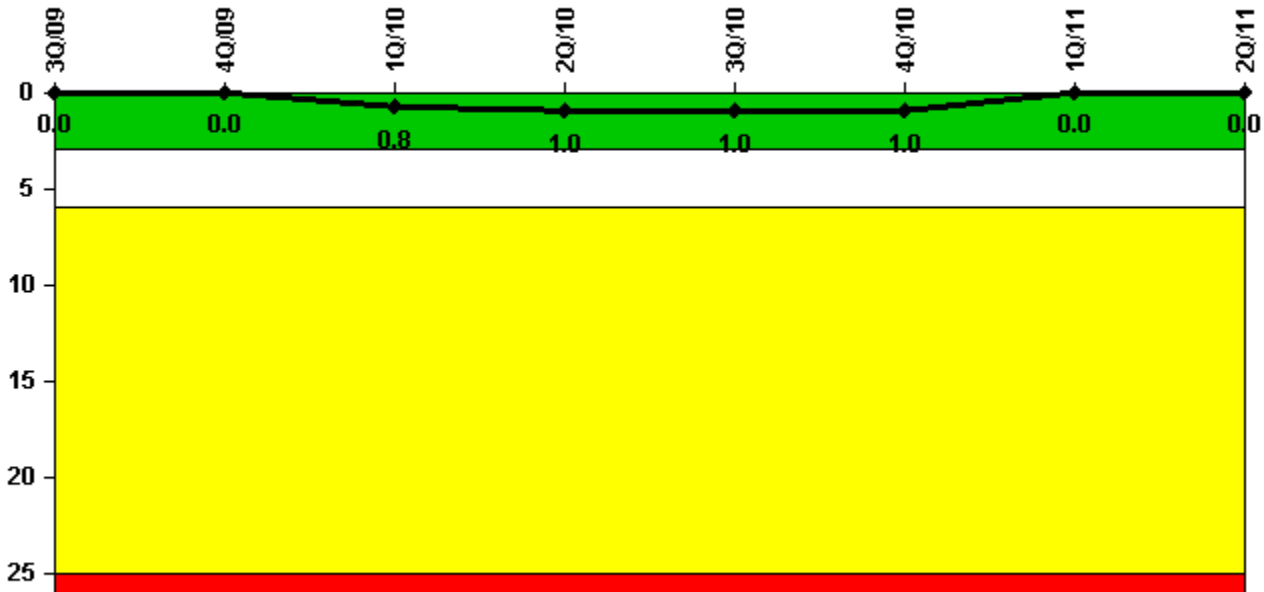


Palo Verde 1

2Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



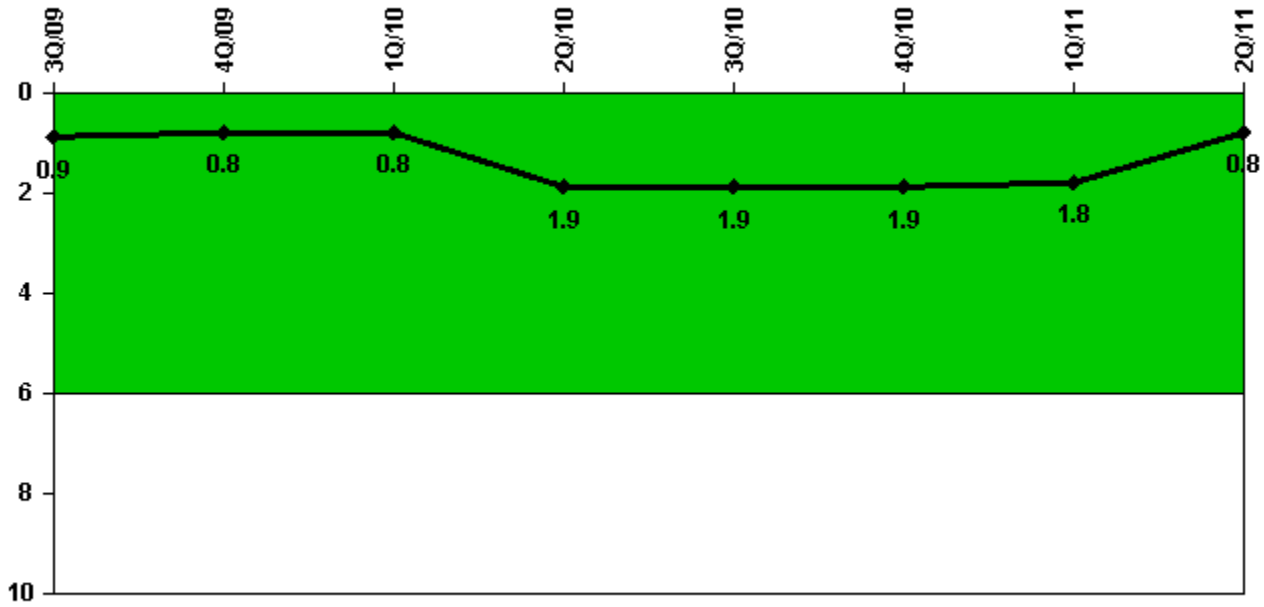
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	2208.0	1880.6	1006.6	2208.0	2208.0	2160.0	2184.0
Indicator value	0	0	0.8	1.0	1.0	1.0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	0	1.0	1.0	0	0	1.0	0
Critical hours	2208.0	2208.0	1880.6	1006.6	2208.0	2208.0	2160.0	2184.0
Indicator value	0.9	0.8	0.8	1.9	1.9	1.9	1.8	0.8

Licensee Comments: none

Unplanned Scrams with Complications



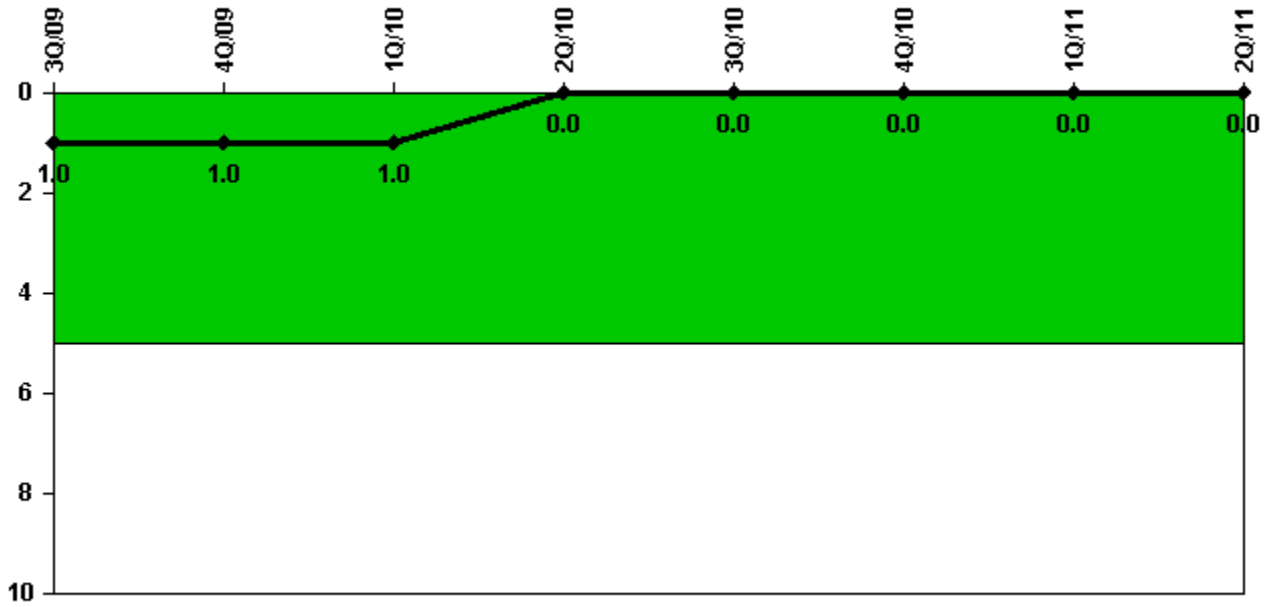
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
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 (PWR)



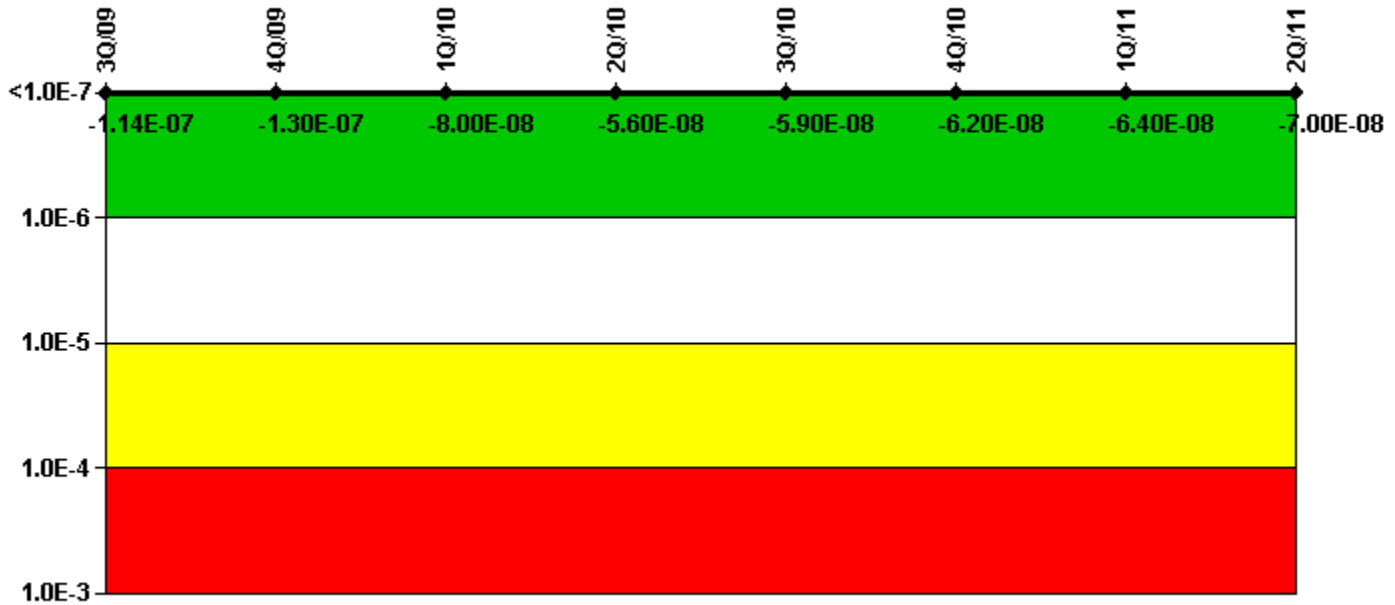
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	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

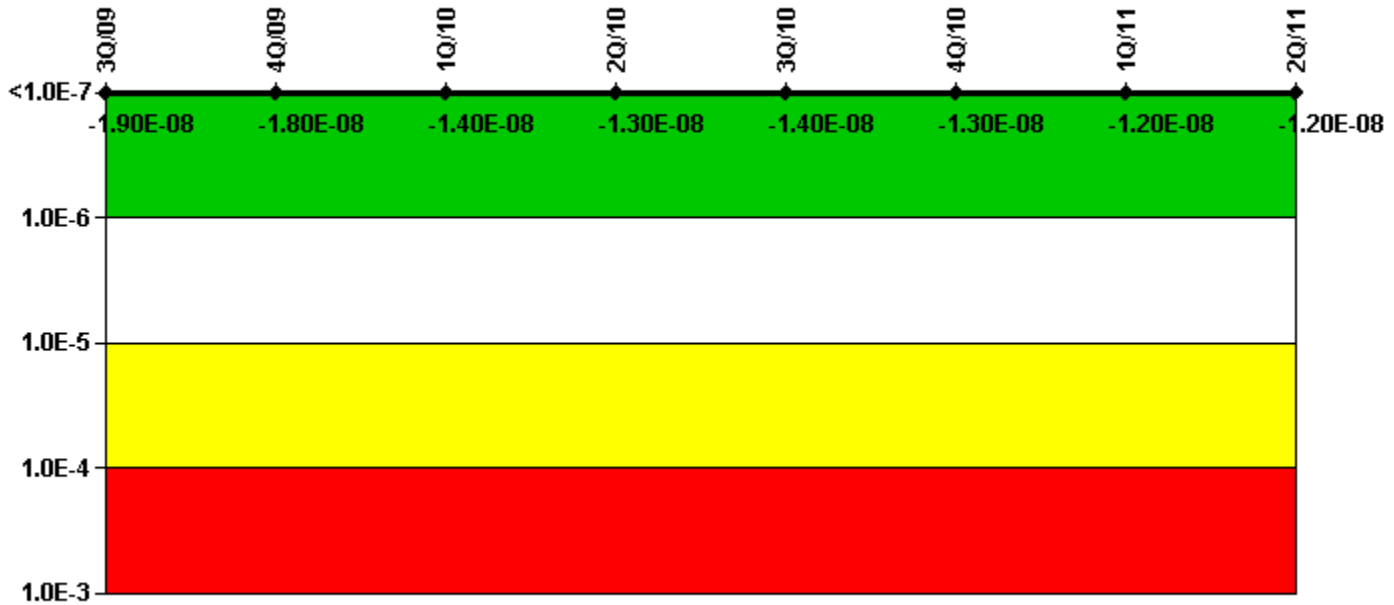
Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	5.60E-08	4.13E-08	2.92E-09	2.37E-09	5.24E-10	-2.07E-09	-3.28E-09	-4.11E-09
URI (Δ CDF)	-1.70E-07	-1.67E-07	-8.32E-08	-5.88E-08	-5.96E-08	-6.02E-08	-6.11E-08	-6.56E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.14E-07	-1.30E-07	-8.00E-08	-5.60E-08	-5.90E-08	-6.20E-08	-6.40E-08	-7.00E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). A PVNGS PRA Model was completed in January 2011 with a corresponding MSPI Basis Document revision in March 2011. The PRA model revision was a periodic update to the model. As a result of the PRA model change, the Core Damage Frequency and Fussel-Vesely for all monitored trains and components were revised in CDE.

Mitigating Systems Performance Index, High Pressure Injection System



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

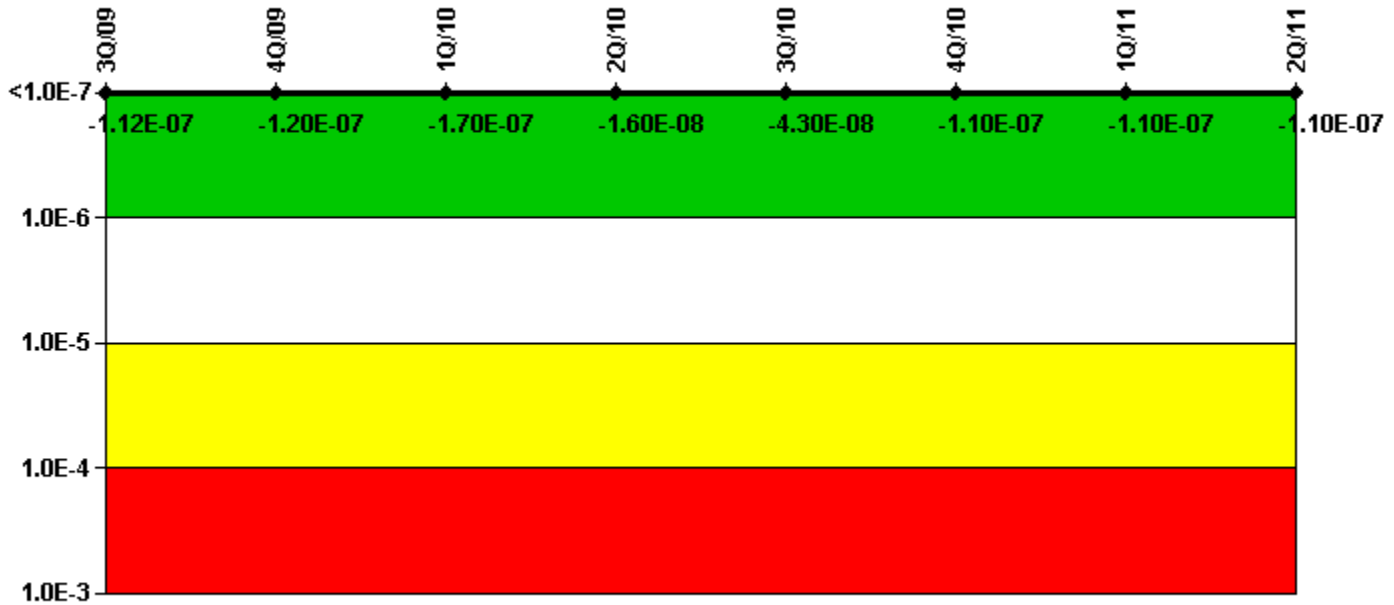
Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	3.82E-09	3.59E-09	-3.98E-10	6.78E-10	-4.64E-10	-2.79E-11	2.99E-10	-1.96E-10
URI (Δ CDF)	-2.24E-08	-2.20E-08	-1.40E-08	-1.34E-08	-1.32E-08	-1.29E-08	-1.26E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.80E-08	-1.40E-08	-1.30E-08	-1.40E-08	-1.30E-08	-1.20E-08	-1.20E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). A PVNGS PRA Model was completed in January 2011 with a corresponding MSPI Basis Document revision in March 2011. The PRA model revision was a periodic update to the model. As a result of the PRA model change, the Core Damage Frequency and Fussel-Vesely for all monitored trains and components were revised in CDE.

Mitigating Systems Performance Index, Heat Removal System



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

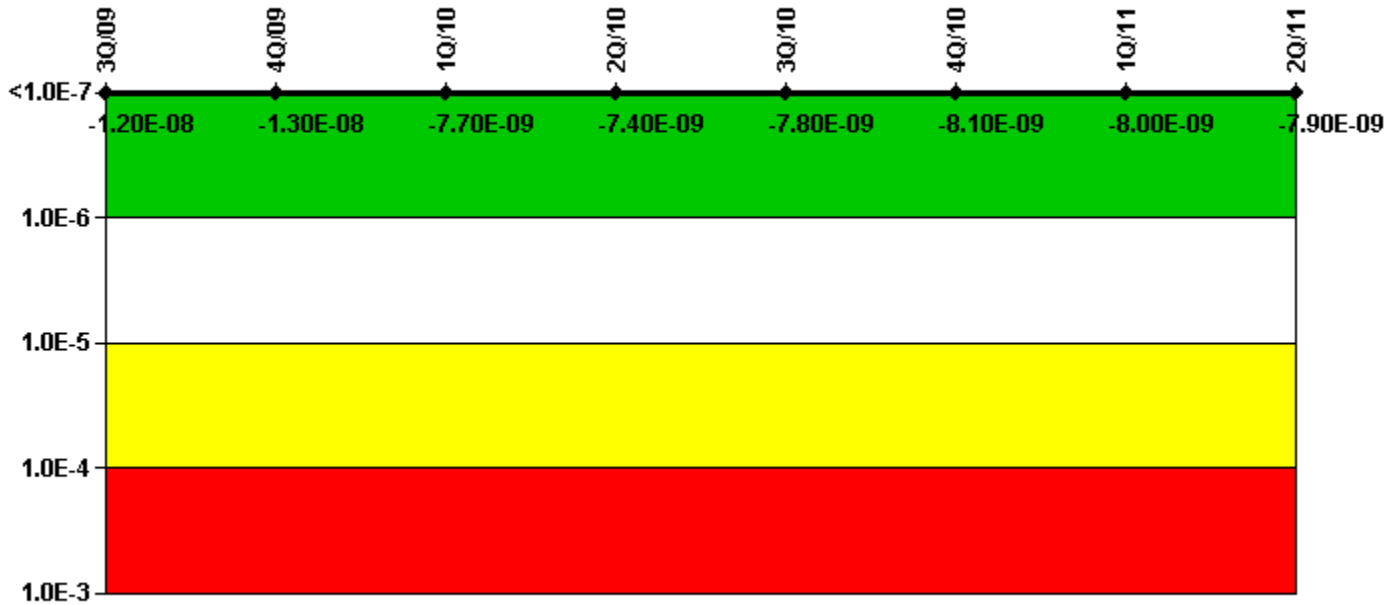
Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-1.40E-08	-1.71E-08	-2.45E-08	4.18E-08	1.65E-08	-4.89E-08	-4.89E-08	-4.84E-08
URI (Δ CDF)	-9.80E-08	-9.96E-08	-1.42E-07	-5.81E-08	-5.98E-08	-6.15E-08	-6.35E-08	-6.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.12E-07	-1.20E-07	-1.70E-07	-1.60E-08	-4.30E-08	-1.10E-07	-1.10E-07	-1.10E-07

Licensee Comments:

2Q/11: Changed PRA Parameter(s). A PVNGS PRA Model was completed in January 2011 with a corresponding MSPI Basis Document revision in March 2011. The PRA model revision was a periodic update to the model. As a result of the PRA model change, the Core Damage Frequency and Fussel-Vesely for all monitored trains and components were revised in CDE.

Mitigating Systems Performance Index, Residual Heat Removal System



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

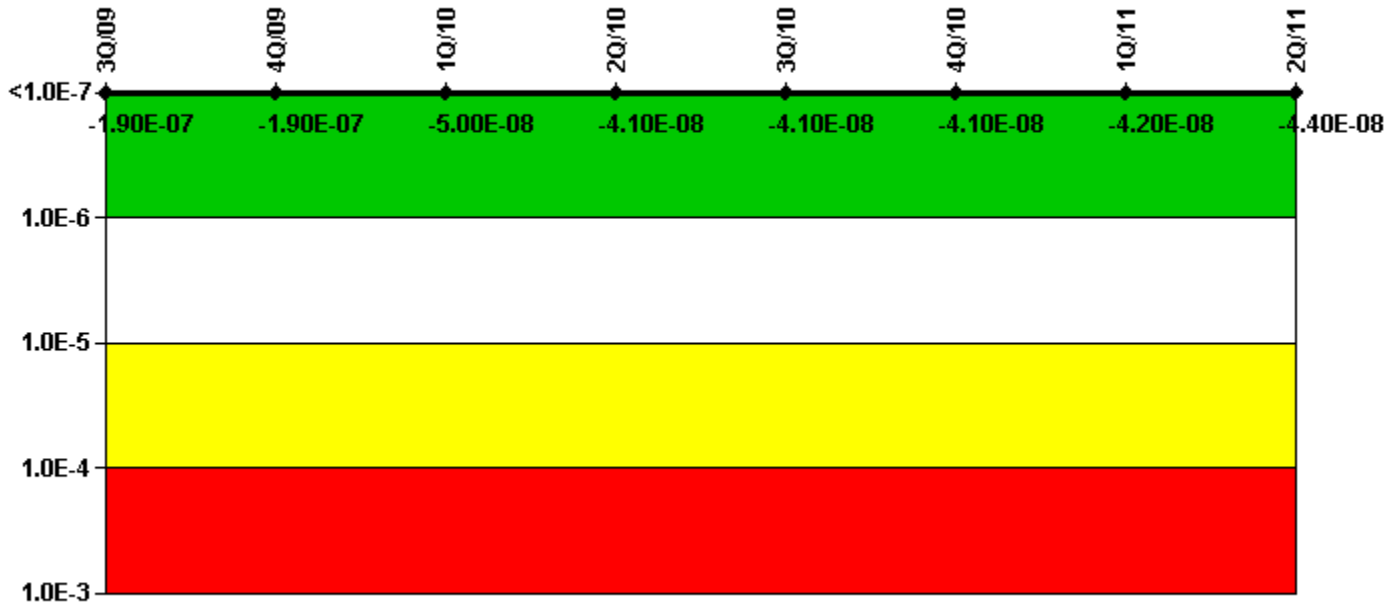
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	1.03E-08	9.83E-09	-5.24E-10	-4.94E-10	-1.04E-09	-1.45E-09	-1.45E-09	-1.46E-09
URI (Δ CDF)	-2.25E-08	-2.23E-08	-7.14E-09	-6.90E-09	-6.78E-09	-6.67E-09	-6.55E-09	-6.41E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-08	-1.30E-08	-7.70E-09	-7.40E-09	-7.80E-09	-8.10E-09	-8.00E-09	-7.90E-09

Licensee Comments:

2Q/11: Changed PRA Parameter(s). A PVNGS PRA Model was completed in January 2011 with a corresponding MSPI Basis Document revision in March 2011. The PRA model revision was a periodic update to the model. As a result of the PRA model change, the Core Damage Frequency and Fussel-Vesely for all monitored trains and components were revised in CDE.

Mitigating Systems Performance Index, Cooling Water Systems



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

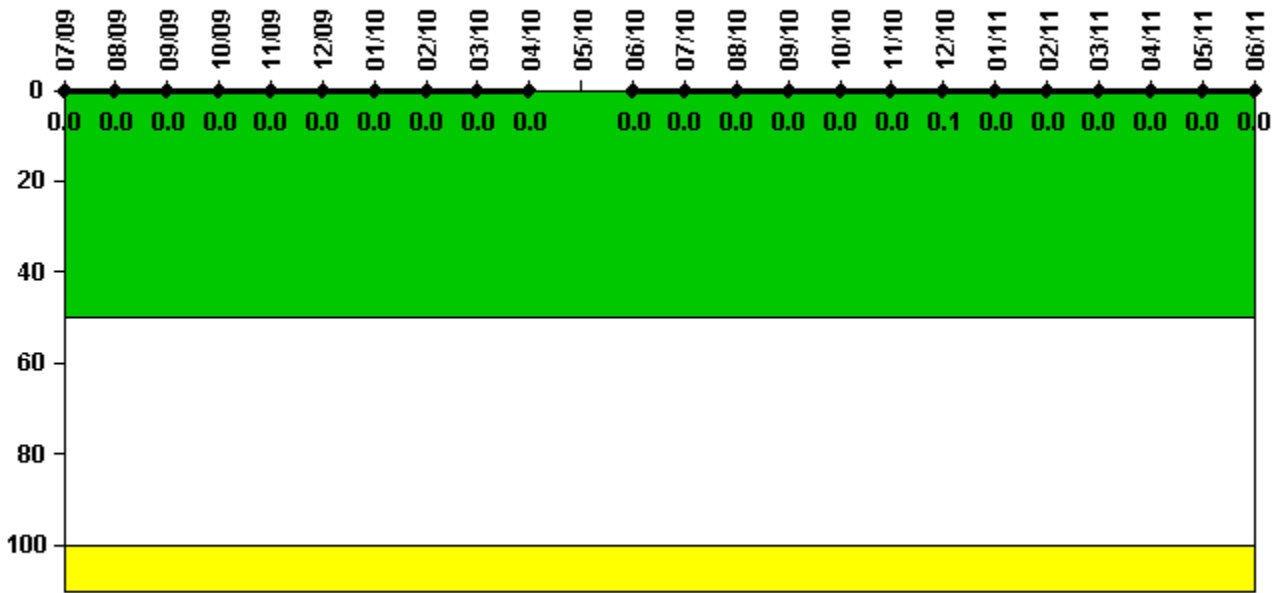
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-1.50E-11	-1.47E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-12	3.30E-11
URI (Δ CDF)	-1.90E-07	-1.94E-07	-4.99E-08	-4.06E-08	-4.09E-08	-4.13E-08	-4.17E-08	-4.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.90E-07	-5.00E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.20E-08	-4.40E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). A PVNGS PRA Model was completed in January 2011 with a corresponding MSPI Basis Document revision in March 2011. The PRA model revision was a periodic update to the model. As a result of the PRA model change, the Core Damage Frequency and Fussel-Vesely for all monitored trains and components were revised in CDE.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

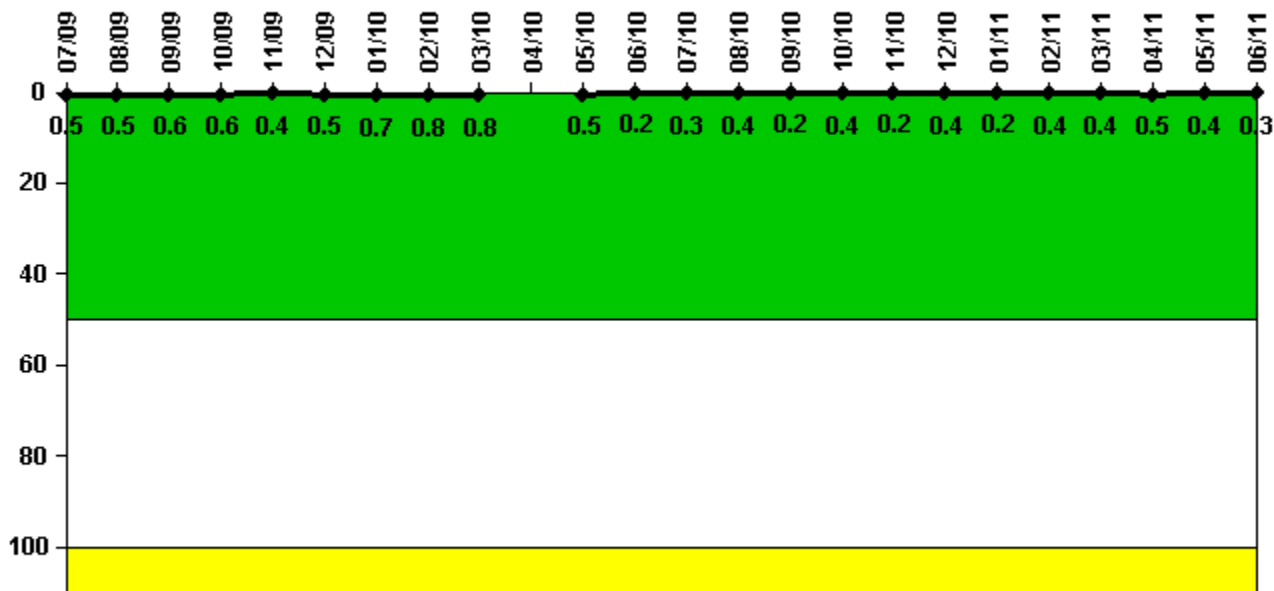
Notes

Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.000399	0.000313	0.000332	0.000340	0.000339	0.000344	0.000349	0.000370	0.000363	0.000332	N/A	0.000257
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	0	0	0	0	0	0	0	0	0	N/A	0

Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000294	0.000281	0.000267	0.000282	0.000289	0.000589	0.000300	0.000305	0.000318	0.000327	0.000452	0.000340
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	0	0	0	0	0.1	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



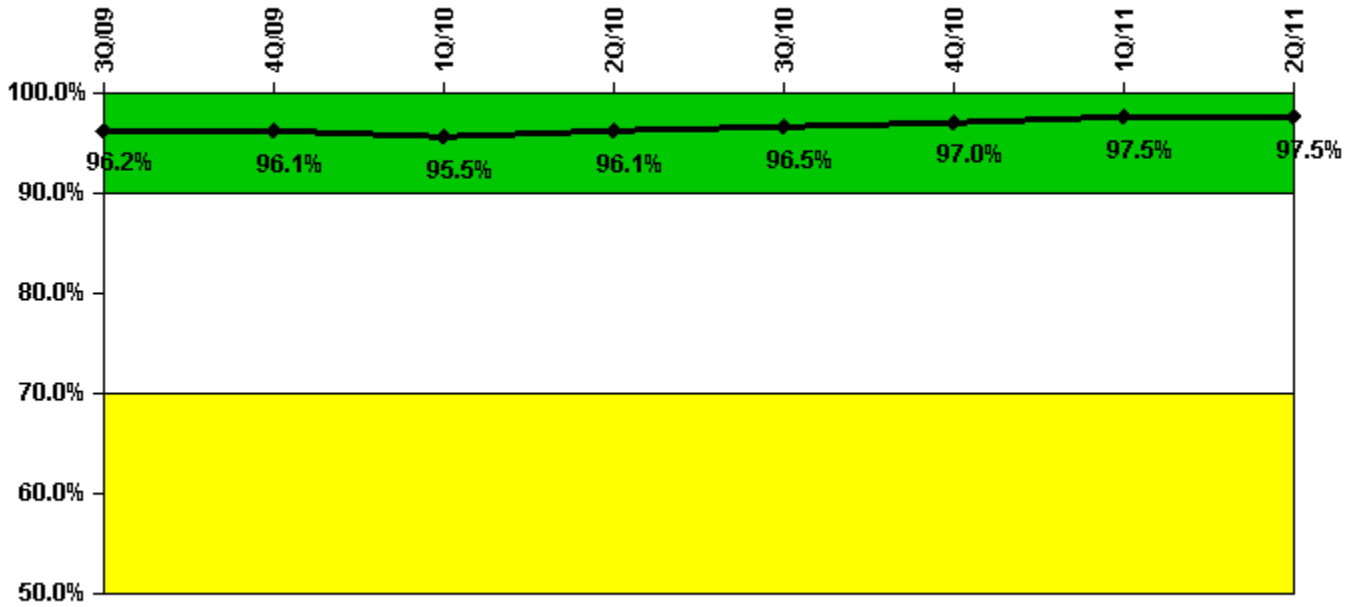
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.045	0.054	0.055	0.056	0.043	0.049	0.071	0.076	0.079	N/A	0.046	0.021
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	0.5	0.5	0.6	0.6	0.4	0.5	0.7	0.8	0.8	N/A	0.5	0.2
Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.027	0.036	0.019	0.035	0.018	0.041	0.017	0.035	0.037	0.054	0.038	0.033
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	0.4	0.2	0.4	0.2	0.4	0.2	0.4	0.4	0.5	0.4	0.3

Licensee Comments: none

Drill/Exercise Performance



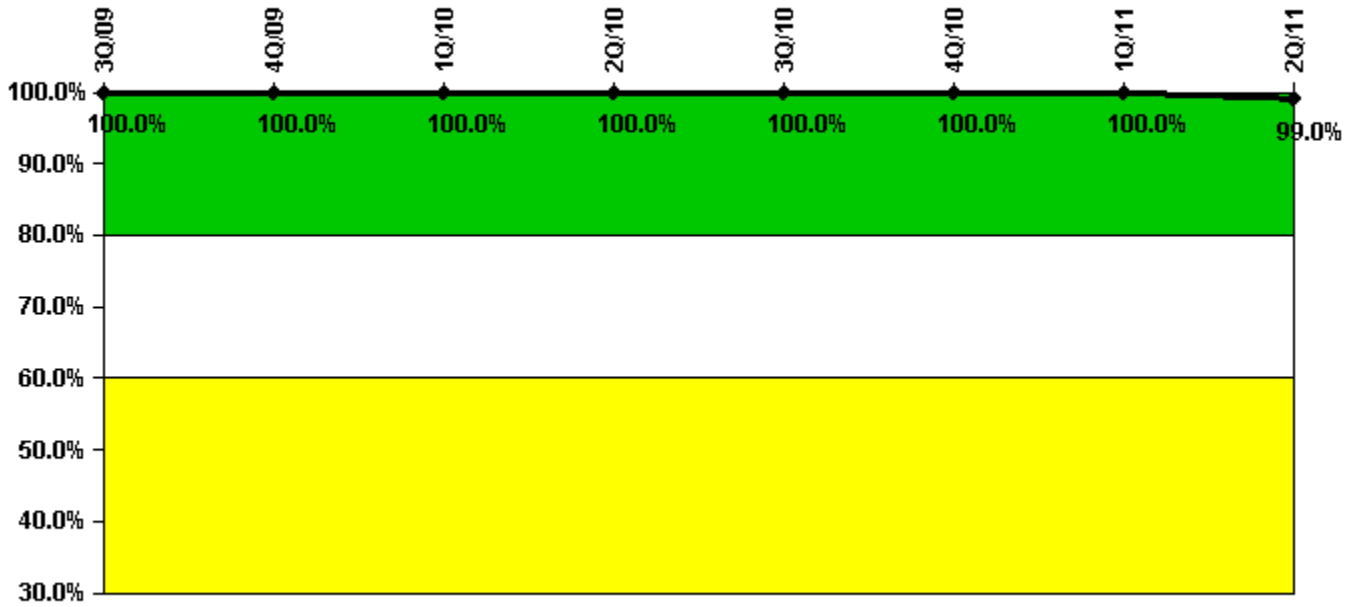
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	49.0	13.0	86.0	81.0	126.0	20.0	91.0	10.0
Total opportunities	50.0	14.0	90.0	84.0	127.0	20.0	93.0	10.0
Indicator value	96.2%	96.1%	95.5%	96.1%	96.5%	97.0%	97.5%	97.5%

Licensee Comments: none

ERO Drill Participation



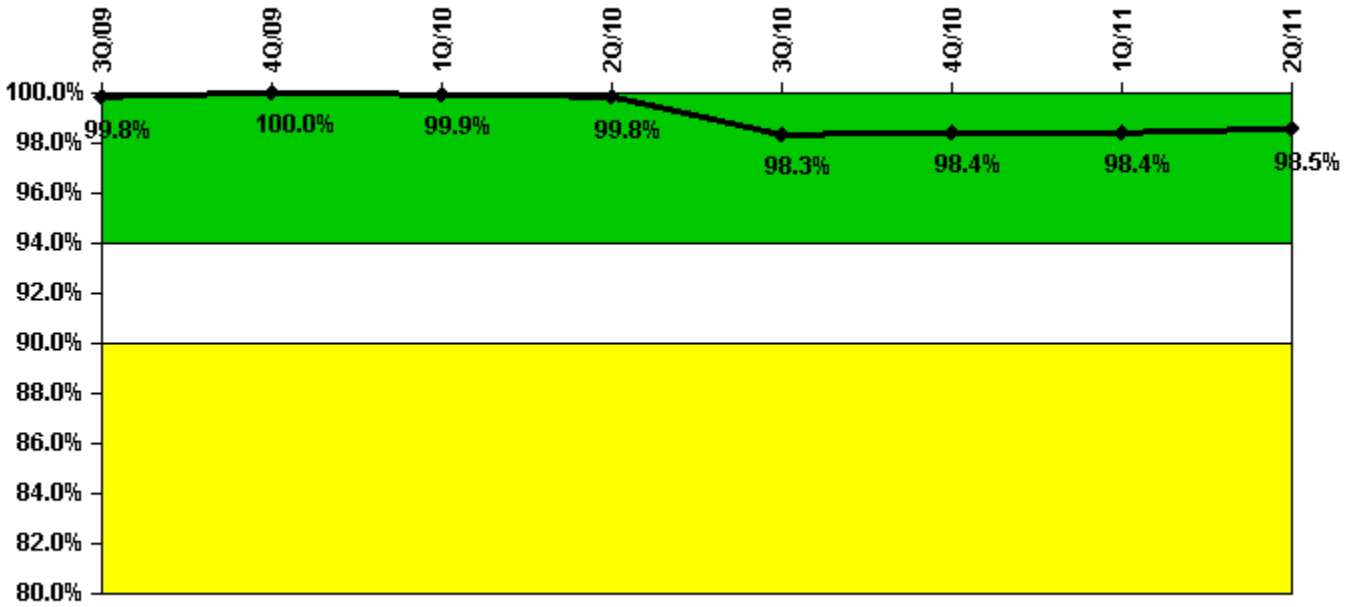
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	95.0	92.0	97.0	102.0	97.0	101.0	92.0	95.0
Total Key personnel	95.0	92.0	97.0	102.0	97.0	101.0	92.0	96.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	296	333	911	909	864	1000	912	912
Total sirens-tests	296	333	912	912	912	1008	912	912
Indicator value	99.8%	100.0%	99.9%	99.8%	98.3%	98.4%	98.4%	98.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
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.