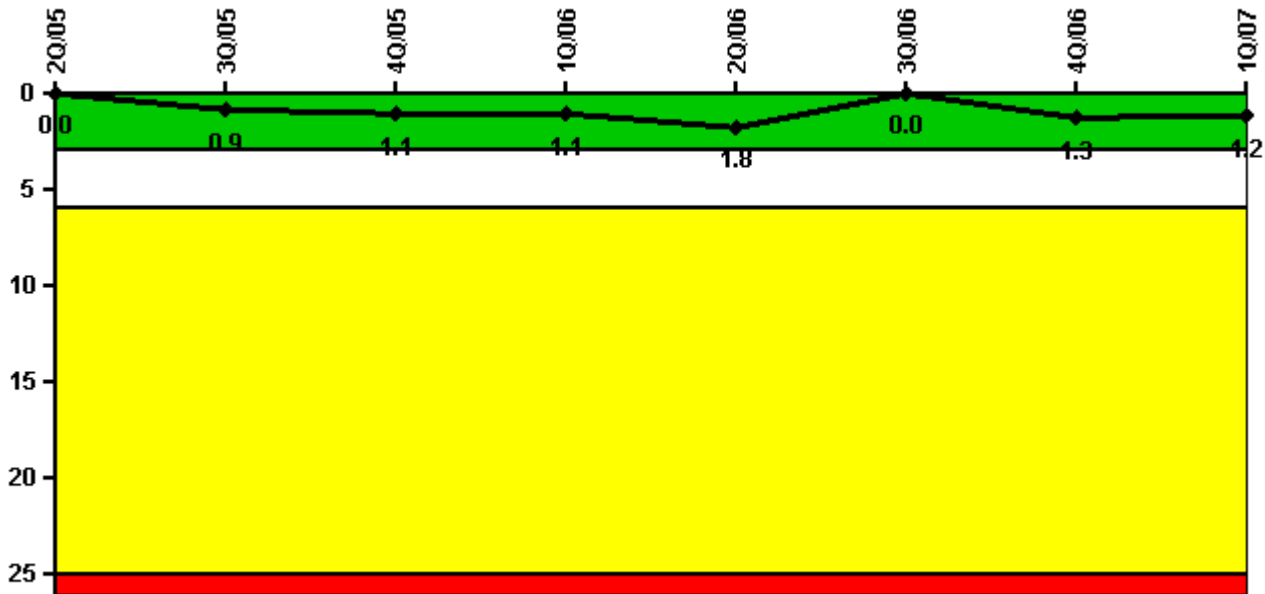


# Palo Verde 1

## 1Q/2007 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



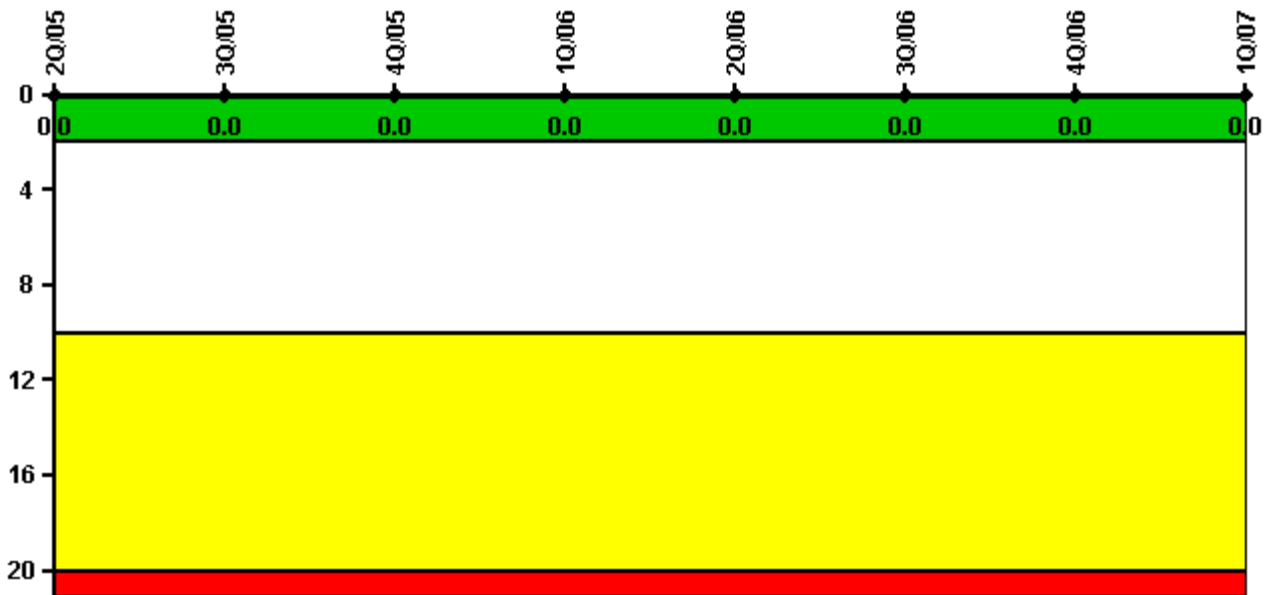
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned scrams	0	1.0	0	0	0	0	1.0	0
Critical hours	2184.0	1824.6	406.8	1752.6	0	1777.3	1823.9	2160.0
Indicator value	0	0.9	1.1	1.1	1.8	0	1.3	1.2

Licensee Comments: none

## Scrams with Loss of Normal Heat Removal



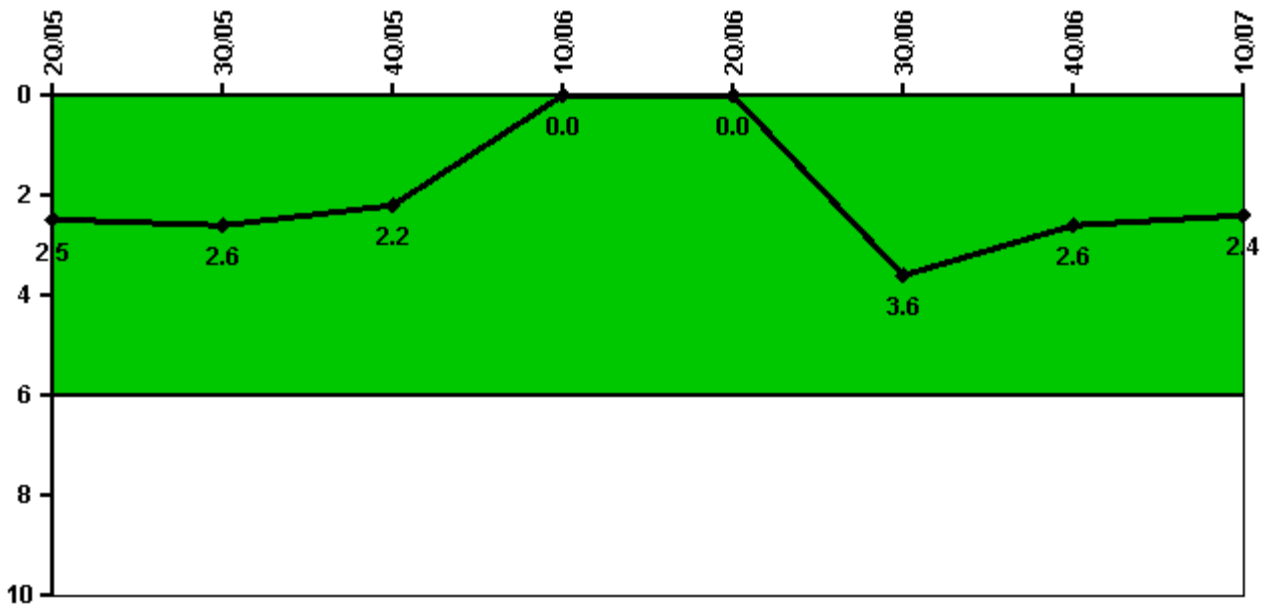
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

### Notes

Scrams with Loss of Normal Heat Removal	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
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



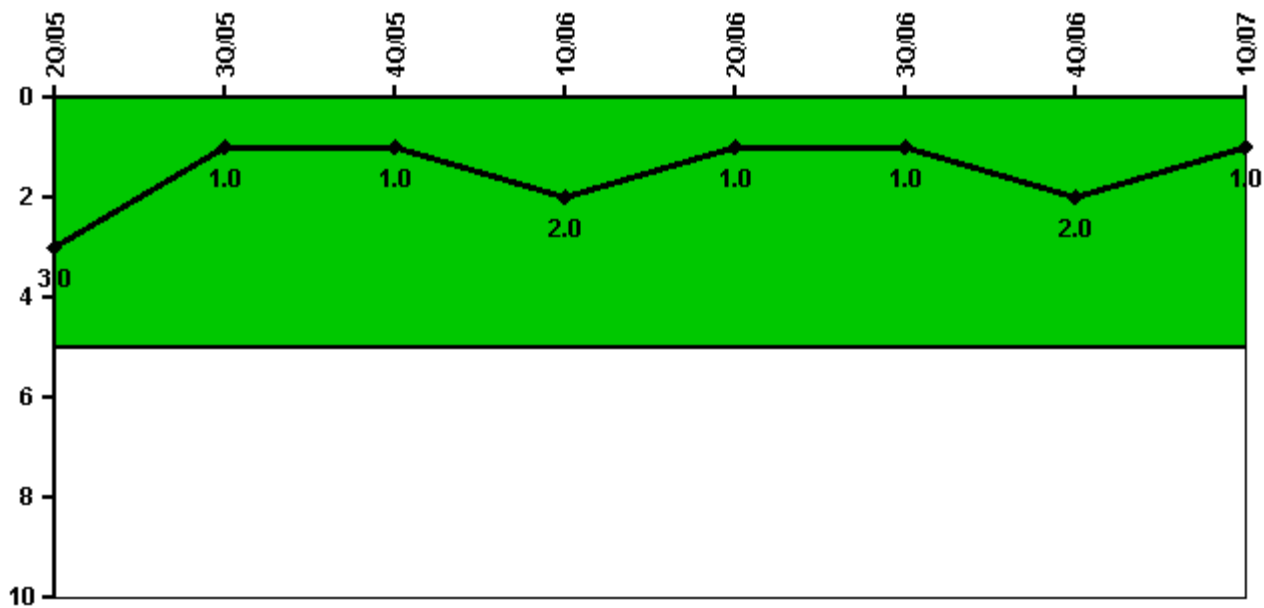
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	0	0	0	0	0	2.0	0	0
Critical hours	2184.0	1824.6	406.8	1752.6	0	1777.3	1823.9	2160.0
Indicator value	2.5	2.6	2.2	0	0	3.6	2.6	2.4

Licensee Comments: none

## Safety System Functional Failures (PWR)



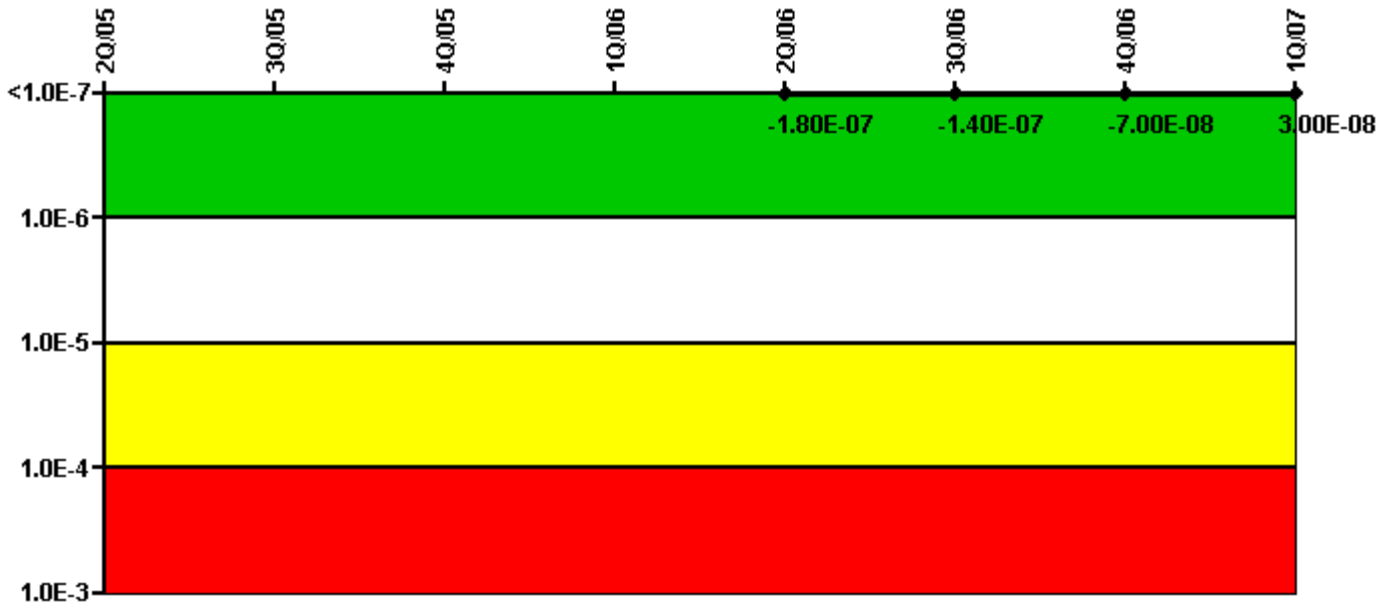
Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Safety System Functional Failures	1	0	0	1	0	0	1	0
Indicator value	3	1	1	2	1	1	2	1

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



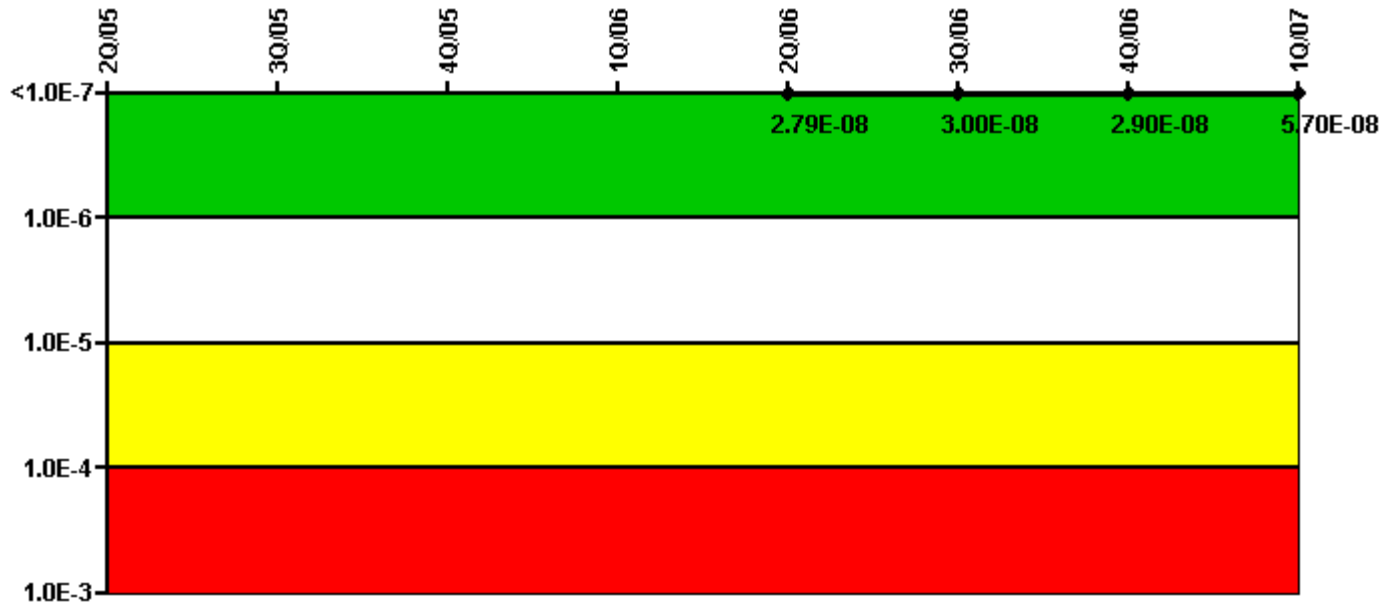
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					2.60E-07	3.00E-07	3.80E-07	4.80E-07
URI (ΔCDF)					-4.40E-07	-4.40E-07	-4.50E-07	-4.50E-07
PLE					NO	NO	NO	NO
Indicator value					-1.80E-07	-1.40E-07	-7.00E-08	3.00E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



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

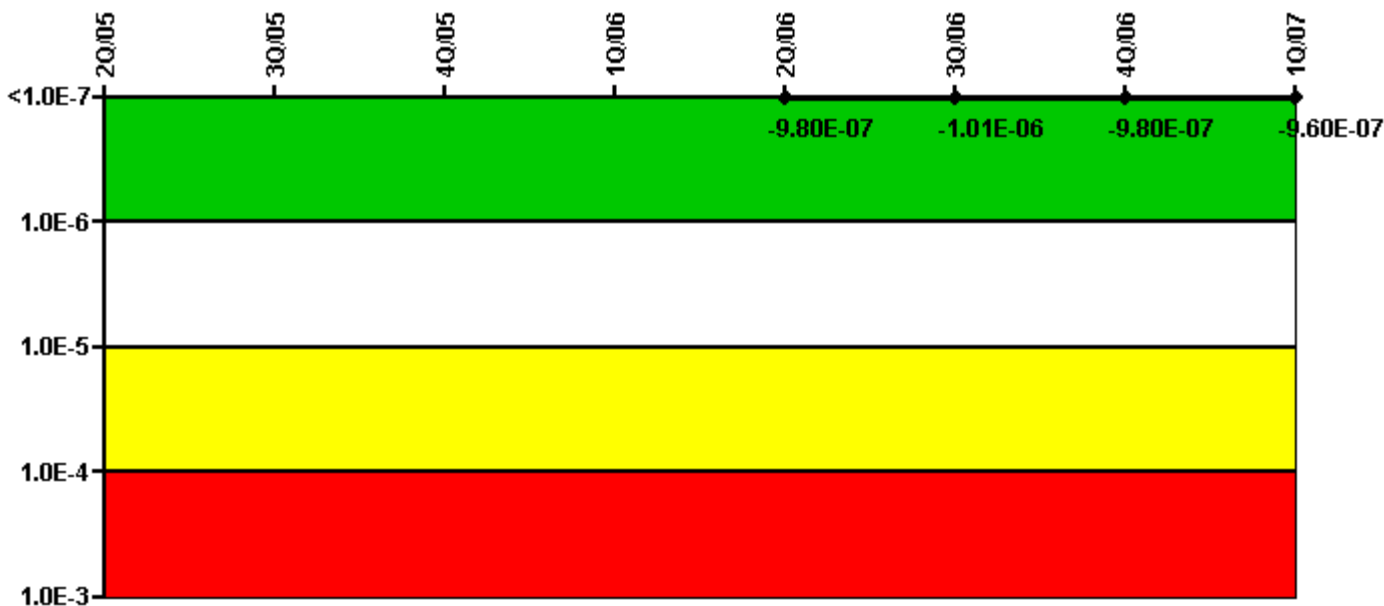
## Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI ( $\Delta$ CDF)					9.90E-09	1.20E-08	1.10E-08	3.90E-08
URI ( $\Delta$ CDF)					1.80E-08	1.80E-08	1.80E-08	1.80E-08
PLE					NO	NO	NO	NO
Indicator value					2.79E-08	3.00E-08	2.90E-08	5.70E-08

Licensee Comments:

4Q/06: Data revision: Excessive leakage of a single containment recirculation isolation valve that occurred in October 2006 was evaluated in January 2007 and determined to be a maintenance rule functional failure. This impacted MSPI high pressure safety injection and residual heat removal indicators, however indicators' color did not change (green).

# Mitigating Systems Performance Index, Heat Removal System



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

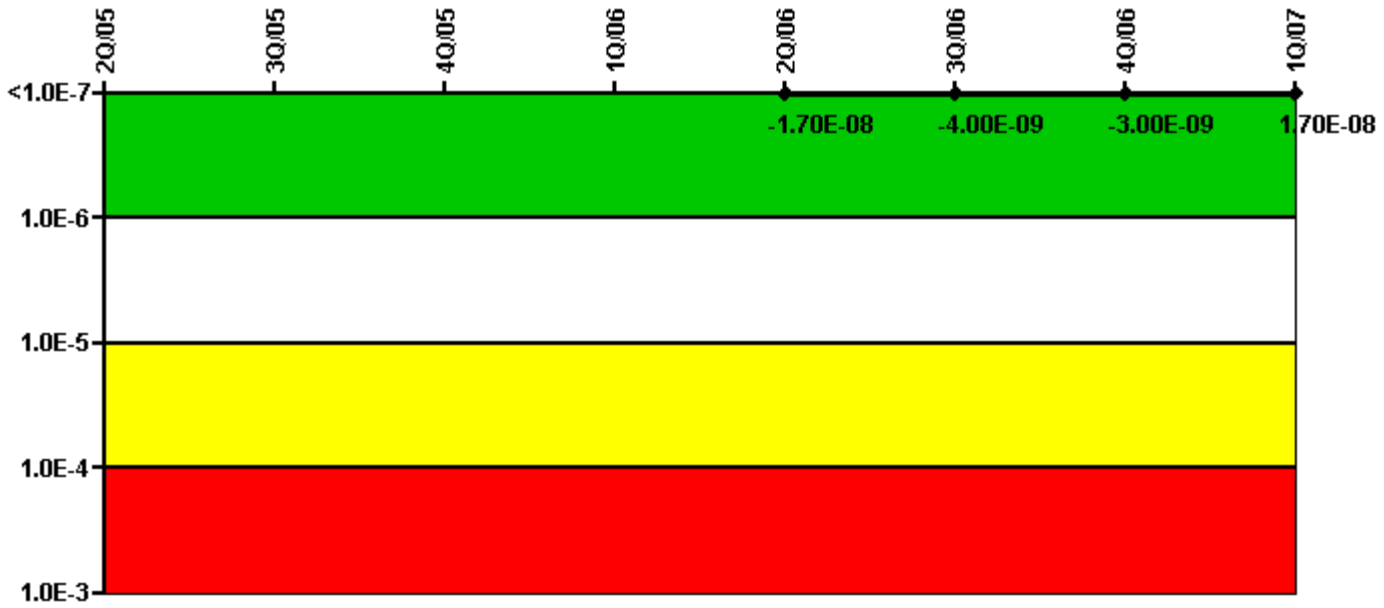
## Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI ( $\Delta$ CDF)					$-3.60E-07$	$-3.90E-07$	$-3.60E-07$	$-3.40E-07$
URI ( $\Delta$ CDF)					$-6.20E-07$	$-6.20E-07$	$-6.20E-07$	$-6.20E-07$
PLE					NO	NO	NO	NO
Indicator value					$-9.80E-07$	$-1.01E-06$	$-9.80E-07$	$-9.60E-07$

Licensee Comments:

4Q/06: Data revision: Excessive leakage of a single containment recirculation isolation valve that occurred in October 2006 was evaluated in January 2007 and determined to be a maintenance rule functional failure. This impacted MSPI high pressure safety injection and residual heat removal indicators, however indicators' color did not change (green).

# Mitigating Systems Performance Index, Residual Heat Removal System



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

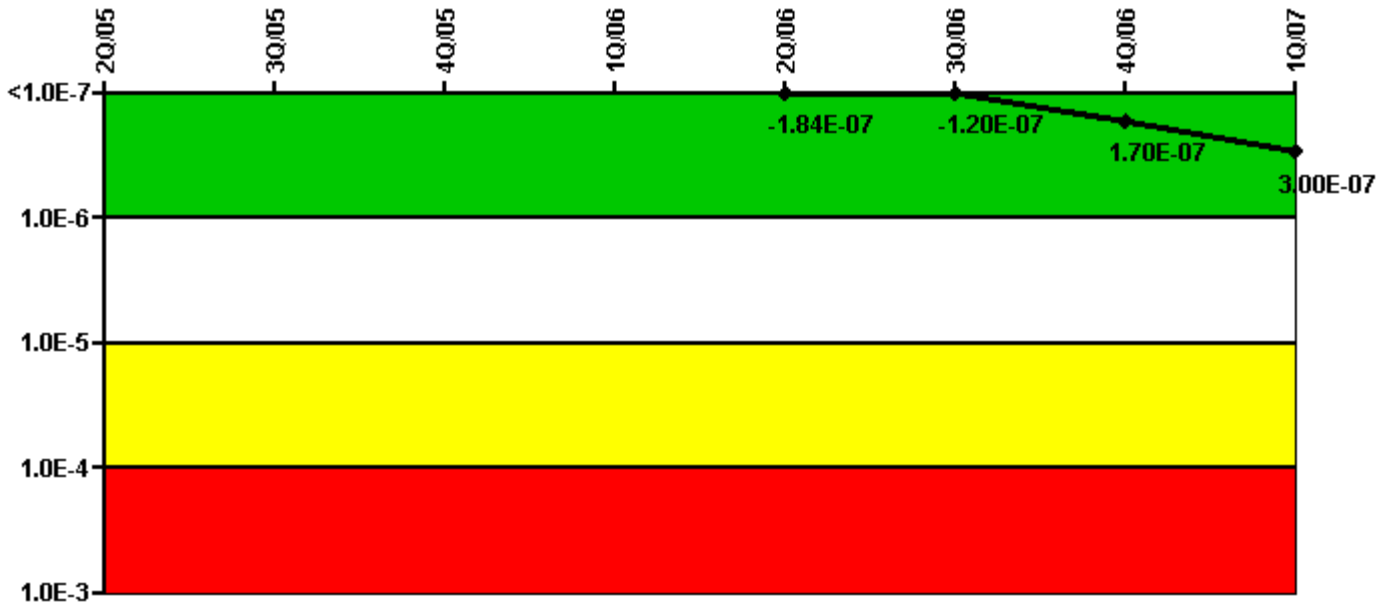
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					2.10E-08	3.40E-08	3.50E-08	5.50E-08
URI (ΔCDF)					-3.80E-08	-3.80E-08	-3.80E-08	-3.80E-08
PLE					NO	NO	NO	NO
Indicator value					-1.70E-08	-4.00E-09	-3.00E-09	1.70E-08

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



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

## Notes

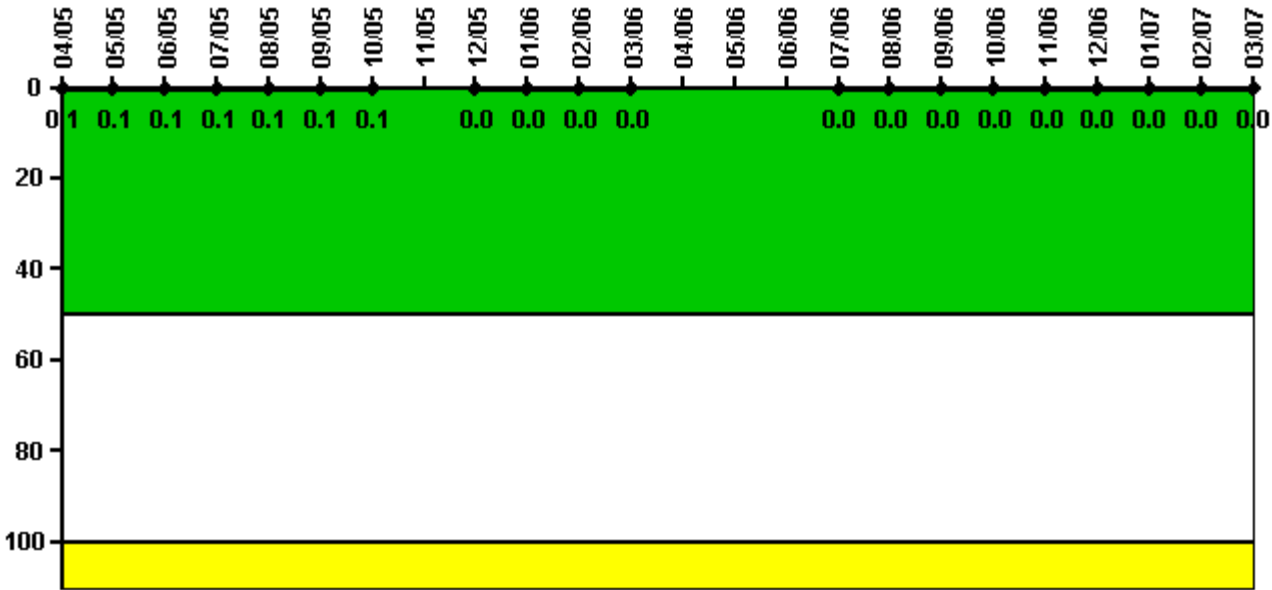
Mitigating Systems Performance Index, Cooling Water Systems	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					8.60E-08	1.50E-07	4.40E-07	5.70E-07
URI (ΔCDF)					-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE					NO	NO	NO	NO
Indicator value					-1.84E-07	-1.20E-07	1.70E-07	3.00E-07

Licensee Comments:

1Q/07: Changed PRA Parameter(s).

4Q/06: Changed PRA Parameter(s).

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

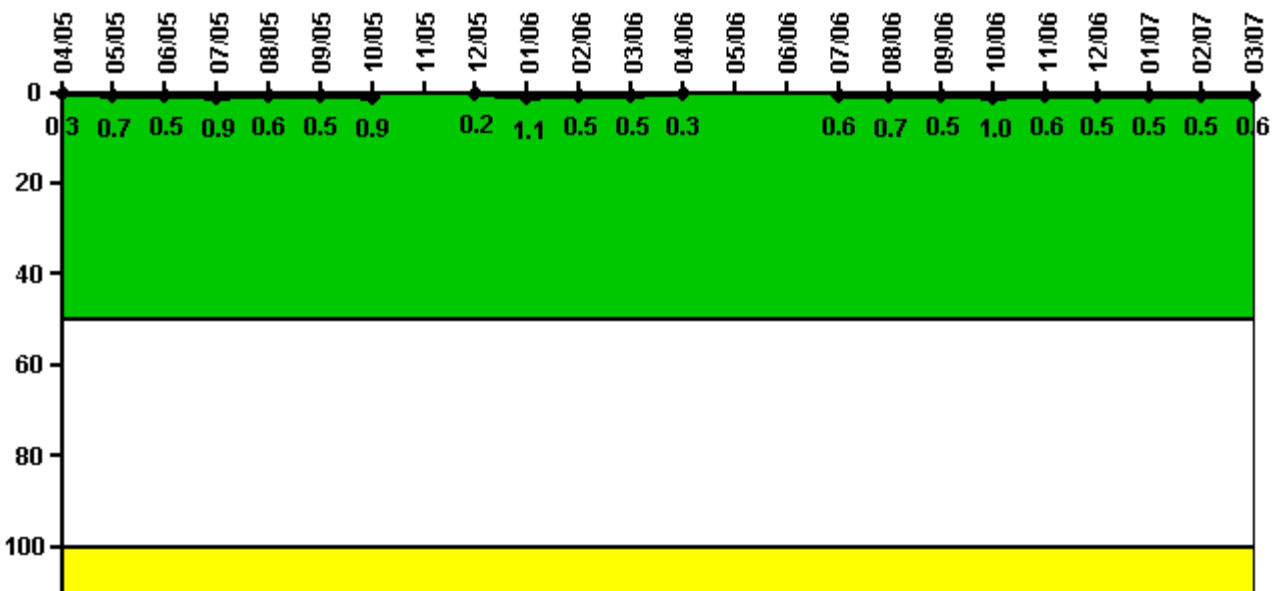
Reactor Coolant System Activity	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum activity	0.000761	0.000785	0.000813	0.001430	0.000816	0.000908	0.000883	N/A	0.000118	0.000112	0.000096	0.000091
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A	0	0	0	0

Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	N/A	N/A	N/A	0.000320	0.000341	0.000333	0.000314	0.000396	0.000402	0.000444	0.000441	0.000477
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	N/A	N/A	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

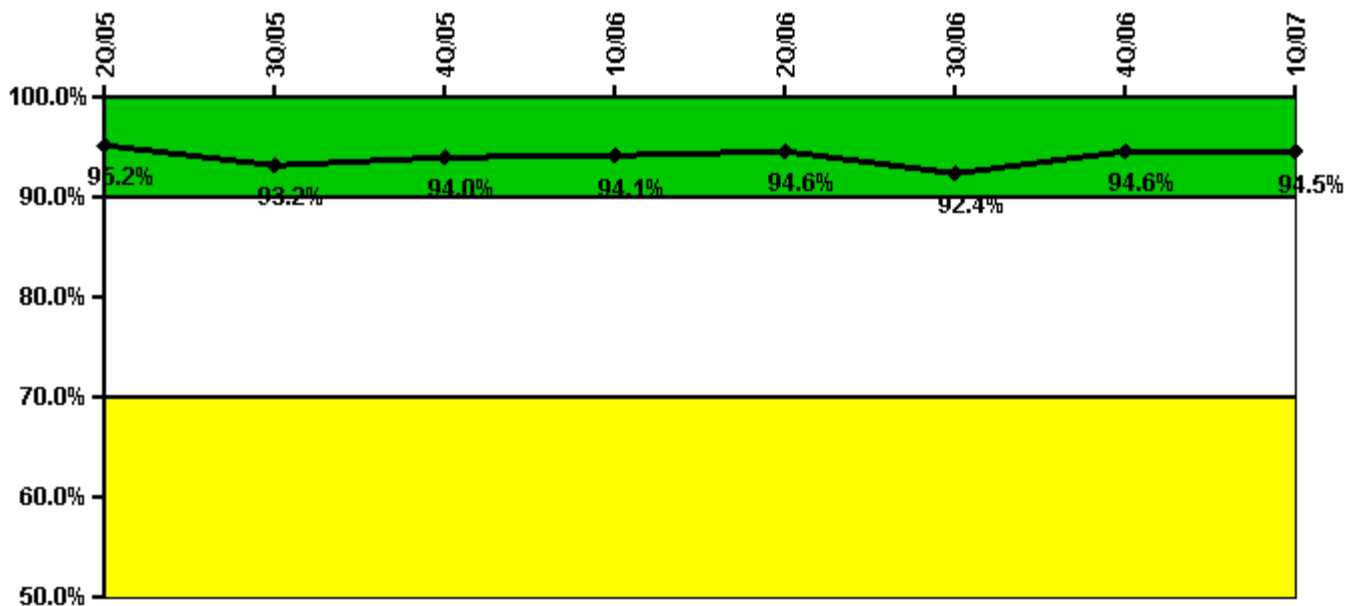
Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	0.031	0.066	0.045	0.085	0.060	0.050	0.085	N/A	0.019	0.113	0.047	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.7	0.5	0.9	0.6	0.5	0.9	N/A	0.2	1.1	0.5	0.5

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.027	N/A	N/A	0.056	0.066	0.050	0.103	0.056	0.054	0.053	0.045	0.061
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	N/A	N/A	0.6	0.7	0.5	1.0	0.6	0.5	0.5	0.5	0.6

Licensee Comments: none

## Drill/Exercise Performance



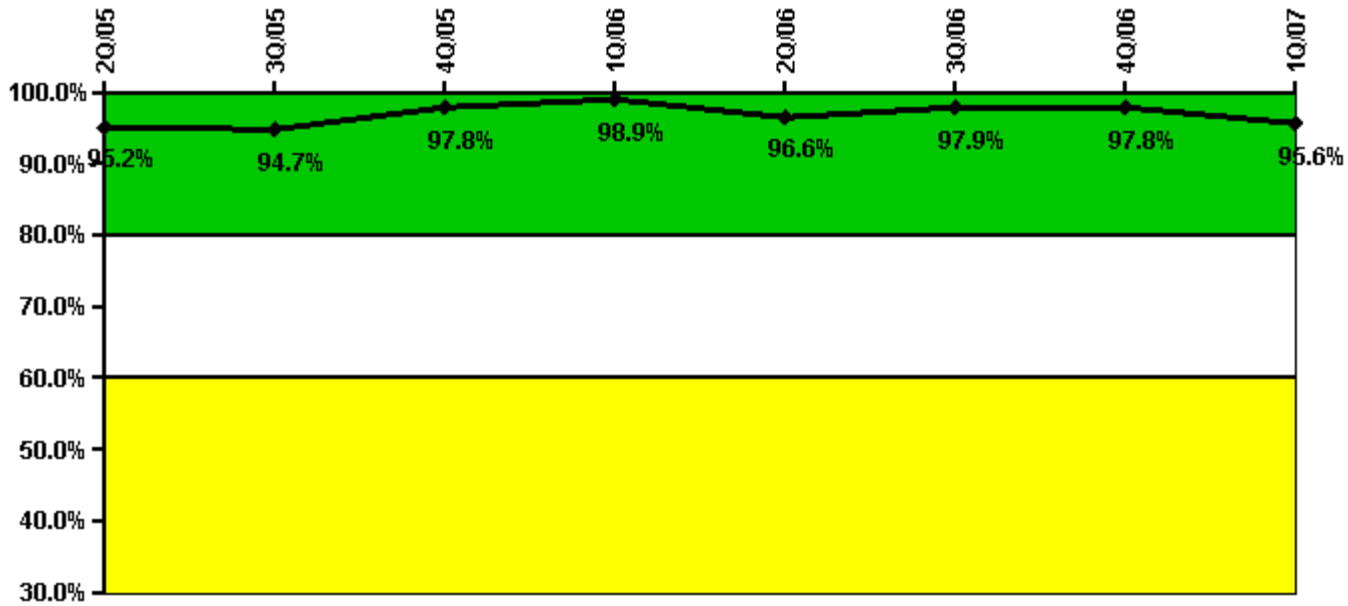
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	0	74.0	103.0	9.0	5.0	57.0	97.0	18.0
Total opportunities	0	79.0	104.0	11.0	5.0	64.0	102.0	19.0
Indicator value	95.2%	93.2%	94.0%	94.1%	94.6%	92.4%	94.6%	94.5%

Licensee Comments: none

# ERO Drill Participation



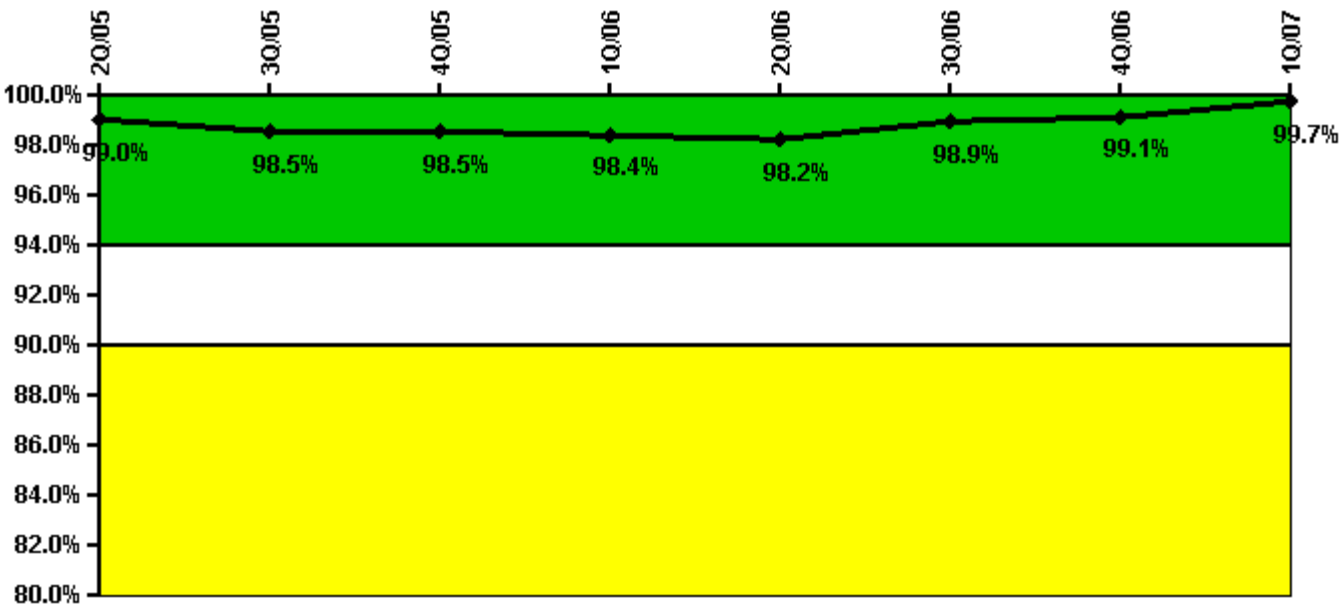
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	179.0	180.0	175.0	174.0	168.0	186.0	179.0	175.0
Total Key personnel	188.0	190.0	179.0	176.0	174.0	190.0	183.0	183.0
Indicator value	95.2%	94.7%	97.8%	98.9%	96.6%	97.9%	97.8%	95.6%

Licensee Comments: none

# Alert & Notification System



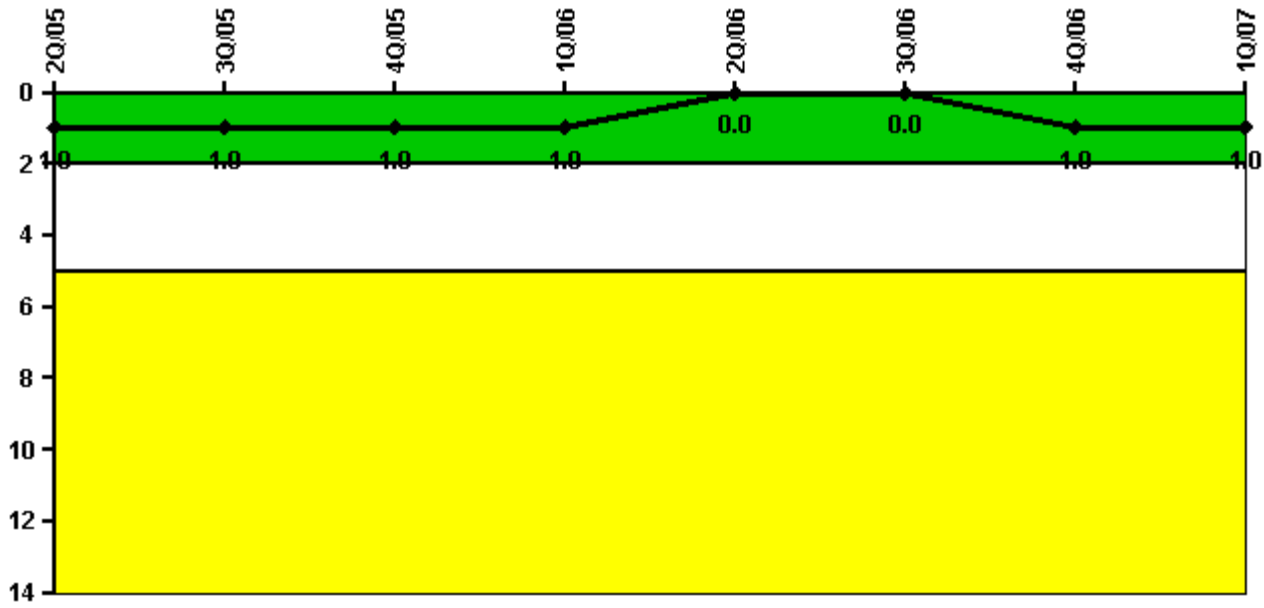
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	797	753	791	778	792	797	792	798
Total sirens-tests	798	776	798	798	798	798	793	798
Indicator value	99.0%	98.5%	98.5%	98.4%	98.2%	98.9%	99.1%	99.7%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



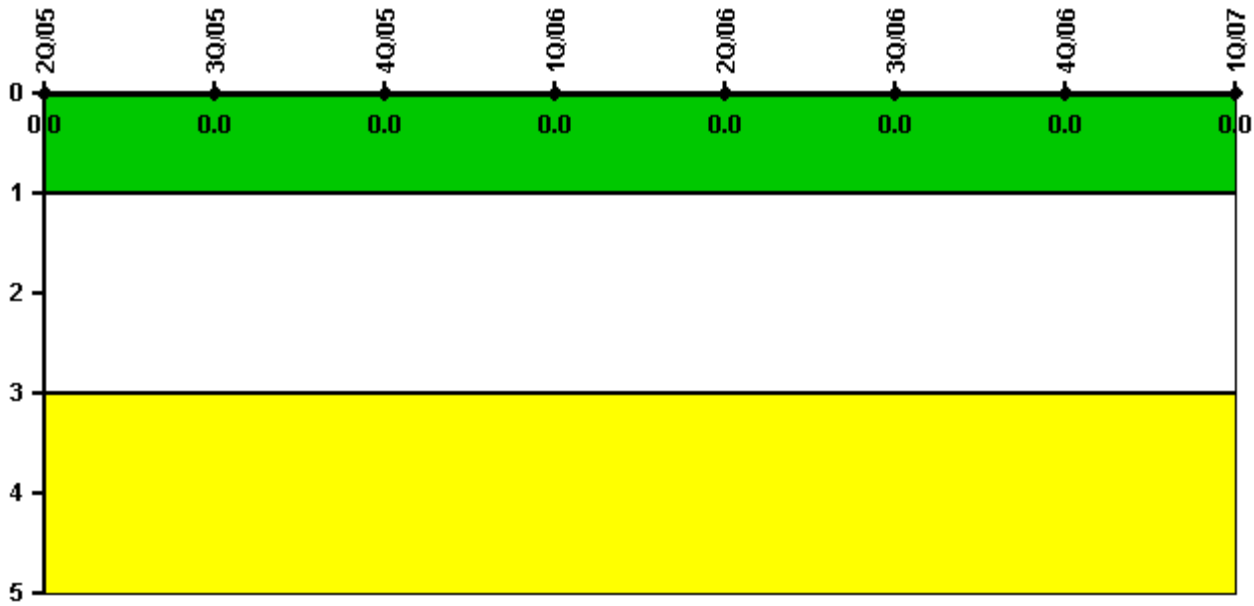
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
High radiation area occurrences	1	0	0	0	0	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</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/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
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: June 1, 2007