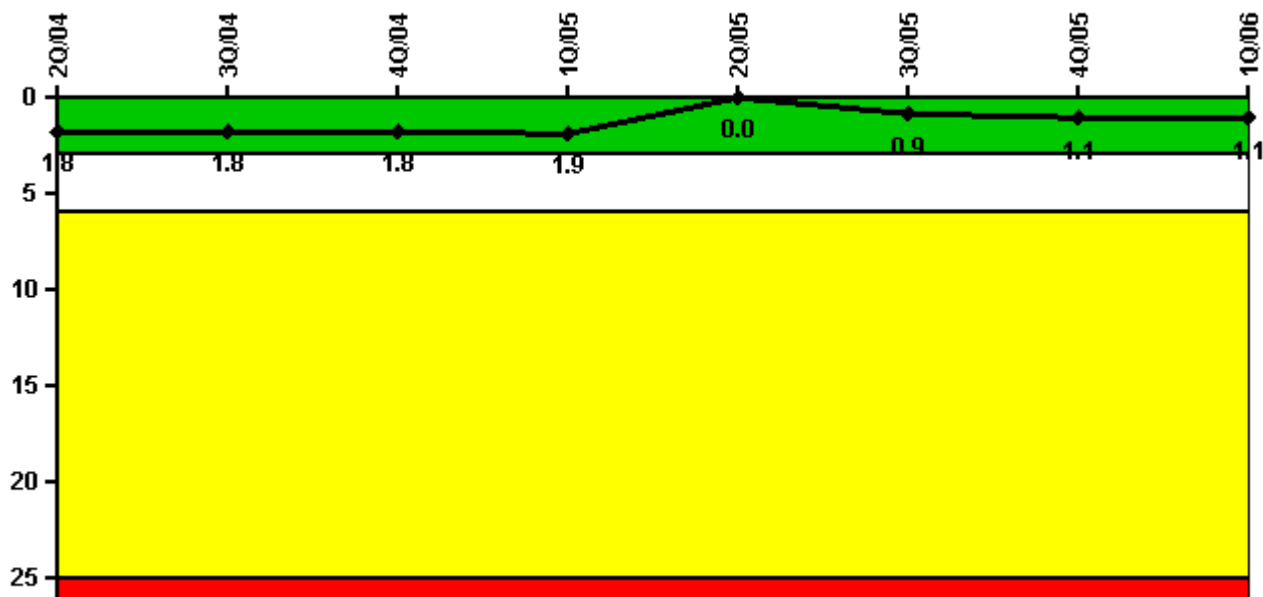


# Palo Verde 1

## 1Q/2006 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



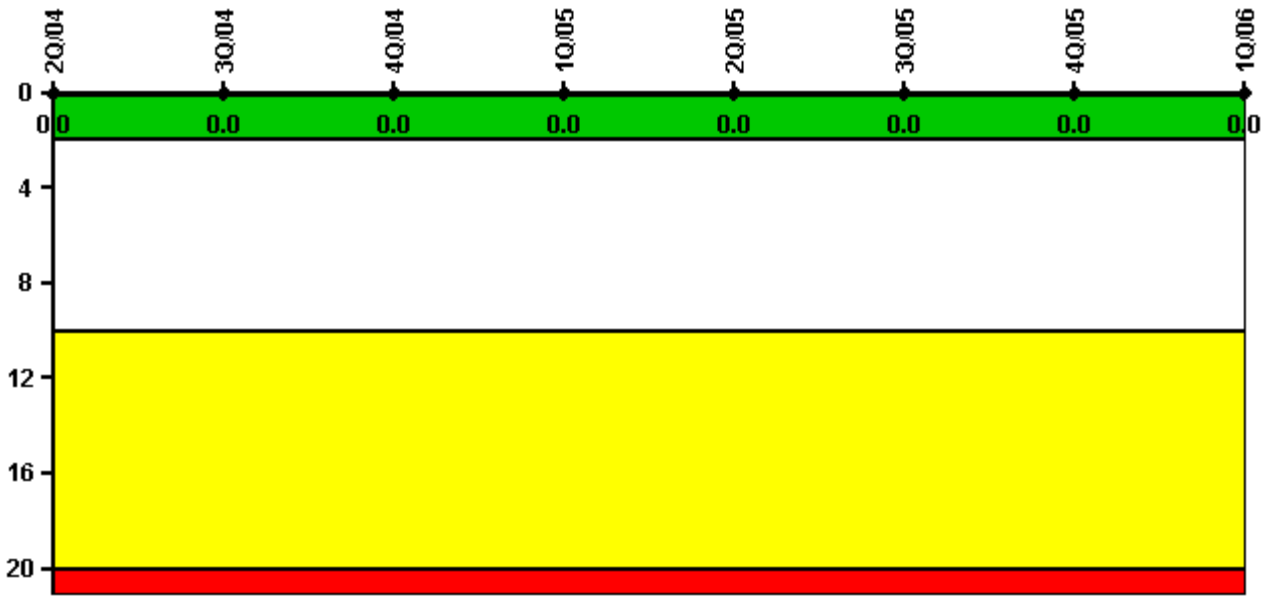
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned scrams	2.0	0	0	0	0	1.0	0	0
Critical hours	1216.0	2208.0	2208.0	1860.4	2184.0	1824.6	406.8	1752.6
Indicator value	1.8	1.8	1.8	1.9	0	0.9	1.1	1.1

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



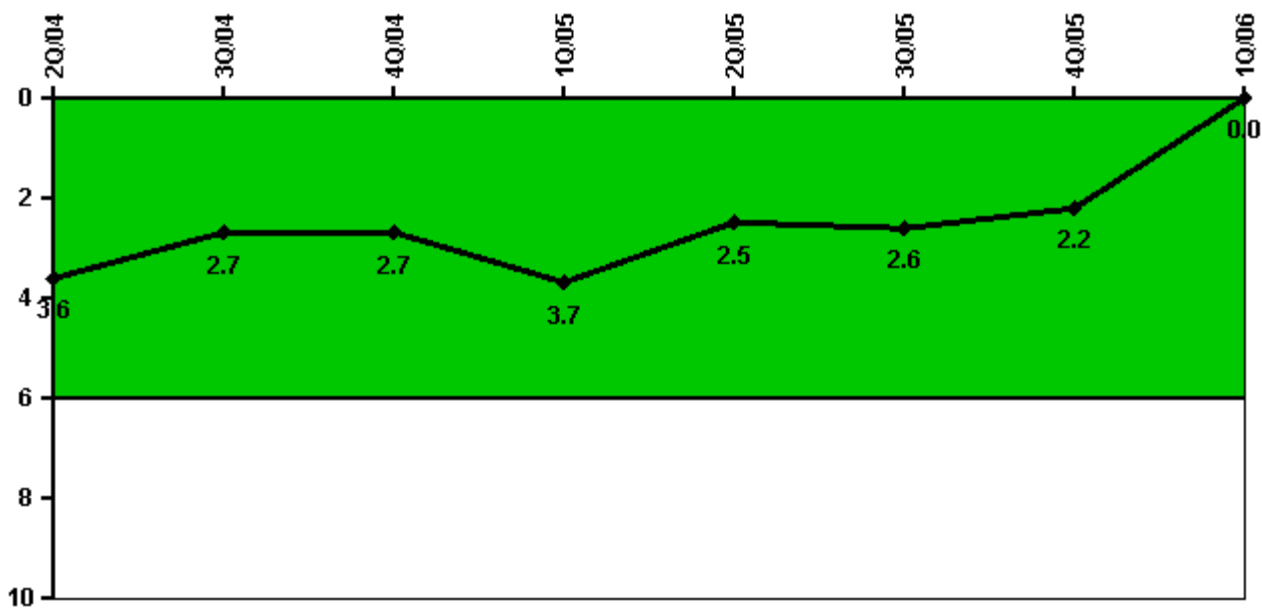
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/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



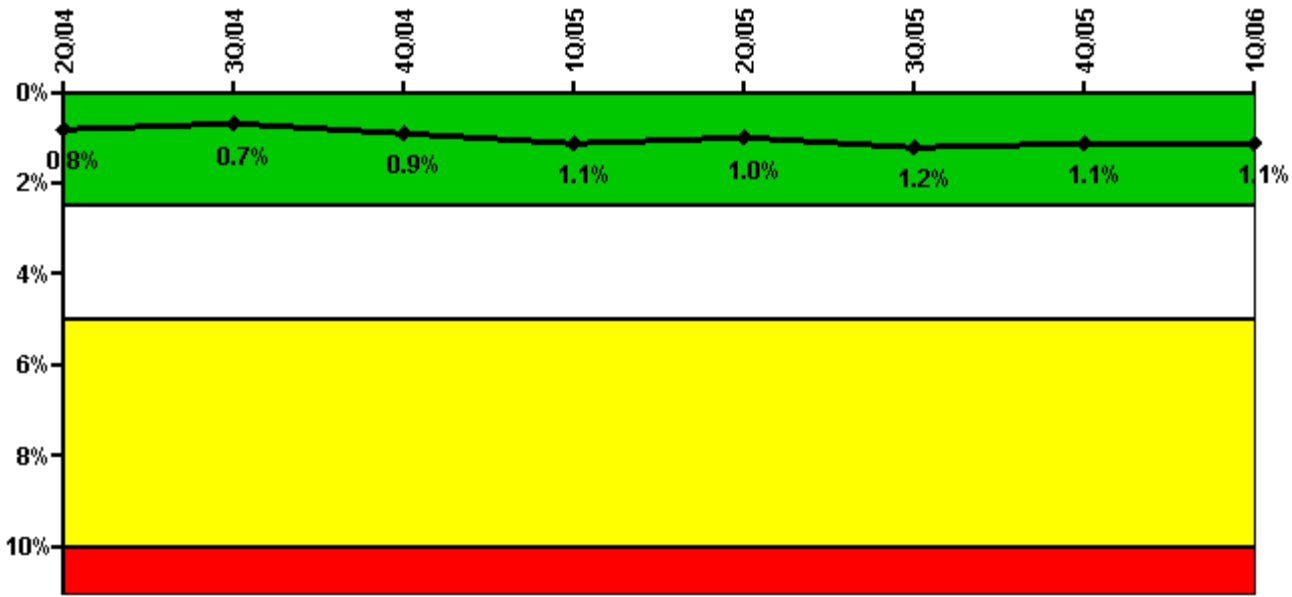
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	1.0	0	1.0	2.0	0	0	0	0
Critical hours	1216.0	2208.0	2208.0	1860.4	2184.0	1824.6	406.8	1752.6
Indicator value	3.6	2.7	2.7	3.7	2.5	2.6	2.2	0

Licensee Comments: none

### Safety System Unavailability, Emergency AC Power



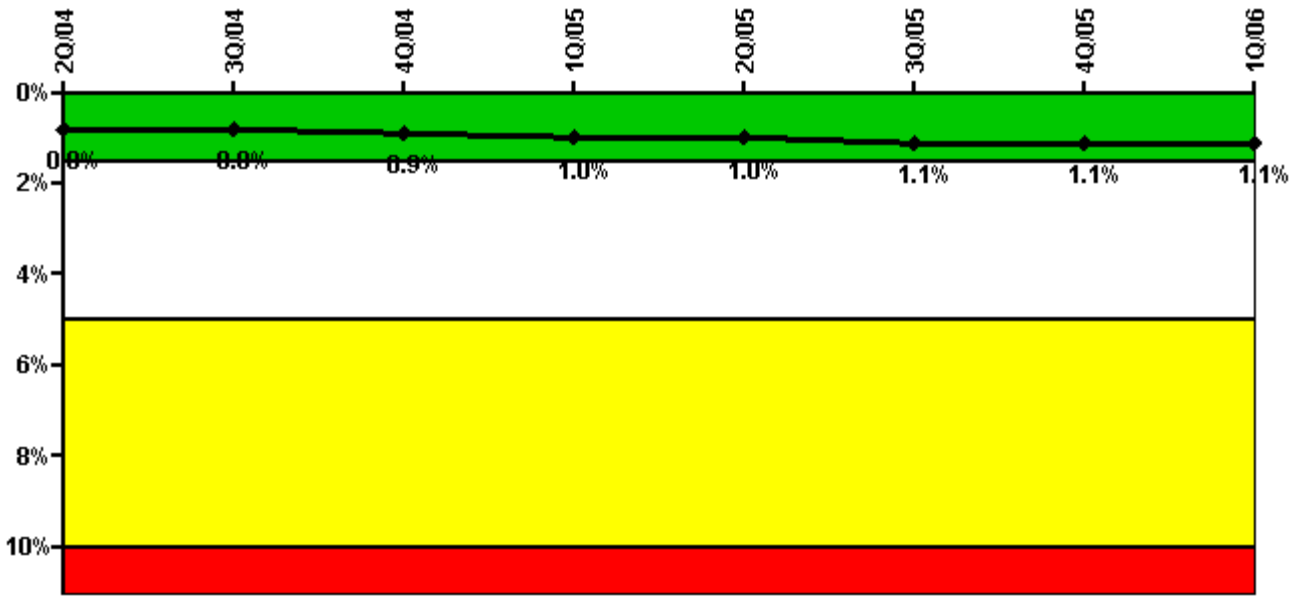
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, Emergency AC Power	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
<b>Train 1</b>								
Planned unavailable hours	0.04	0.08	20.23	29.61	3.74	23.64	0	14.54
Unplanned unavailable hours	0	0	0	56.23	11.63	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	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00	2160.00
<b>Train 2</b>								
Planned unavailable hours	0.04	24.49	0.54	68.17	2.81	29.74	0.02	14.19
Unplanned unavailable hours	0	0	73.71	0	24.20	90.28	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	2184.00	2208.00	2208.00	2160.00	2184.00	2208.00	2208.00	2160.00
<b>Indicator value</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.9%</b>	<b>1.1%</b>	<b>1.0%</b>	<b>1.2%</b>	<b>1.1%</b>	<b>1.1%</b>

Licensee Comments: none

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



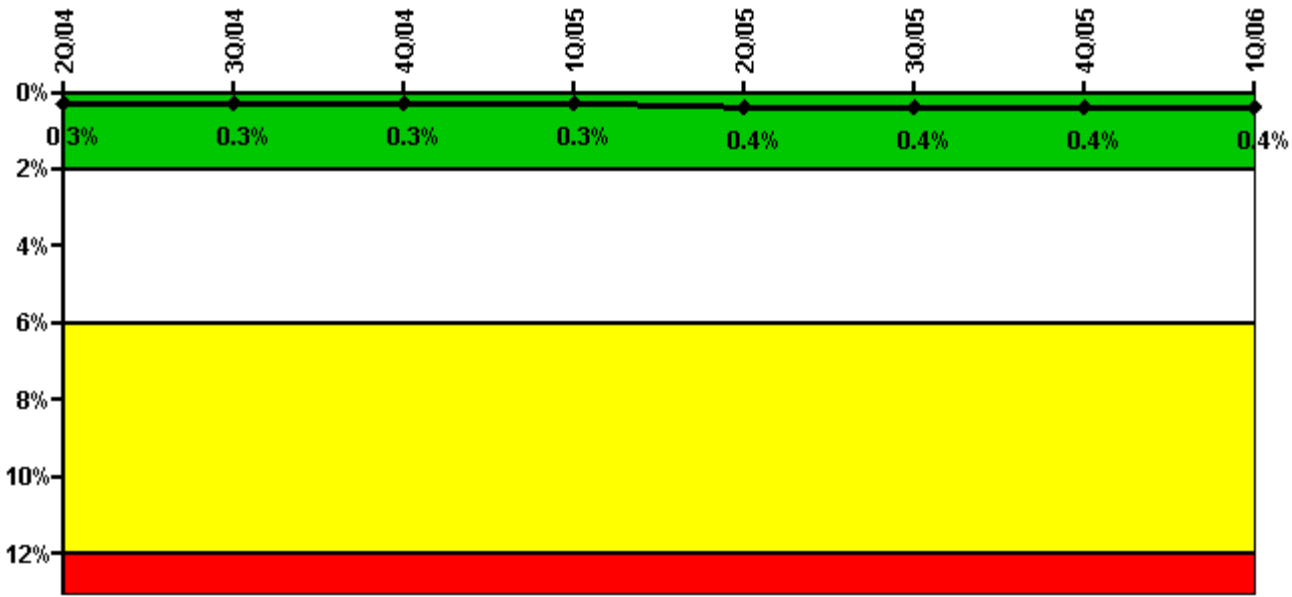
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

#### Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
<b>Train 1</b>								
Planned unavailable hours	5.85	27.43	28.32	13.54	16.43	17.46	0.78	12.95
Unplanned unavailable hours	0	0	0	15.65	12.52	34.37	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	1216.00	2208.00	2208.00	1860.35	2184.00	1824.55	406.83	1752.58
<b>Train 2</b>								
Planned unavailable hours	28.94	33.37	2.27	57.35	3.20	23.76	9.90	9.22
Unplanned unavailable hours	2.42	0	0	0.02	0	2.62	0	3.63
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1216.00	2208.00	2208.00	1860.35	2184.00	1824.55	406.83	1752.58
<b>Indicator value</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>1.1%</b>	<b>1.1%</b>	<b>1.1%</b>

Licensee Comments: none

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



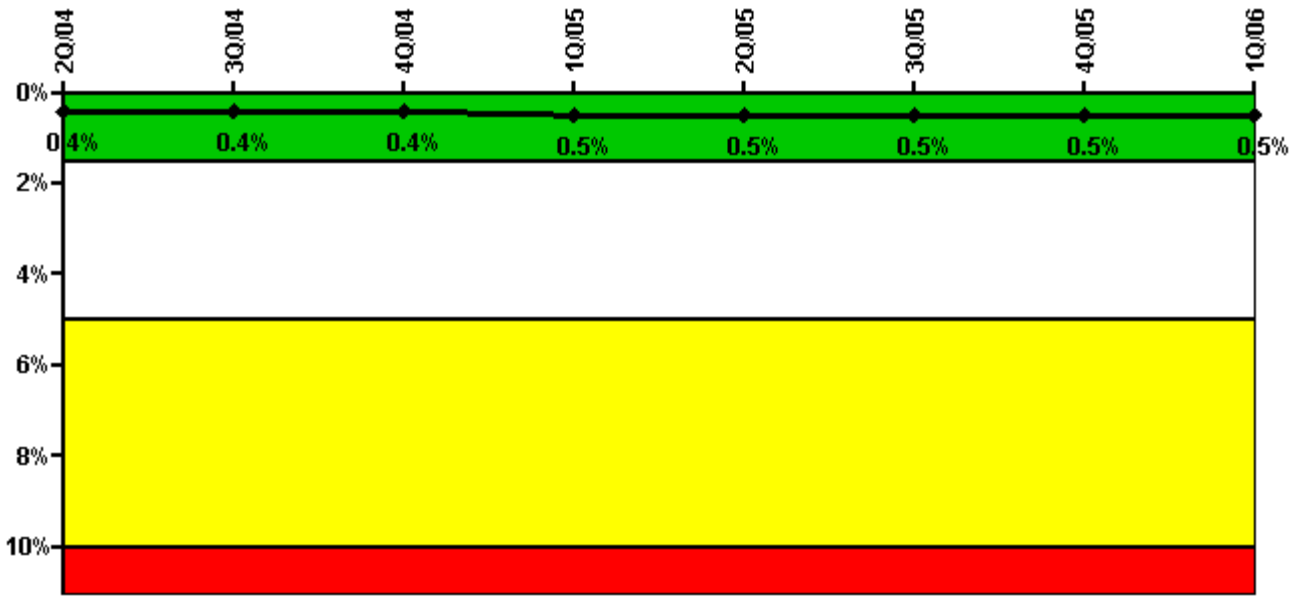
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

#### Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
<b>Train 1</b>								
Planned unavailable hours	0.67	4.88	30.40	12.42	15.16	11.08	1.60	13.20
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	1216.00	2208.00	2208.00	1860.35	2184.00	1824.55	406.83	1752.58
<b>Train 2</b>								
Planned unavailable hours	0.20	9.83	2.50	35.68	4.03	15.50	0	6.48
Unplanned unavailable hours	2.42	0	0	0.02	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	1216.00	2208.00	2208.00	1860.35	2184.00	1824.55	406.83	1752.58
<b>Train 3</b>								
Planned unavailable hours	0	0.47	0.75	0.98	0.67	0.83	0	0
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	1216.00	2208.00	2208.00	1860.35	2184.00	1824.55	406.83	1752.58
<b>Indicator value</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



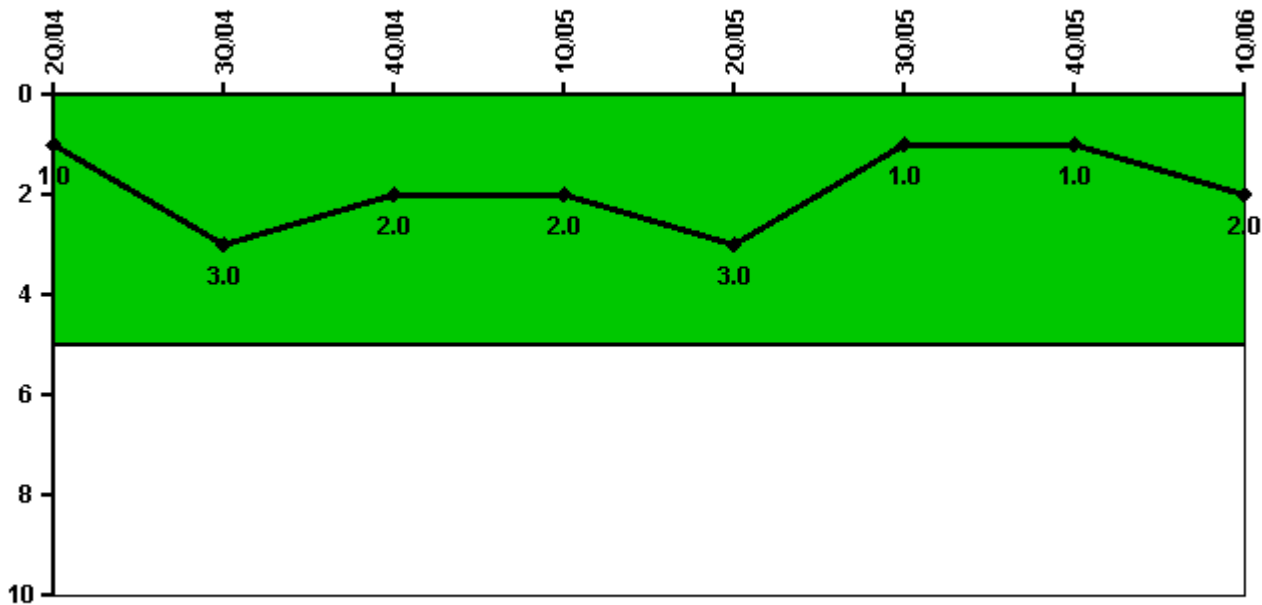
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

**Notes**

Safety System Unavailability, Residual Heat Removal System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
<b>Train 1</b>								
Planned unavailable hours	13.30	13.31	11.93	68.07	16.38	26.18	18.85	29.85
Unplanned unavailable hours	0	0	0	0	12.62	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	1387.70	2208.00	2208.00	1950.80	2184.00	1957.03	498.15	2136.87
<b>Train 2</b>								
Planned unavailable hours	5.17	26.47	6.75	41.82	5.00	36.97	1.67	36.72
Unplanned unavailable hours	2.42	0	14.67	0.02	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	1387.70	2208.00	2208.00	1950.80	2184.00	1957.03	498.15	2136.87
<b>Train 3</b>								
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	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	397.71	0	0	170.53	0	41.98	211.42	0
<b>Train 4</b>								
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	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	434.17	0	0	30.17	0	186.28	527.37	23.13
<b>Indicator value</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

### Notes

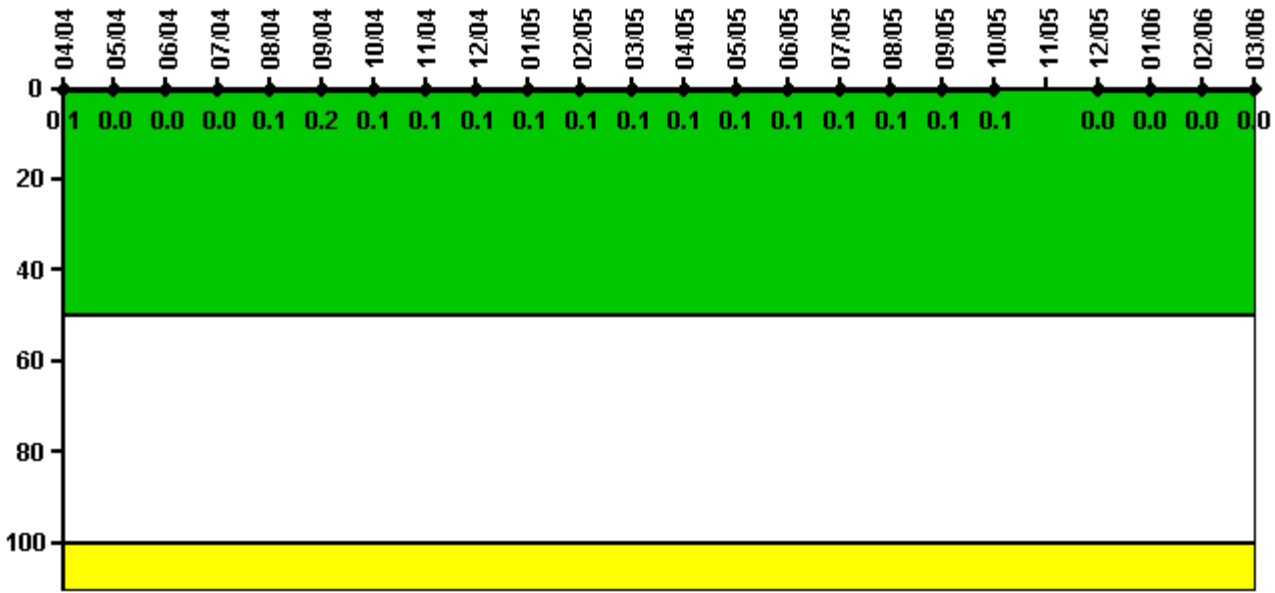
Safety System Functional Failures (PWR)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Safety System Functional Failures	0	2	0	0	1	0	0	1
Indicator value	1	3	2	2	3	1	1	2

Licensee Comments:

1Q/06: SSFF reported via LER 528/2005-007 on 2/10/2006.



### Reactor Coolant System Activity



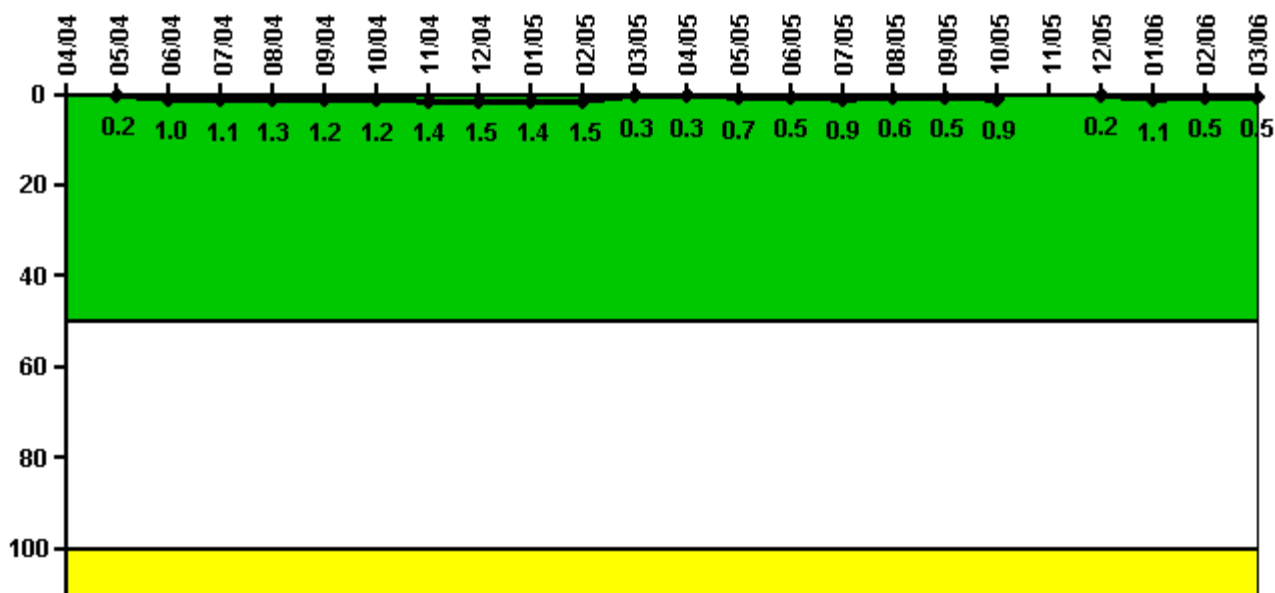
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum activity	0.001120	0.000431	0.000458	0.000482	0.000546	0.001620	0.000589	0.000613	0.000643	0.000704	0.000690	0.000724
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	0.1	0	0	0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum activity	0.000761	0.000785	0.000813	0.001430	0.000816	0.000908	0.000883	N/A	0.000118	0.000112	0.000096	0.000091
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A	0	0	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



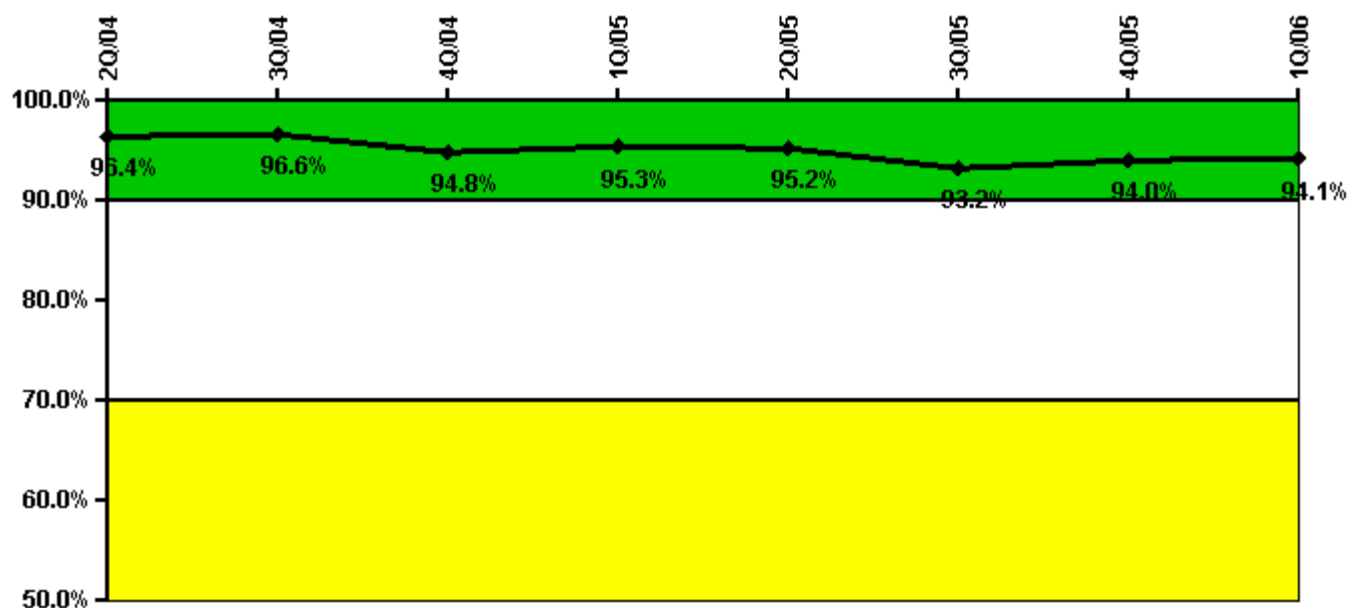
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum leakage	N/A	0.022	0.098	0.108	0.133	0.116	0.119	0.142	0.151	0.136	0.145	0.034
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	N/A	0.2	1.0	1.1	1.3	1.2	1.2	1.4	1.5	1.4	1.5	0.3
Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	0.031	0.066	0.045	0.085	0.060	0.050	0.085	N/A	0.019	0.113	0.047	0.050
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	0.7	0.5	0.9	0.6	0.5	0.9	N/A	0.2	1.1	0.5	0.5

Licensee Comments: none

### Drill/Exercise Performance



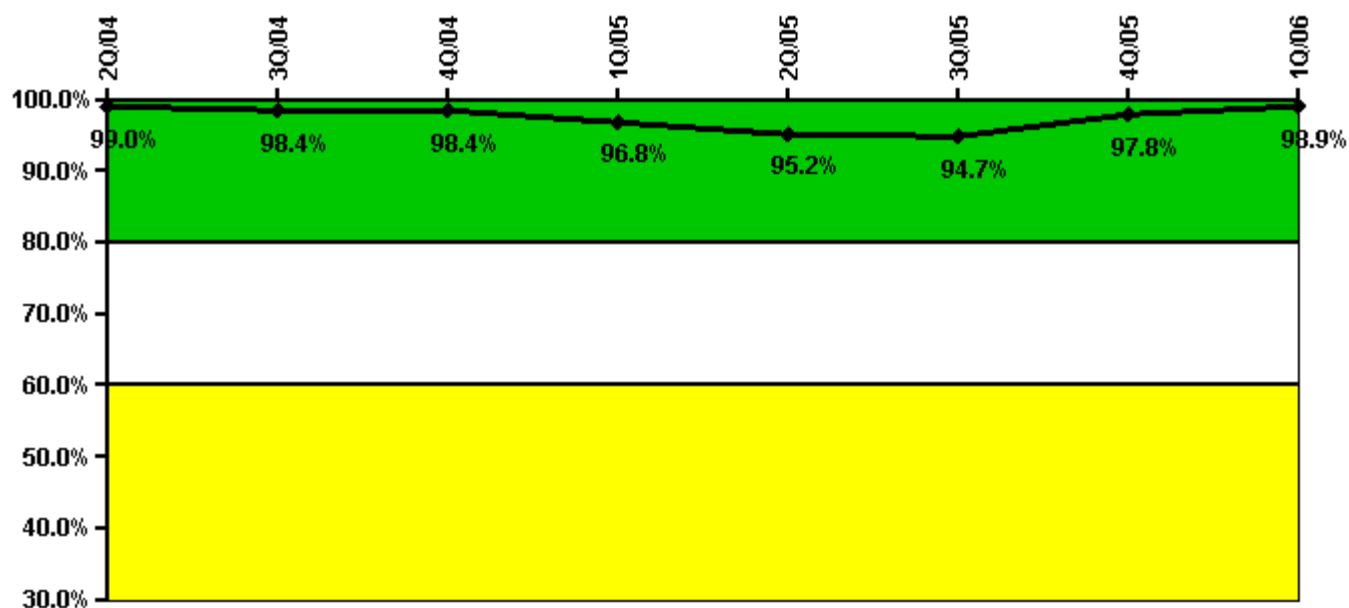
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	14.0	111.0	97.0	21.0	0	74.0	103.0	9.0
Total opportunities	17.0	112.0	111.0	22.0	0	79.0	104.0	11.0
Indicator value	96.4%	96.6%	94.8%	95.3%	95.2%	93.2%	94.0%	94.1%

Licensee Comments: none

### ERO Drill Participation



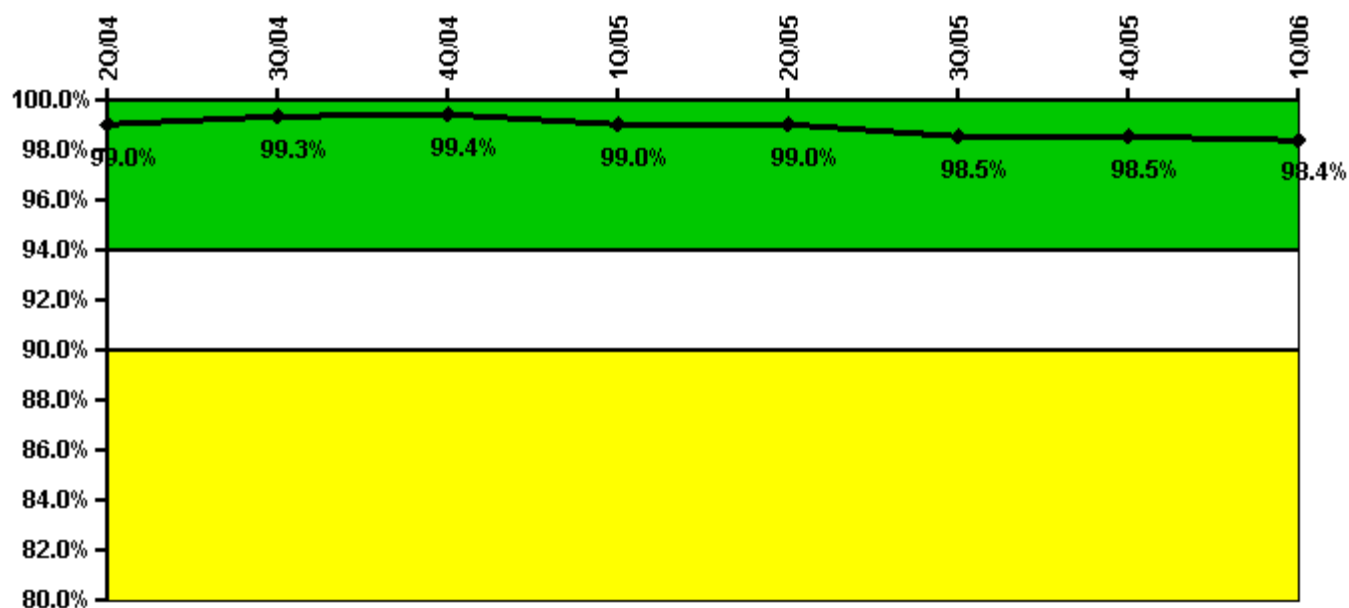
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Participating Key personnel	193.0	188.0	187.0	184.0	179.0	180.0	175.0	174.0
Total Key personnel	195.0	191.0	190.0	190.0	188.0	190.0	179.0	176.0
Indicator value	99.0%	98.4%	98.4%	96.8%	95.2%	94.7%	97.8%	98.9%

Licensee Comments: none

### Alert & Notification System



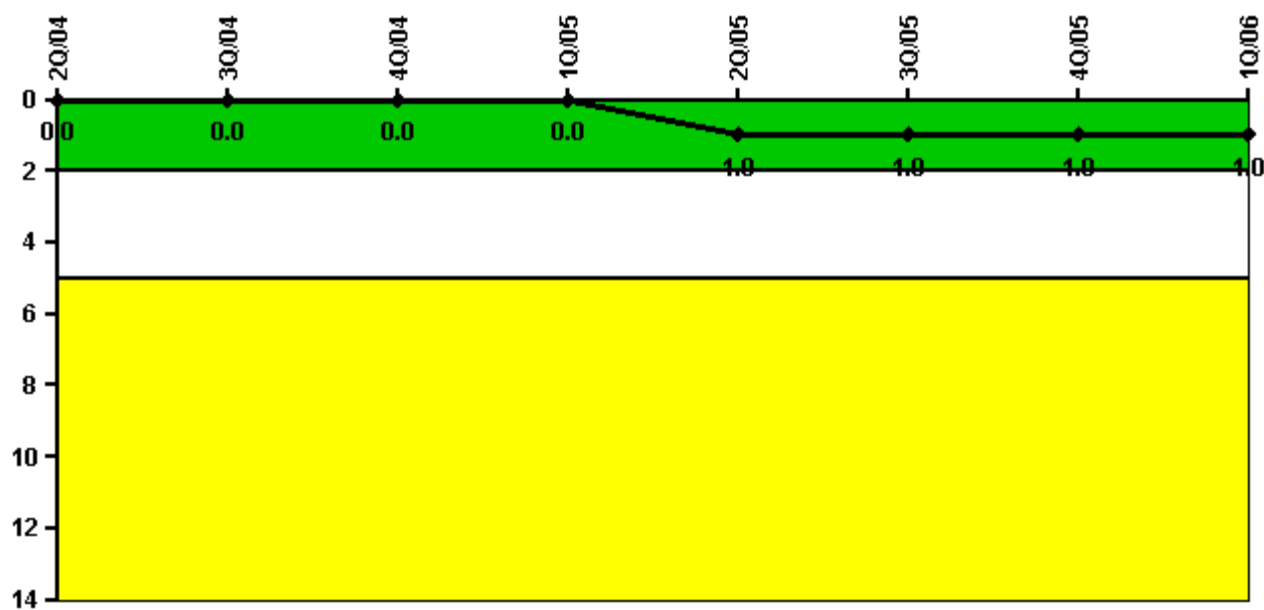
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful siren-tests	798	792	872	740	797	753	791	778
Total sirens-tests	798	798	882	755	798	776	798	798
Indicator value	99.0%	99.3%	99.4%	99.0%	99.0%	98.5%	98.5%	98.4%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



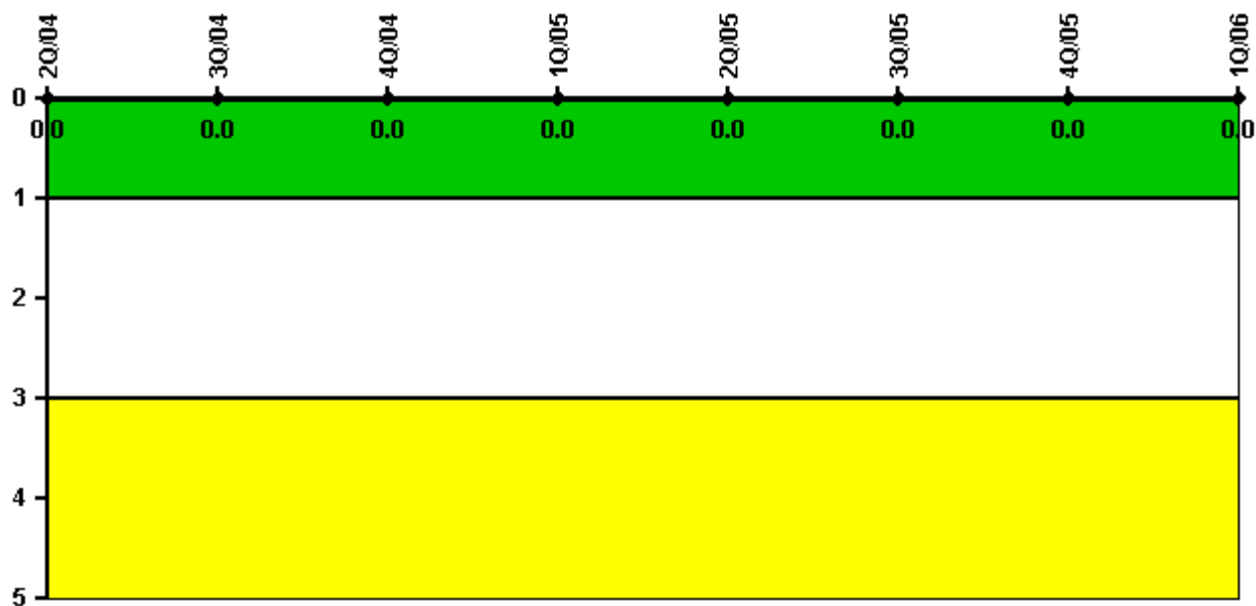
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
High radiation area occurrences	0	0	0	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/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.

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

Last Modified: May 5, 2006