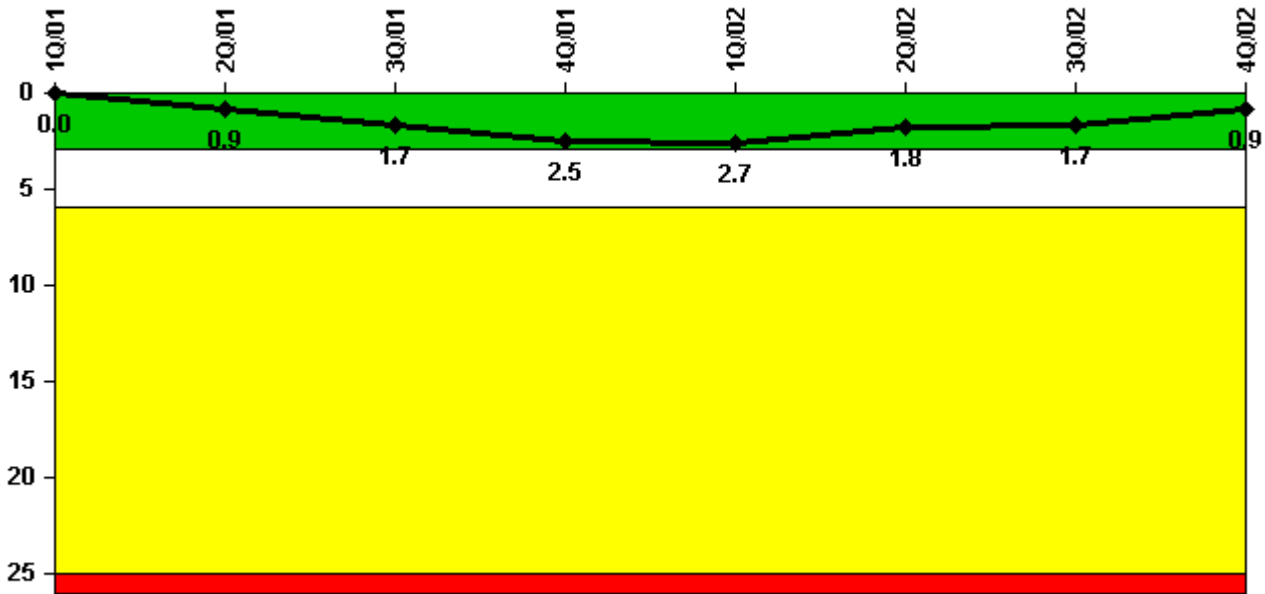


Watts Bar 1

4Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



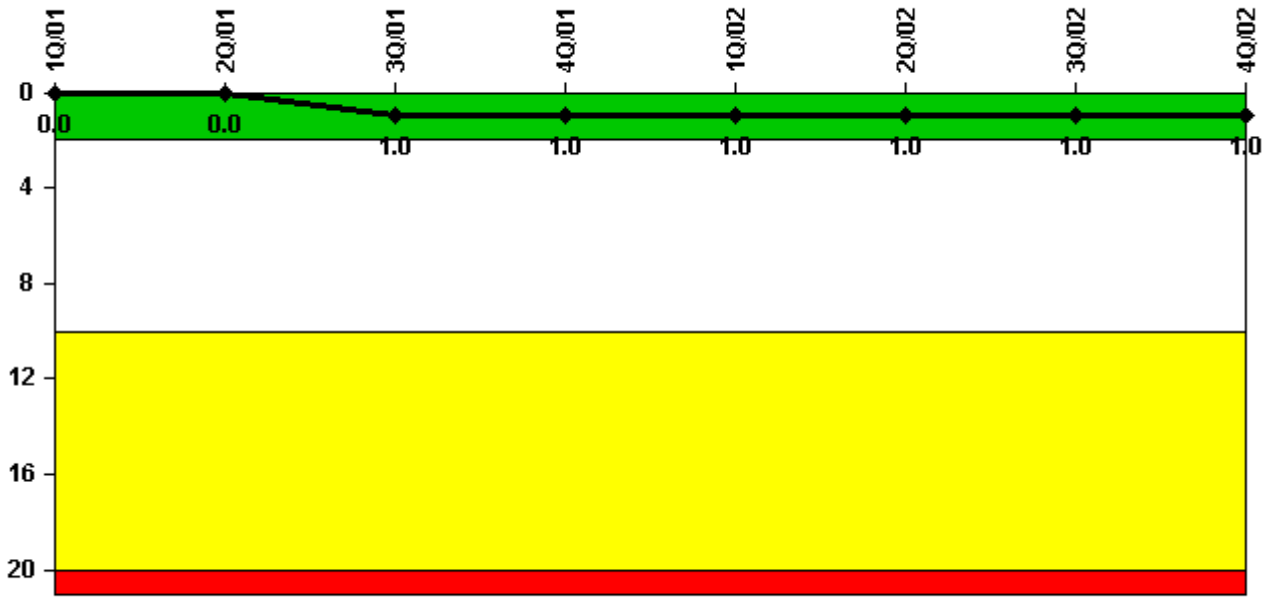
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned scrams	0	1.0	1.0	1.0	0	0	1.0	0
Critical hours	2160.0	2152.5	1956.9	2180.9	1611.3	2060.8	2185.5	2209.0
Indicator value	0	0.9	1.7	2.5	2.7	1.8	1.7	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



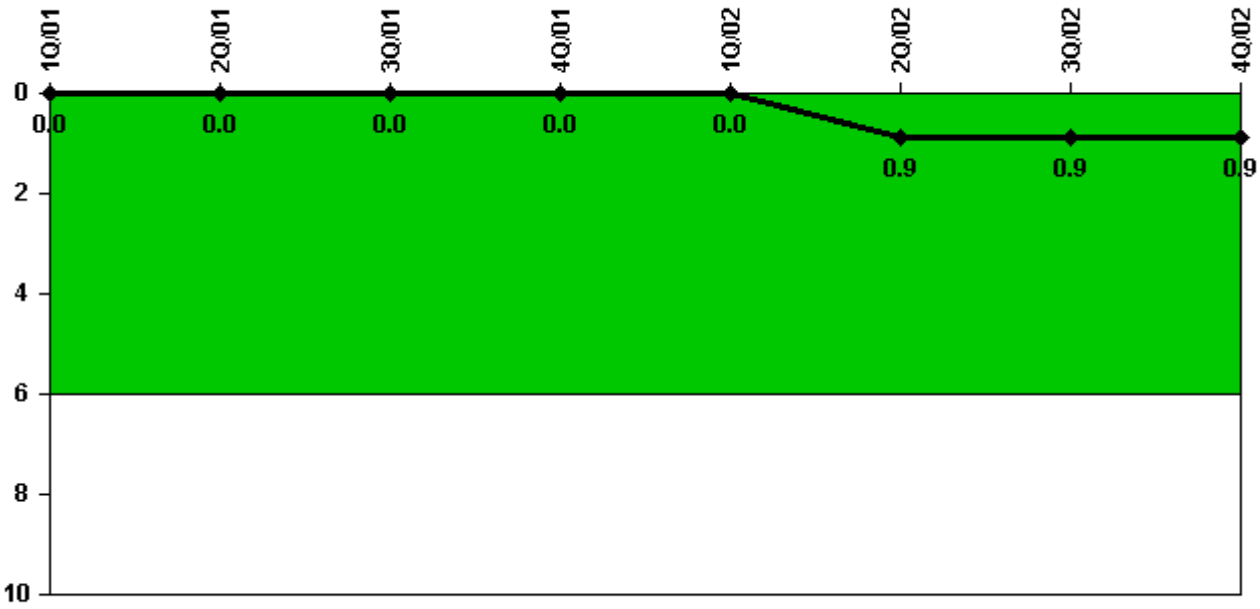
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



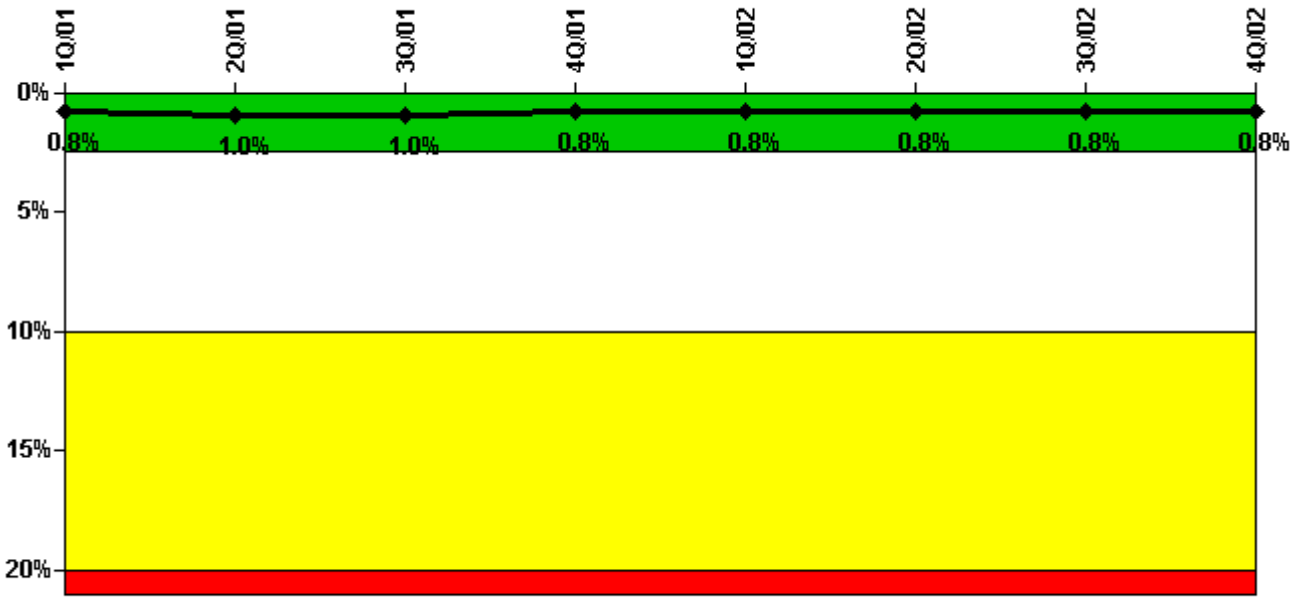
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2160.0	2152.5	1956.9	2180.9	1611.3	2060.8	2185.5	2209.0
Indicator value	0	0	0	0	0	0.9	0.9	0.9

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	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	2.24	30.21	2.03	14.73	2.14	4.55	1.05	7.75
Unplanned unavailable hours	0	8.52	0	0	0	0	0	0
Fault exposure hours	0	1.75	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1938.06	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	3.44	59.69	2.05	1.15	1.85	1.37	1.16	0.67
Unplanned unavailable hours	0	0	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	2160.00	2183.00	2123.63	2209.00	1902.72	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	2.80	47.37	2.42	7.01	2.00	1.39	1.23	1.35
Unplanned unavailable hours	0	0	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	2160.00	2183.00	2208.00	2209.00	1938.06	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	2.84	40.30	4.88	9.20	6.45	0.62	2.48	1.00
Unplanned unavailable hours	0	0	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	2160.00	2183.00	2123.63	2209.00	1902.72	2183.00	2208.00	2209.00
Indicator value	0.8%	1.0%	1.0%	0.8%	0.8%	0.8%	0.8%	0.8%

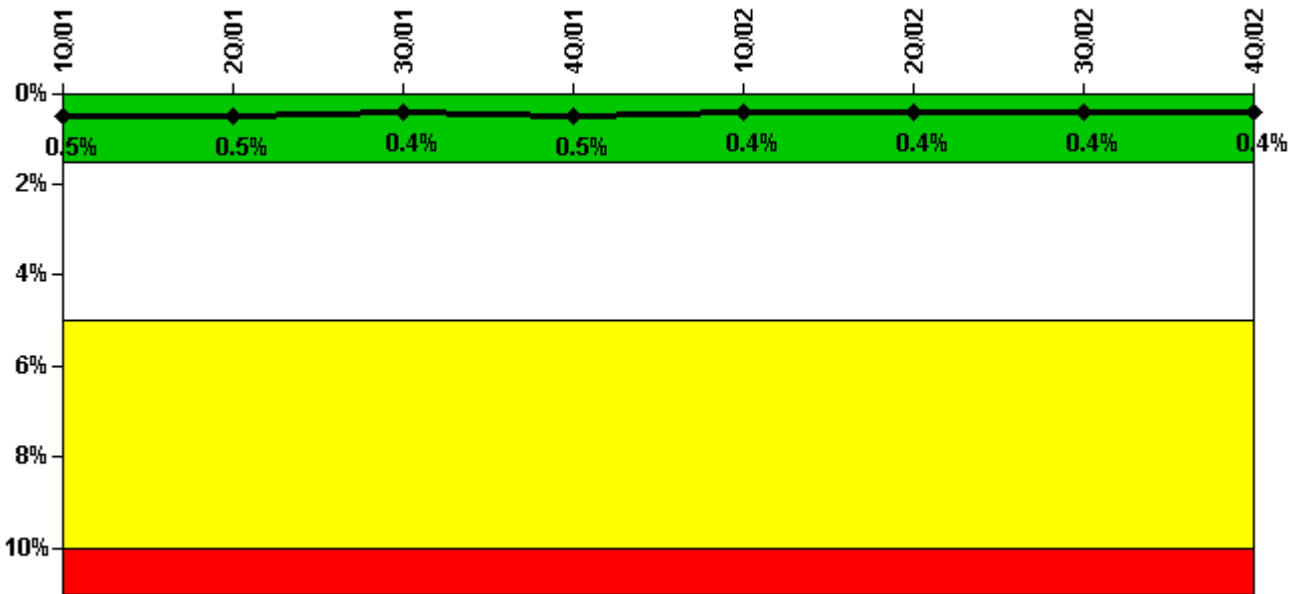
Licensee Comments: none

Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2014.00	2209.00	1662.60	2087.30	2208.00	2209.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments:

4Q/02: Due to inadequate review of FAQ 290, there is additional unavailability pending (back to the FAQ 290 approval quarter) as follows on Train 1: 01Q4=3.65, 02Q1=3.05, 02Q2=8.73, 02Q3=1.58. On Train 2: 01Q4=1.73, 02Q1=1.75, 02Q2=0.0, 02Q3=3.05. Verification of data will be completed as part of the corrective action for PER 02-17854 which also tracks this issue.

Safety System Unavailability, Residual Heat Removal System



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

Notes

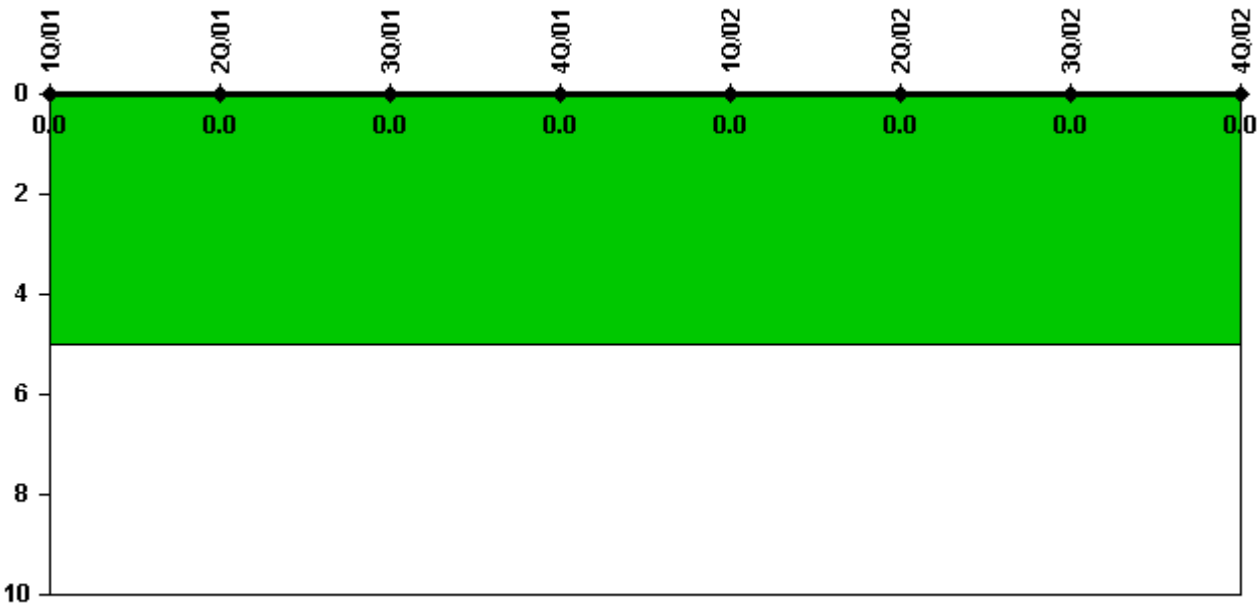
Safety System Unavailability, Residual Heat Removal System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	2.30	2.35	2.30	27.82	2.19	2.02	1.85	5.67
Unplanned unavailable hours	0	0	0.30	0	0.03	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2091.40	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	1.70	2.90	2.20	28.90	3.62	9.95	5.27	5.90
Unplanned unavailable hours	0	0	0	0	0.03	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	2160.00	2183.00	2208.00	2209.00	2091.40	2183.00	2208.00	2209.00

Indicator value	0.5%	0.5%	0.4%	0.5%	0.4%	0.4%	0.4%	0.4%
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Licensee Comments:

4Q/02: Due to inadequate review of FAQ 290, there is additional unavailability pending (back to the FAQ 290 approval quarter) as follows on Train 1; 01Q4=3.65, 02Q1=3.05, 02Q2=8.73, 02Q3=1.58. On Train 2; 01Q4=1.73, 02Q1=1.75, 02Q2=0.0, 02Q3=3.05. Verification of data will be completed as part of the corrective action for PER 02-17854 which also tracks this issue.

Safety System Functional Failures (PWR)



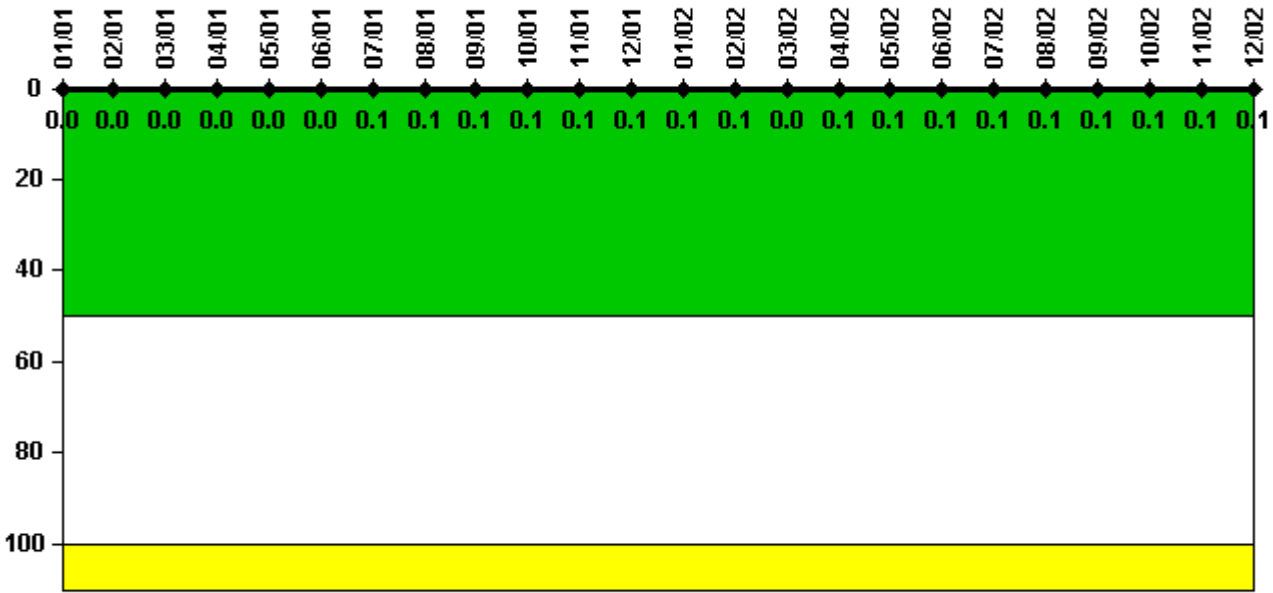
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

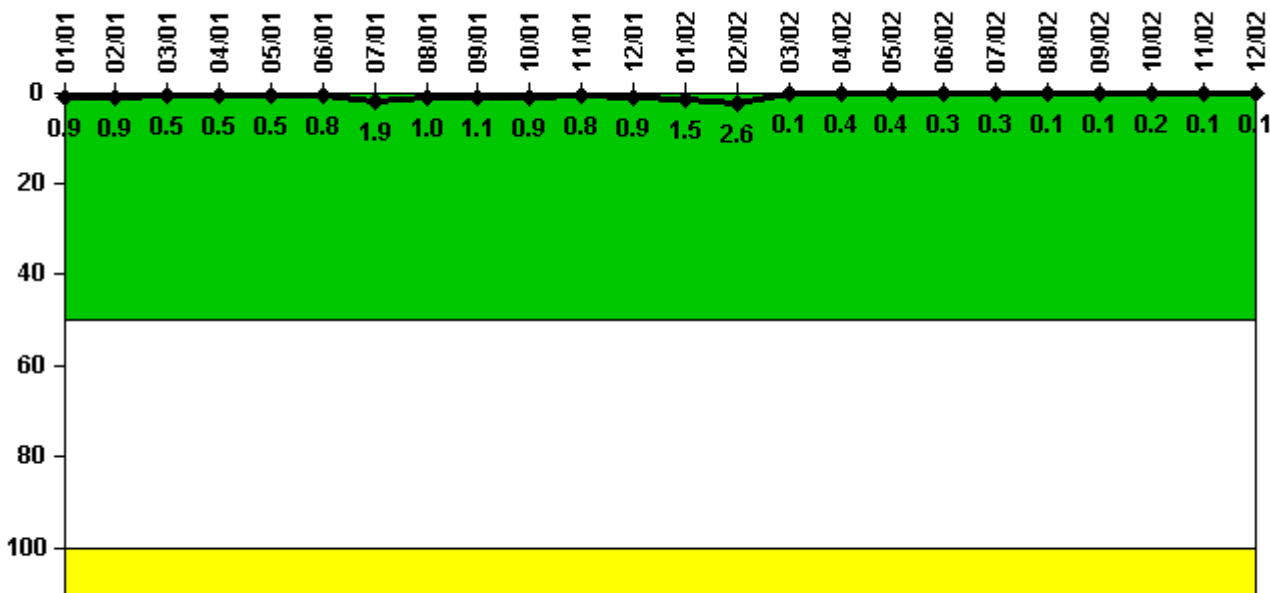
Notes

Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000233	0.000242	0.000248	0.000250	0.000250	0.000274	0.000267	0.000282	0.000281	0.000297	0.000301	0.000291
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1

Reactor Coolant System Activity	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum activity	0.000310	0.000367	0.000081	0.000150	0.000134	0.000135	0.000148	0.000149	0.000150	0.000151	0.000156	0.000163
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

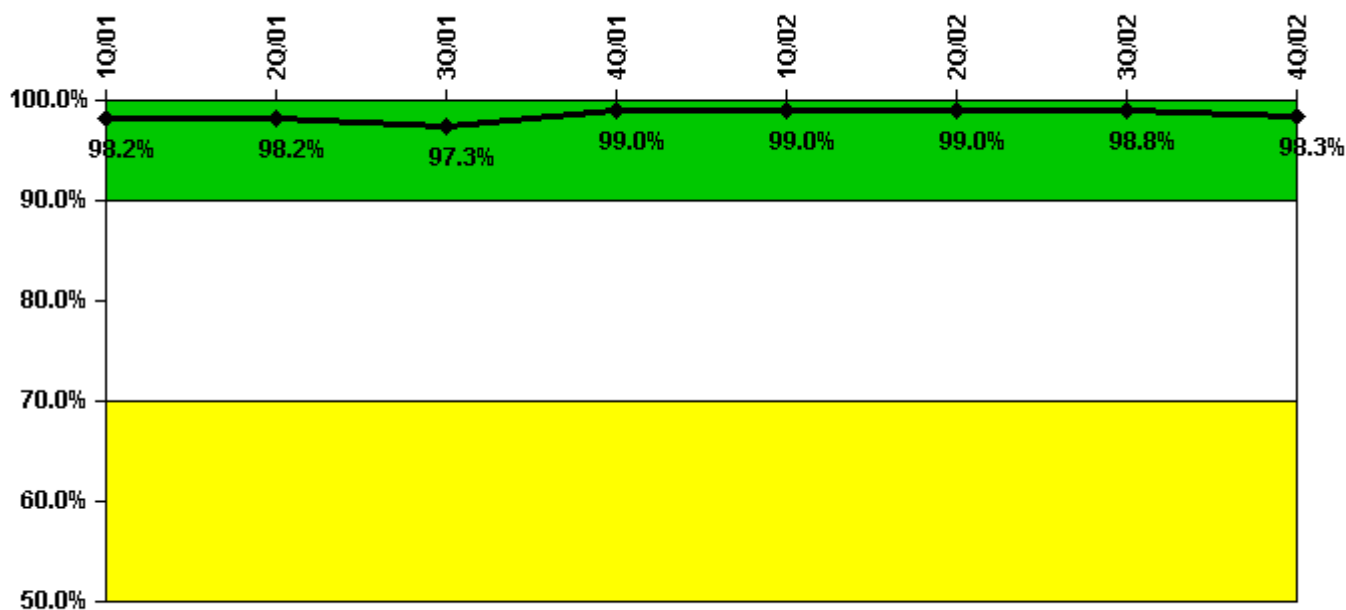
Notes

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0.090	0.090	0.050	0.050	0.050	0.080	0.190	0.100	0.110	0.090	0.080	0.090
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	0.9	0.9	0.5	0.5	0.5	0.8	1.9	1.0	1.1	0.9	0.8	0.9

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	0.150	0.260	0.010	0.040	0.040	0.030	0.030	0.010	0.010	0.020	0.010	0.010
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	1.5	2.6	0.1	0.4	0.4	0.3	0.3	0.1	0.1	0.2	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



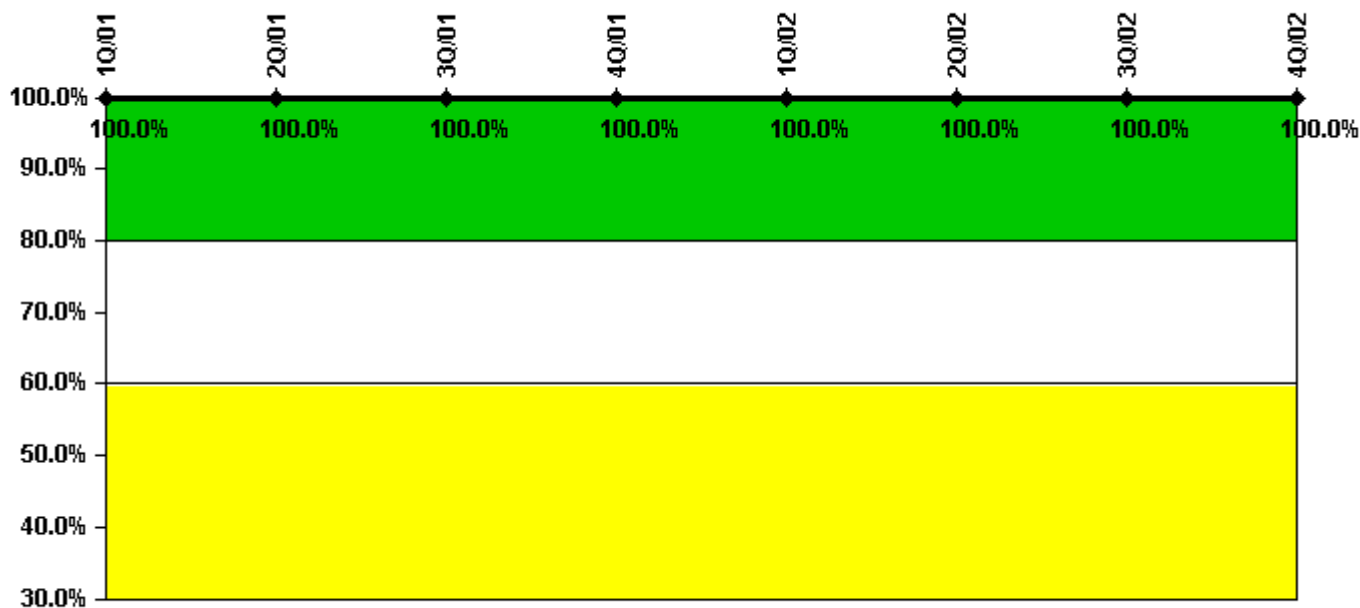
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	2.0	0	8.0	49.0	0	6.0	8.0	45.0
Total opportunities	2.0	0	8.0	50.0	0	6.0	8.0	46.0
Indicator value	98.2%	98.2%	97.3%	99.0%	99.0%	99.0%	98.8%	98.3%

Licensee Comments: none

ERO Drill Participation



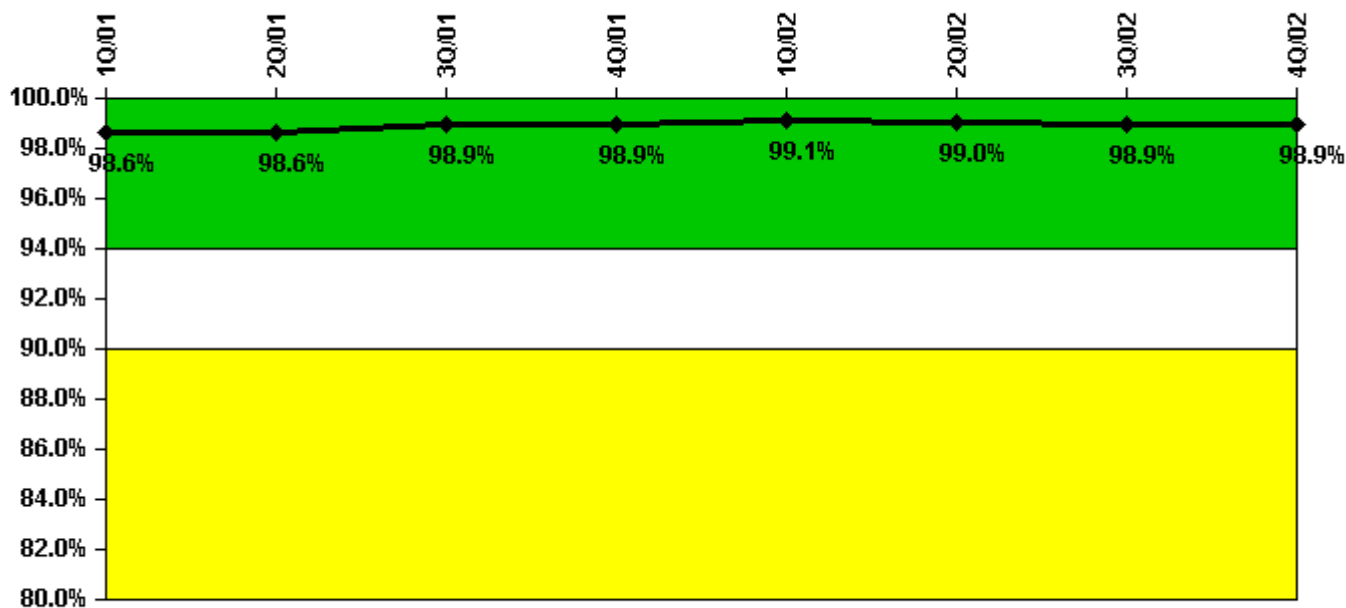
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Participating Key personnel	49.0	48.0	47.0	50.0	50.0	54.0	54.0	56.0
Total Key personnel	49.0	48.0	47.0	50.0	50.0	54.0	54.0	56.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



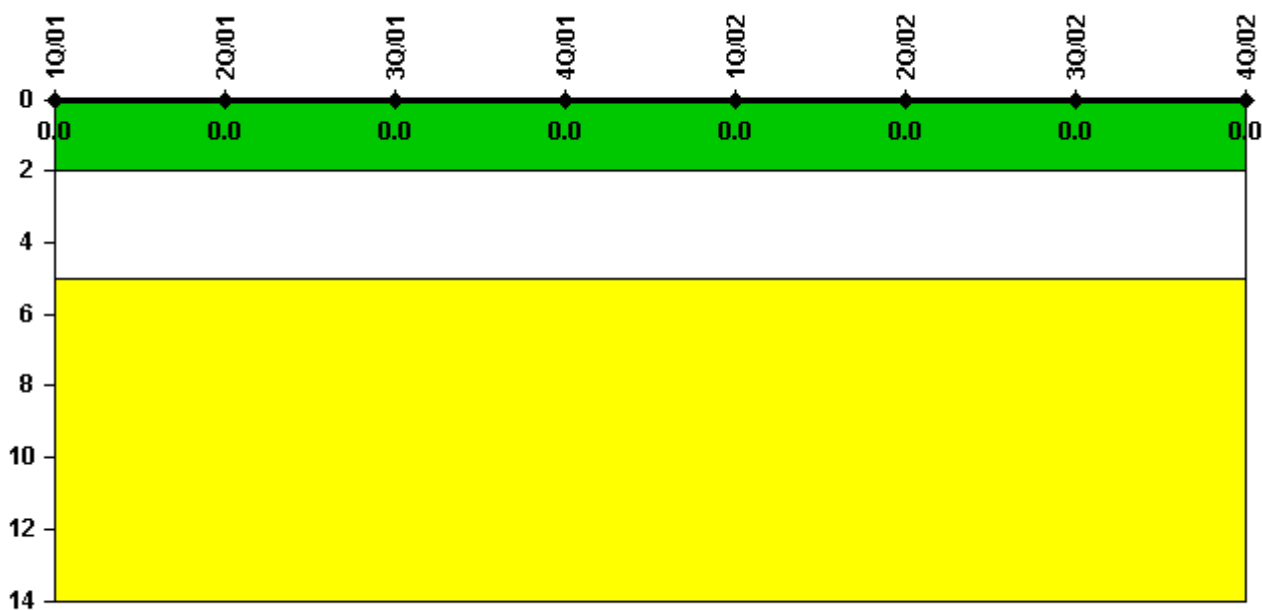
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful siren-tests	681	782	886	882	688	777	785	882
Total sirens-tests	693	792	891	891	693	792	792	891
Indicator value	98.6%	98.6%	98.9%	98.9%	99.1%	99.0%	98.9%	98.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



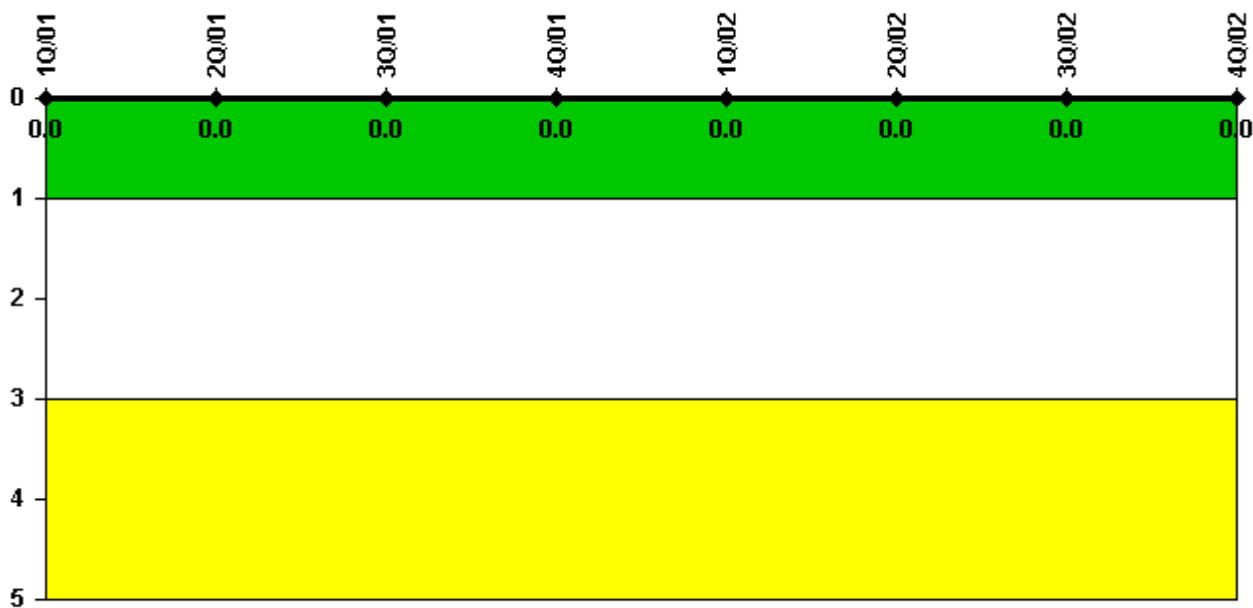
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/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



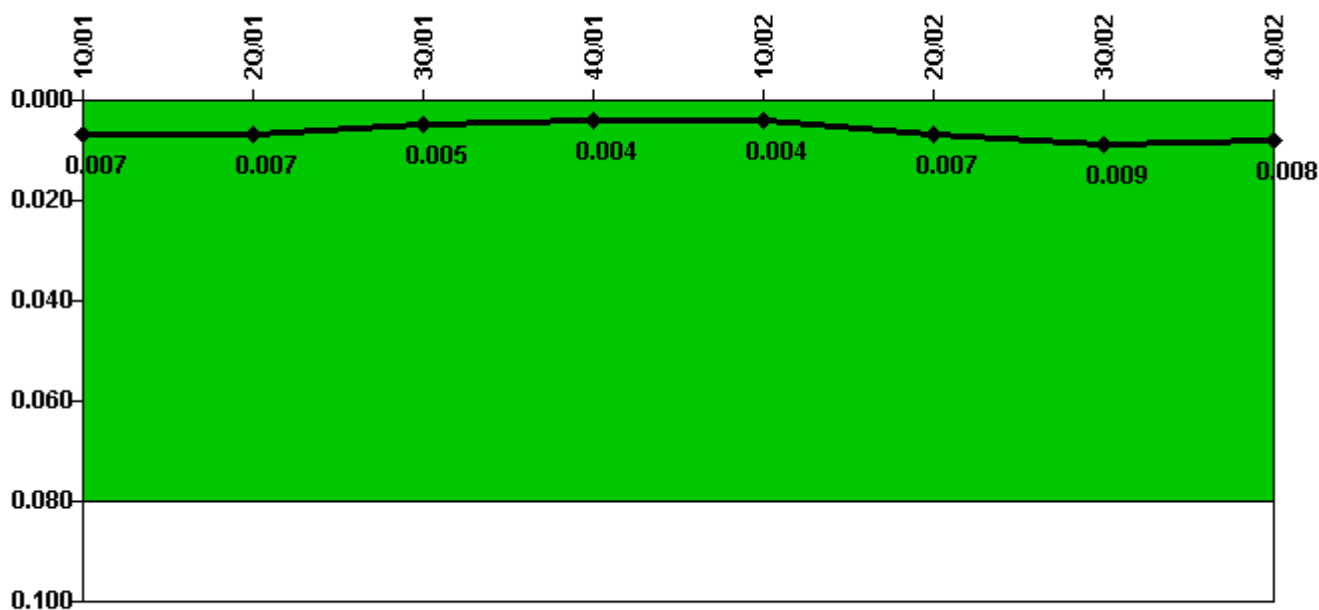
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/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



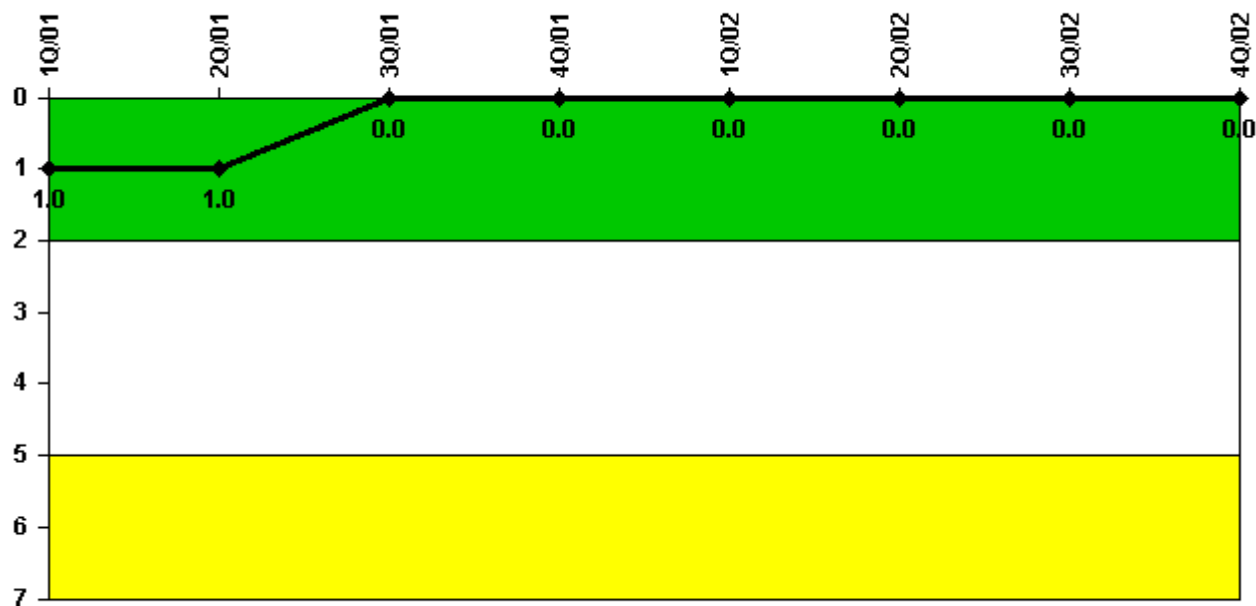
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
IDS compensatory hours	30.60	81.30	21.00	22.90	11.10	46.70	62.30	14.10
CCTV compensatory hours	4.3	2.6	1.6	6.2	23.8	151.7	6.4	0.4
IDS normalization factor	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	0.007	0.007	0.005	0.004	0.004	0.007	0.009	0.008

Licensee Comments: none

Personnel Screening Program



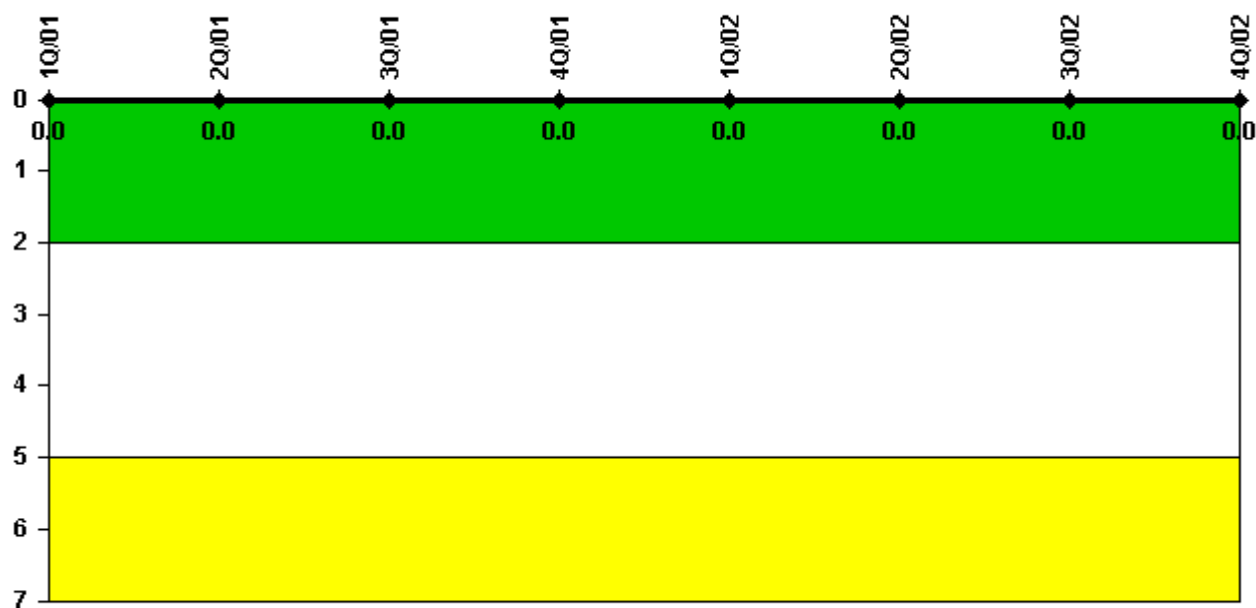
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/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: January 30, 2003