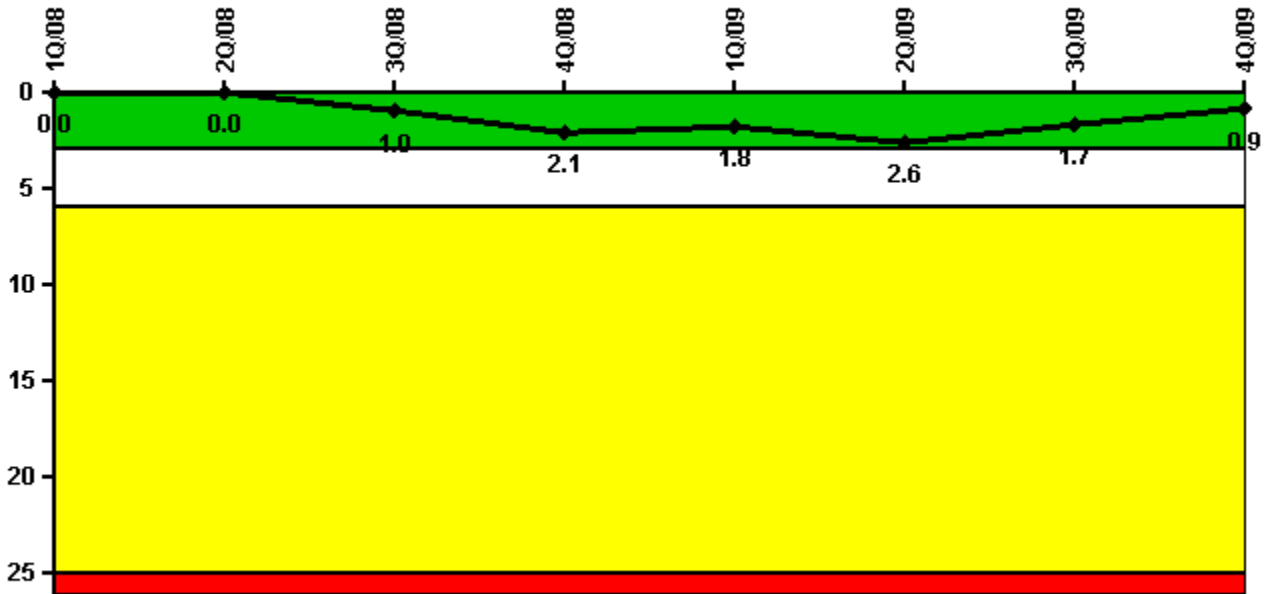


Diablo Canyon 2

4Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



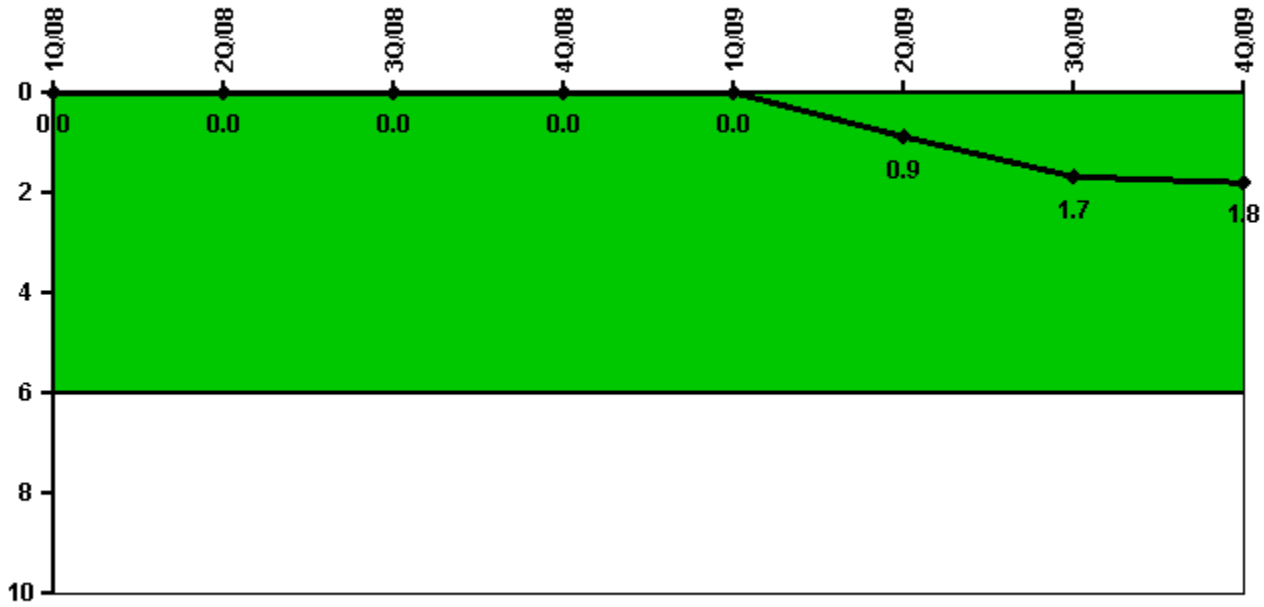
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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 | 1.0 | 1.0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 804.0 | 1930.3 | 1731.7 | 2158.7 | 2159.0 | 2175.9 | 1956.3 | 1317.5 |
| Indicator value | 0 | 0 | 1.0 | 2.1 | 1.8 | 2.6 | 1.7 | 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/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 |
|-----------------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 1.0 | 1.0 | 0 |
| Critical hours | 804.0 | 1930.3 | 1731.7 | 2158.7 | 2159.0 | 2175.9 | 1956.3 | 1317.5 |
| Indicator value | 0 | 0 | 0 | 0 | 0 | 0.9 | 1.7 | 1.8 |

Licensee Comments: none

Unplanned Scrams with Complications



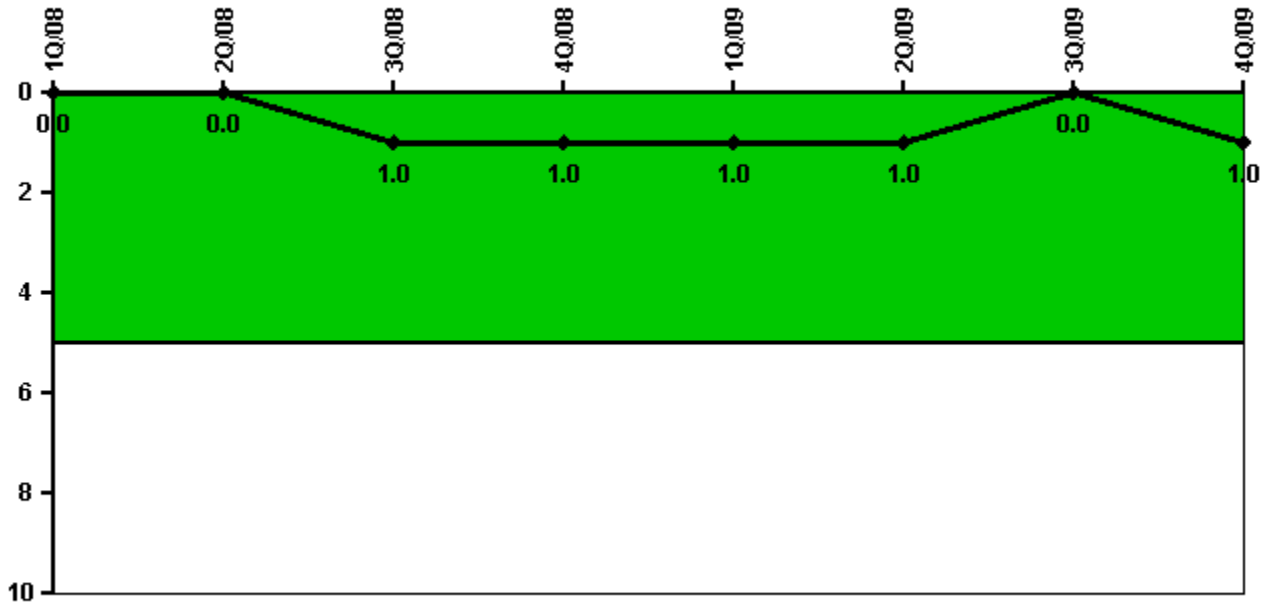
Thresholds: White > 1.0

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 (PWR)



Thresholds: White > 5.0

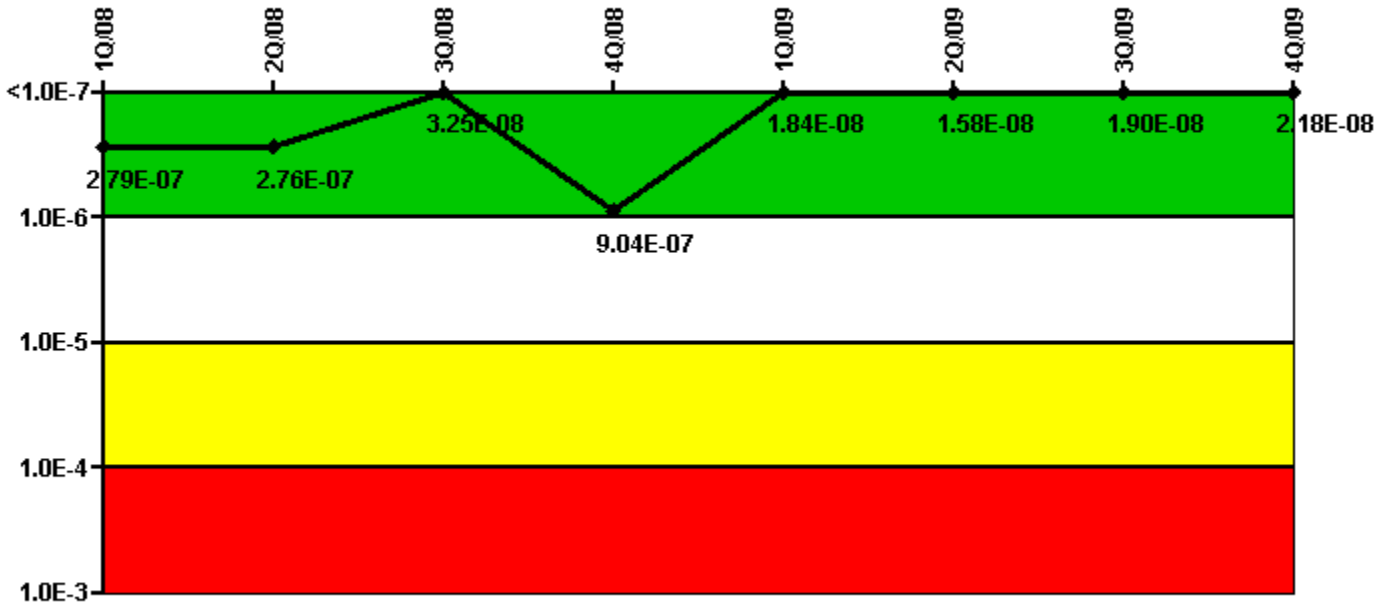
Notes

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

Licensee Comments:

4Q/09: Reference LER 2-2009-003-00 submitted via DCL-09-094

Mitigating Systems Performance Index, Emergency AC Power System



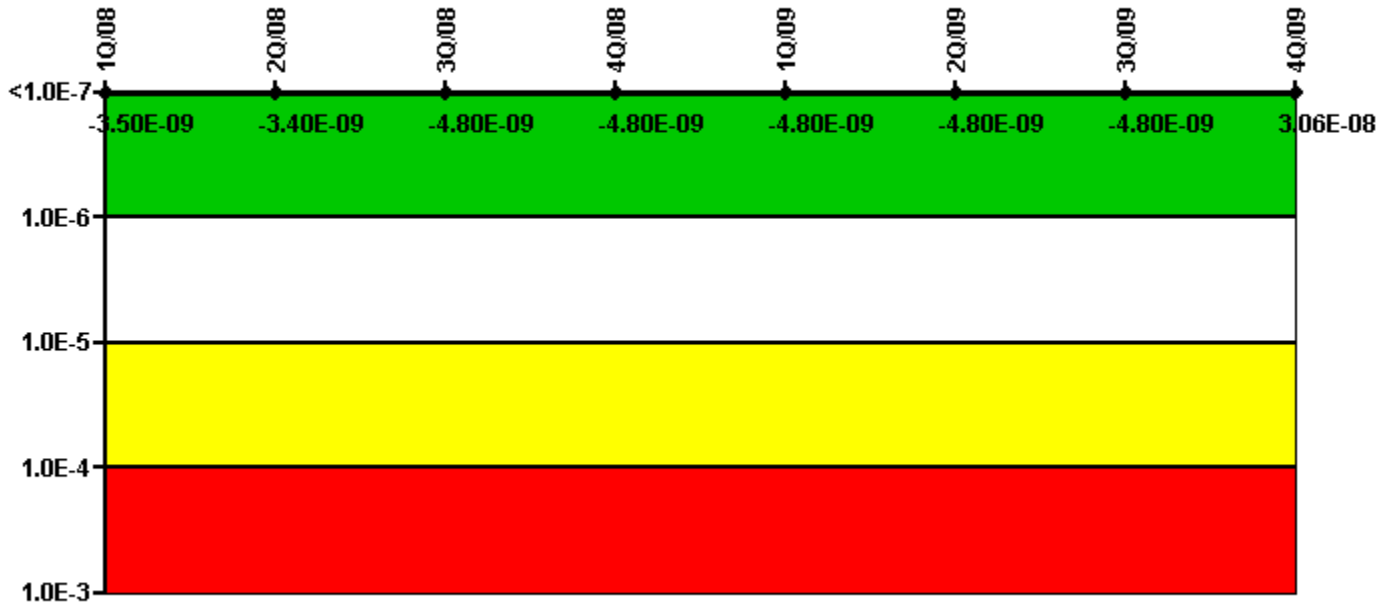
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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) | 9.40E-09 | 5.50E-09 | 3.50E-09 | 1.40E-08 | -3.60E-09 | -6.20E-09 | -3.00E-09 | -2.20E-10 |
| URI (Δ CDF) | 2.70E-07 | 2.70E-07 | 2.90E-08 | 8.90E-07 | 2.20E-08 | 2.20E-08 | 2.20E-08 | 2.20E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | 2.79E-07 | 2.76E-07 | 3.25E-08 | 9.04E-07 | 1.84E-08 | 1.58E-08 | 1.90E-08 | 2.18E-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

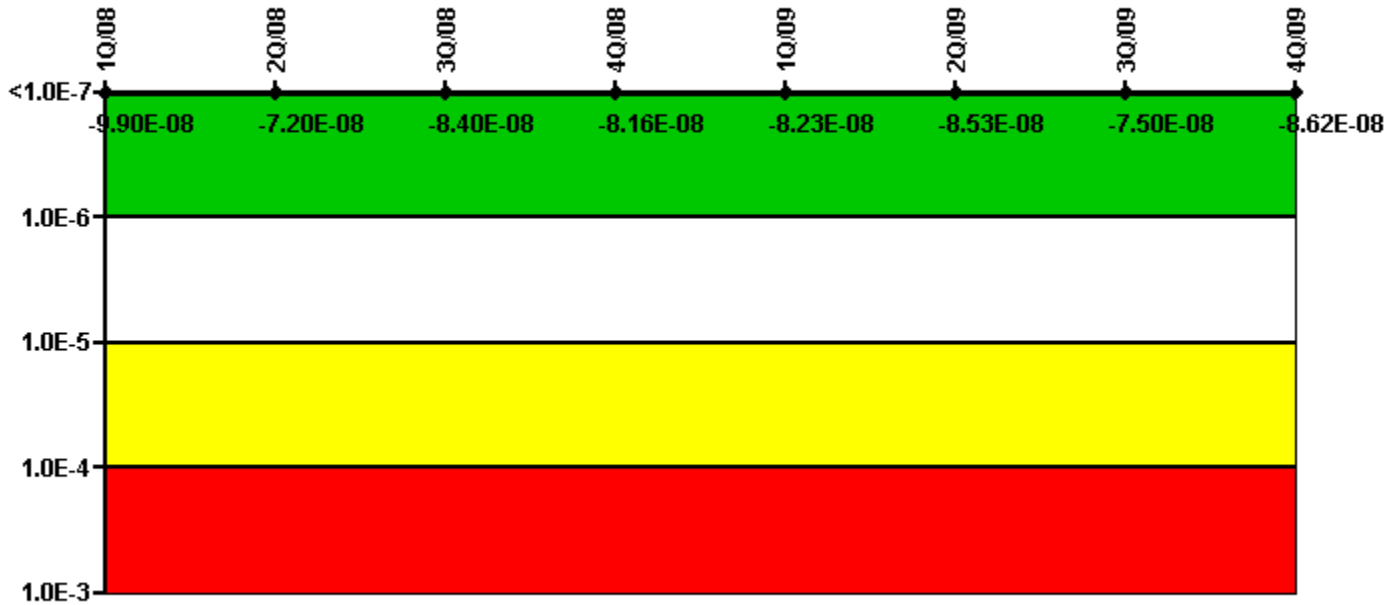
Notes

| Mitigating Systems Performance Index, High Pressure Injection System | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 |
|----------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UAI (Δ CDF) | -2.10E-09 | -2.00E-09 | -3.40E-09 | -3.40E-09 | -3.40E-09 | -3.40E-09 | -3.40E-09 | -3.40E-09 |
| URI (Δ CDF) | -1.40E-09 | -1.40E-09 | -1.40E-09 | -1.40E-09 | -1.40E-09 | -1.40E-09 | -1.40E-09 | 3.40E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -3.50E-09 | -3.40E-09 | -4.80E-09 | -4.80E-09 | -4.80E-09 | -4.80E-09 | -4.80E-09 | 3.06E-08 |

Licensee Comments:

4Q/09: Changed the estimated demands and run hours of Centrifugal Charging Pumps (CCP) 2-1 and 2-2. When the original estimate was performed these two pumps were each run about half an operating cycle. Since the replacement of the Positive Displacement Pump 2-3 with a centrifugal pump, CCP 2-1 and CCP 2-2 are only run occasionally. The change in run hours meets the > 25% change criteria for submittal.

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) | -1.50E-08 | 1.20E-08 | 4.00E-09 | 7.40E-09 | 6.70E-09 | 3.70E-09 | 1.40E-08 | 2.80E-09 |
| URI (Δ CDF) | -8.40E-08 | -8.40E-08 | -8.80E-08 | -8.90E-08 | -8.90E-08 | -8.90E-08 | -8.90E-08 | -8.90E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -9.90E-08 | -7.20E-08 | -8.40E-08 | -8.16E-08 | -8.23E-08 | -8.53E-08 | -7.50E-08 | -8.62E-08 |

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



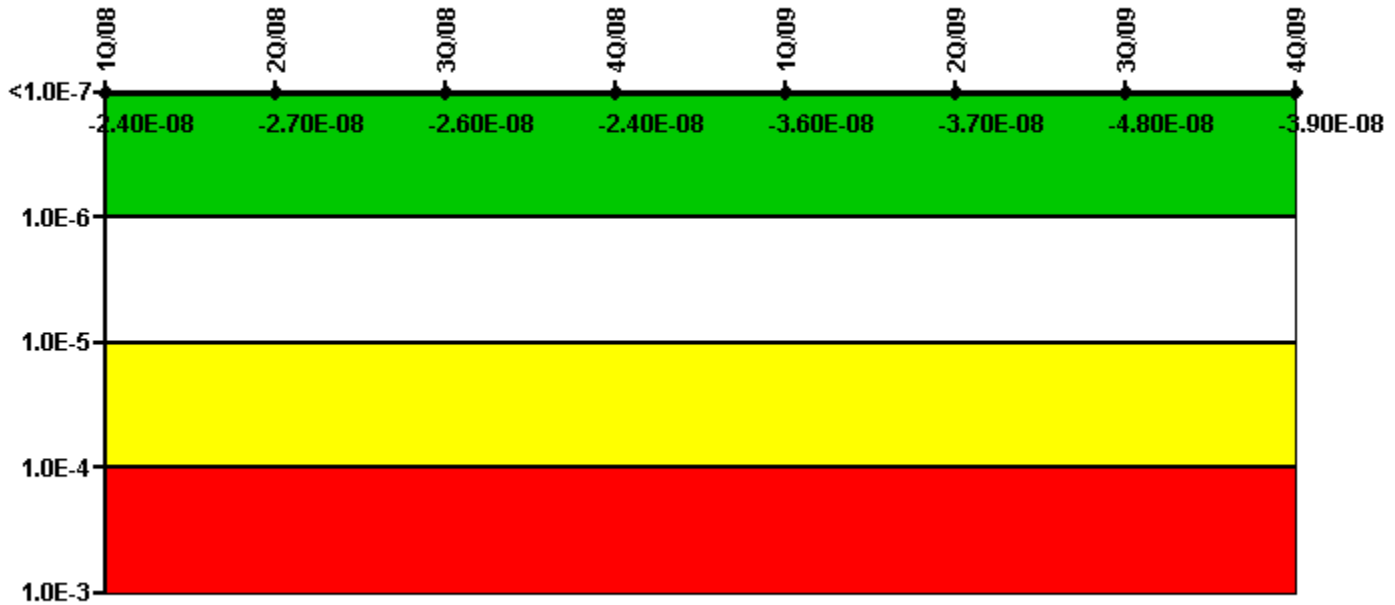
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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) | 1.10E-09 | -2.80E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 |
| URI (Δ CDF) | -2.50E-08 | -2.50E-08 | -2.50E-08 | -2.50E-08 | -2.50E-08 | -2.50E-08 | -2.50E-08 | -2.50E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -2.39E-08 | -2.78E-08 | -3.09E-08 | -3.09E-08 | -3.09E-08 | -3.09E-08 | -3.09E-08 | -3.09E-08 |

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



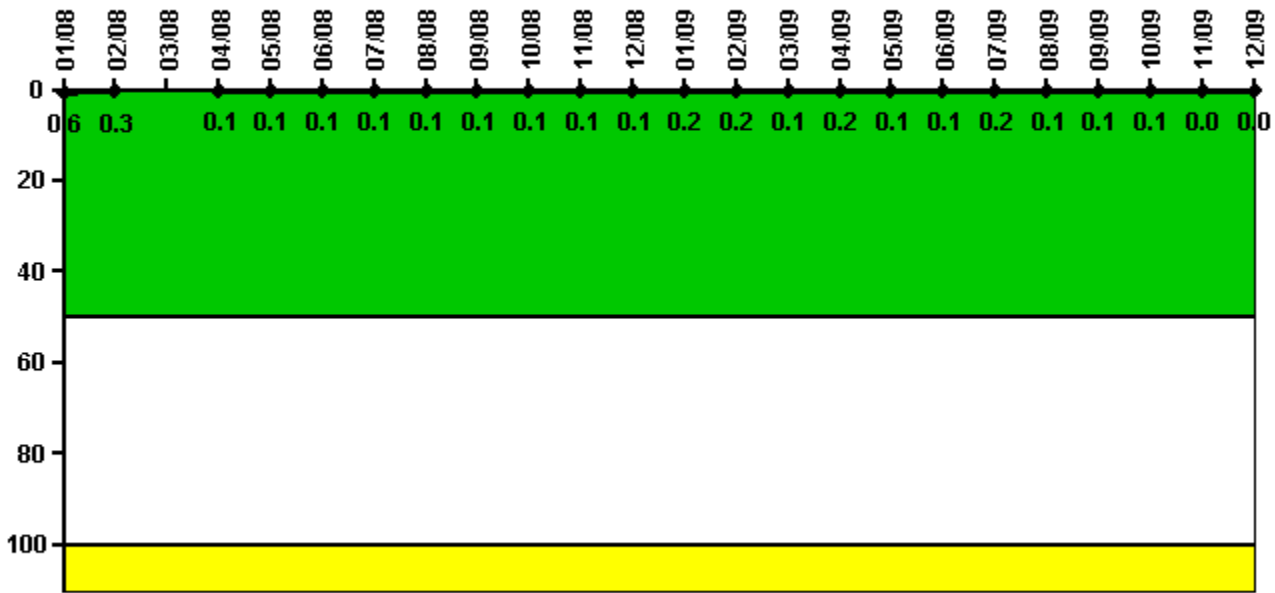
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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) | -1.40E-08 | -1.70E-08 | -1.60E-08 | -1.40E-08 | -1.60E-08 | -1.70E-08 | -2.80E-08 | -1.90E-08 |
| URI (Δ CDF) | -1.00E-08 | -1.00E-08 | -1.00E-08 | -1.00E-08 | -2.00E-08 | -2.00E-08 | -2.00E-08 | -2.00E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| Indicator value | -2.40E-08 | -2.70E-08 | -2.60E-08 | -2.40E-08 | -3.60E-08 | -3.70E-08 | -4.80E-08 | -3.90E-08 |

Licensee Comments: none

Reactor Coolant System Activity



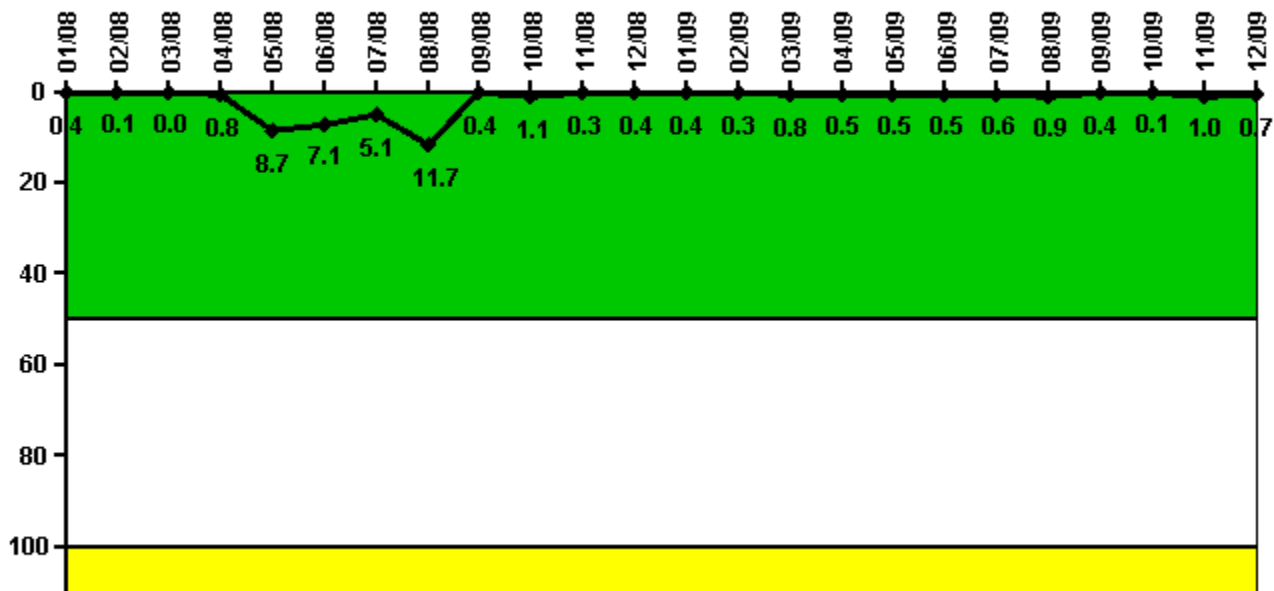
Thresholds: White > 50.0 Yellow > 100.0

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 | 0.005770 | 0.003350 | N/A | 0.000626 | 0.000837 | 0.000944 | 0.001080 | 0.001190 | 0.001240 | 0.001180 | 0.001390 | 0.001330 |
| 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 | 0.6 | 0.3 | N/A | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 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 | 0.001650 | 0.001570 | 0.001460 | 0.001630 | 0.001430 | 0.001480 | 0.001650 | 0.001330 | 0.001230 | 0.001130 | 0.000309 | 0.000461 |
| 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 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0 | 0 |

Licensee Comments: none

Reactor Coolant System Leakage



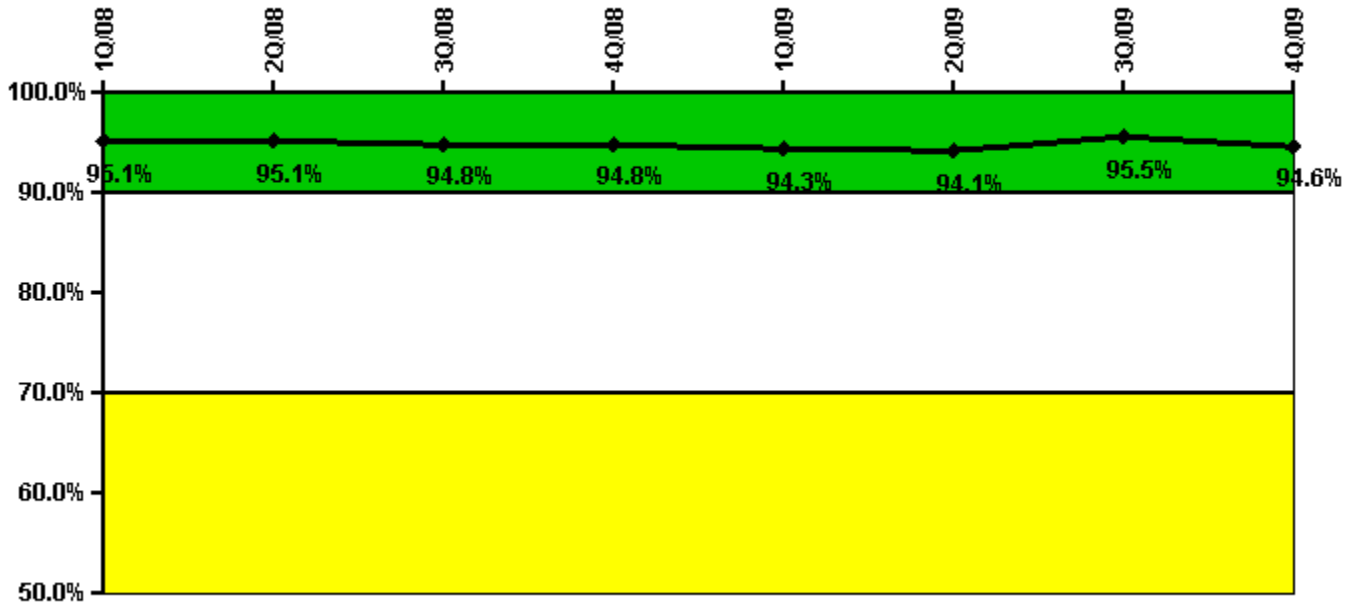
Thresholds: White > 50.0 Yellow > 100.0

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 | 0.044 | 0.008 | 0 | 0.077 | 0.868 | 0.709 | 0.513 | 1.170 | 0.040 | 0.111 | 0.030 | 0.040 |
| 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 | 0.4 | 0.1 | 0 | 0.8 | 8.7 | 7.1 | 5.1 | 11.7 | 0.4 | 1.1 | 0.3 | 0.4 |
| 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 | 0.044 | 0.033 | 0.076 | 0.046 | 0.047 | 0.047 | 0.059 | 0.090 | 0.037 | 0.014 | 0.099 | 0.065 |
| 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 | 0.4 | 0.3 | 0.8 | 0.5 | 0.5 | 0.5 | 0.6 | 0.9 | 0.4 | 0.1 | 1.0 | 0.7 |

Licensee Comments: none

Drill/Exercise Performance



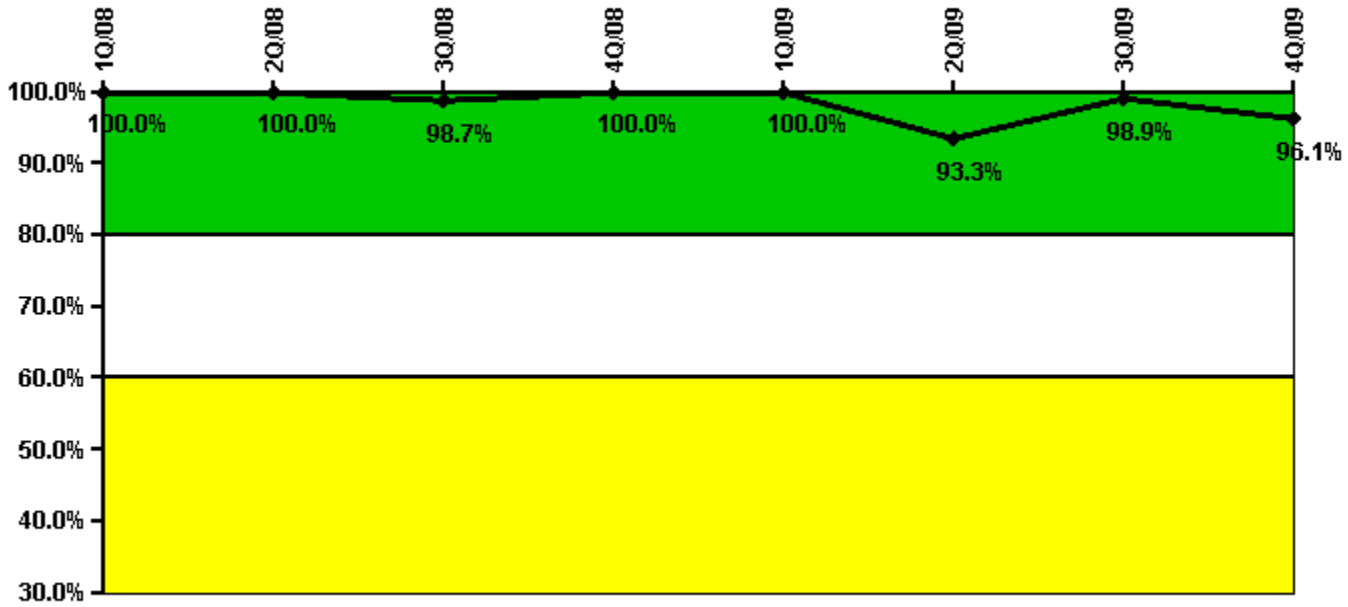
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Successful opportunities | 17.0 | 53.0 | 52.0 | 47.0 | 13.0 | 53.0 | 61.0 | 40.0 |
| Total opportunities | 18.0 | 56.0 | 57.0 | 52.0 | 14.0 | 55.0 | 62.0 | 41.0 |
| | | | | | | | | |
| Indicator value | 95.1% | 95.1% | 94.8% | 94.8% | 94.3% | 94.1% | 95.5% | 94.6% |

Licensee Comments: none

ERO Drill Participation



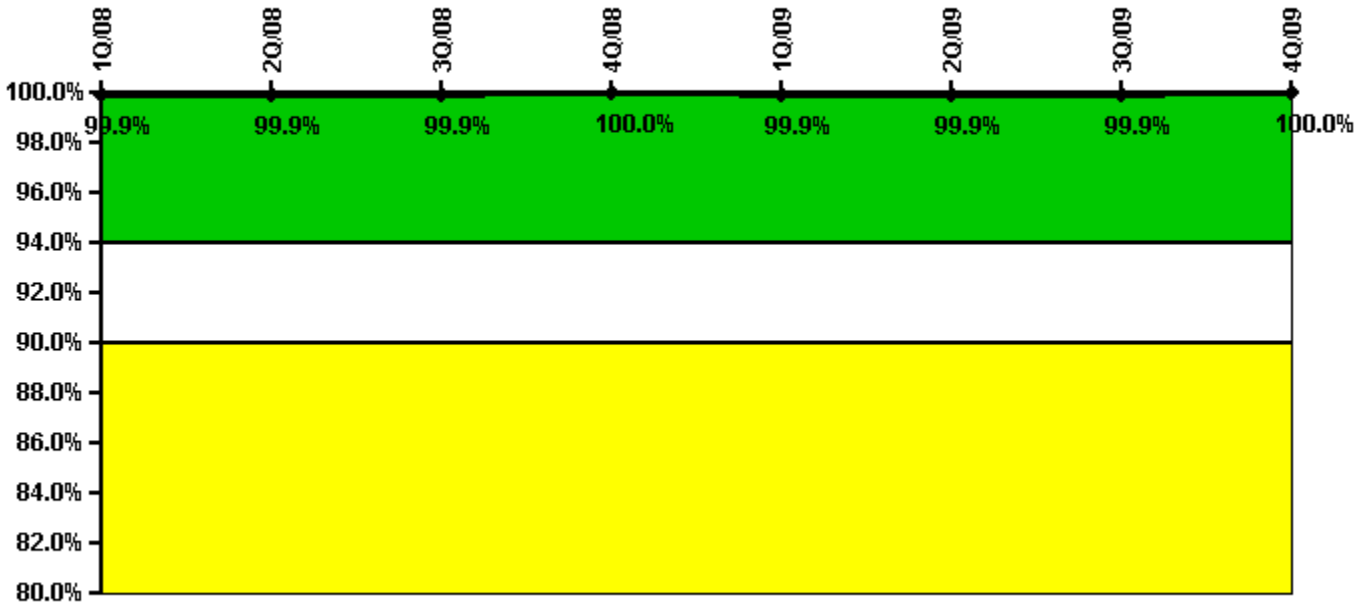
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 |
|-----------------------------|--------|--------|-------|--------|--------|-------|-------|-------|
| Participating Key personnel | 71.0 | 75.0 | 75.0 | 79.0 | 70.0 | 83.0 | 92.0 | 98.0 |
| Total Key personnel | 71.0 | 75.0 | 76.0 | 79.0 | 70.0 | 89.0 | 93.0 | 102.0 |
| | | | | | | | | |
| Indicator value | 100.0% | 100.0% | 98.7% | 100.0% | 100.0% | 93.3% | 98.9% | 96.1% |

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 | 1048 | 916 | 1310 | 1047 | 1047 | 916 | 1310 | 916 |
| Total sirens-tests | 1048 | 917 | 1310 | 1048 | 1048 | 917 | 1310 | 916 |
| Indicator value | 99.9% | 99.9% | 99.9% | 100.0% | 99.9% | 99.9% | 99.9% | 100.0% |

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.