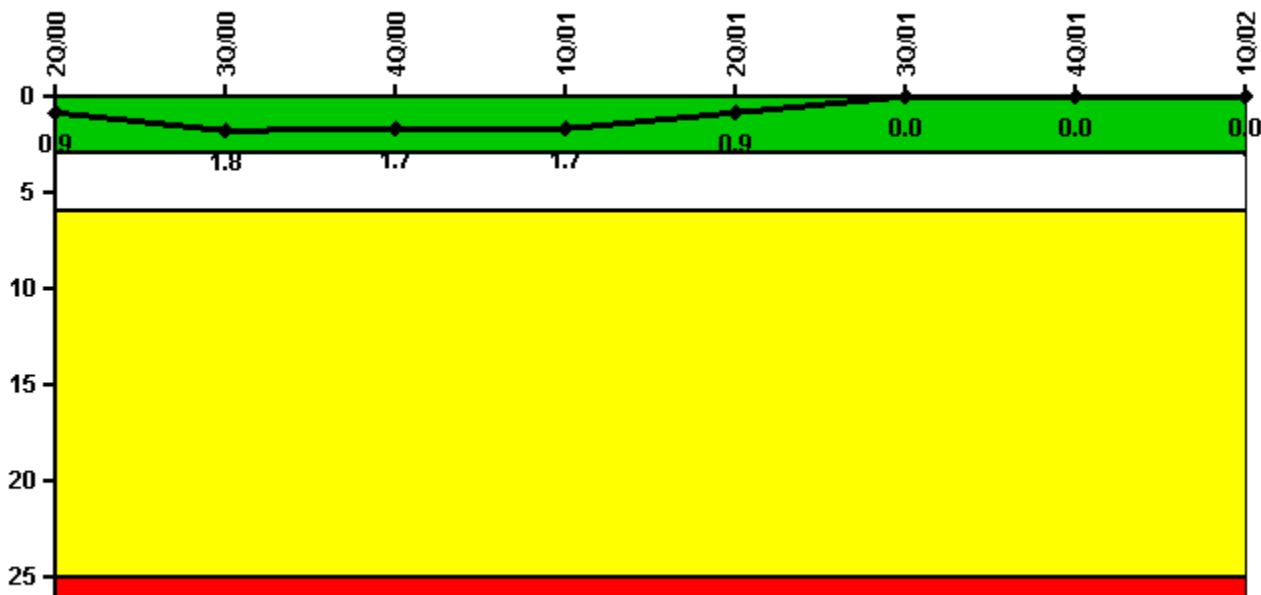


# Columbia Generating Station

## 1Q/2002 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



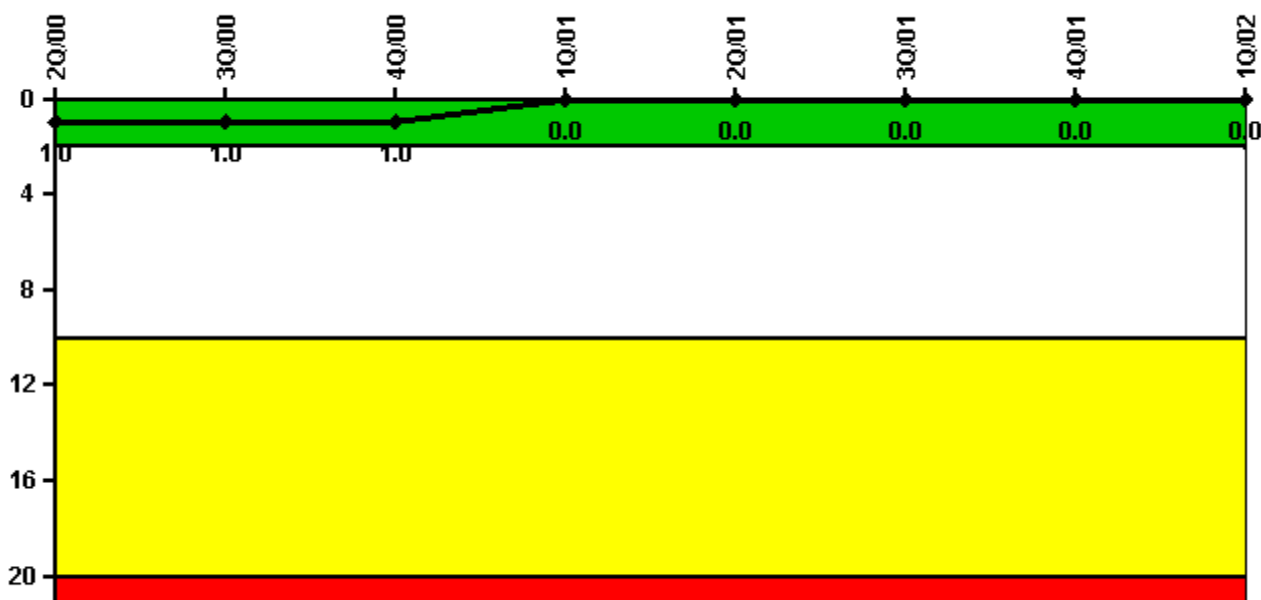
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	1.0	1.0	0	0	0	0	0	0
Critical hours	2071.4	1996.5	2209.0	2160.0	1265.4	2080.0	2209.0	1944.8
Indicator value	0.9	1.8	1.7	1.7	0.9	0	0	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



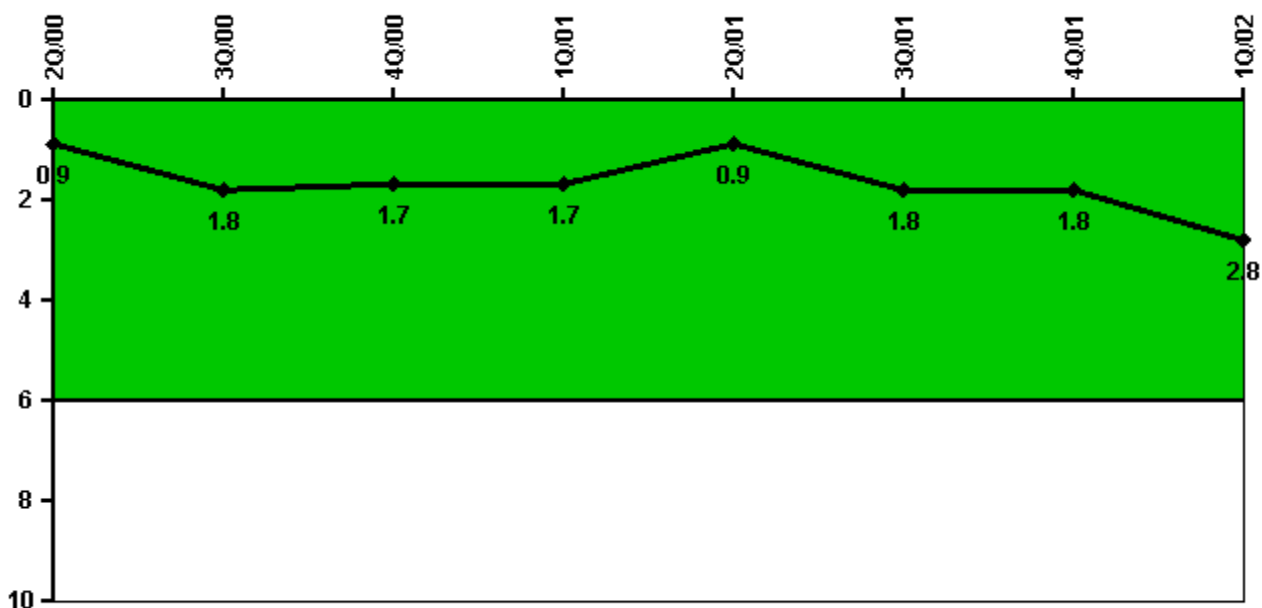
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### 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	0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



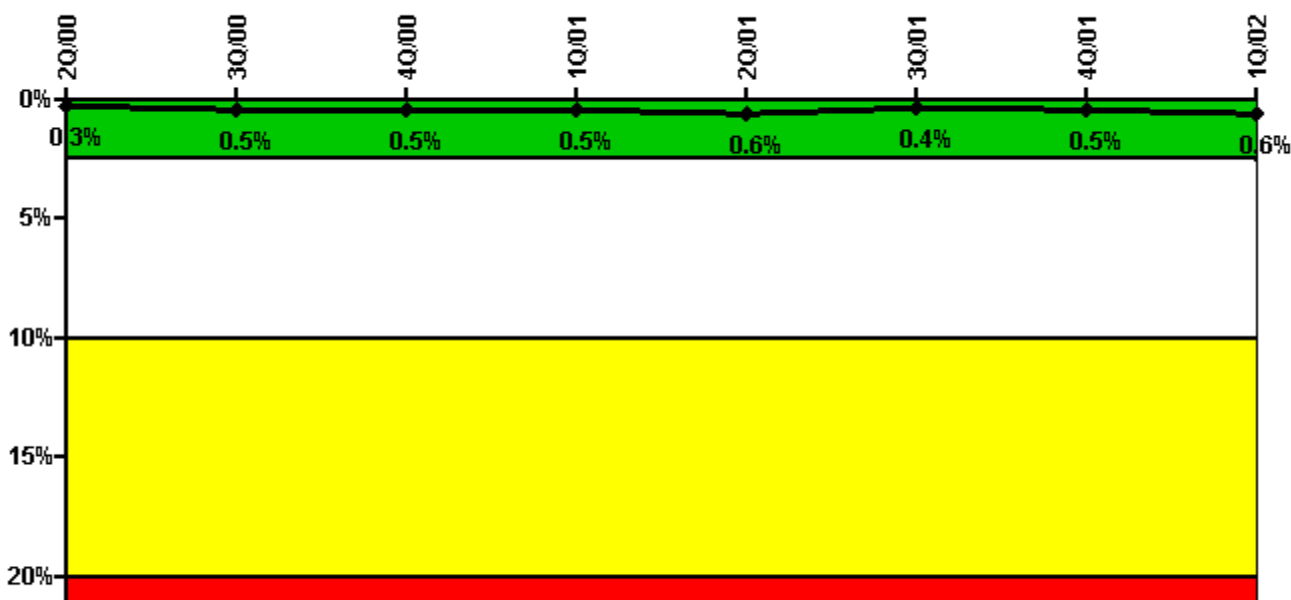
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	1.0	1.0	0	0	0	2.0	0	1.0
Critical hours	2071.4	1996.5	2209.0	2160.0	1265.4	2080.0	2209.0	1944.8
Indicator value	0.9	1.8	1.7	1.7	0.9	1.8	1.8	2.8

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power, >2EDG



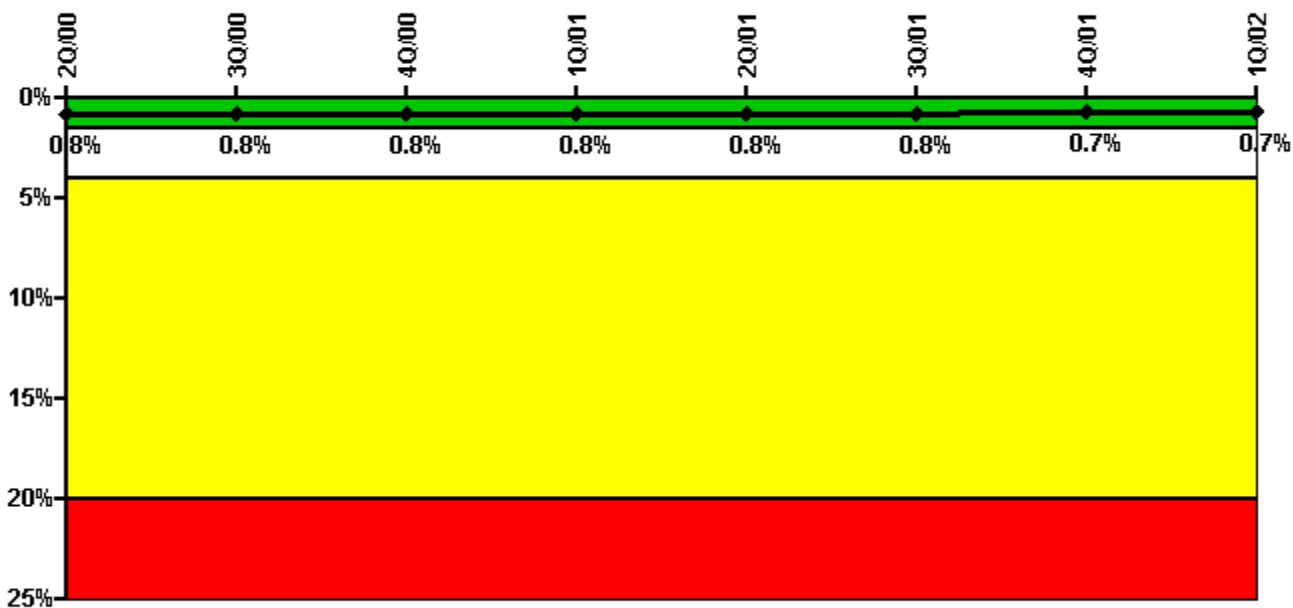
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

#### Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	0.99	17.67	5.04	3.53	1.10	1.57	21.46	8.02
Unplanned unavailable hours	0	8.55	0	6.05	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
<b>Train 2</b>								
Planned unavailable hours	24.80	10.83	31.38	1.32	0.68	2.21	4.17	92.17
Unplanned unavailable hours	0	52.25	0	0	3.72	0	40.96	2.67
Fault exposure hours	0	0	0	0	37.88	0	4.31	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
<b>Train 3</b>								
Planned unavailable hours	2.80	5.47	27.29	3.42	4.17	7.04	7.12	3.49
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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	0.3%	0.5%	0.5%	0.5%	0.6%	0.4%	0.5%	0.6%

Licensee Comments: none

### Safety System Unavailability, High Pressure Injection System (HPCS)



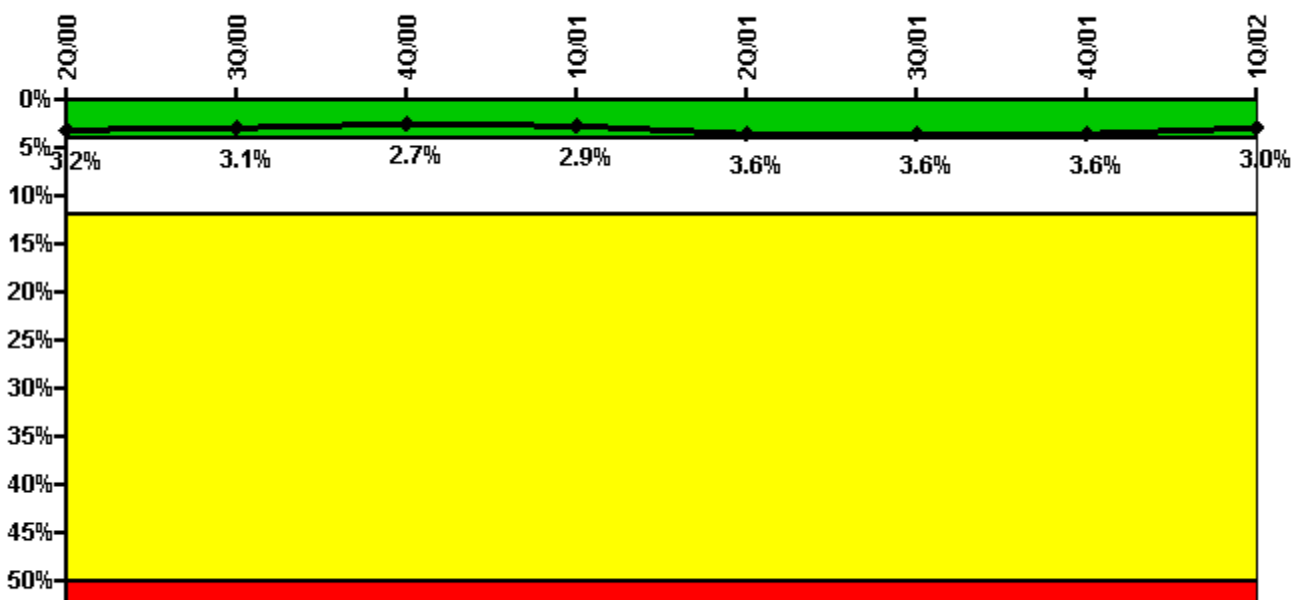
Thresholds: White > 1.5% Yellow > 4.0% Red > 20.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPCS)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	5.61	4.18	26.10	6.81	2.19	2.97	2.32	11.86
Unplanned unavailable hours	0	0	0	0	0.58	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	2089.40	2037.70	2209.00	2160.00	1576.53	2094.88	2209.00	1964.50
Indicator value	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%	0.7%	0.7%

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



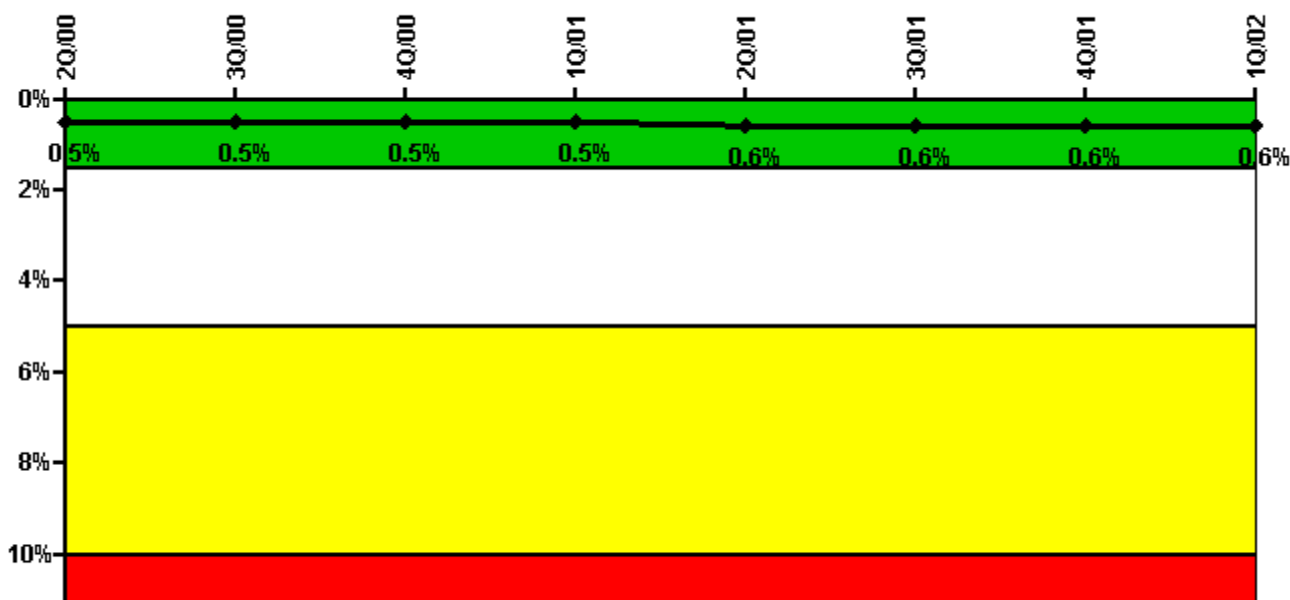
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	23.80	5.92	13.29	3.89	4.94	1.45	10.68	10.23
Unplanned unavailable hours	32.28	0	0	178.90	159.53	18.23	4.00	0.73
Fault exposure hours	0	0	0	0	9.56	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2080.50	1999.88	2209.00	2160.00	1244.70	2075.03	2209.00	1948.83
Indicator value	3.2%	3.1%	2.7%	2.9%	3.6%	3.6%	3.6%	3.0%

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



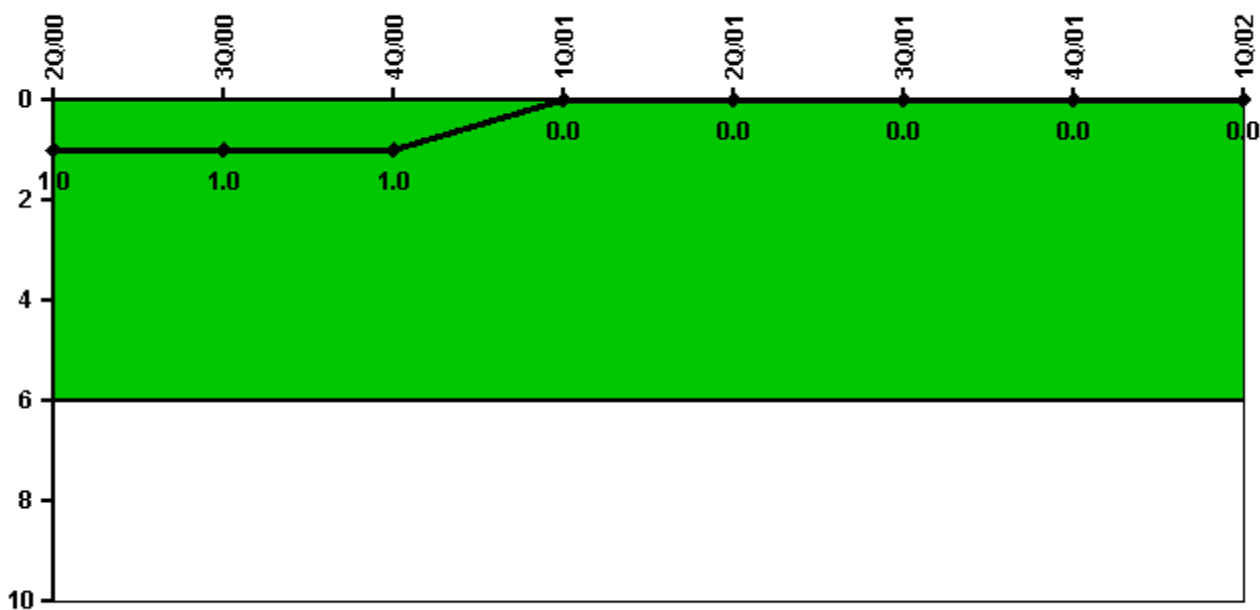
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
<b>Train 1</b>								
Planned unavailable hours	0.33	8.58	1.33	1.57	7.81	4.43	7.30	23.42
Unplanned unavailable hours	0	8.28	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	2182.63	2208.00	2209.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	0.28	5.48	10.78	1.33	54.34	1.45	0.63	26.15
Unplanned unavailable hours	0	0	0	0	3.72	0	36.80	0
Fault exposure hours	0	0	0	0	37.88	0	4.31	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1993.08	2208.00	2209.00	2160.00
Indicator value	0.5%	0.5%	0.5%	0.5%	0.6%	0.6%	0.6%	0.6%

Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

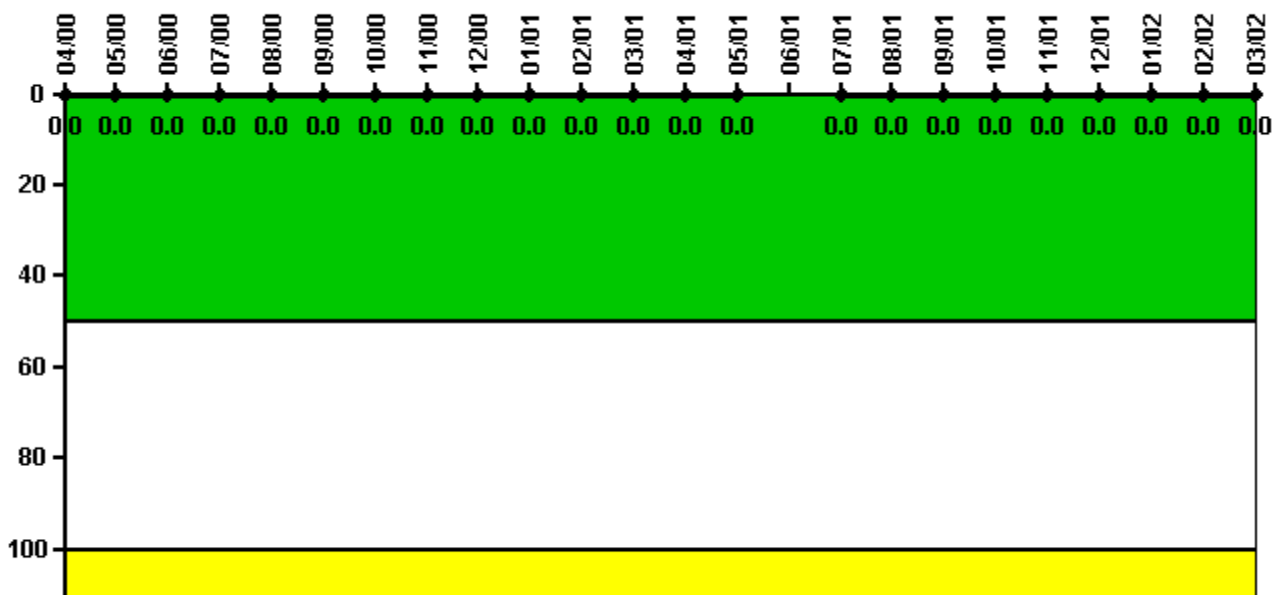
#### Notes

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

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

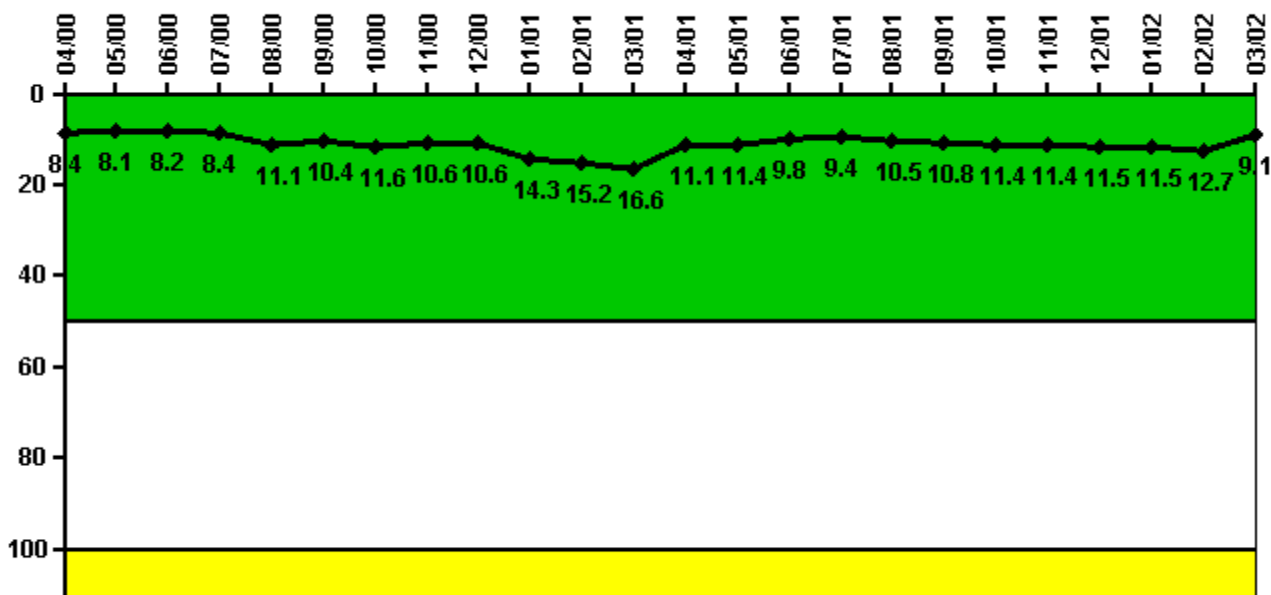
Reactor Coolant System Activity	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000017	0.000018	0.000023	0.000021	0.000020	0.000020	0.000021	0.000021	0.000024	0.000024	0.000022	0.000022
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

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	0.000024	0.000022	N/A	0.000015	0.000008	0.000010	0.000013	0.000014	0.000017	0.000018	0.000016	0.000017
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	0	N/A	0	0	0	0	0	0	0	0	0

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	2.110	2.020	2.060	2.100	2.770	2.610	2.900	2.640	2.660	3.570	3.790	4.150
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	8.4	8.1	8.2	8.4	11.1	10.4	11.6	10.6	10.6	14.3	15.2	16.6

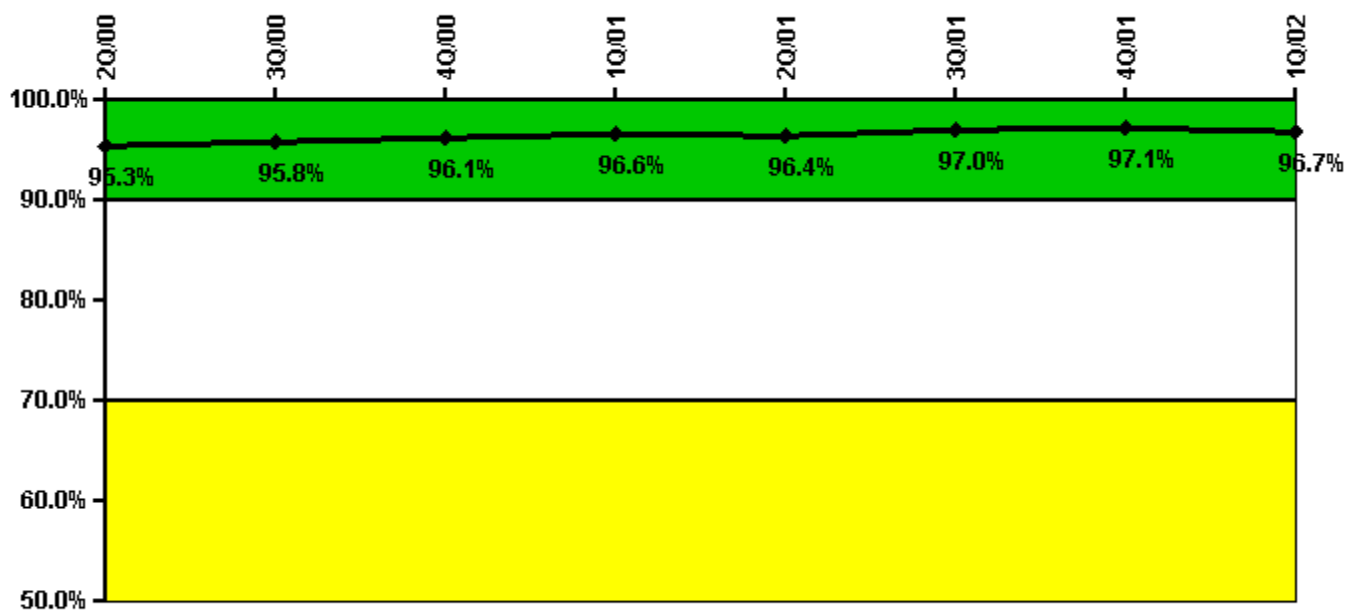
  

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	2.780	2.840	2.440	2.350	2.620	2.690	2.840	2.840	2.870	2.880	3.170	2.270
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	11.1	11.4	9.8	9.4	10.5	10.8	11.4	11.4	11.5	11.5	12.7	9.1

Licensee Comments:

3/02: This indicator data is RCS Total Leakage. Columbia Generating Station's Technical Specifications is for Total Leakage.

### Drill/Exercise Performance



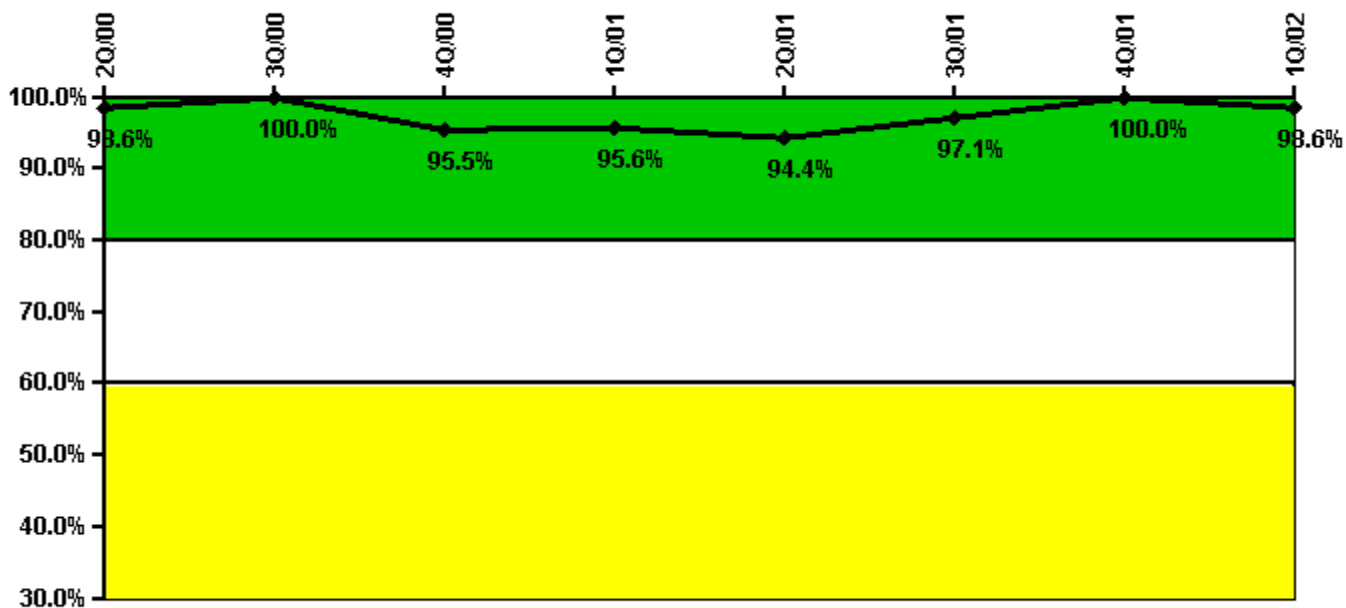
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	30.0	20.0	8.0	12.0	6.0	26.0	8.0	9.0
Total opportunities	32.0	21.0	8.0	12.0	6.0	26.0	8.0	10.0
Indicator value	95.3%	95.8%	96.1%	96.6%	96.4%	97.0%	97.1%	96.7%

Licensee Comments: none

### ERO Drill Participation



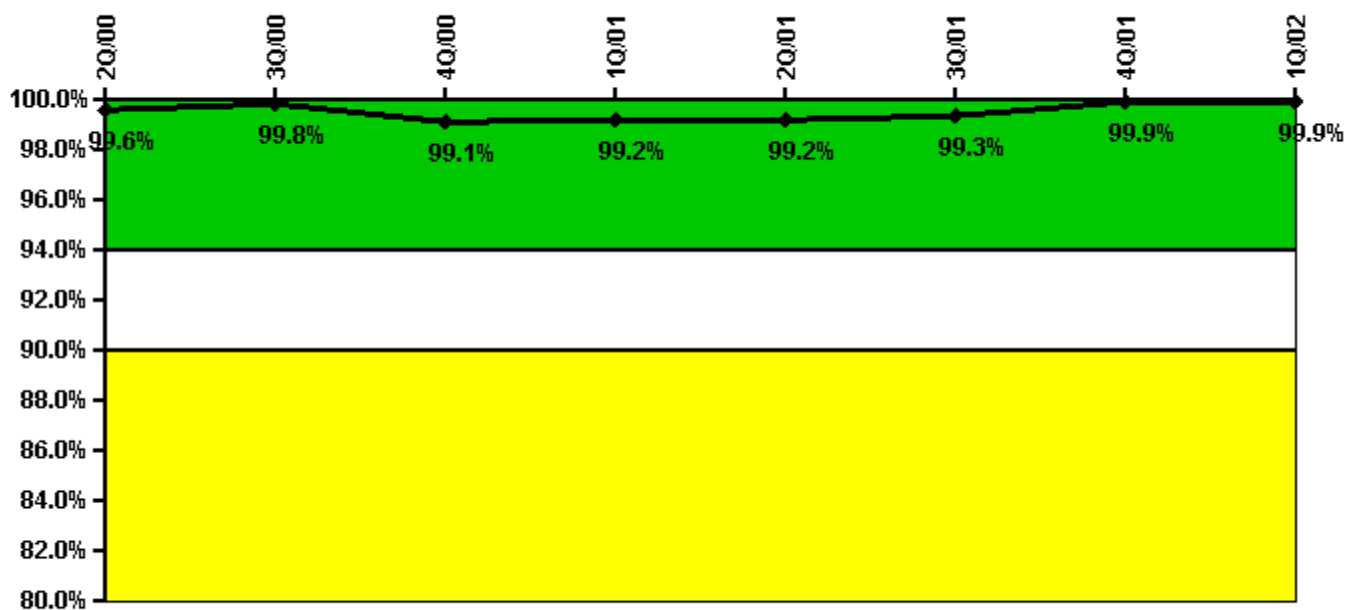
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	70.0	70.0	64.0	65.0	68.0	67.0	70.0	71.0
Total Key personnel	71.0	70.0	67.0	68.0	72.0	69.0	70.0	72.0
Indicator value	98.6%	100.0%	95.5%	95.6%	94.4%	97.1%	100.0%	98.6%

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	143	143	138	198	285	286	248	286
Total sirens-tests	143	143	143	198	286	286	248	286
Indicator value	99.6%	99.8%	99.1%	99.2%	99.2%	99.3%	99.9%	99.9%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



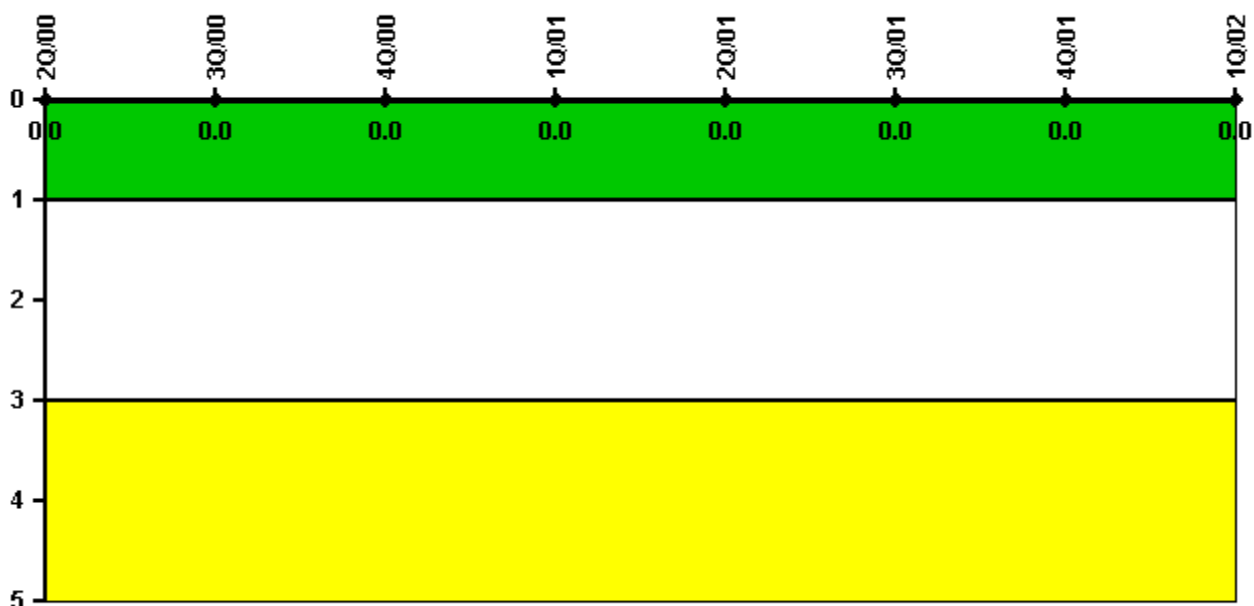
Thresholds: White > 2.0 Yellow > 5.0

#### 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



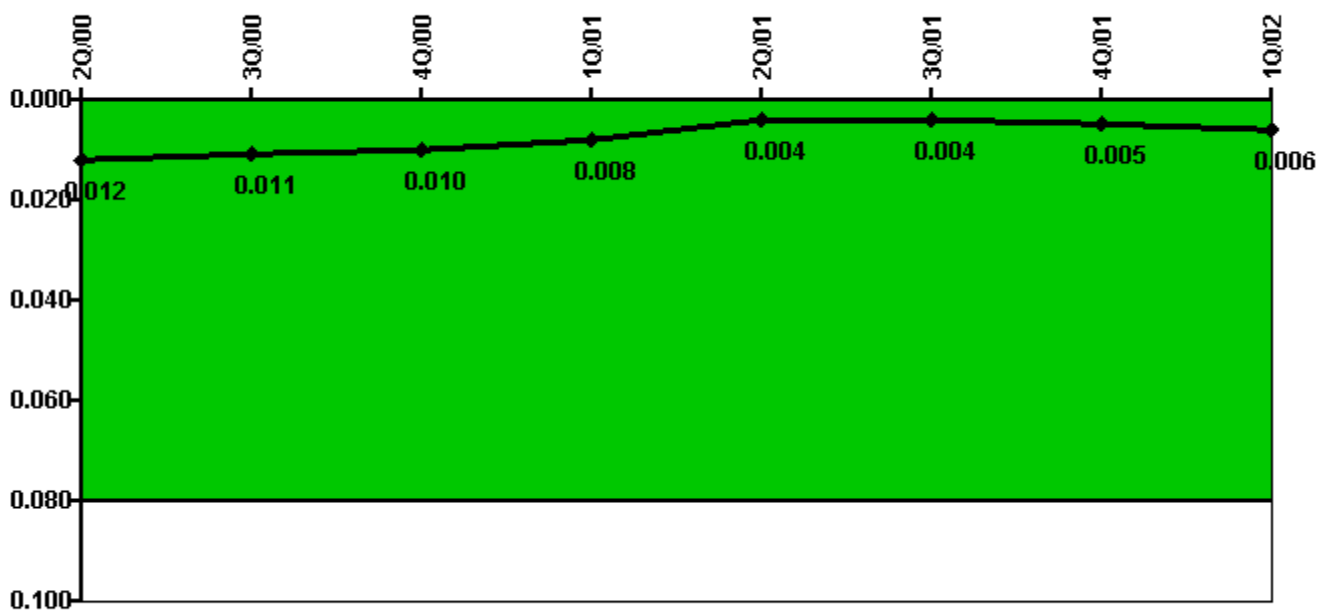
Thresholds: White > 1.0 Yellow > 3.0

#### 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

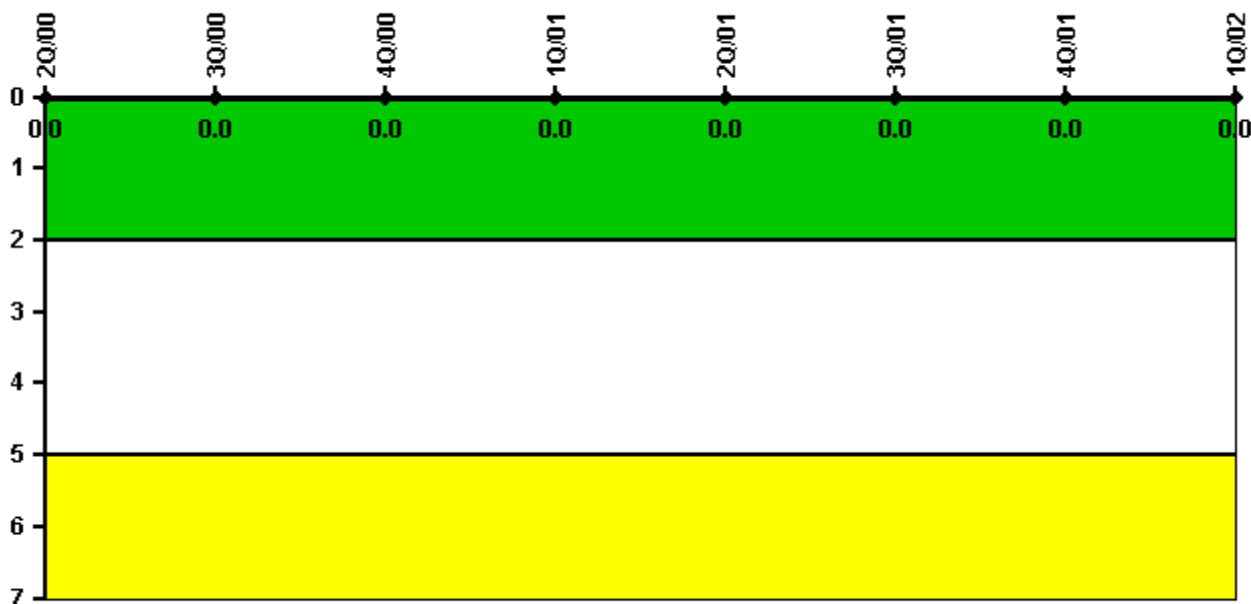
#### Notes

Protected Area Security Performance Index	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
IDS compensatory hours	148.30	93.60	7.80	14.30	12.30	47.80	45.20	18.20
CCTV compensatory hours	7.4	5.8	0	0	0.1	34.7	0	9.0
IDS normalization factor	2.10	2.10	2.10	2.05	2.05	2.05	2.05	2.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>Index Value</b>	<b>0.012</b>	<b>0.011</b>	<b>0.010</b>	<b>0.008</b>	<b>0.004</b>	<b>0.004</b>	<b>0.005</b>	<b>0.006</b>

Licensee Comments: none



### Personnel Screening Program



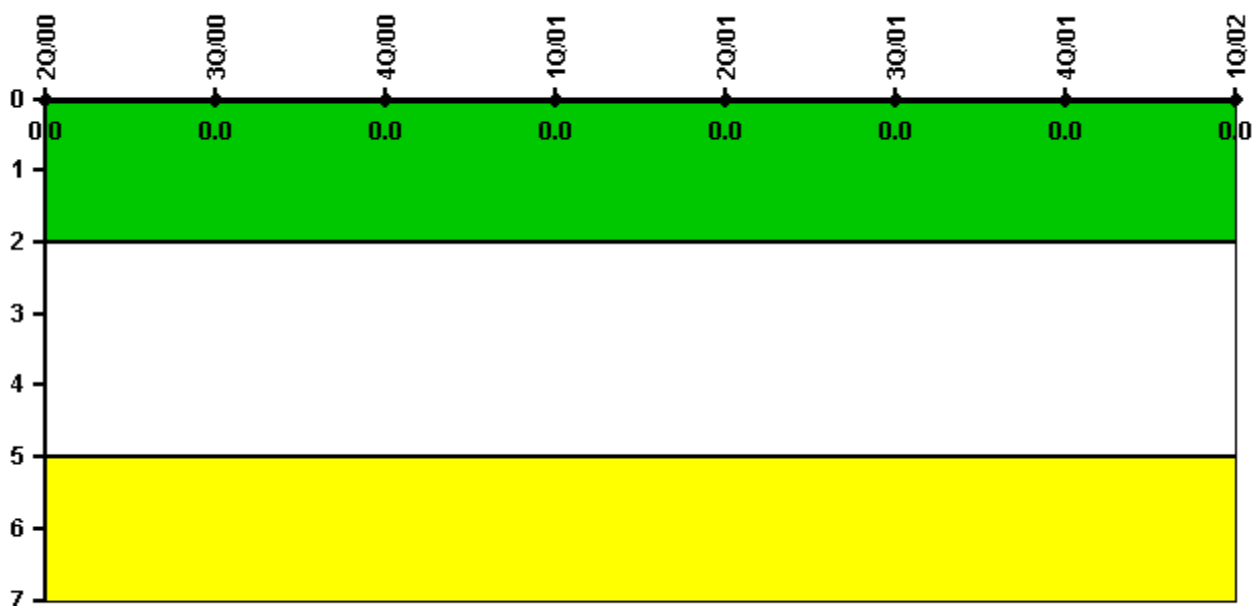
Thresholds: White > 2.0 Yellow > 5.0

#### 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