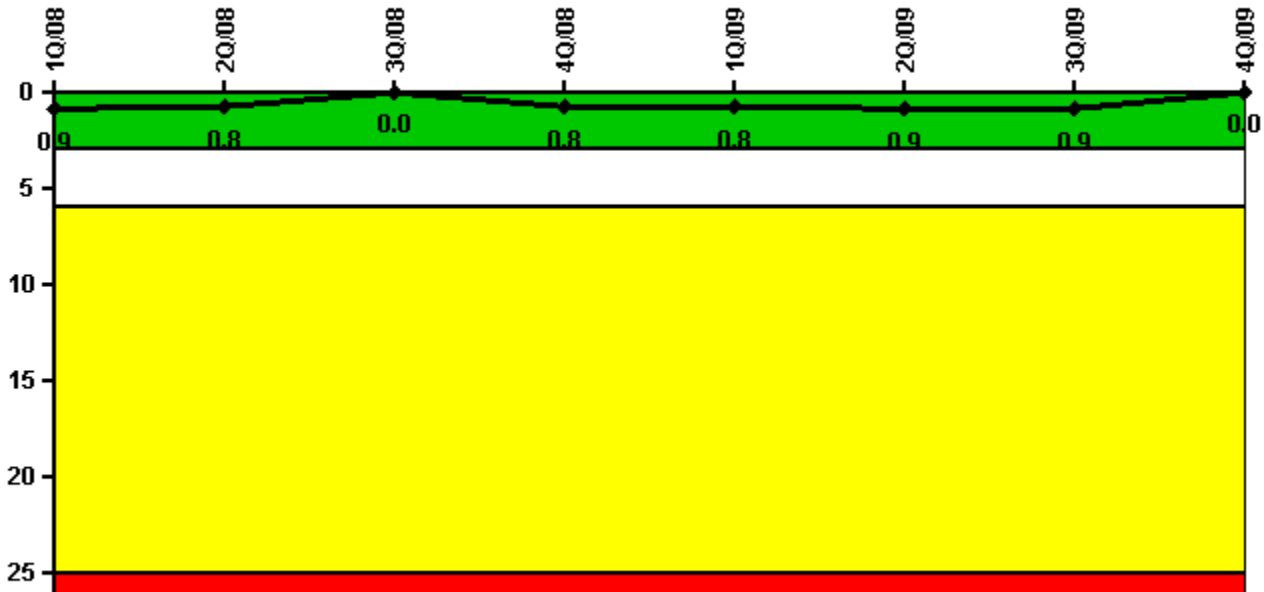


Pilgrim 1

4Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



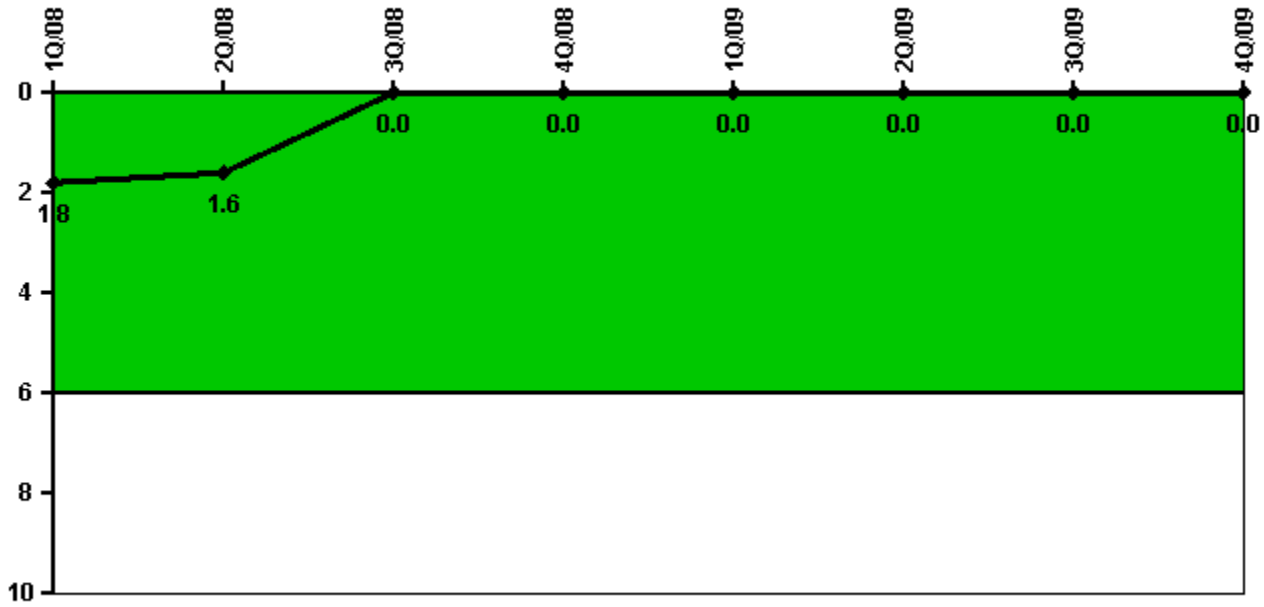
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2150.8	2208.0	2152.7	2159.0	1453.1	2208.0	2209.0
Indicator value	0.9	0.8	0	0.8	0.8	0.9	0.9	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



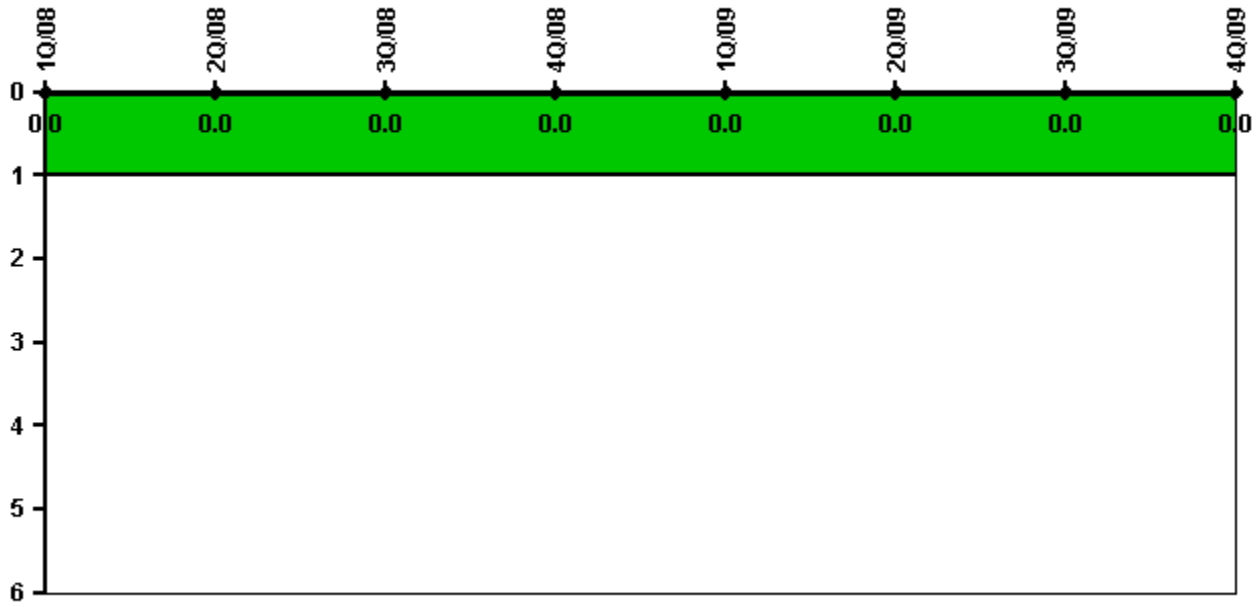
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2150.8	2208.0	2152.7	2159.0	1453.1	2208.0	2209.0
Indicator value	1.8	1.6	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



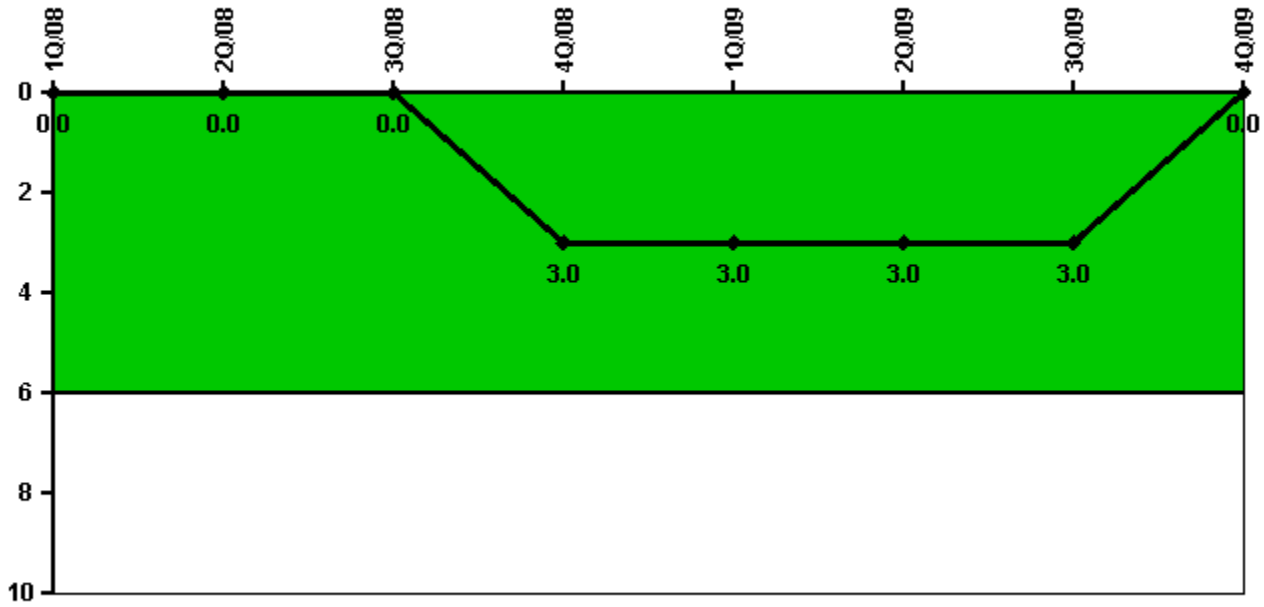
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (BWR)



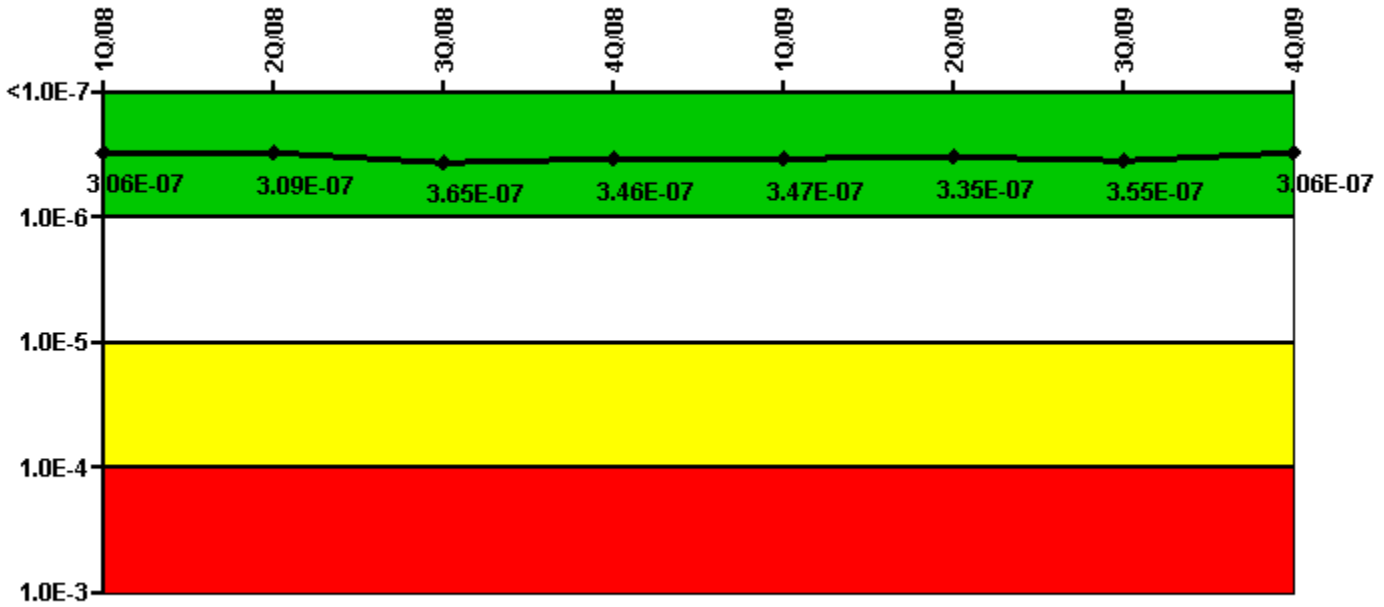
Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Safety System Functional Failures	0	0	0	3	0	0	0	0
Indicator value	0	0	0	3	3	3	3	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



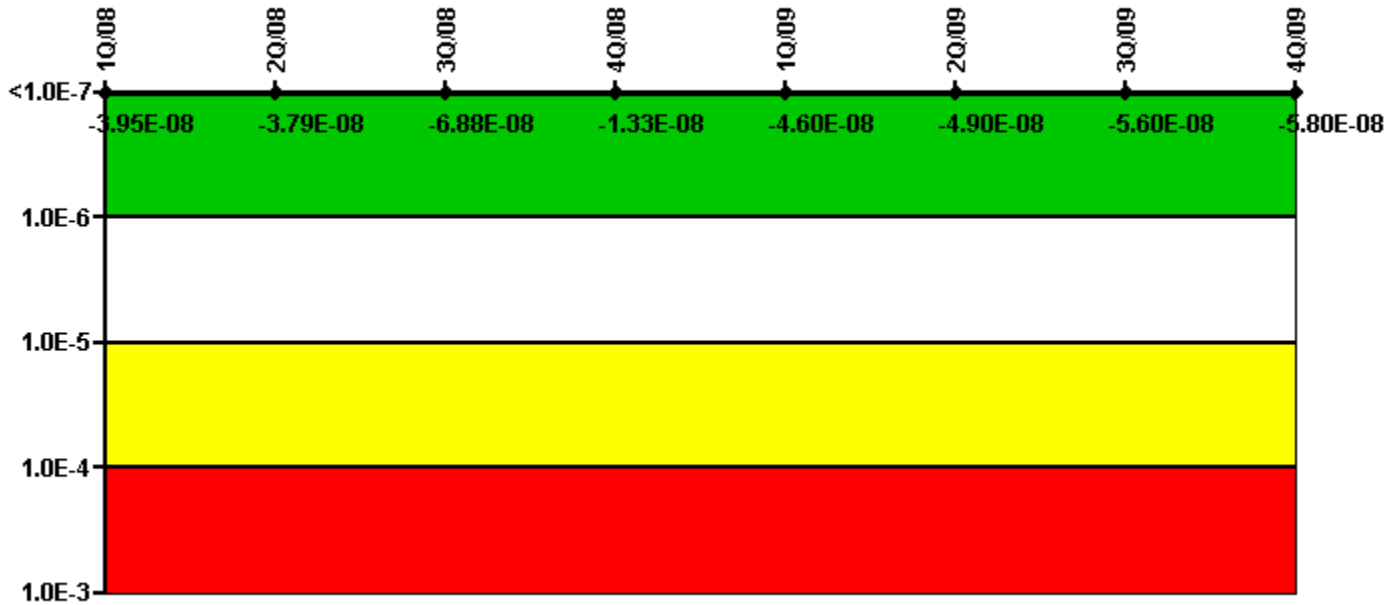
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	1.60E-08	2.90E-08	2.50E-08	2.60E-08	2.70E-08	1.50E-08	2.50E-08	2.60E-08
URI (Δ CDF)	2.90E-07	2.80E-07	3.40E-07	3.20E-07	3.20E-07	3.20E-07	3.30E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.06E-07	3.09E-07	3.65E-07	3.46E-07	3.47E-07	3.35E-07	3.55E-07	3.06E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



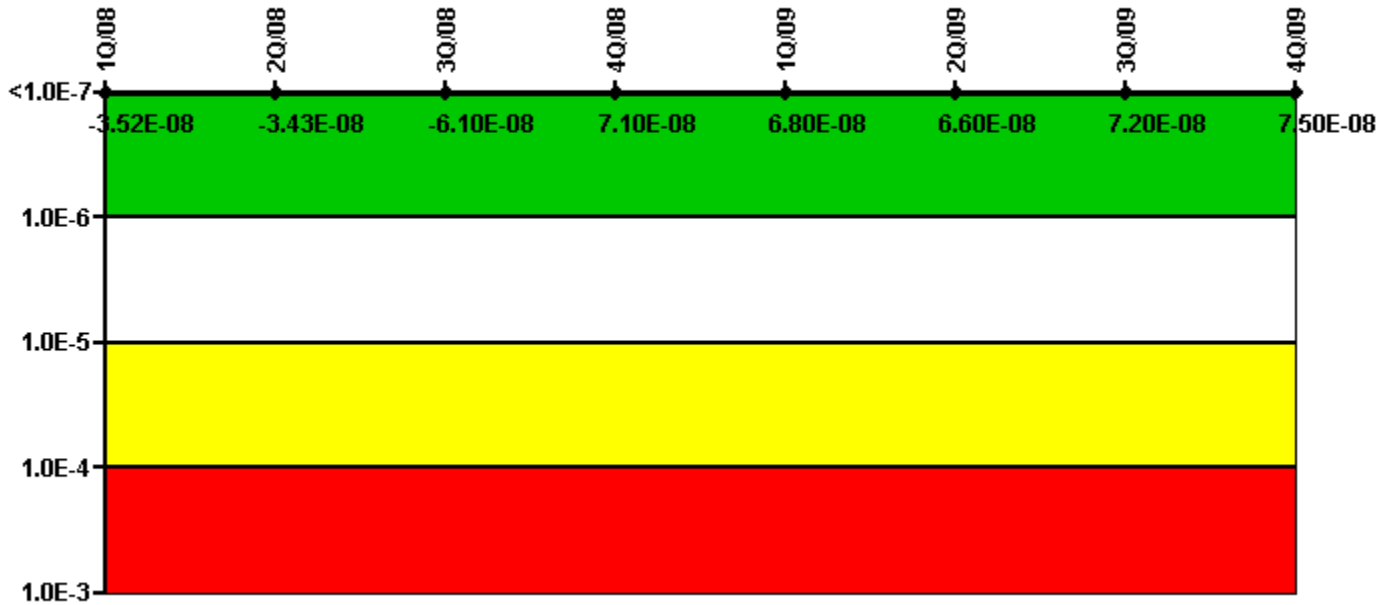
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-4.50E-09	-3.90E-09	-6.80E-09	7.70E-09	-2.10E-08	-1.90E-08	-3.00E-08	-3.00E-08
URI (Δ CDF)	-3.50E-08	-3.40E-08	-6.20E-08	-2.10E-08	-2.50E-08	-3.00E-08	-2.60E-08	-2.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.95E-08	-3.79E-08	-6.88E-08	-1.33E-08	-4.60E-08	-4.90E-08	-5.60E-08	-5.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



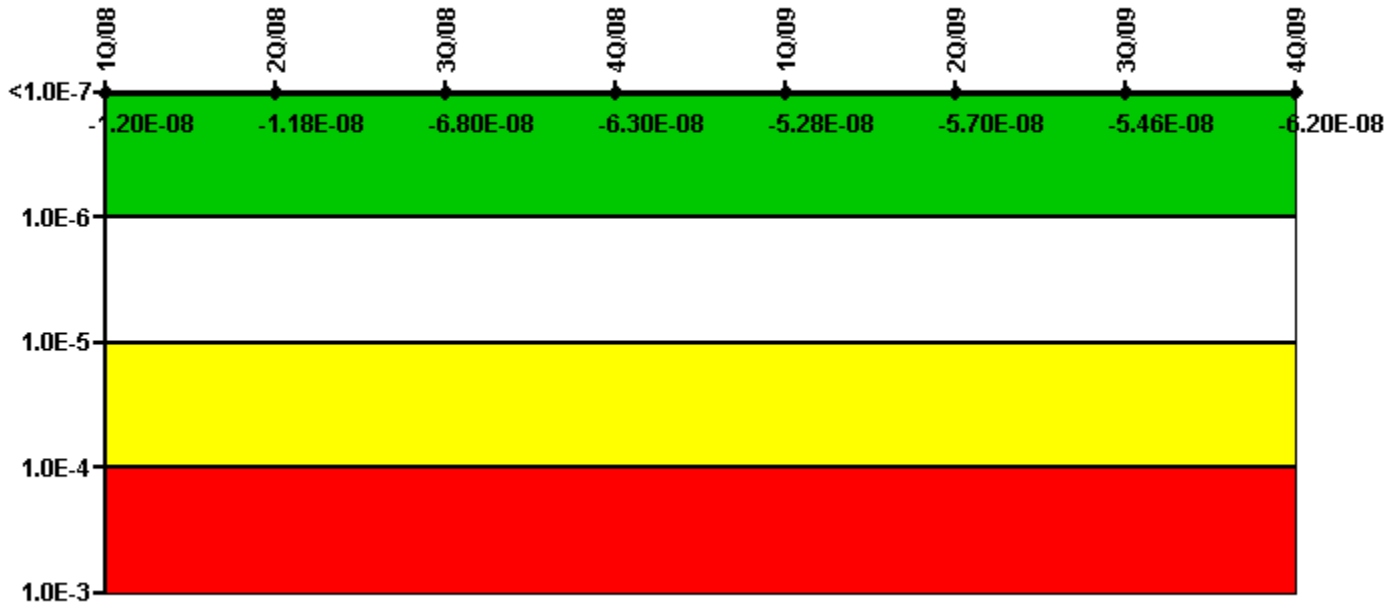
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-9.20E-09	-9.30E-09	-1.70E-08	-1.10E-08	-1.10E-08	-1.00E-08	-1.00E-08	-1.00E-08
URI (Δ CDF)	-2.60E-08	-2.50E-08	-4.40E-08	8.20E-08	7.90E-08	7.60E-08	8.20E-08	8.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.52E-08	-3.43E-08	-6.10E-08	7.10E-08	6.80E-08	6.60E-08	7.20E-08	7.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



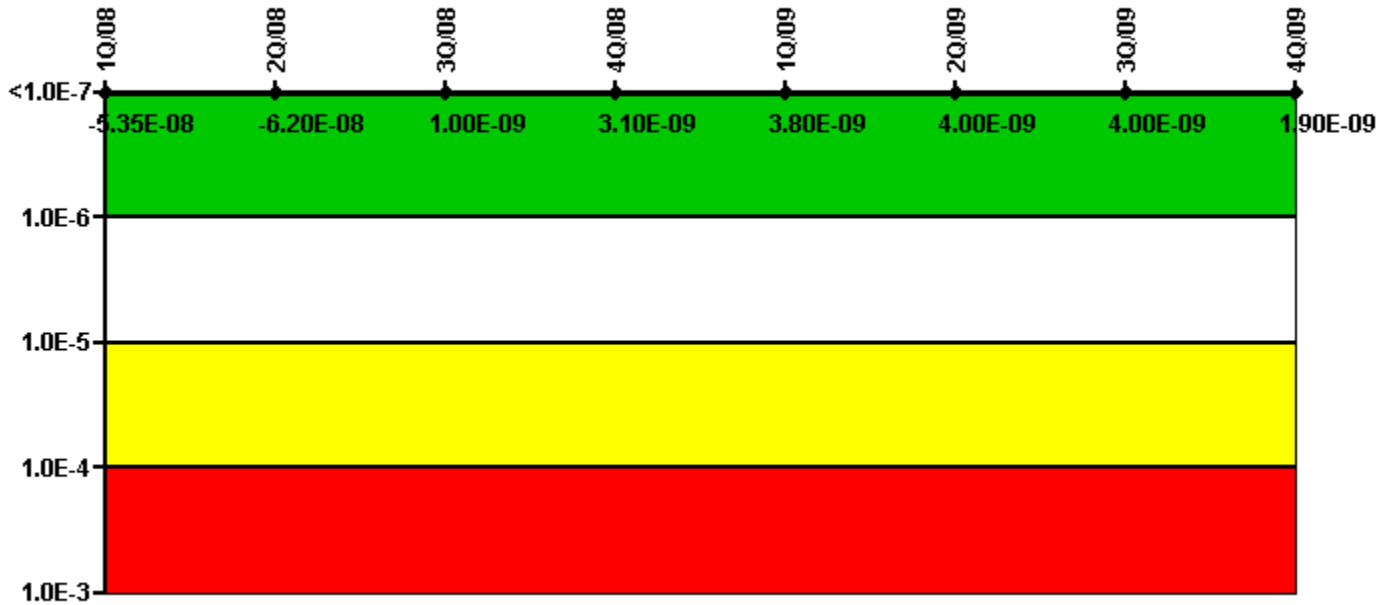
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-2.90E-09	-2.90E-09	-2.70E-08	-2.10E-08	-9.80E-09	-1.20E-08	-9.60E-09	-1.70E-08
URI (Δ CDF)	-9.10E-09	-8.90E-09	-4.10E-08	-4.20E-08	-4.30E-08	-4.50E-08	-4.50E-08	-4.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-08	-1.18E-08	-6.80E-08	-6.30E-08	-5.28E-08	-5.70E-08	-5.46E-08	-6.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



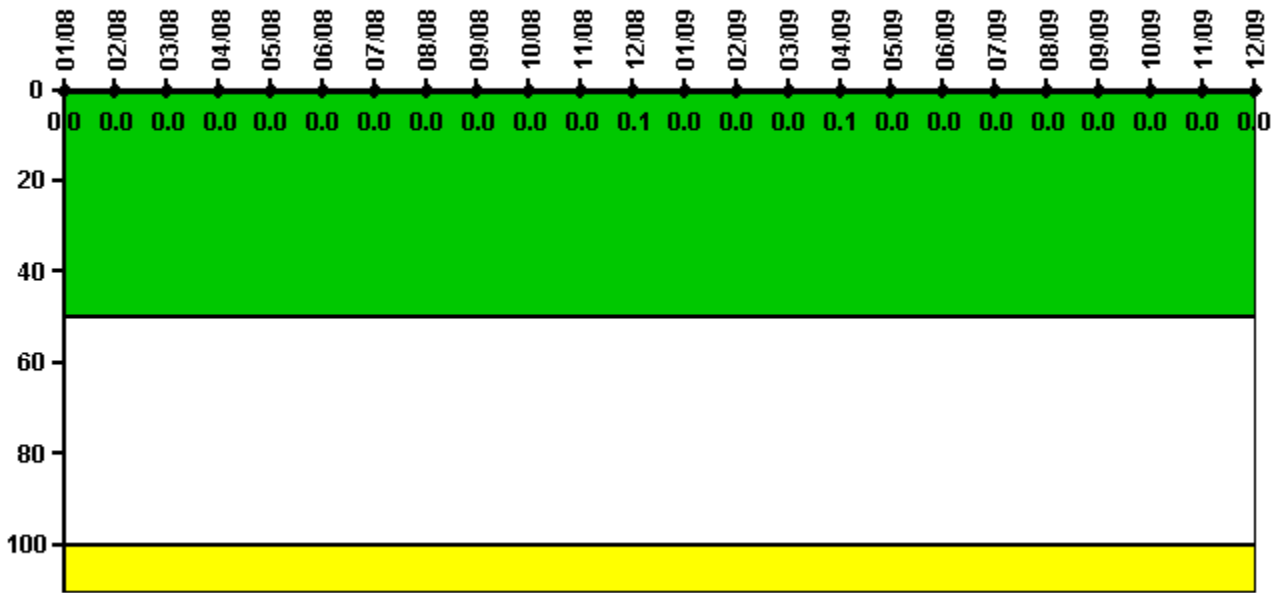
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	$-2.50E-09$	$-1.10E-08$	$2.50E-09$	$4.60E-09$	$5.30E-09$	$5.50E-09$	$5.50E-09$	$3.50E-09$
URI (Δ CDF)	$-5.10E-08$	$-5.10E-08$	$-1.50E-09$	$-1.50E-09$	$-1.50E-09$	$-1.50E-09$	$-1.50E-09$	$-1.60E-09$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-5.35E-08$	$-6.20E-08$	$1.00E-09$	$3.10E-09$	$3.80E-09$	$4.00E-09$	$4.00E-09$	$1.90E-09$

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

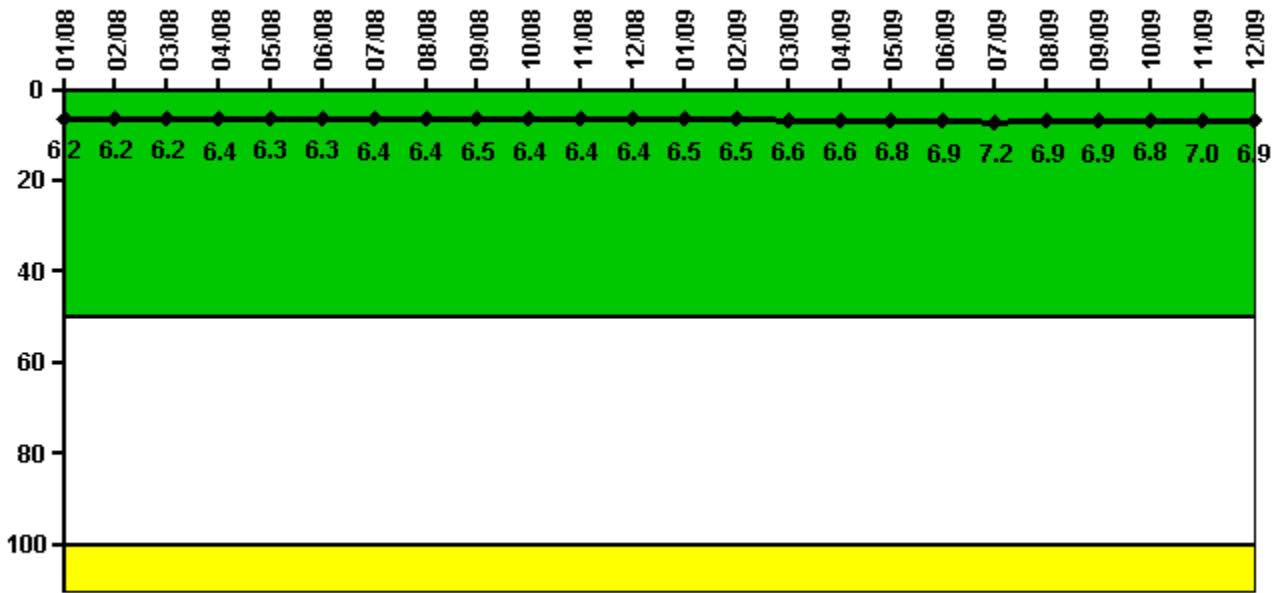
Notes

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.002610	0.001820	0.001560	0.006080	0.001550	0.001240	0.001120	0.001230	0.000966	0.001090	0.000887	0.027100
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0.1
Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.000862	0.001240	0.001390	0.017500	0.005240	0.000637	0.000613	0.000577	0.000931	0.001060	0.000535	0.000561
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	0	0	0	0.1	0	0	0	0	0	0	0	0

Licensee Comments:

12/09: Indicates reactor coolant activity, expressed as a percentage of the Technical Specifications limit for Iodine. Technical Specifications do not specify a limit for Iodine-131.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

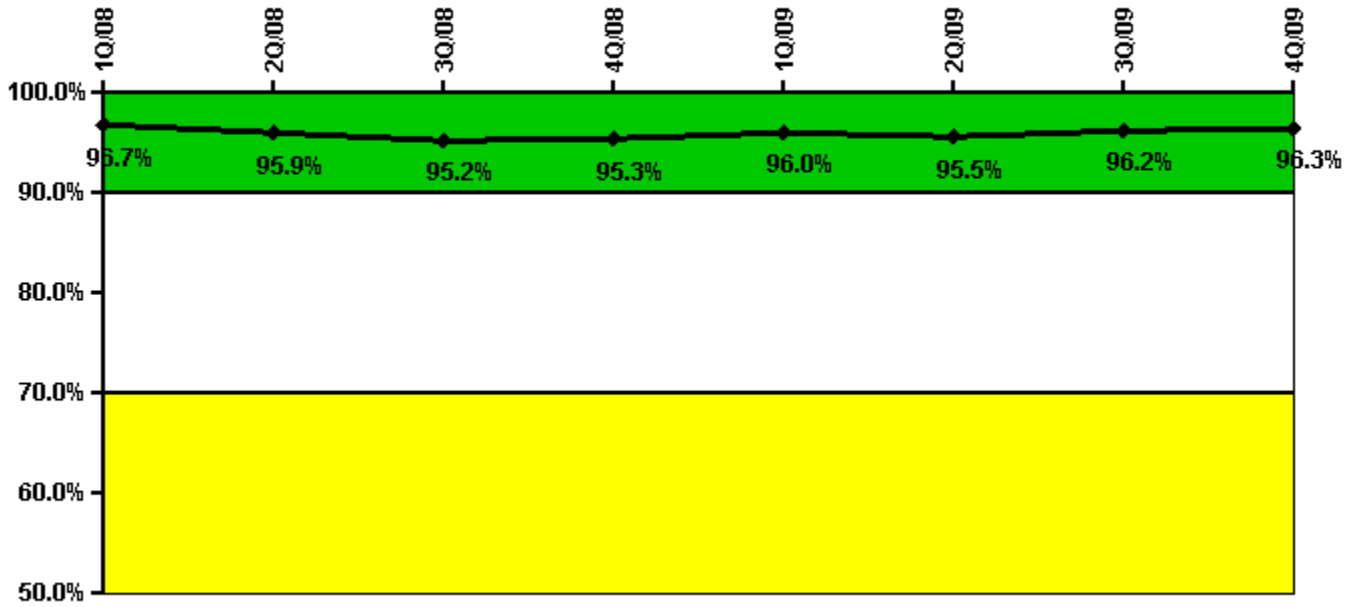
Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	1.550	1.560	1.560	1.590	1.580	1.575	1.590	1.610	1.620	1.600	1.600	1.590
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	6.2	6.2	6.2	6.4	6.3	6.3	6.4	6.4	6.5	6.4	6.4	6.4
Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	1.620	1.630	1.650	1.640	1.690	1.720	1.810	1.730	1.720	1.700	1.740	1.720
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	6.5	6.5	6.6	6.6	6.8	6.9	7.2	6.9	6.9	6.8	7.0	6.9

Licensee Comments:

12/09: Reflects total leakage (identified plus un-identified), expressed as a percentage of the Technical Specifications limit. Technical Specifications specify un-identified and total leakage; it does not specify identified leakage.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

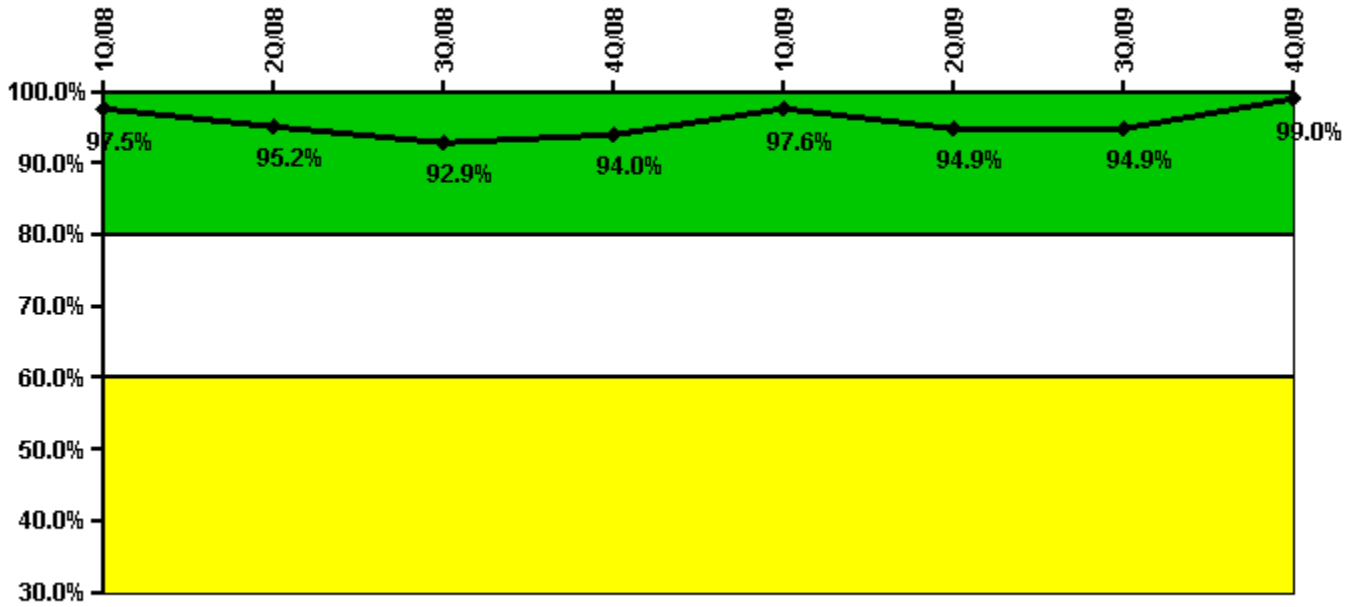
Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	21.0	22.0	44.0	57.0	103.0	22.0	57.0	42.0
Total opportunities	23.0	26.0	46.0	58.0	106.0	24.0	57.0	42.0
Indicator value	96.7%	95.9%	95.2%	95.3%	96.0%	95.5%	96.2%	96.3%

Licensee Comments:

3Q/09: Data revised. Error discovered and corrected 5 declarations inadvertently credited.

ERO Drill Participation



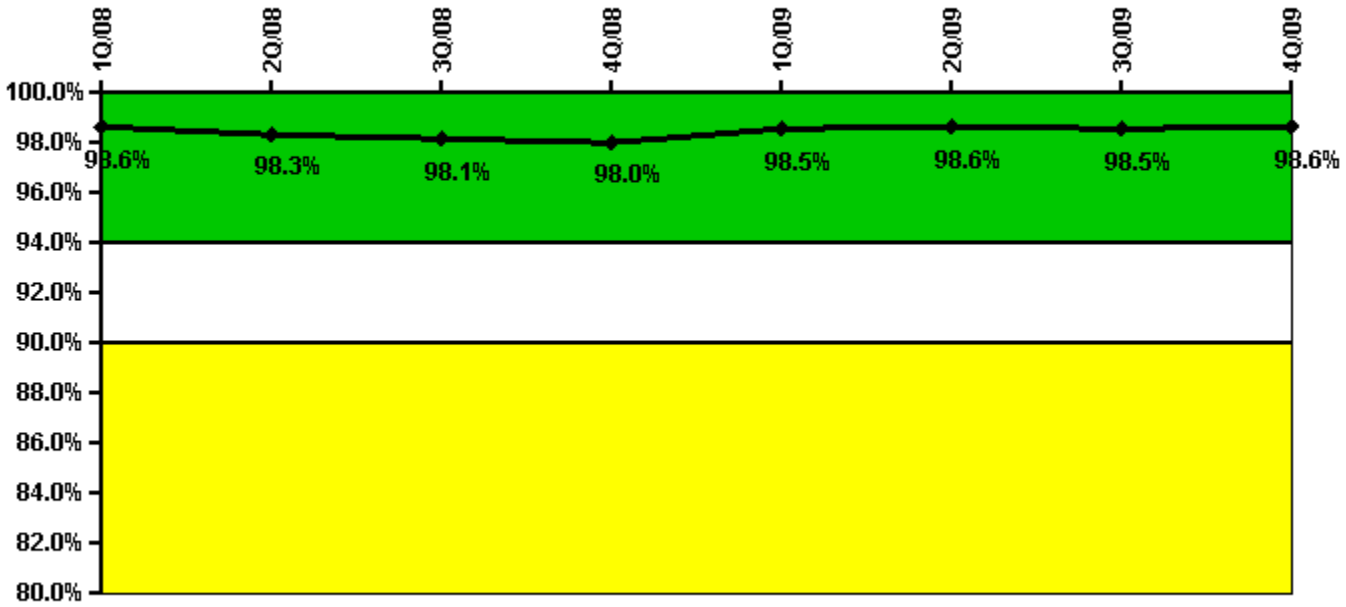
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	79.0	80.0	78.0	78.0	82.0	94.0	93.0	96.0
Total Key personnel	81.0	84.0	84.0	83.0	84.0	99.0	98.0	97.0
Indicator value	97.5%	95.2%	92.9%	94.0%	97.6%	94.9%	94.9%	99.0%

Licensee Comments: none

Alert & Notification System



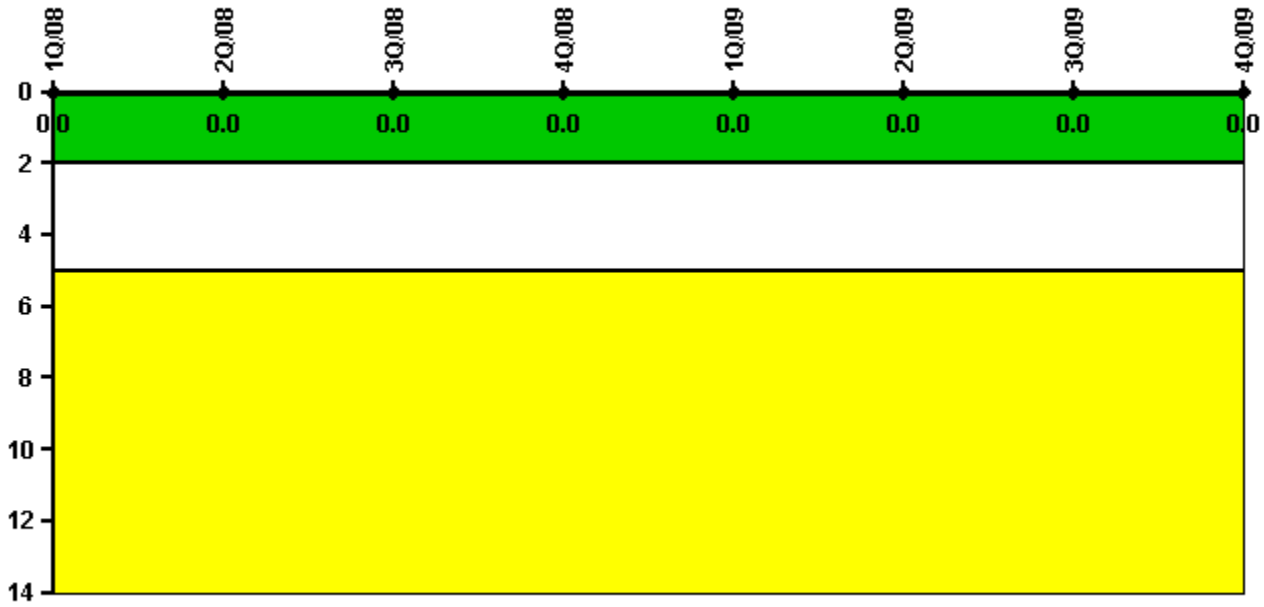
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	328	329	333	444	333	333	333	448
Total sirens-tests	339	337	337	450	337	339	339	452
Indicator value	98.6%	98.3%	98.1%	98.0%	98.5%	98.6%	98.5%	98.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



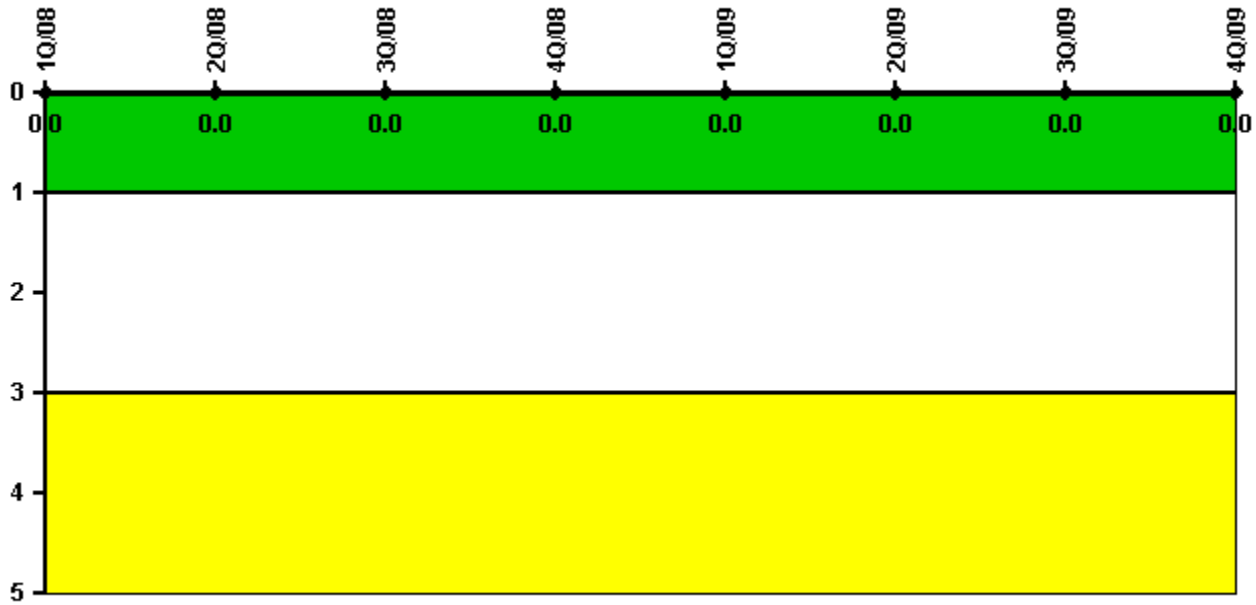
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
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	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.