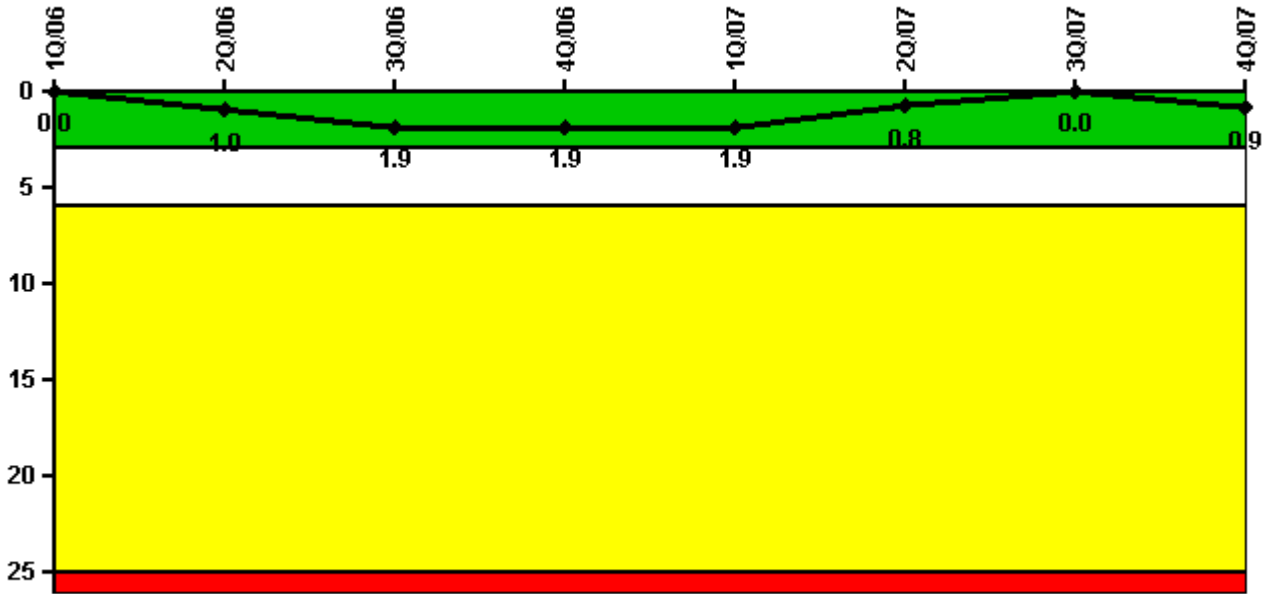


# Fermi 2

## 4Q/2007 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



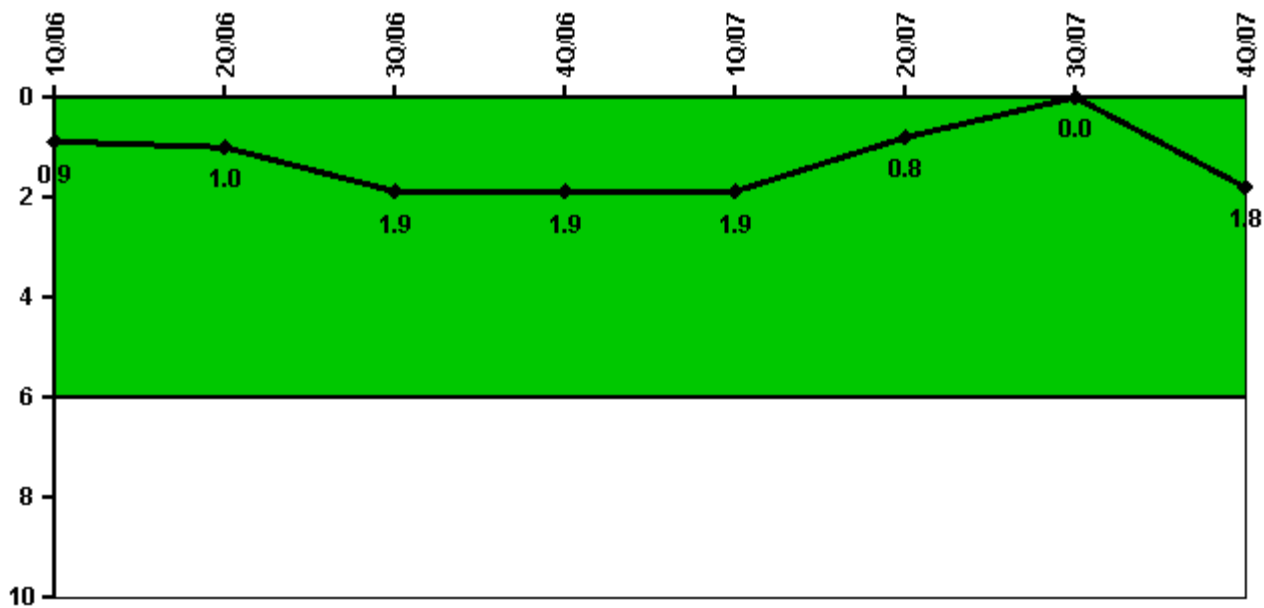
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	0	1.0	1.0	0	0	0	0	1.0
Critical hours	1997.3	1145.3	1897.2	2209.0	2159.0	2184.0	2164.0	1122.9
Indicator value	0	1.0	1.9	1.9	1.9	0.8	0	0.9

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



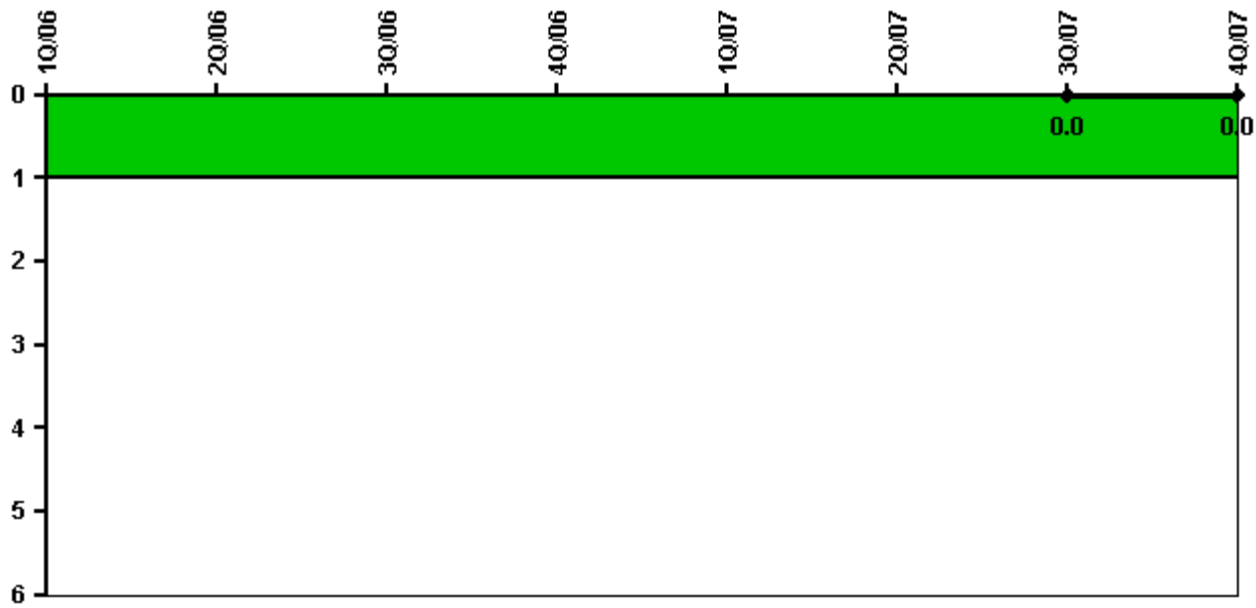
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	0	1.0	1.0	0	0	0	0	2.0
Critical hours	1997.3	1145.3	1897.2	2209.0	2159.0	2184.0	2164.0	1122.9
Indicator value	0.9	1.0	1.9	1.9	1.9	0.8	0	1.8

Licensee Comments: none

# Unplanned Scrams with Complications



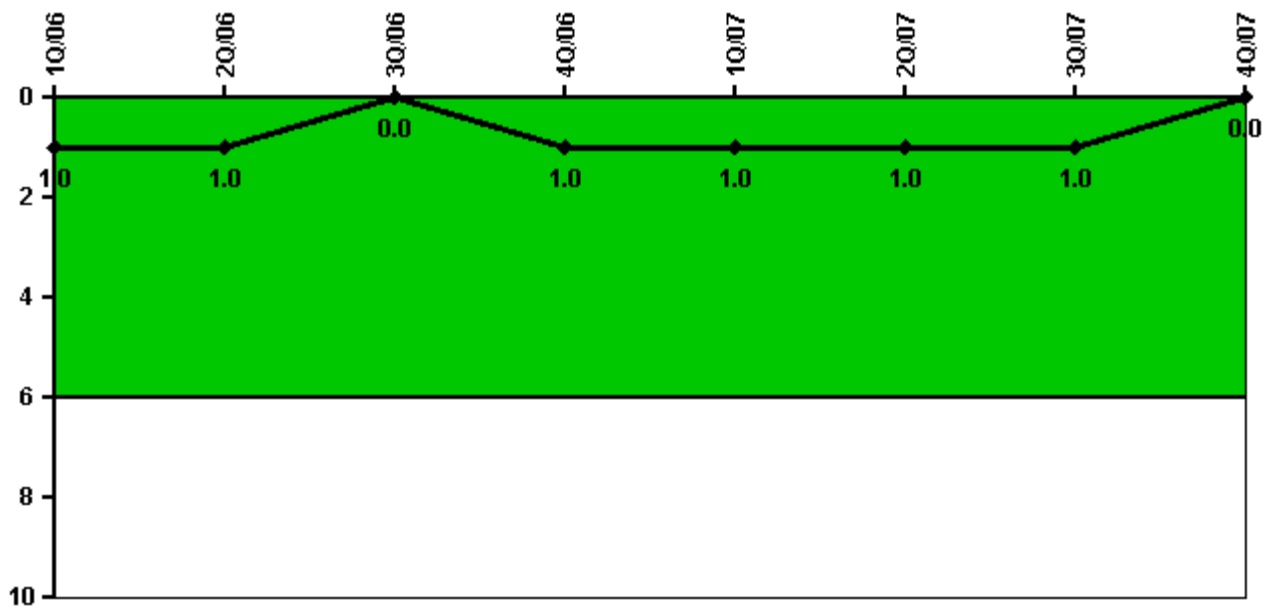
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Scrams with complications				0	0	0	0	0
<b>Indicator value</b>							<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

# Safety System Functional Failures (BWR)



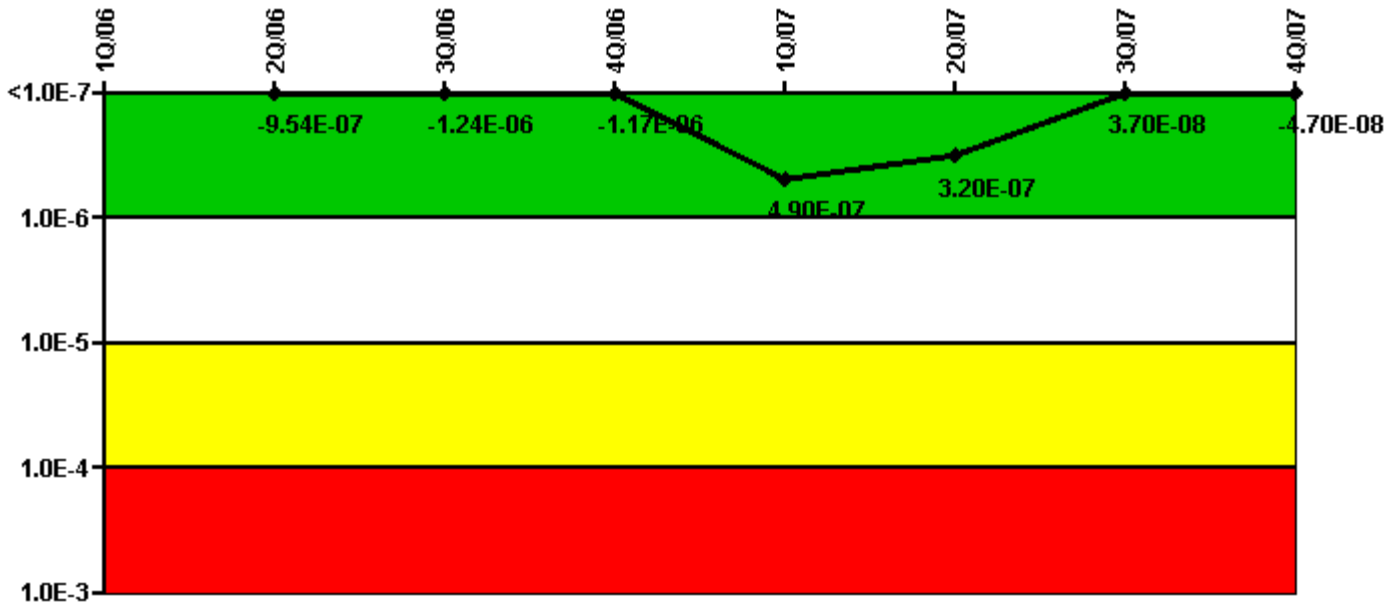
Thresholds: White > 6.0

## Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



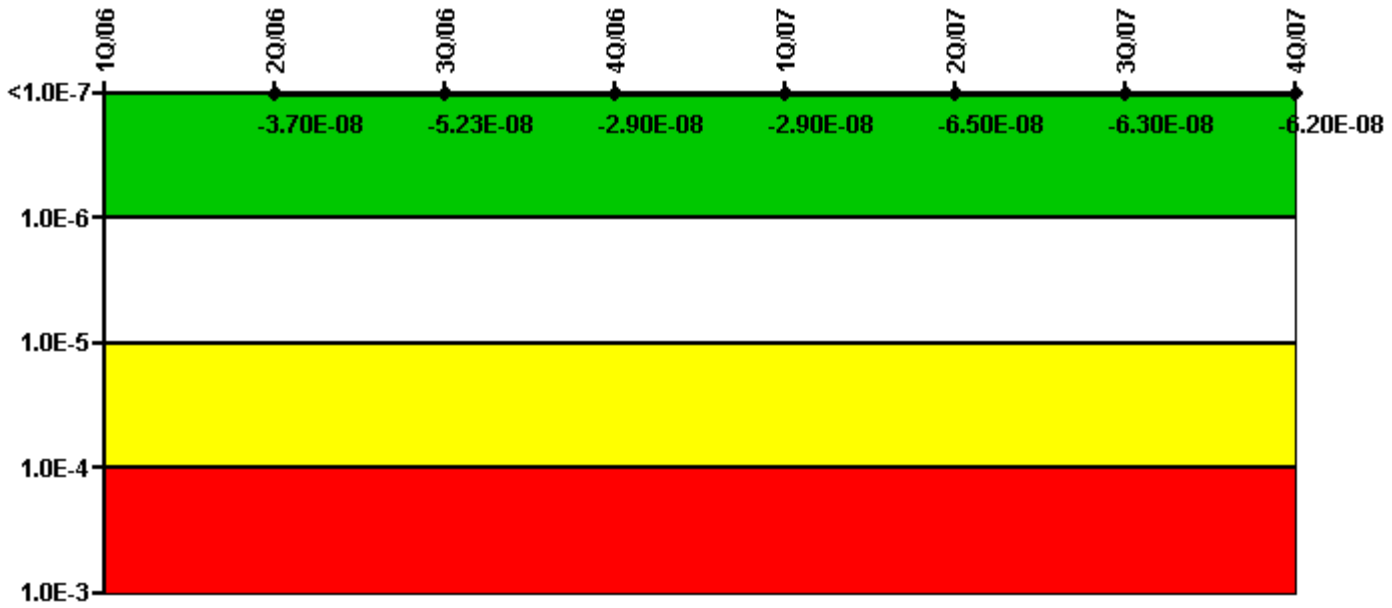
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		3.60E-08	5.60E-08	1.30E-07	1.60E-07	1.70E-07	1.30E-07	9.30E-08
URI (ΔCDF)		-9.90E-07	-1.30E-06	-1.30E-06	3.30E-07	1.50E-07	-9.30E-08	-1.40E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-9.54E-07	-1.24E-06	-1.17E-06	4.90E-07	3.20E-07	3.70E-08	-4.70E-08

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



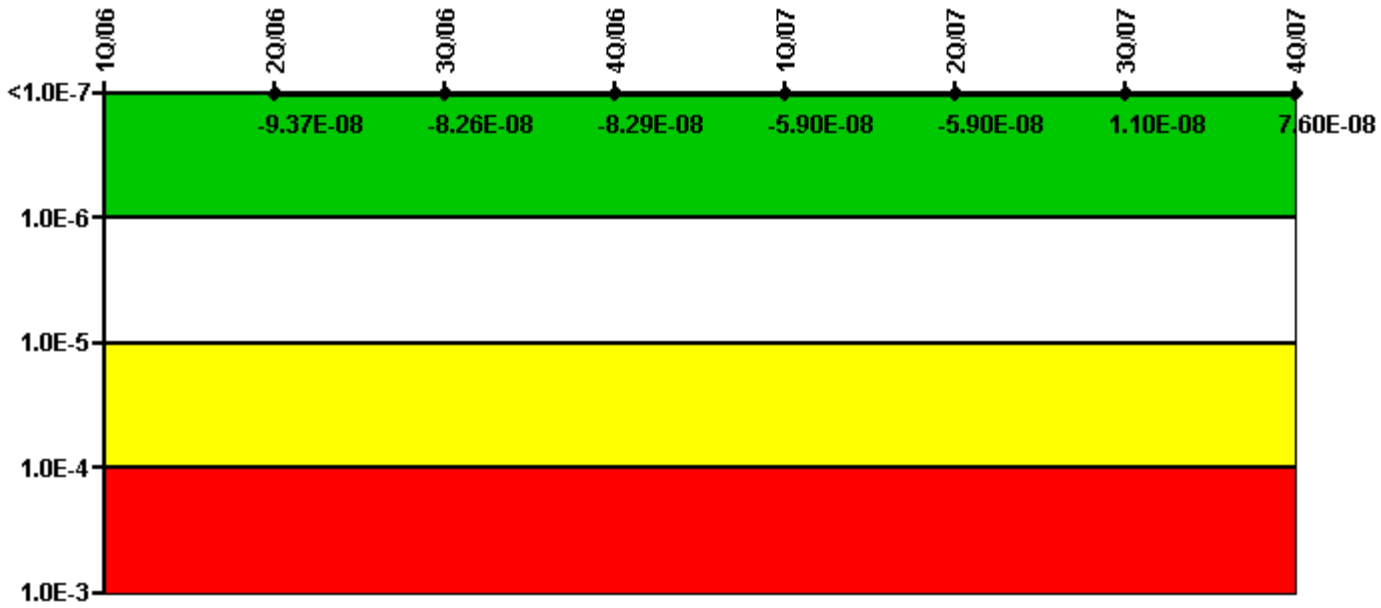
Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		$1.40E-08$	$-2.30E-09$	$2.20E-08$	$2.20E-08$	$-1.50E-08$	$-1.50E-08$	$-1.50E-08$
URI ( $\Delta$ CDF)		$-5.10E-08$	$-5.00E-08$	$-5.10E-08$	$-5.10E-08$	$-5.00E-08$	$-4.80E-08$	$-4.70E-08$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$-3.70E-08$	$-5.23E-08$	$-2.90E-08$	$-2.90E-08$	$-6.50E-08$	$-6.30E-08$	$-6.20E-08$

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



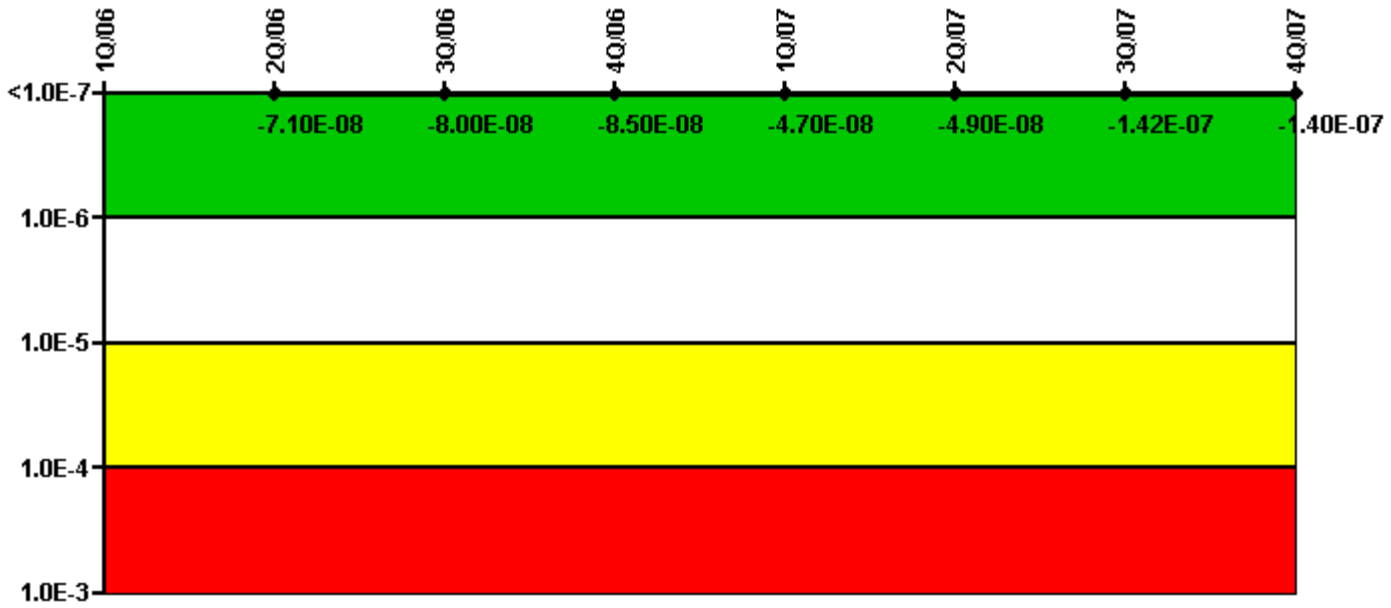
Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		$-6.70E-09$	$-6.60E-09$	$-7.90E-09$	$1.70E-08$	$1.70E-08$	$9.30E-08$	$1.60E-07$
URI ( $\Delta$ CDF)		$-8.70E-08$	$-7.60E-08$	$-7.50E-08$	$-7.60E-08$	$-7.60E-08$	$-8.20E-08$	$-8.40E-08$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$-9.37E-08$	$-8.26E-08$	$-8.29E-08$	$-5.90E-08$	$-5.90E-08$	$1.10E-08$	$7.60E-08$

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



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

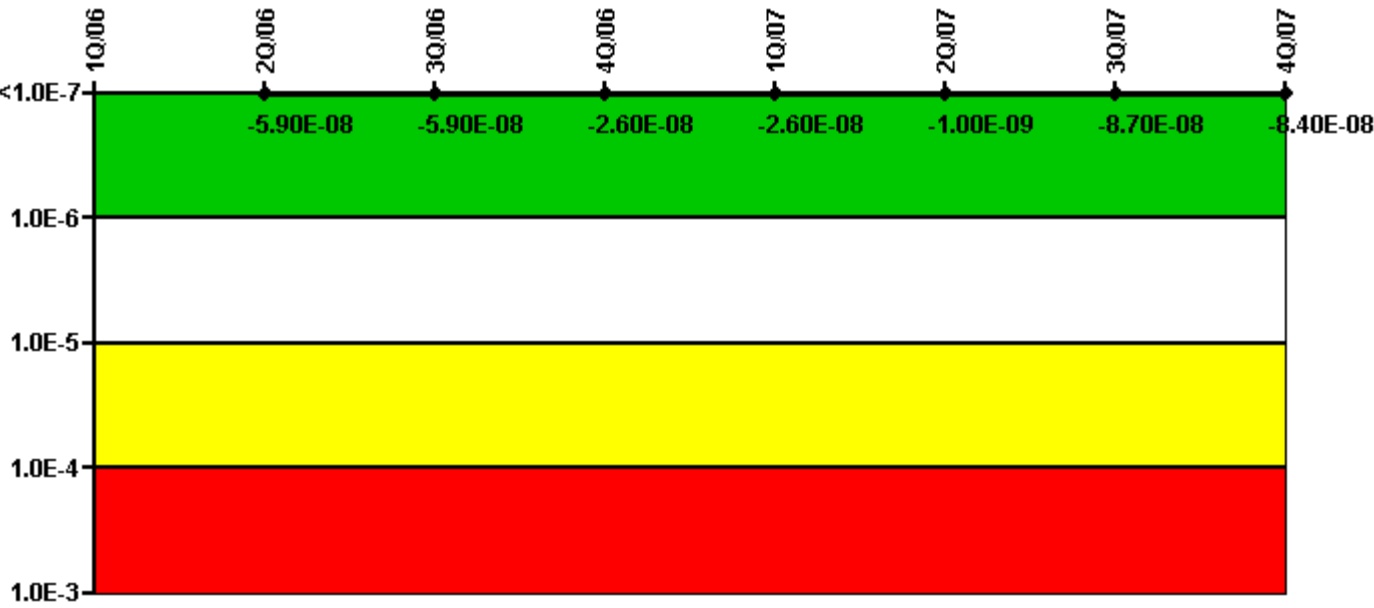
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		$4.90E-08$	$4.00E-08$	$3.50E-08$	$7.30E-08$	$7.10E-08$	$2.80E-08$	$3.00E-08$
URI ( $\Delta$ CDF)		$-1.20E-07$	$-1.20E-07$	$-1.20E-07$	$-1.20E-07$	$-1.20E-07$	$-1.70E-07$	$-1.70E-07$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$-7.10E-08$	$-8.00E-08$	$-8.50E-08$	$-4.70E-08$	$-4.90E-08$	$-1.42E-07$	$-1.40E-07$

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



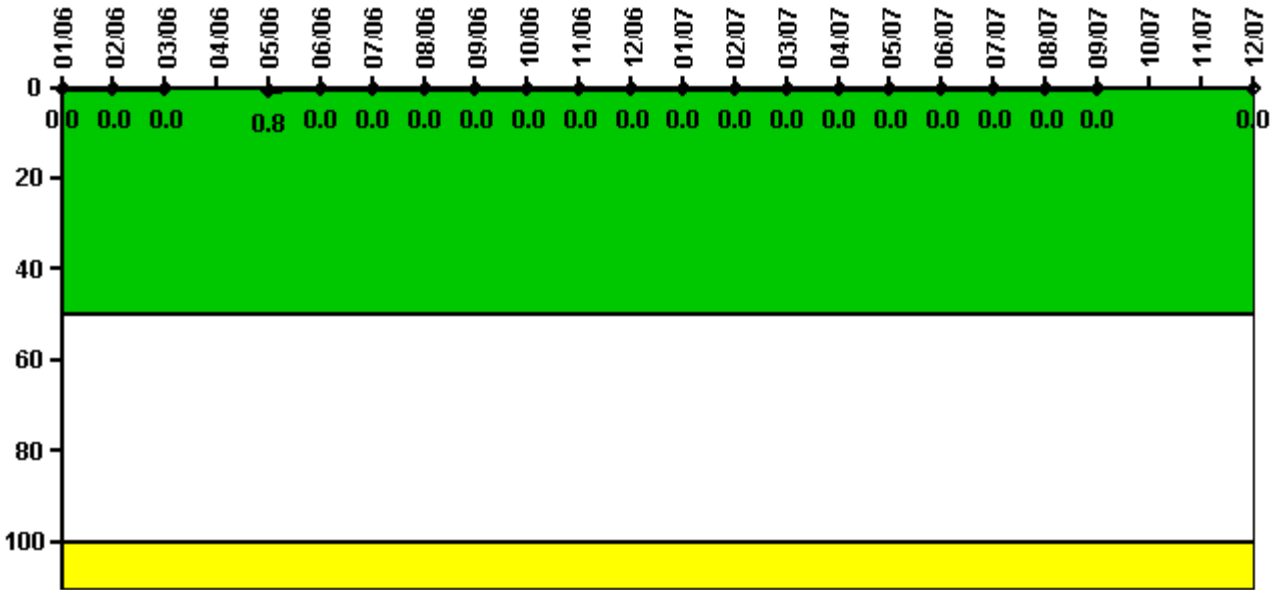
Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		4.10E-08	4.10E-08	7.40E-08	7.40E-08	9.90E-08	1.30E-08	1.60E-08
URI ( $\Delta$ CDF)		-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-5.90E-08	-5.90E-08	-2.60E-08	-2.60E-08	-1.00E-09	-8.70E-08	-8.40E-08

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

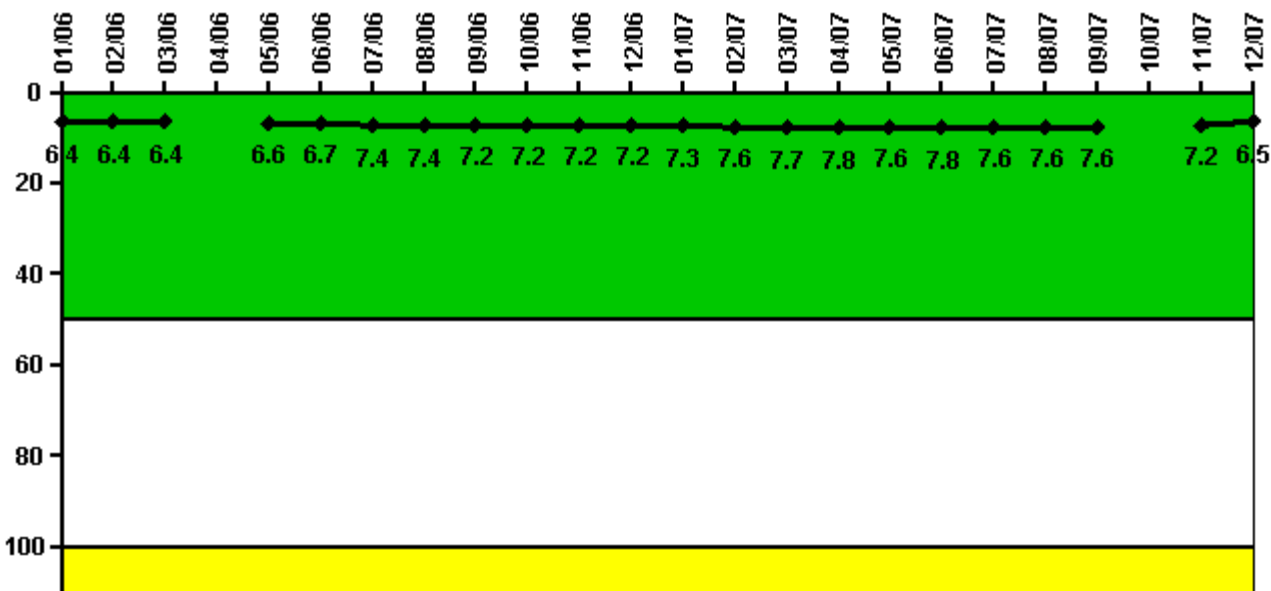
Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	0.000054	0.000043	0.000084	N/A	0.001650	0.000040	0.000034	0.000039	0.000031	0.000032	0.000051	0.000031
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	N/A	0.8	0	0	0	0	0	0	0

Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.000032	0.000046	0.000050	0.000060	0.000049	0.000047	0.000051	0.000074	0.000068	N/A	N/A	0.000047
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	N/A	N/A	0

Licensee Comments: none

# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

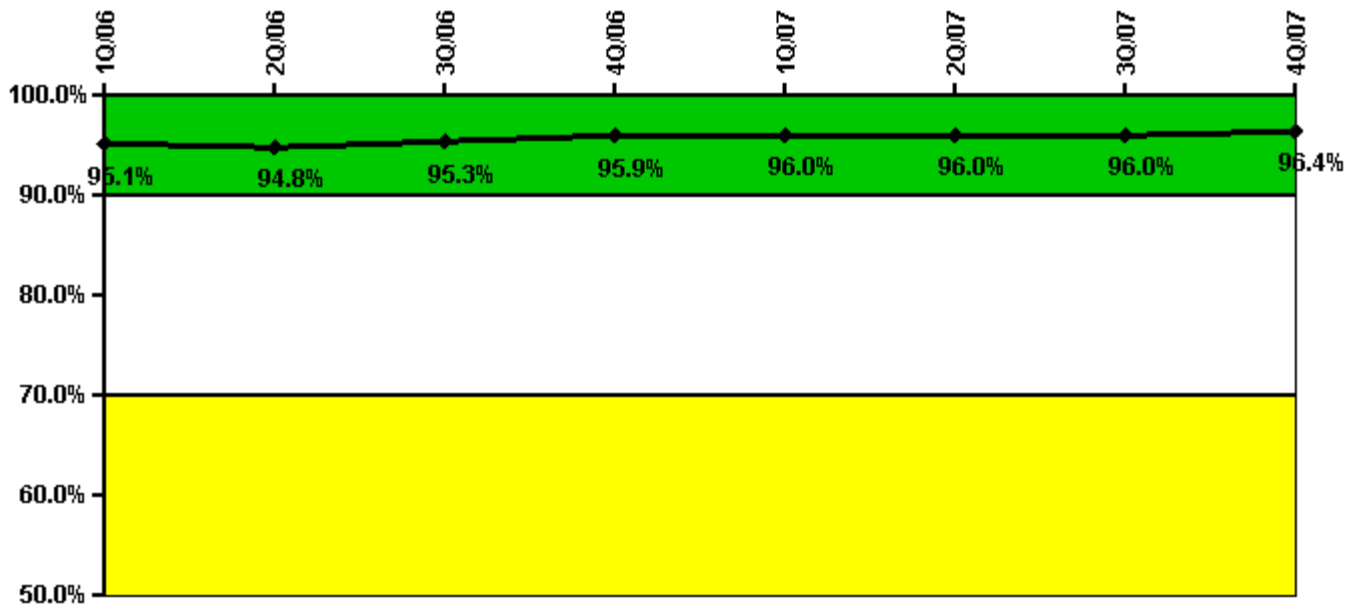
Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	1.600	1.600	1.610	N/A	1.660	1.670	1.840	1.860	1.810	1.800	1.810	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.4	6.4	6.4	N/A	6.6	6.7	7.4	7.4	7.2	7.2	7.2	7.2

Reactor Coolant System Leakage	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum leakage	1.820	1.890	1.920	1.950	1.900	1.940	1.910	1.900	1.910	N/A	1.810	1.620
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	7.3	7.6	7.7	7.8	7.6	7.8	7.6	7.6	7.6	N/A	7.2	6.5

Licensee Comments: none

## Drill/Exercise Performance



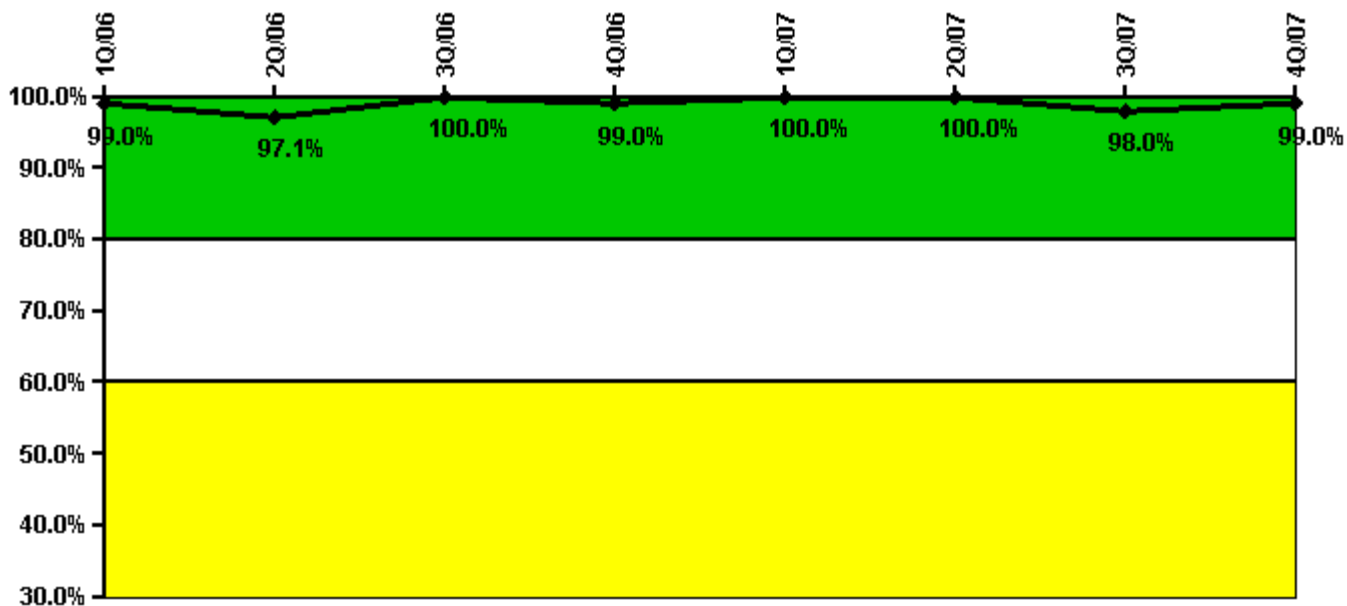
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	11.0	37.0	60.0	25.0	18.0	25.0	8.0	2.0
Total opportunities	12.0	38.0	62.0	25.0	19.0	25.0	9.0	3.0
<b>Indicator value</b>	<b>95.1%</b>	<b>94.8%</b>	<b>95.3%</b>	<b>95.9%</b>	<b>96.0%</b>	<b>96.0%</b>	<b>96.0%</b>	<b>96.4%</b>

Licensee Comments: none

# ERO Drill Participation



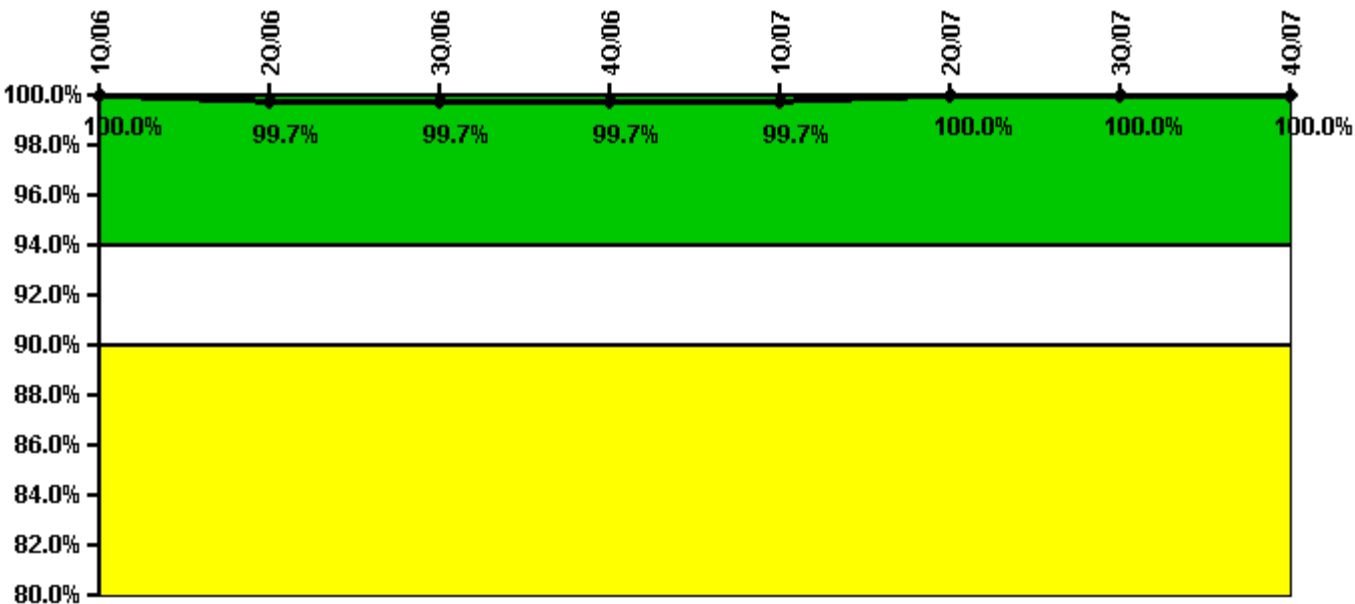
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	102.0	102.0	103.0	103.0	106.0	105.0	97.0	95.0
Total Key personnel	103.0	105.0	103.0	104.0	106.0	105.0	99.0	96.0
<b>Indicator value</b>	<b>99.0%</b>	<b>97.1%</b>	<b>100.0%</b>	<b>99.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>98.0%</b>	<b>99.0%</b>

Licensee Comments: none

# Alert & Notification System



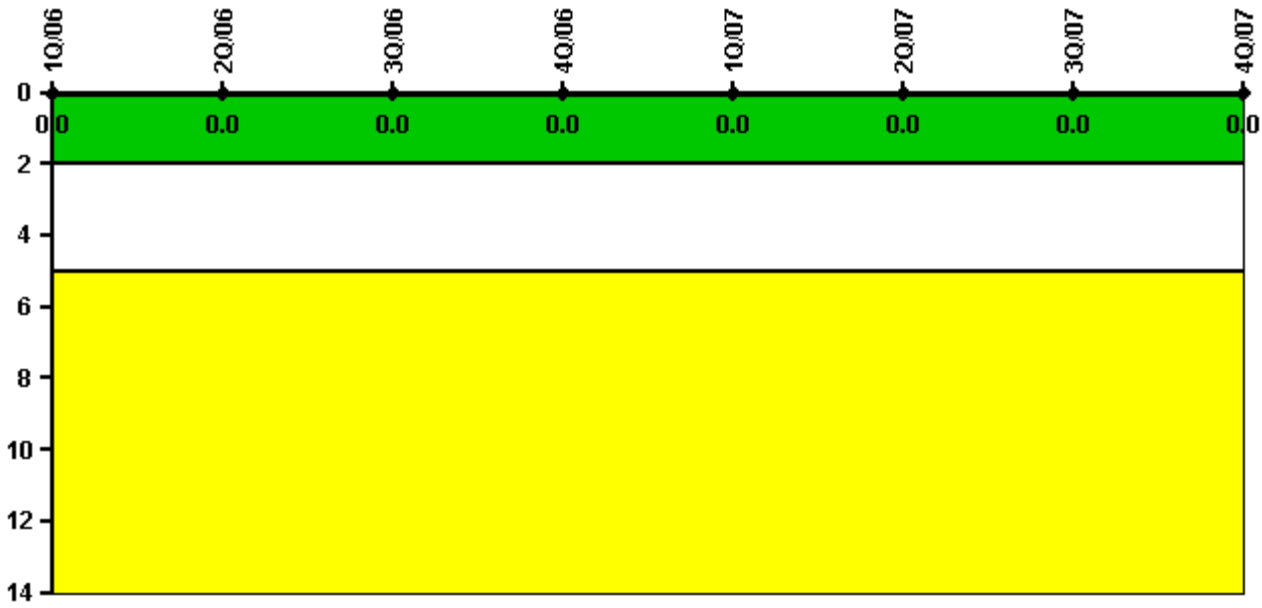
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	186	184	186	186	186	186	186	186
Total sirens-tests	186	186	186	186	186	186	186	186
Indicator value	100.0%	99.7%	99.7%	99.7%	99.7%	100.0%	100.0%	100.0%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



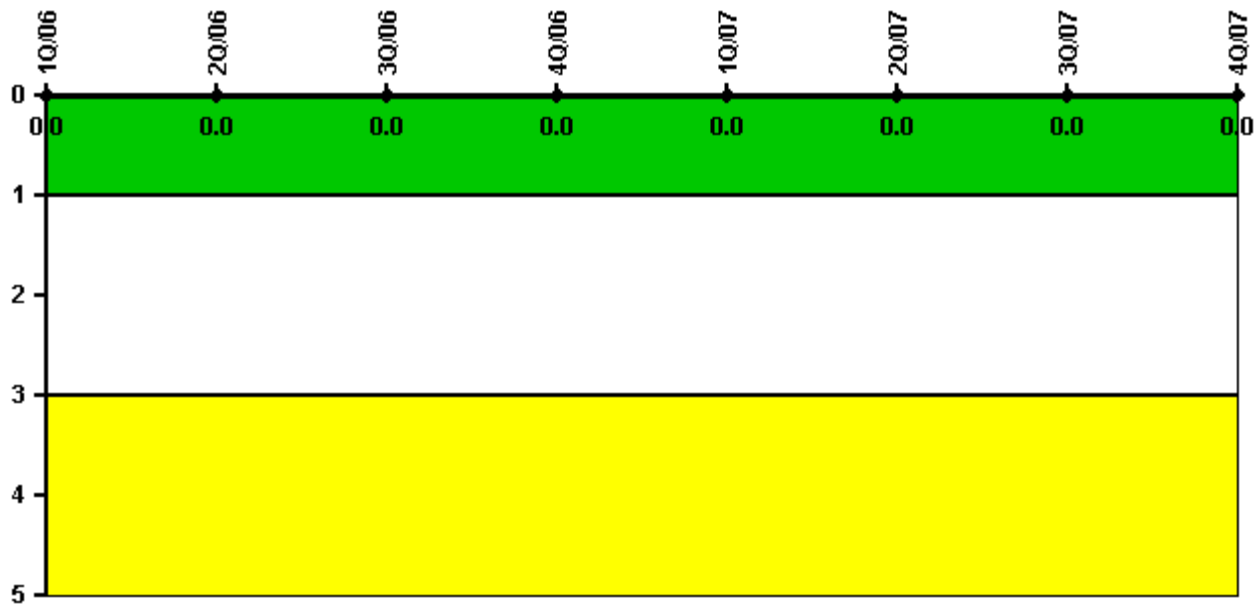
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
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/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/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.