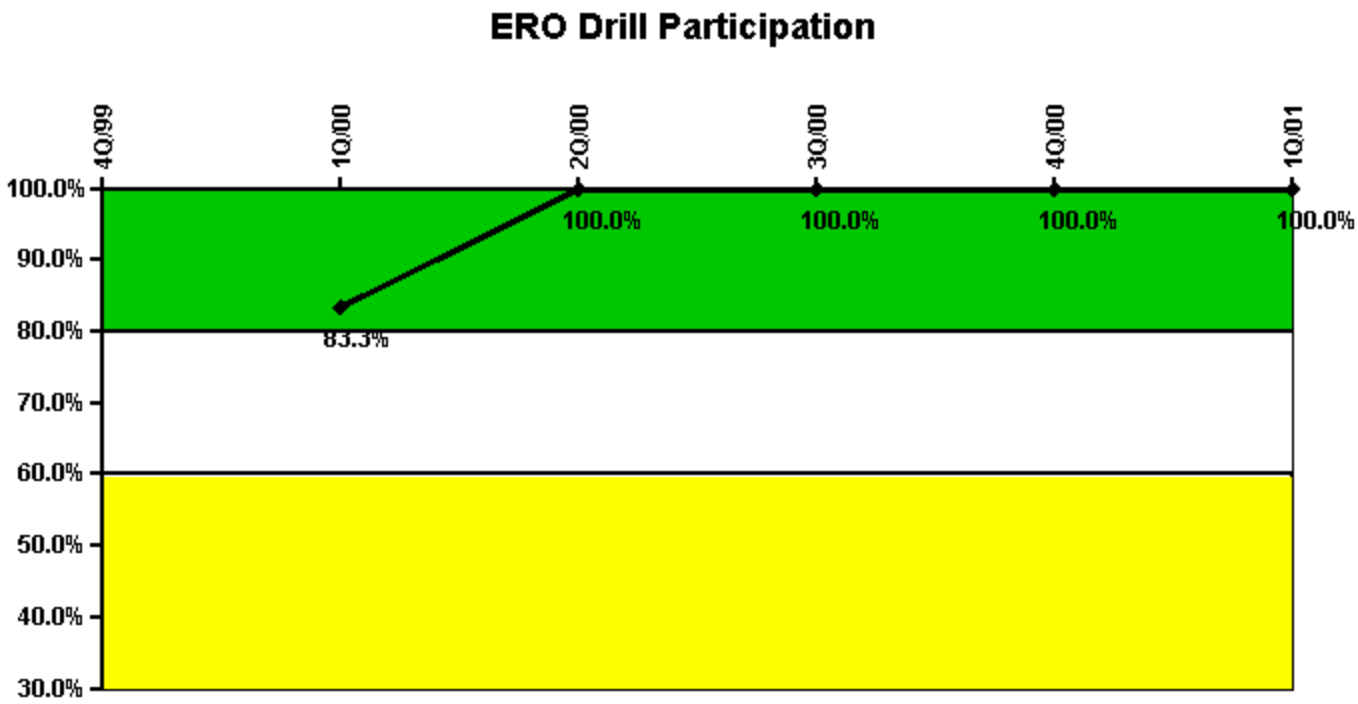


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	24.0	25.0	56.0	54.0	24.0	44.0
Total opportunities	24.0	25.0	59.0	55.0	26.0	44.0
Indicator value						

Licensee Comments: none



Thresholds: White < 80.0% Yellow < 60.0%

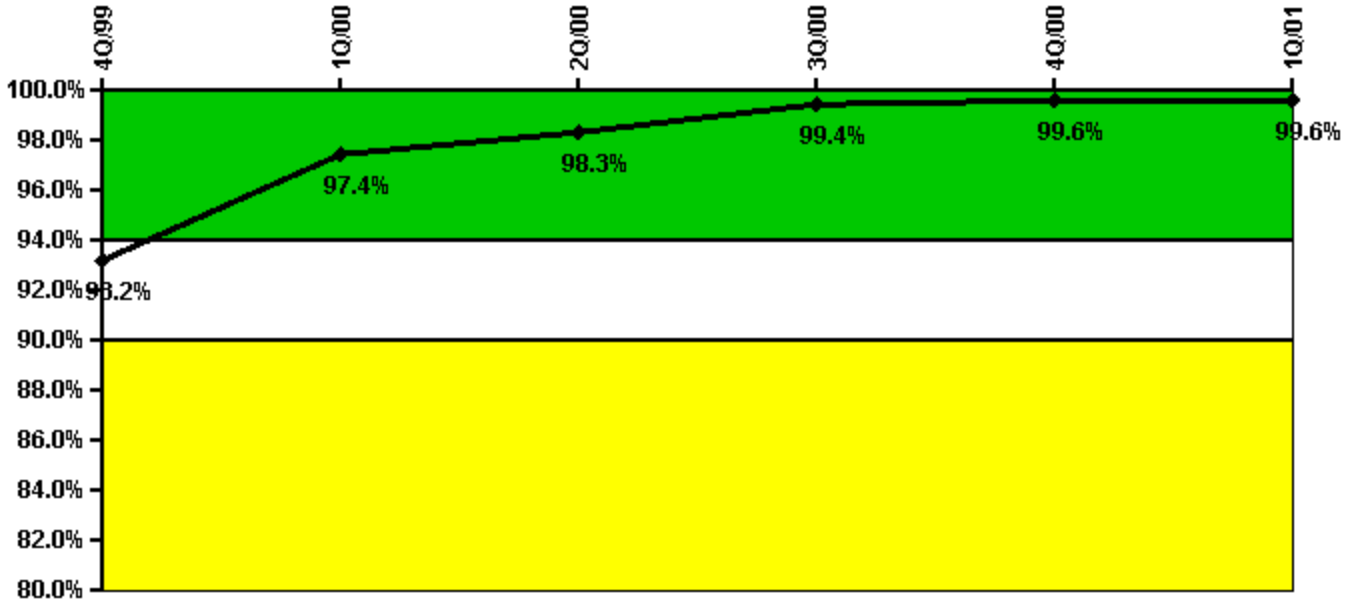
Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel		35.0	46.0	48.0	50.0	54.0
Total Key personnel		42.0	46.0	48.0	50.0	54.0
Indicator value		**83.3%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments:

1Q/01: 1Q2001 data did not account for 3 key ERO members that fill two positions. The 3 individuals had participated in a drill, exercise or actual event for both ERO positions, therfore the resulting indicator value is unaffected. This oversight has been entered into the D.C. Cook Plant Corrective Action Program.

Alert & Notification System



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	207	209	209	210	209	209
Total sirens-tests	210	210	210	210	210	210
Indicator value	**93.2%**	**97.4%**	**98.3%**	**99.4%**	**99.6%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

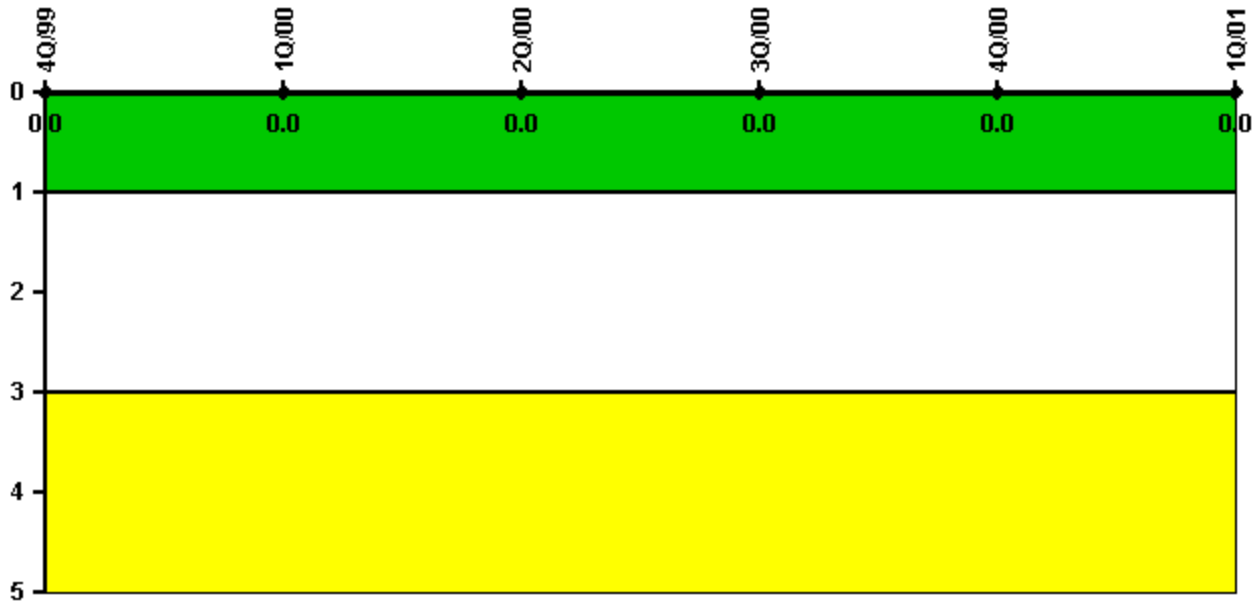
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
High radiation area occurrences	0	0	0	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**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent



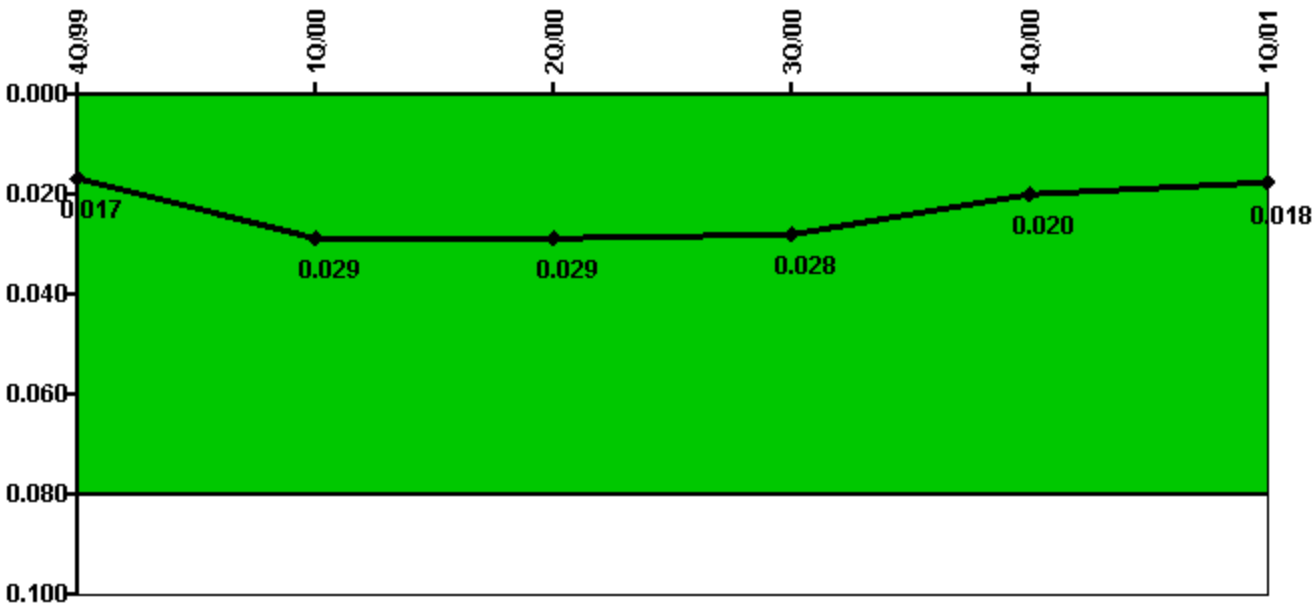
Thresholds: White > 1.0 Yellow > 3.0

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

Protected Area Security Performance Index



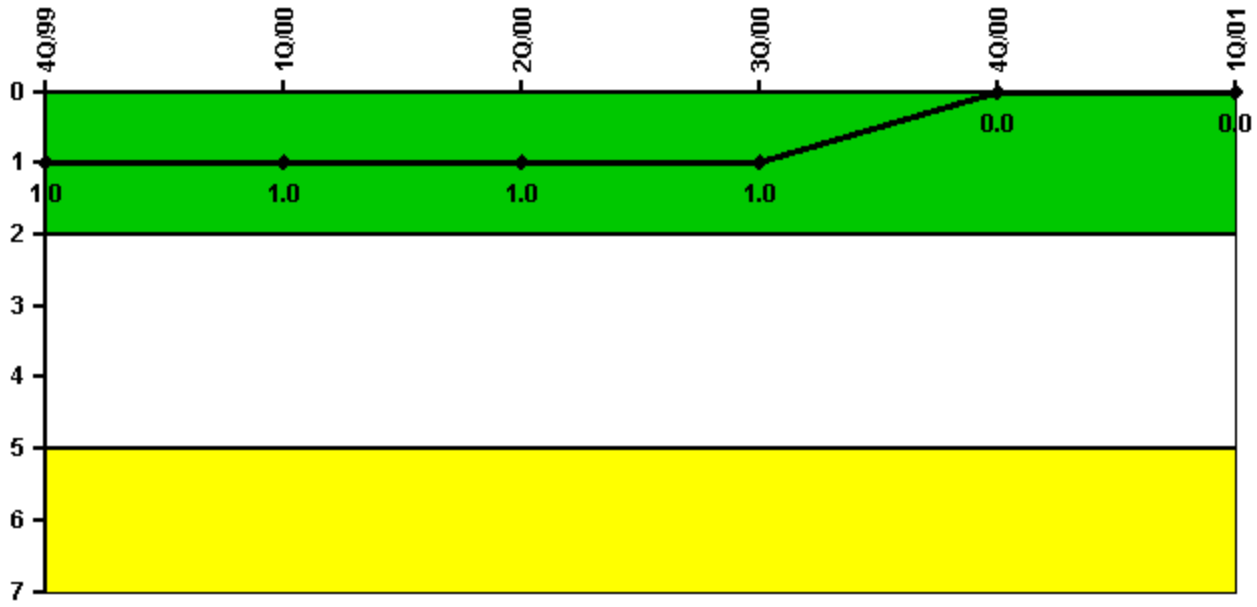
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
IDS compensatory hours	199.30	364.70	31.80	4.05	40.38	376.40
CCTV compensatory hours	16.7	38.5	0	0.1	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.017**	**0.029**	**0.029**	**0.028**	**0.020**	**0.018**

Licensee Comments: none

Personnel Screening Program



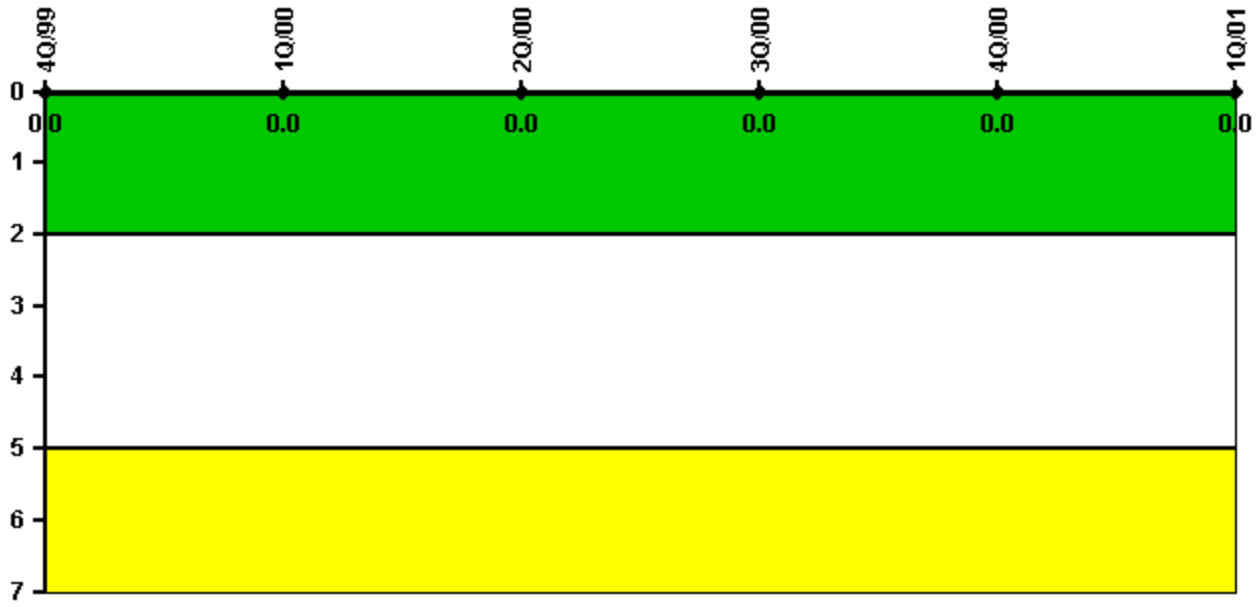
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program failures	1	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**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