

# Three Mile Island 1

## 4Q/2006 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



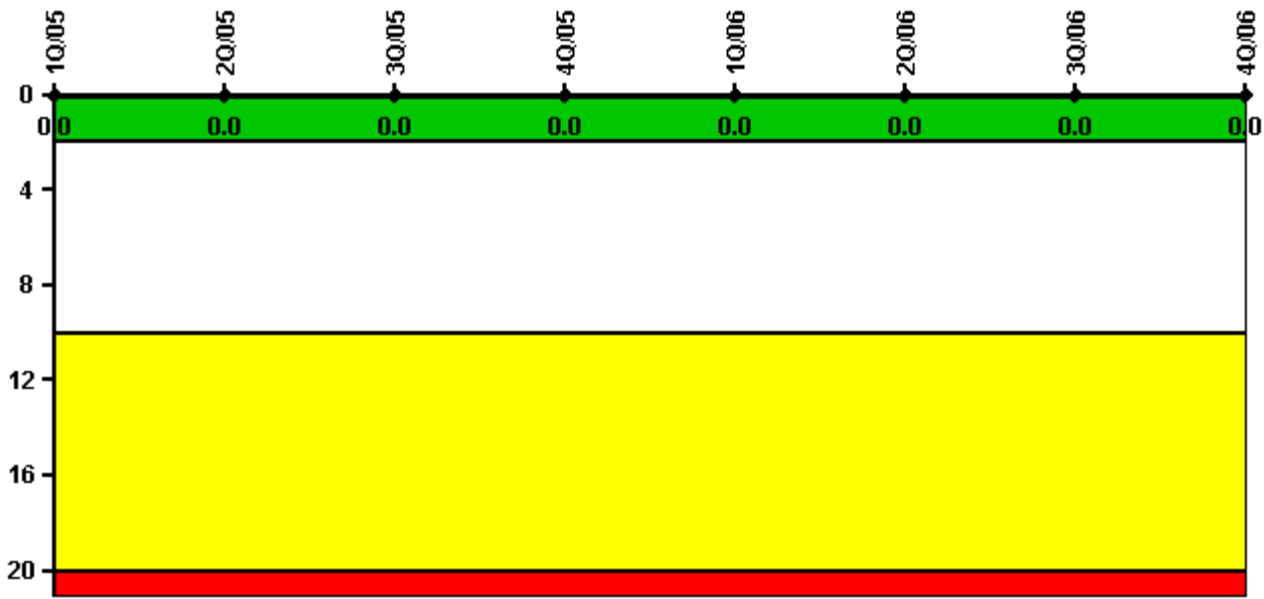
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned scrams	0	0	0	0	0	0	0	2.0
Critical hours	2160.0	2183.0	2208.0	1613.8	2160.0	2183.0	2208.0	2128.8
Indicator value	0	0	0	0	0	0	0	1.6

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



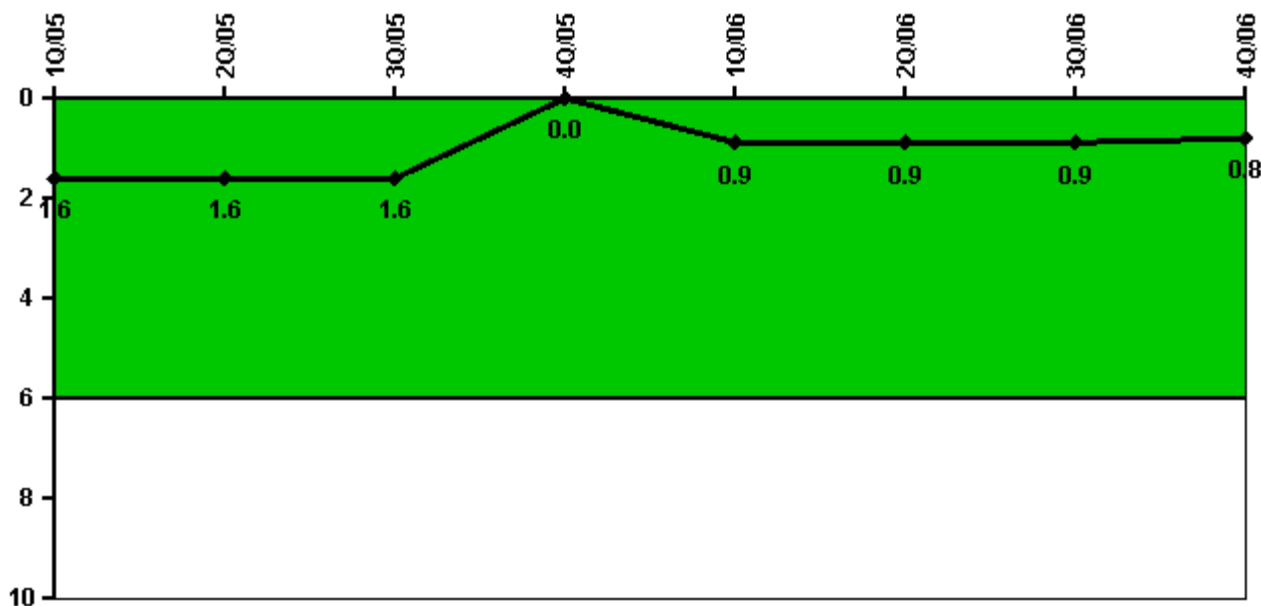
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



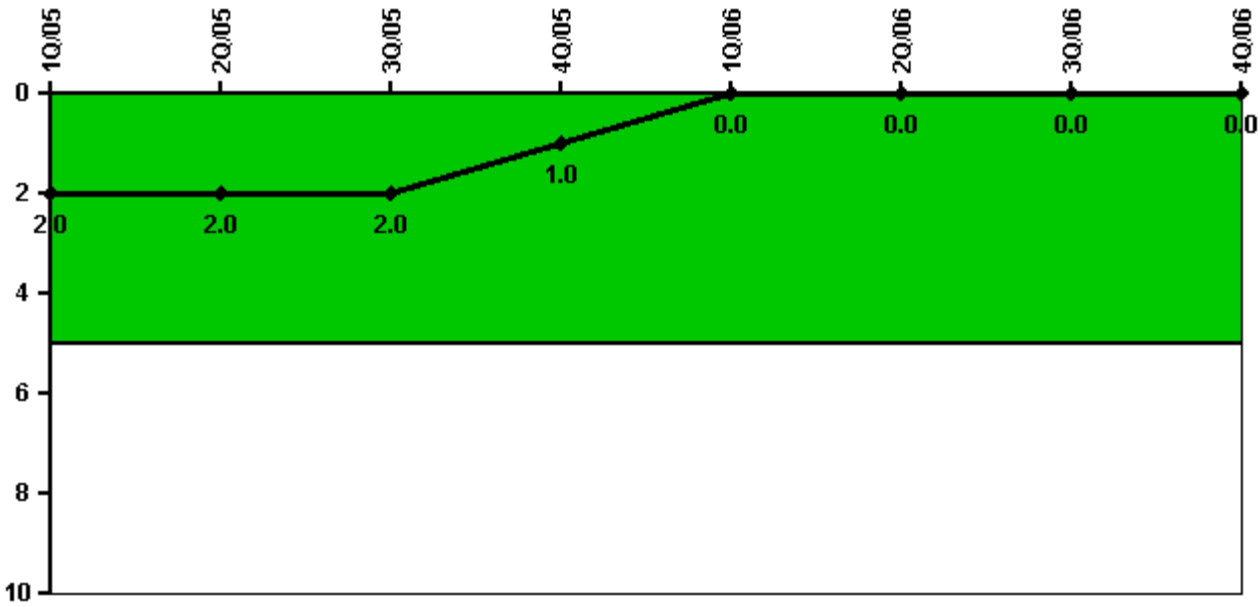
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2160.0	2183.0	2208.0	1613.8	2160.0	2183.0	2208.0	2128.8
Indicator value	1.6	1.6	1.6	0	0.9	0.9	0.9	0.8

Licensee Comments: none

### Safety System Functional Failures (PWR)



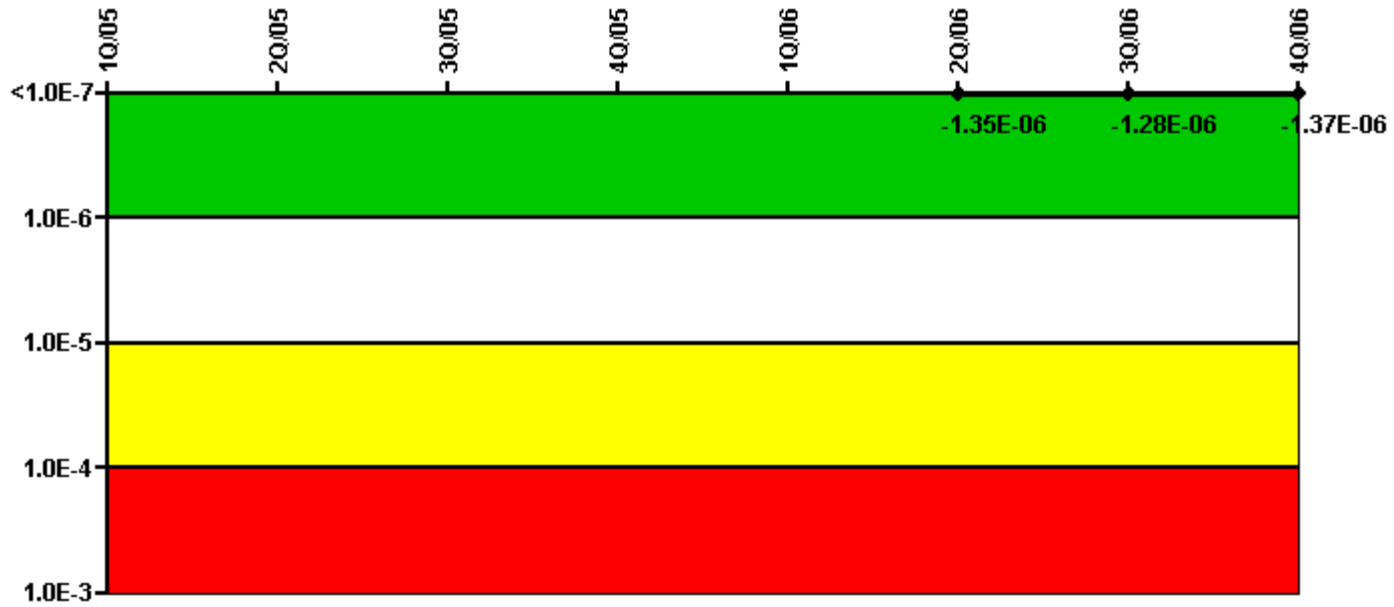
Thresholds: White > 5.0

#### Notes

Safety System Functional Failures (PWR)	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	2	2	2	1	0	0	0	0

Licensee Comments: none

### Mitigating Systems Performance Index, Emergency AC Power System



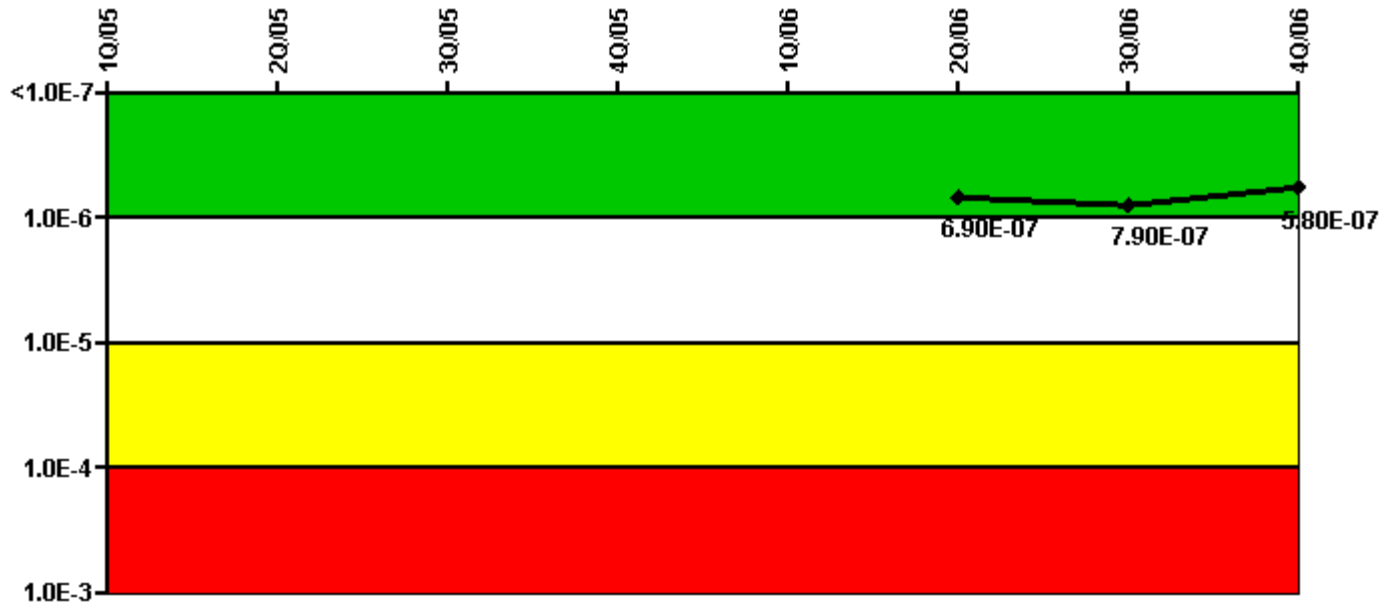
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI ( $\Delta$ CDF)						4.70E-08	1.80E-08	-7.40E-08
URI ( $\Delta$ CDF)						-1.40E-06	-1.30E-06	-1.30E-06
PLE						NO	NO	NO
Indicator value						-1.35E-06	-1.28E-06	-1.37E-06

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

**Notes**

Mitigating Systems Performance Index, High Pressure Injection System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						1.00E-06	1.10E-06	8.90E-07
URI (ΔCDF)						-3.10E-07	-3.10E-07	-3.10E-07
PLE						NO	NO	NO
Indicator value						6.90E-07	7.90E-07	5.80E-07

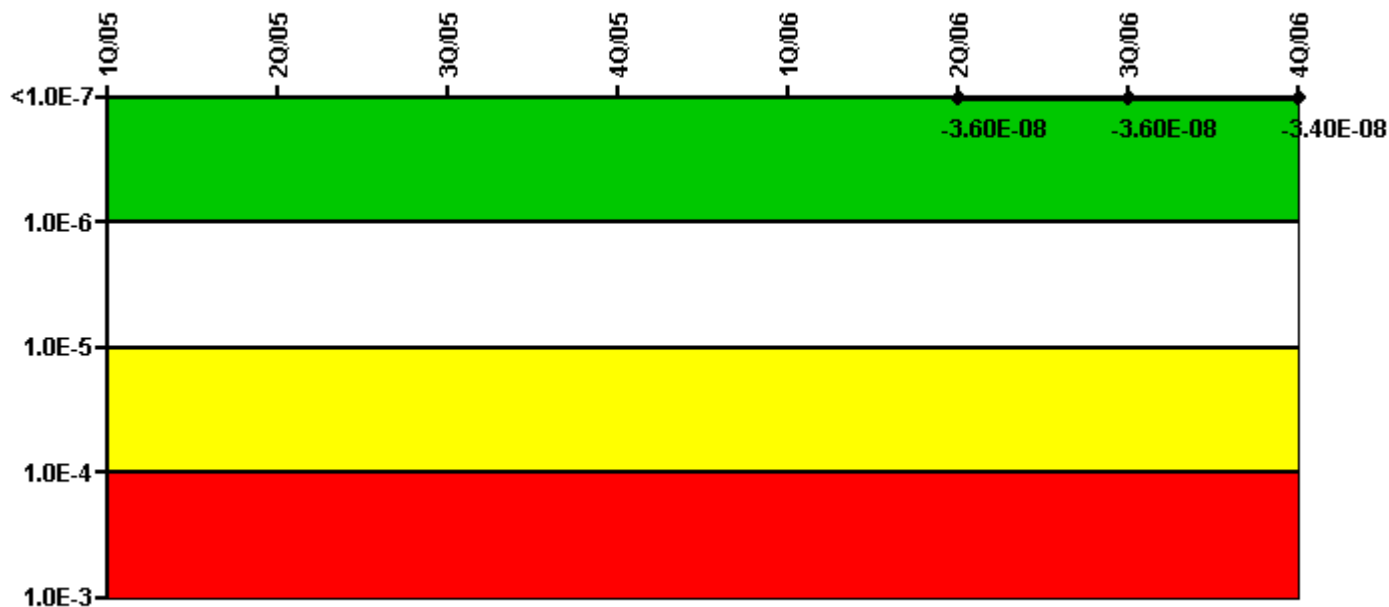
Licensee Comments:

4Q/06: Historical data corrected as follows, with no change in MSPI color: (1) MU-P-1A unplanned UA - added 23.23 hours for for an outage that did not previously impact SSU for the system in Jan 2004, (2) MU-P-1A planned UA - removed 3.9 redundant hours from March 2004, (3) MU-P-1B planned UA - removed 5.55 hours due to work that cascaded to a non-MSPI support system in March 2005, and (4) MU-P-1B planned UA - added 27.0 hours for an outage that did not previously impact SSU for the system in Jan 2006.

3Q/06: Historical data corrected as follows, with no change in MSPI color: (1) MU-P-1A unplanned UA - added 23.23 hours for for an outage that did not previously impact SSU for the system in Jan 2004, (2) MU-P-1A planned UA - removed 3.9 redundant hours from March 2004, (3) MU-P-1B planned UA - removed 5.55 hours due to work that cascaded to a support system in March 2005, and (4) MU-P-1B planned UA - added 27.0 hours for an outage that did not previously impact SSU for the system in Jan 2006. A previous revision had corrected historic data by adding planned UA for MU-P-1A in January 2006 and for MU-P-1C in March 2004.

2Q/06: Historical data corrected as follows, with no change in MSPI color: (1) MU-P-1A unplanned UA - added 23.23 hours for for an outage that did not previously impact SSU for the system in Jan 2004, (2) MU-P-1A planned UA - removed 3.9 redundant hours from March 2004, (3) MU-P-1B planned UA - removed 5.55 hours due to work that cascaded to a support system in March 2005, and (4) MU-P-1B planned UA - added 27.0 hours for an outage that did not previously impact SSU for the system in Jan 2006.

### Mitigating Systems Performance Index, Heat Removal System



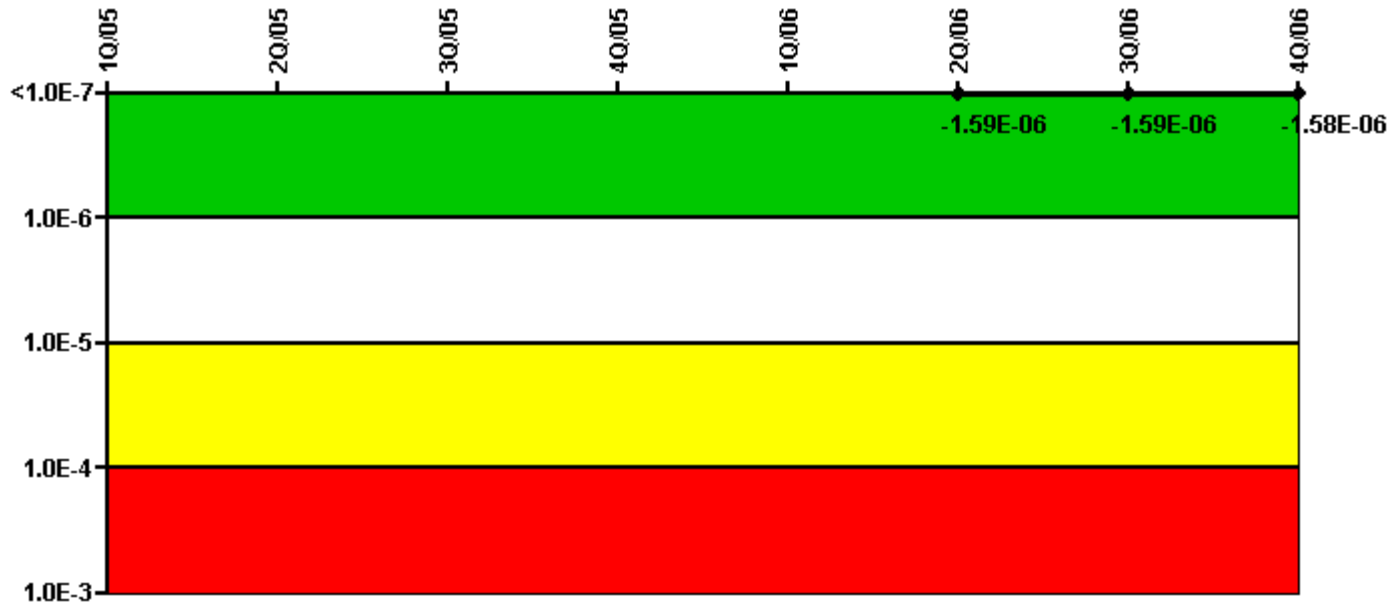
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI ( $\Delta$ CDF)						-1.70E-08	-1.70E-08	-1.50E-08
URI ( $\Delta$ CDF)						-1.90E-08	-1.90E-08	-1.90E-08
PLE						NO	NO	NO
Indicator value						-3.60E-08	-3.60E-08	-3.40E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

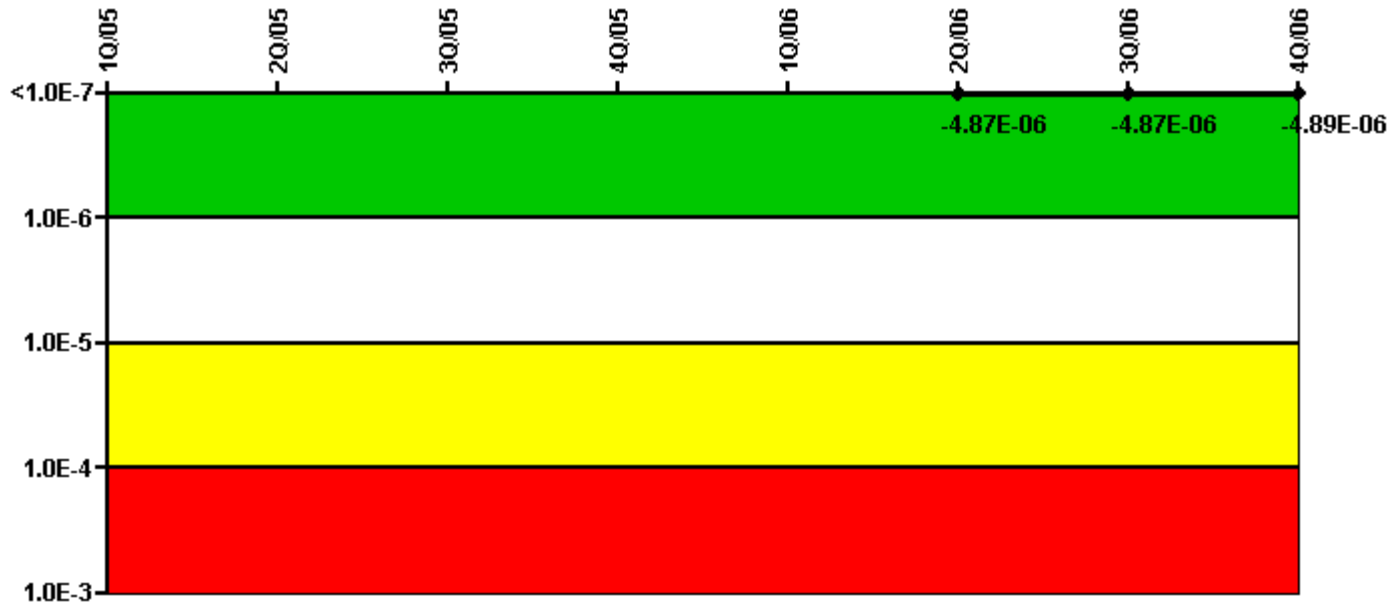
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI ( $\Delta$ CDF)						-9.30E-08	-9.30E-08	-7.60E-08
URI ( $\Delta$ CDF)						-1.50E-06	-1.50E-06	-1.50E-06
PLE						NO	NO	NO
Indicator value						-1.59E-06	-1.59E-06	-1.58E-06

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



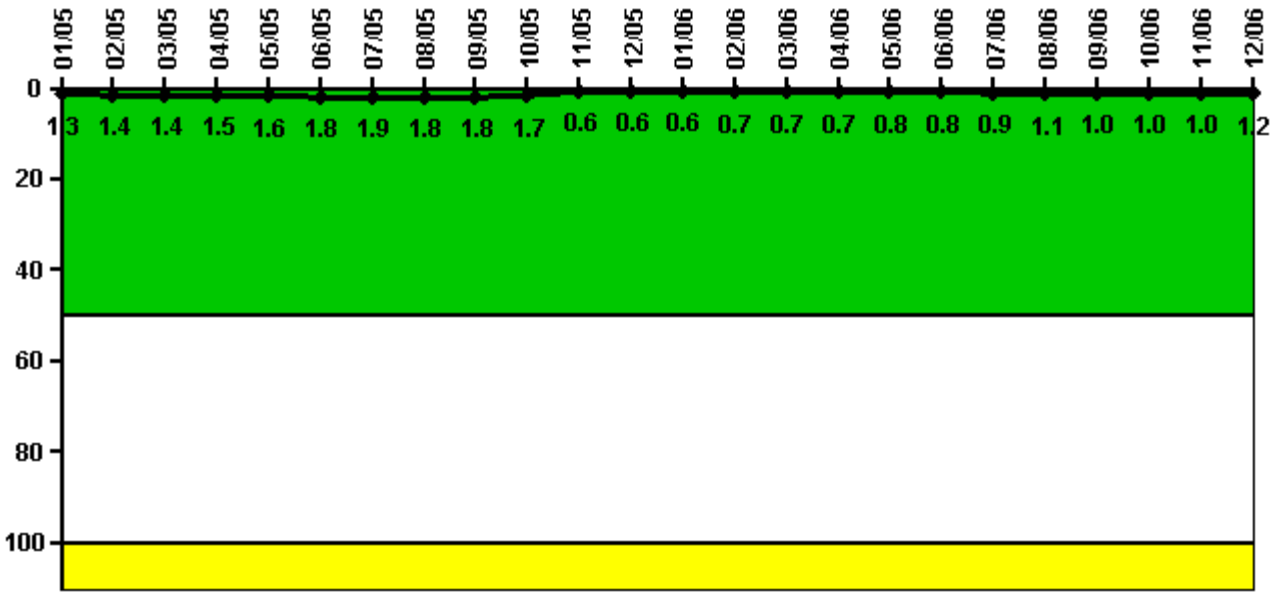
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						6.30E-07	6.30E-07	6.10E-07
URI (ΔCDF)						-5.50E-06	-5.50E-06	-5.50E-06
PLE						NO	NO	NO
Indicator value						-4.87E-06	-4.87E-06	-4.89E-06

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

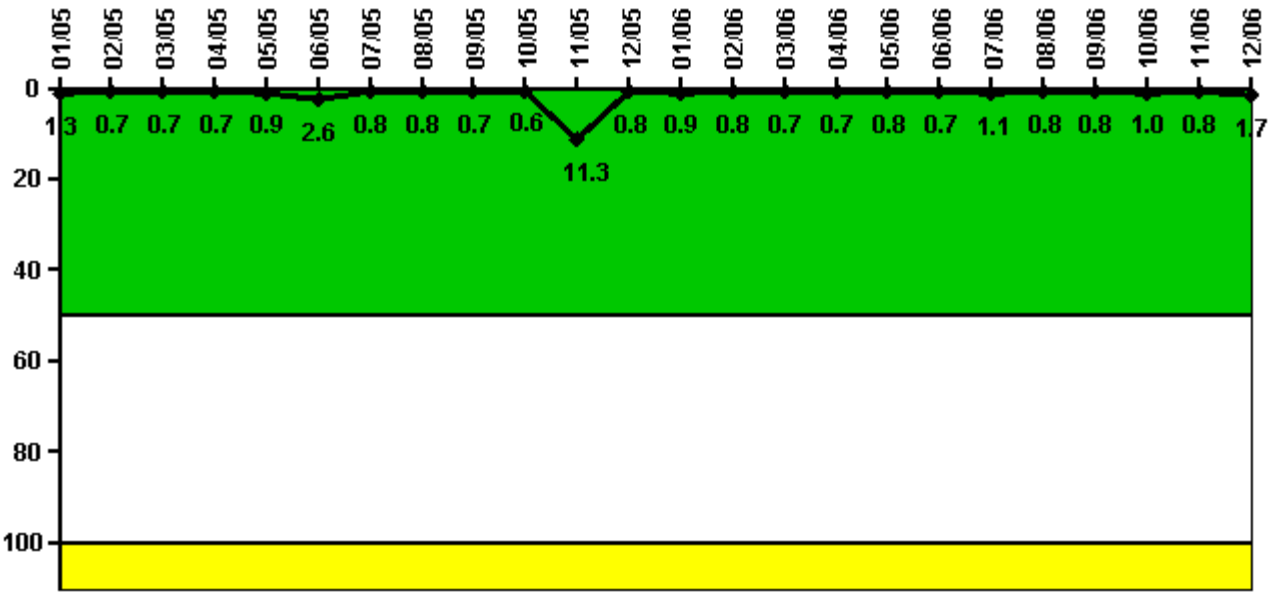
Reactor Coolant System Activity	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum activity	0.004700	0.005050	0.005050	0.005250	0.005550	0.006250	0.006480	0.006250	0.006330	0.006050	0.001940	0.001980
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	1.3	1.4	1.4	1.5	1.6	1.8	1.9	1.8	1.8	1.7	0.6	0.6

Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	0.002160	0.002330	0.002600	0.002570	0.002830	0.002860	0.003070	0.003680	0.003400	0.003590	0.003550	0.004240
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.6	0.7	0.7	0.7	0.8	0.8	0.9	1.1	1.0	1.0	1.0	1.2

Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

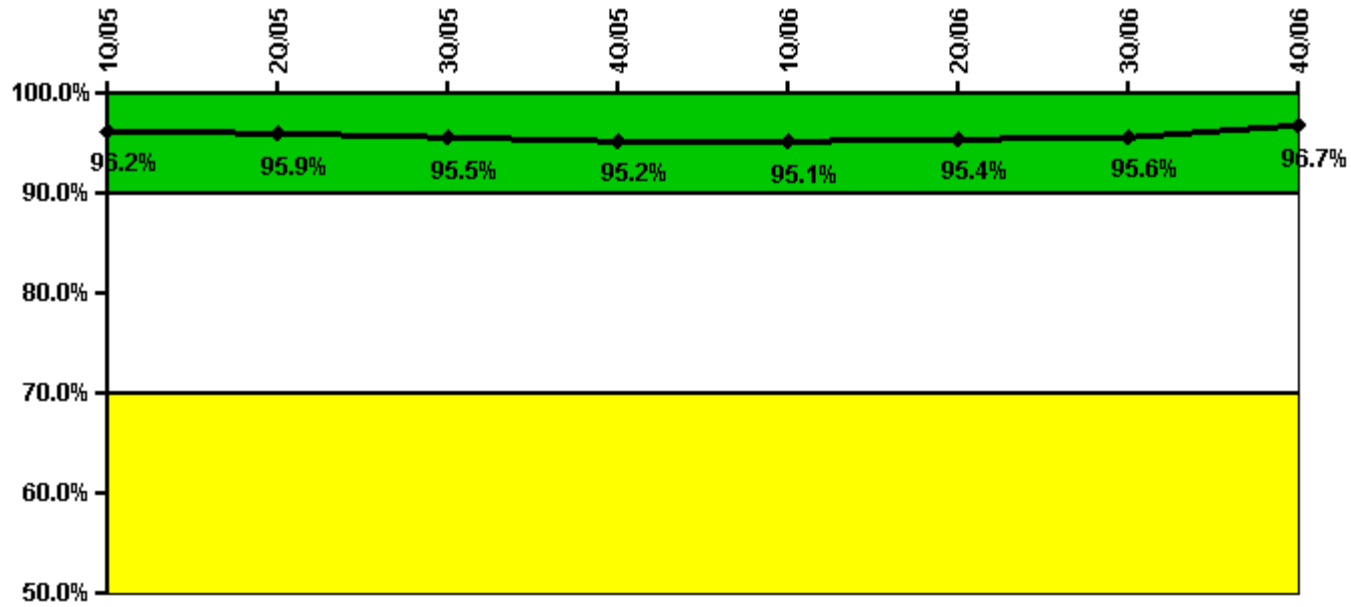
Reactor Coolant System Leakage	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum leakage	0.130	0.074	0.073	0.068	0.089	0.255	0.083	0.075	0.071	0.060	1.128	0.075
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	0.7	0.7	0.7	0.9	2.6	0.8	0.8	0.7	0.6	11.3	0.8

Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	0.085	0.078	0.073	0.068	0.079	0.065	0.106	0.083	0.078	0.096	0.083	0.167
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	0.8	0.7	0.7	0.8	0.7	1.1	0.8	0.8	1.0	0.8	1.7

Licensee Comments: none

### Drill/Exercise Performance



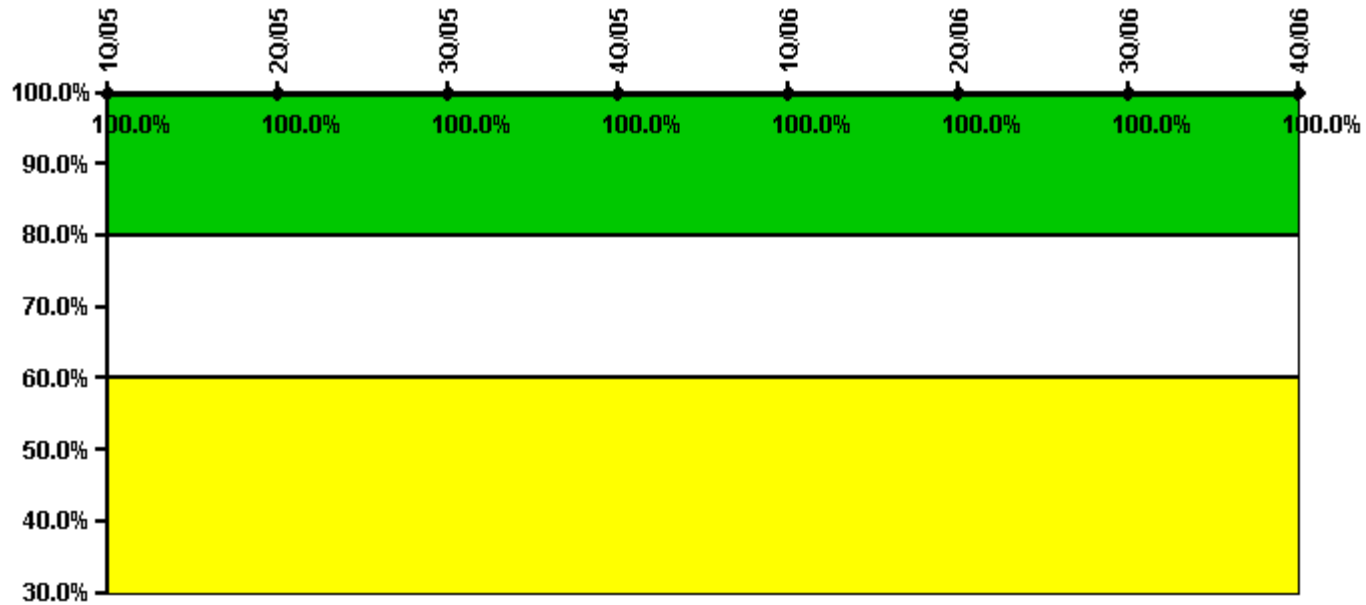
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful opportunities	23.0	47.0	48.0	11.0	26.0	59.0	50.0	211.0
Total opportunities	23.0	51.0	52.0	12.0	27.0	60.0	52.0	214.0
Indicator value	96.2%	95.9%	95.5%	95.2%	95.1%	95.4%	95.6%	96.7%

Licensee Comments: none

### ERO Drill Participation



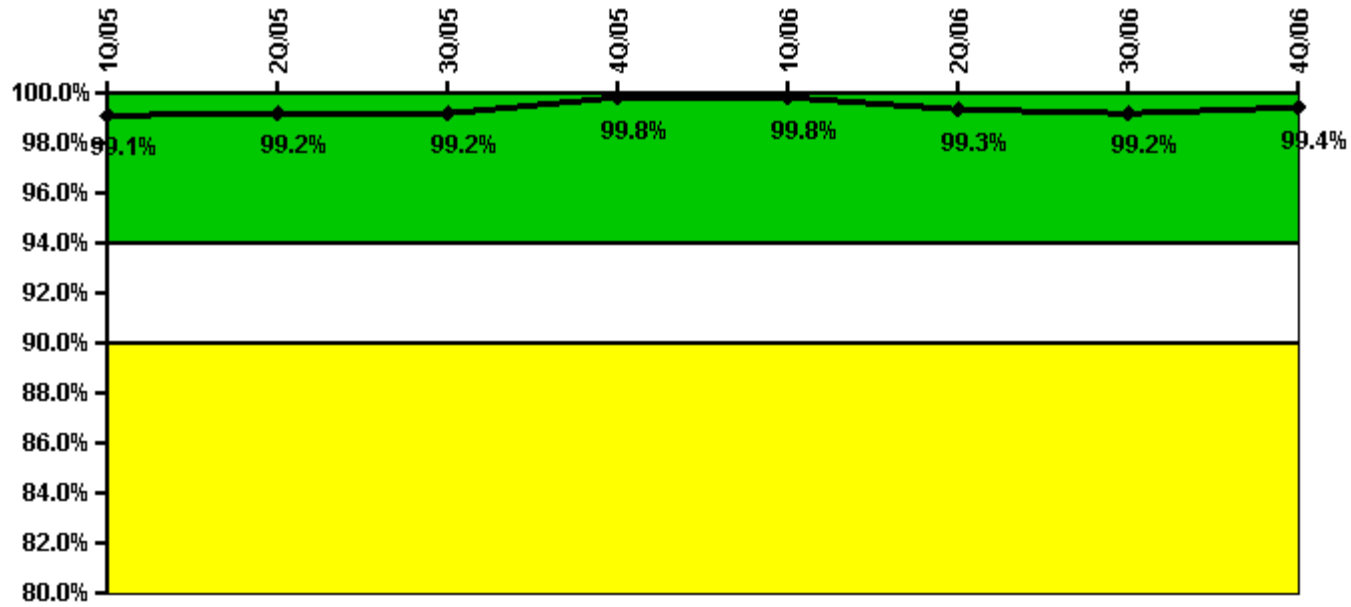
Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Participating Key personnel	55.0	54.0	60.0	58.0	56.0	56.0	55.0	59.0
Total Key personnel	55.0	54.0	60.0	58.0	56.0	56.0	55.0	59.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



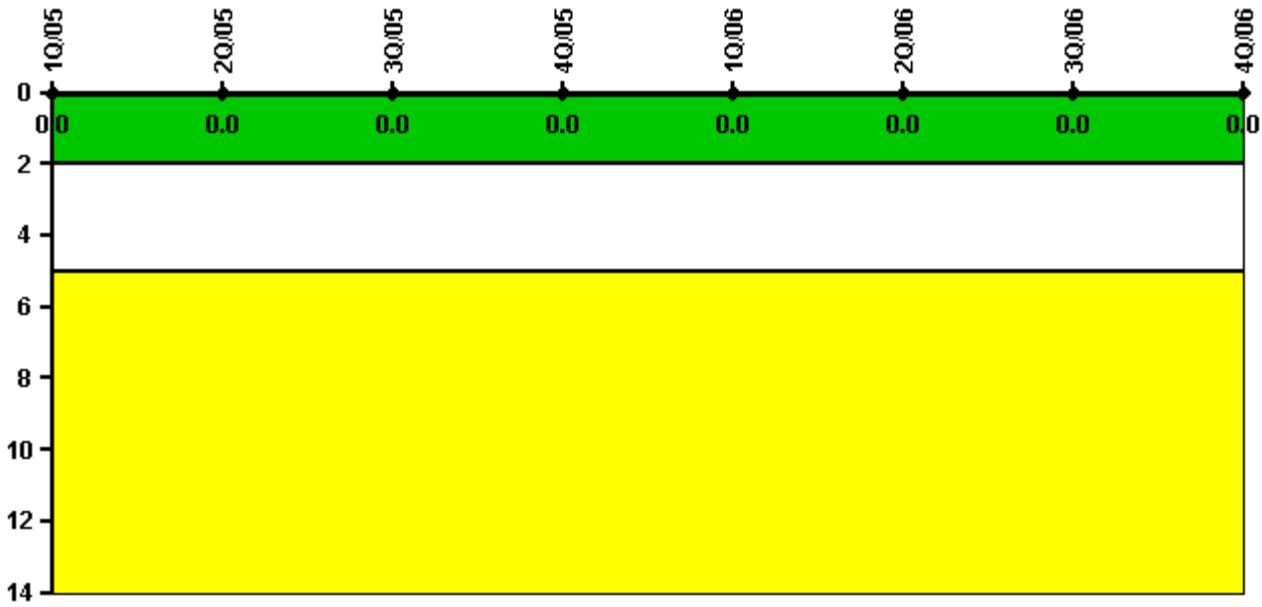
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful siren-tests	1226	1248	1245	1241	1247	1223	1242	1248
Total sirens-tests	1228	1248	1248	1248	1248	1248	1248	1248
Indicator value	99.1%	99.2%	99.2%	99.8%	99.8%	99.3%	99.2%	99.4%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



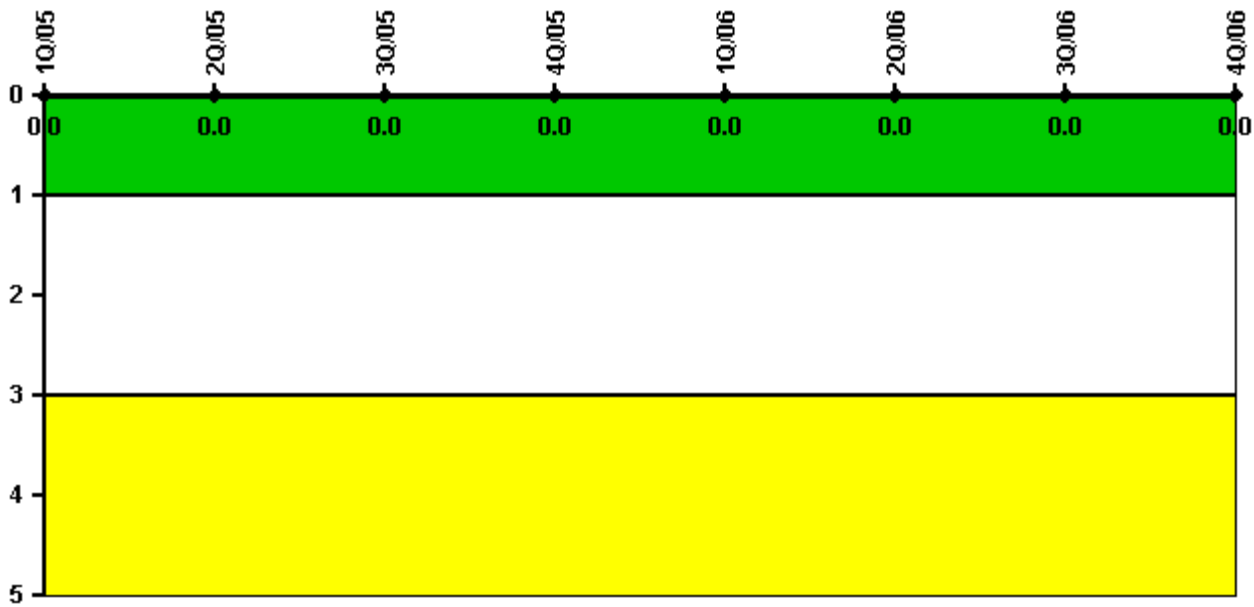
Thresholds: White > 2.0 Yellow > 5.0

**Notes**

Occupational Exposure Control Effectiveness	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
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
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Physical Protection](#) information not publicly available.