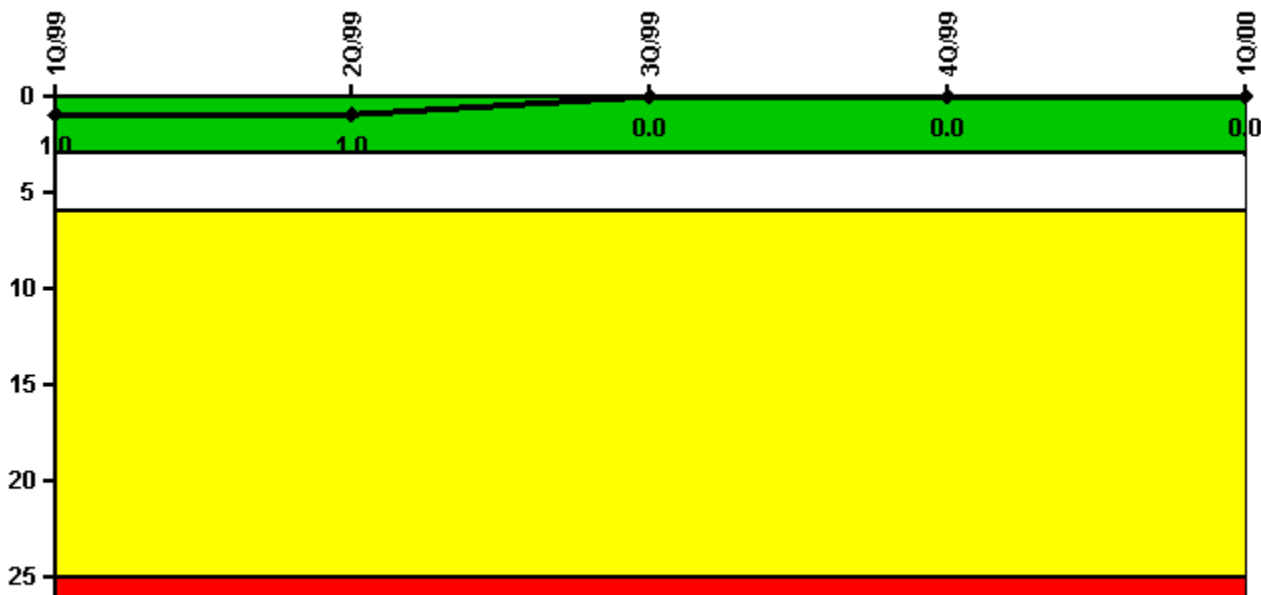


San Onofre 2

1Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



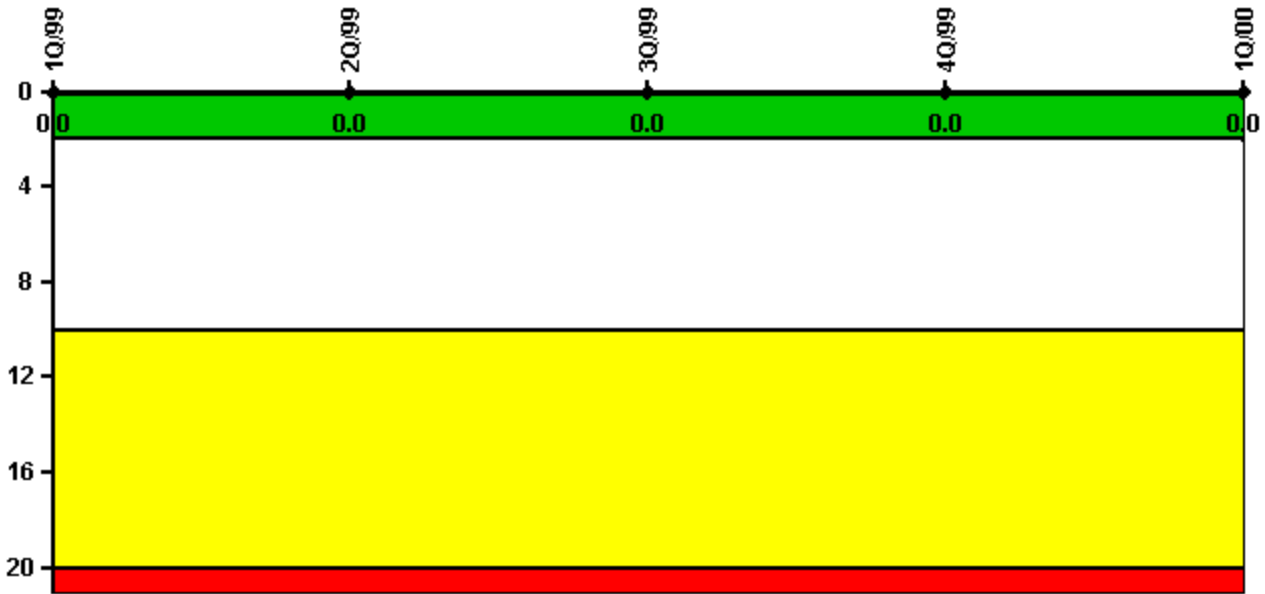
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|--|------------|------------|----------|----------|----------|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 905.4 | 2183.0 | 2208.0 | 2209.0 | 2184.0 |
| | | | | | |
| Indicator value | 1.0 | 1.0 | 0 | 0 | 0 |

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



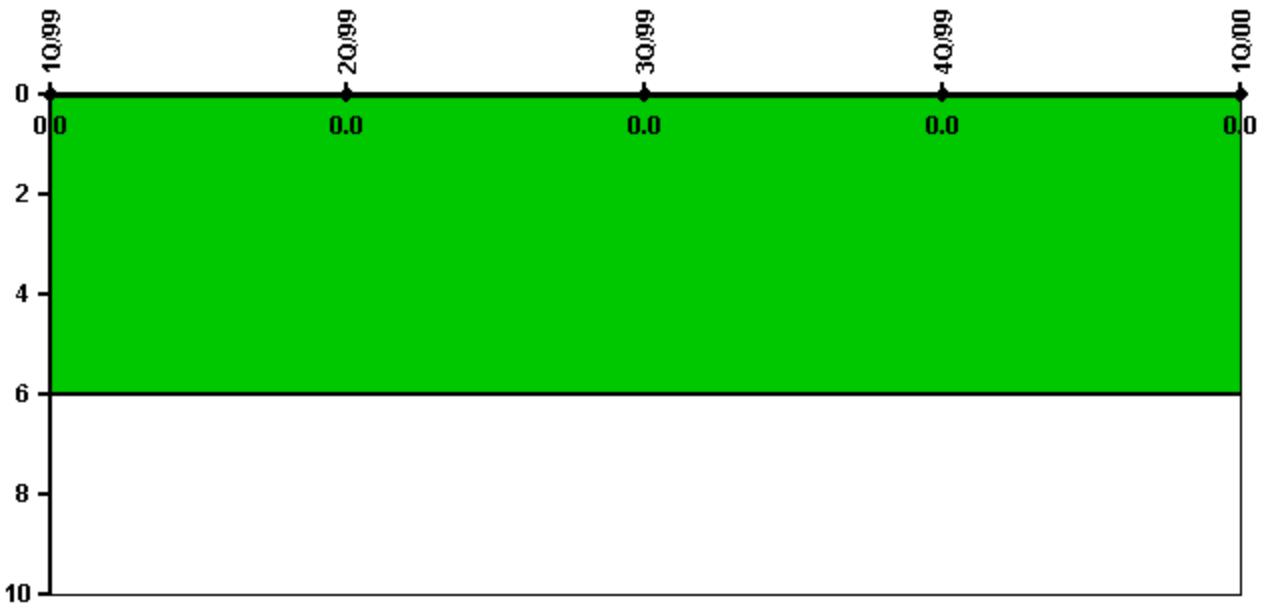
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

| Scrams with Loss of Normal Heat Removal | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|---|-------|-------|-------|-------|-------|
| Scrams | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



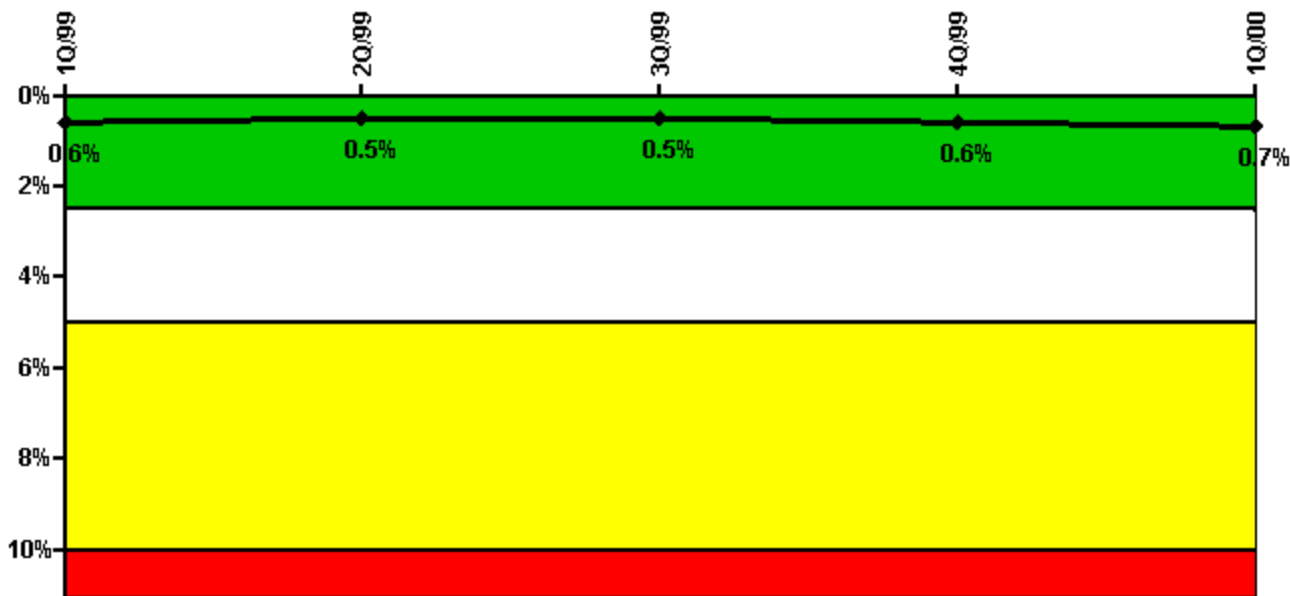
Thresholds: White > 6.0

Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|---|----------|----------|----------|----------|----------|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 905.4 | 2183.0 | 2208.0 | 2209.0 | 2184.0 |
| | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

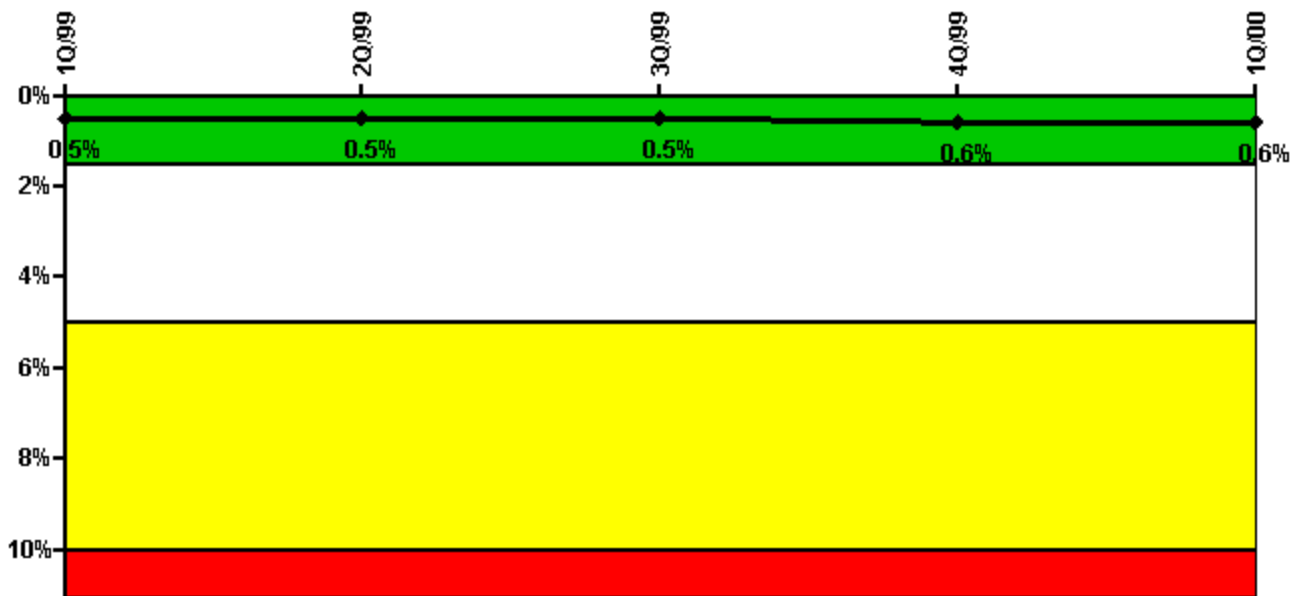
Notes

| Safety System Unavailability, Emergency AC Power | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|--|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | |
| Planned unavailable hours | 19.70 | 7.70 | 1.30 | 28.30 | 1.40 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| Train 2 | | | | | |
| Planned unavailable hours | 69.70 | 5.20 | 0 | 0 | 40.60 |
| Unplanned unavailable hours | 0 | 0 | 0 | 5.50 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| Indicator value | 0.6% | 0.5% | 0.5% | 0.6% | 0.7% |

Licensee Comments:

4Q/99: Reflects data submitted to WANO 4Q99 Train 1 Planned Unavailability was revised to remove 183.3 hours associated with planned overhaul maintenance within approved Technical Specification Allowed Outage Time in accordance with NEI 99-02, Rev. 0, page 27, newly added line 2 through 7, dated 28 March 2000.

Safety System Unavailability, High Pressure Injection System (HPSI)



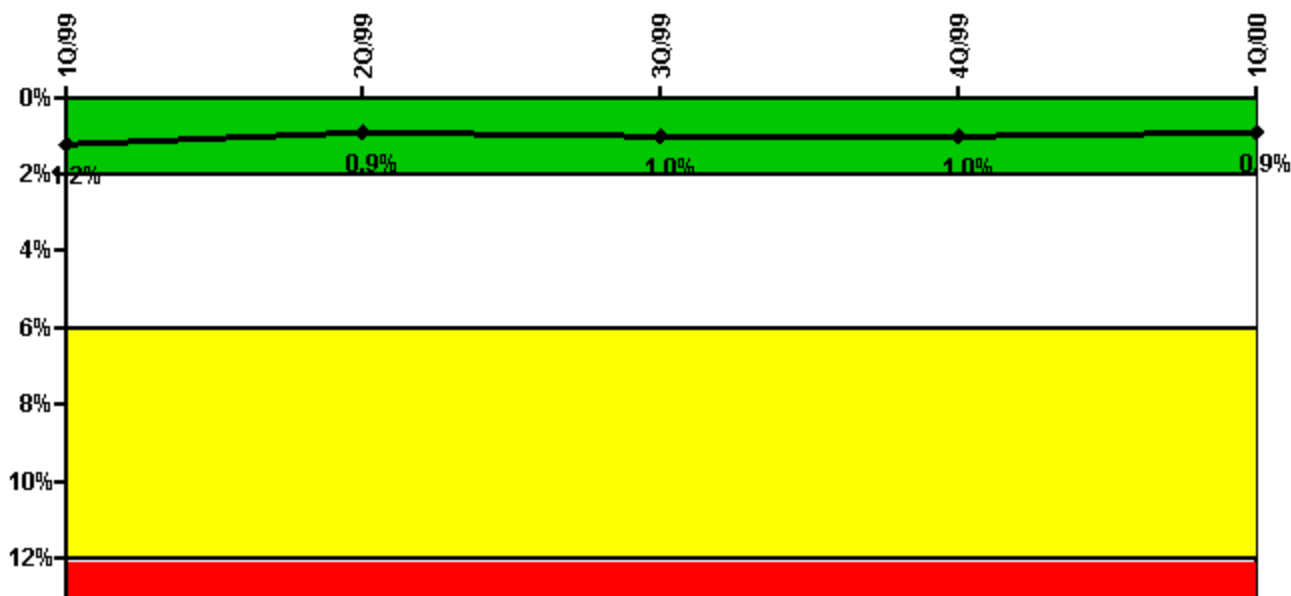
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, High Pressure Injection System (HPSI) | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|---|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 11.80 | 6.70 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 12.80 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 905.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| Train 2 | | | | | |
| Planned unavailable hours | 0 | 0 | 1.20 | 14.20 | 8.70 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 905.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| | | | | | |
| Indicator value | 0.5% | 0.5% | 0.5% | 0.6% | 0.6% |

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



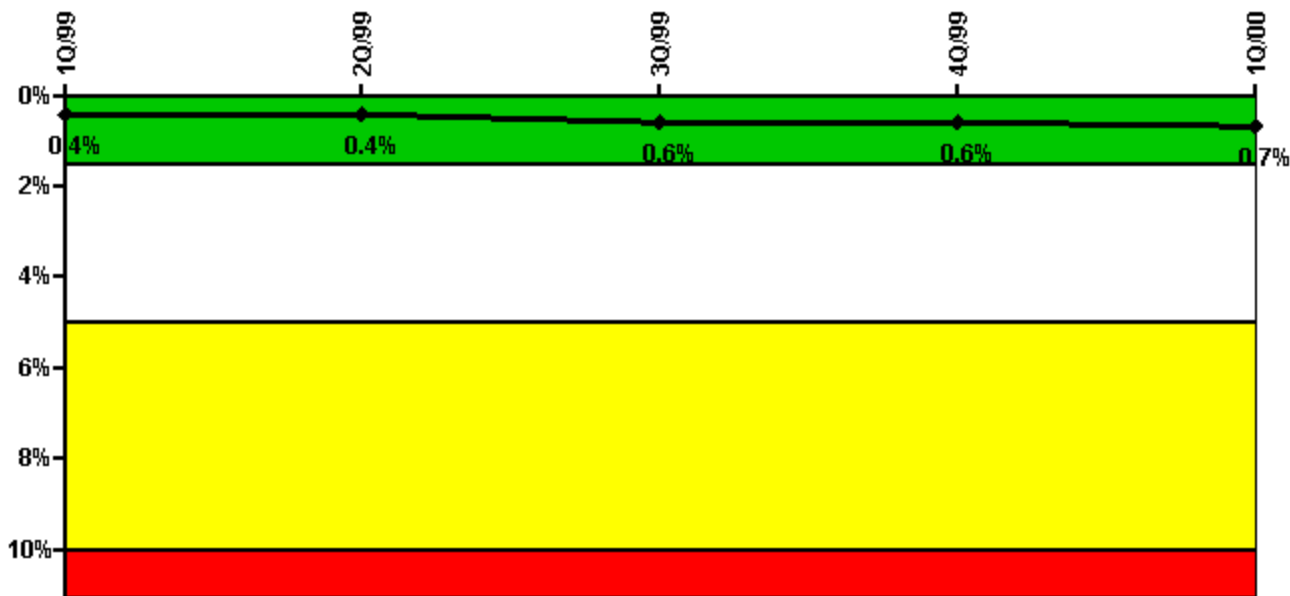
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

| Safety System Unavailability, Heat Removal System (AFW) | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|---|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | |
| Planned unavailable hours | 26.90 | 0 | 58.30 | 2.40 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 905.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| Train 2 | | | | | |
| Planned unavailable hours | 0 | 0 | 23.40 | 0 | 0 |
| Unplanned unavailable hours | 53.30 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 905.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| Train 3 | | | | | |
| Planned unavailable hours | 0 | 0 | 1.50 | 60.40 | 0.80 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 905.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| | | | | | |
| Indicator value | 1.2% | 0.9% | 1.0% | 1.0% | 0.9% |

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Residual Heat Removal System | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|--|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | |
| Planned unavailable hours | 0 | 0 | 68.60 | 19.60 | 2.40 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 12.80 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| Train 2 | | | | | |
| Planned unavailable hours | 0 | 36.20 | 19.00 | 25.00 | 8.20 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| Train 3 | | | | | |
| Planned unavailable hours | 0 | 0 | 68.60 | 19.60 | 2.40 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 12.80 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| Train 4 | | | | | |
| Planned unavailable hours | 0 | 36.20 | 19.00 | 25.00 | 8.20 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| | | | | | |
| Indicator value | 0.4% | 0.4% | 0.6% | 0.6% | 0.7% |

Licensee Comments:

1Q/00: San Onofre defines RHR as Containment Spray in Modes 1-3, and Shutdown Cooling in Modes 4-6. This is consistent with the CE Plant White Paper currently under consideration by the NRC.

1Q/00: San Onofre defines RHR as Containment Spray in Modes 1-3, and Shutdown Cooling in Modes 4-6. This is consistent with the CE Plant White Paper currently under consideration by the NRC.

4Q/99: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

3Q/99: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

2Q/99: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

1Q/99: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

4Q/98: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

3Q/98: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

2Q/98: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

1Q/98: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

4Q/97: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

3Q/97: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

2Q/97: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

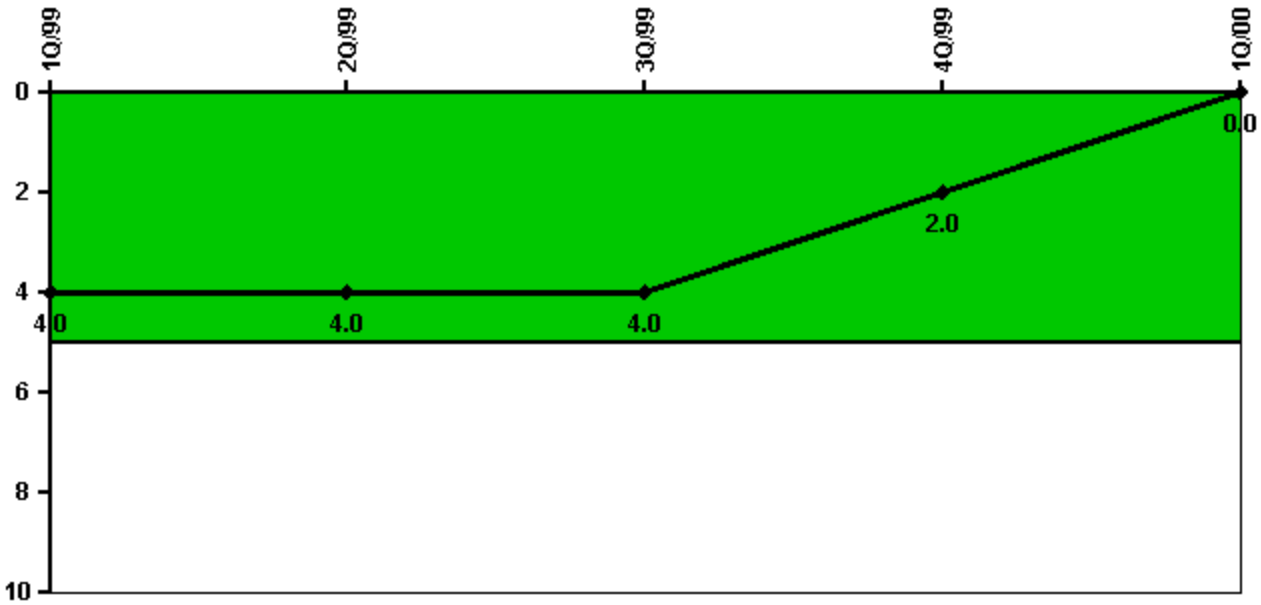
1Q/97: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

4Q/96: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

3Q/96: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

2Q/96: This historical information represents the data submitted to WANO. RHR Scope for CE Plants is under industry review. For San Onofre, RHR = LPSI + SDC + CS

Safety System Functional Failures (PWR)



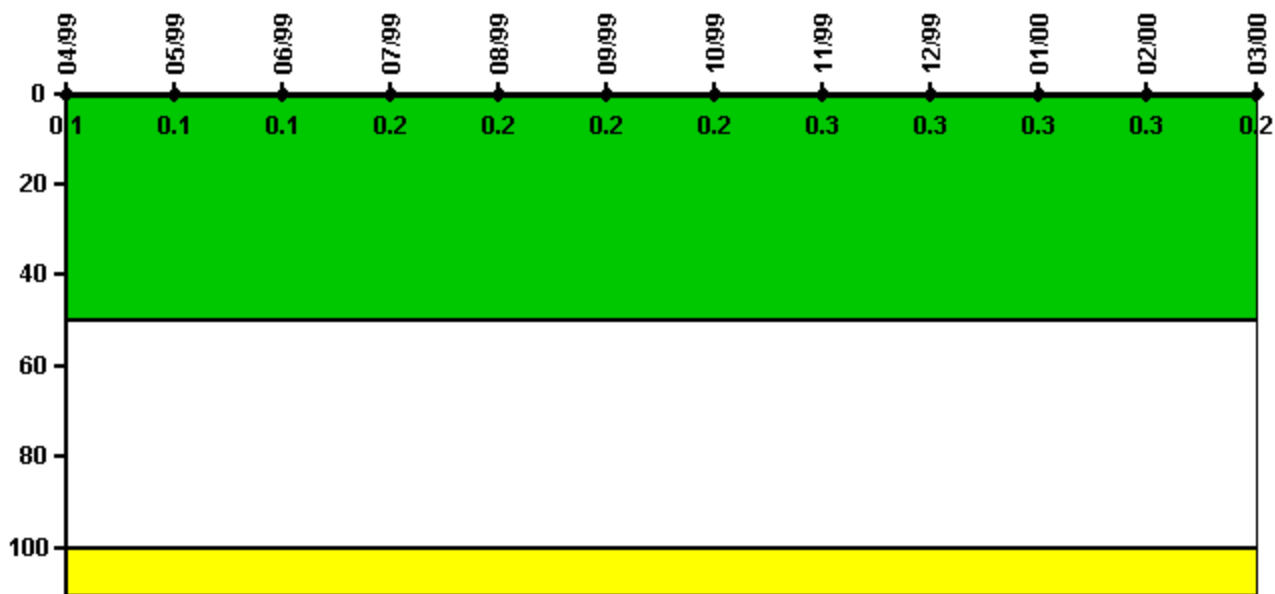
Thresholds: White > 5.0

Notes

| Safety System Functional Failures (PWR) | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|---|-------|-------|-------|-------|-------|
| Safety System Functional Failures | 2 | 0 | 0 | 0 | 0 |
| Indicator value | 4 | 4 | 4 | 2 | 0 |

Licensee Comments: none

Reactor Coolant System Activity



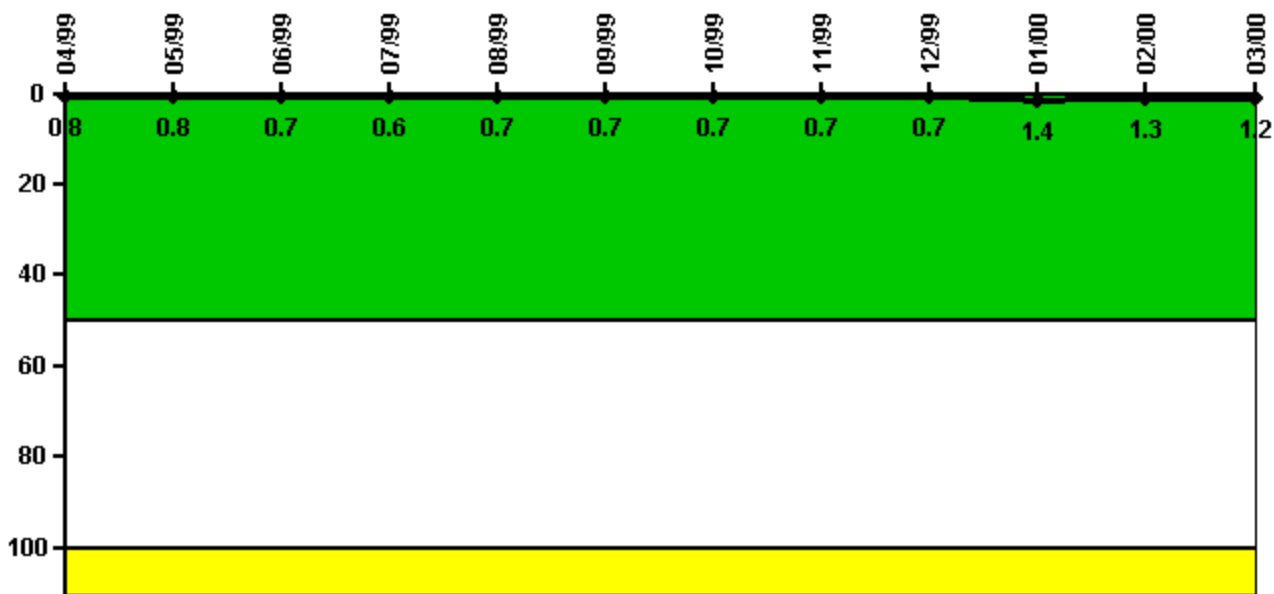
Thresholds: White > 50.0 Yellow > 100.0

Notes

| Reactor Coolant System Activity | 4/99 | 5/99 | 6/99 | 7/99 | 8/99 | 9/99 | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.001400 | 0.001300 | 0.001100 | 0.002100 | 0.001800 | 0.001700 | 0.002400 | 0.003100 | 0.002900 | 0.002700 | 0.002550 | 0.002480 |
| 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 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 |

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

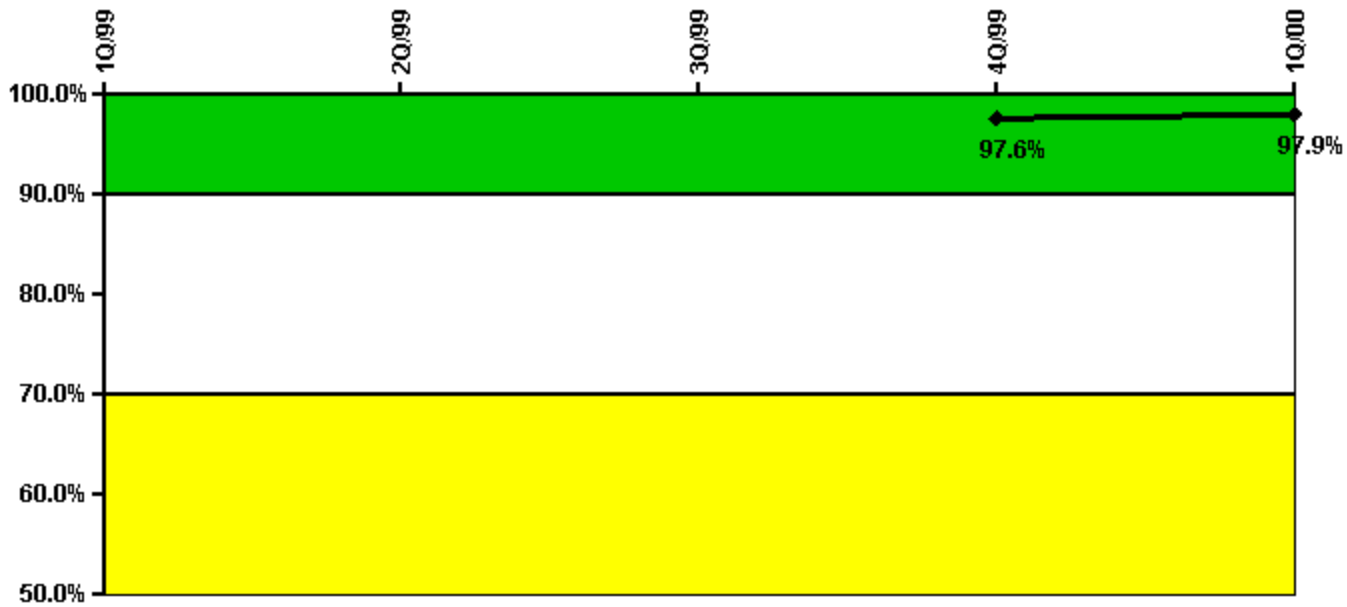
| Reactor Coolant System Leakage | 4/99 | 5/99 | 6/99 | 7/99 | 8/99 | 9/99 | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 0.080 | 0.080 | 0.070 | 0.060 | 0.070 | 0.070 | 0.070 | 0.070 | 0.070 | 0.140 | 0.130 | 0.120 |
| 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 | 0.8 | 0.8 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.3 | 1.2 |

Licensee Comments:

3/00: Q1 2000 data revised to include instrument uncertainties.

3/00: Q1 2000 data revised to include instrument uncertainties.

Drill/Exercise Performance



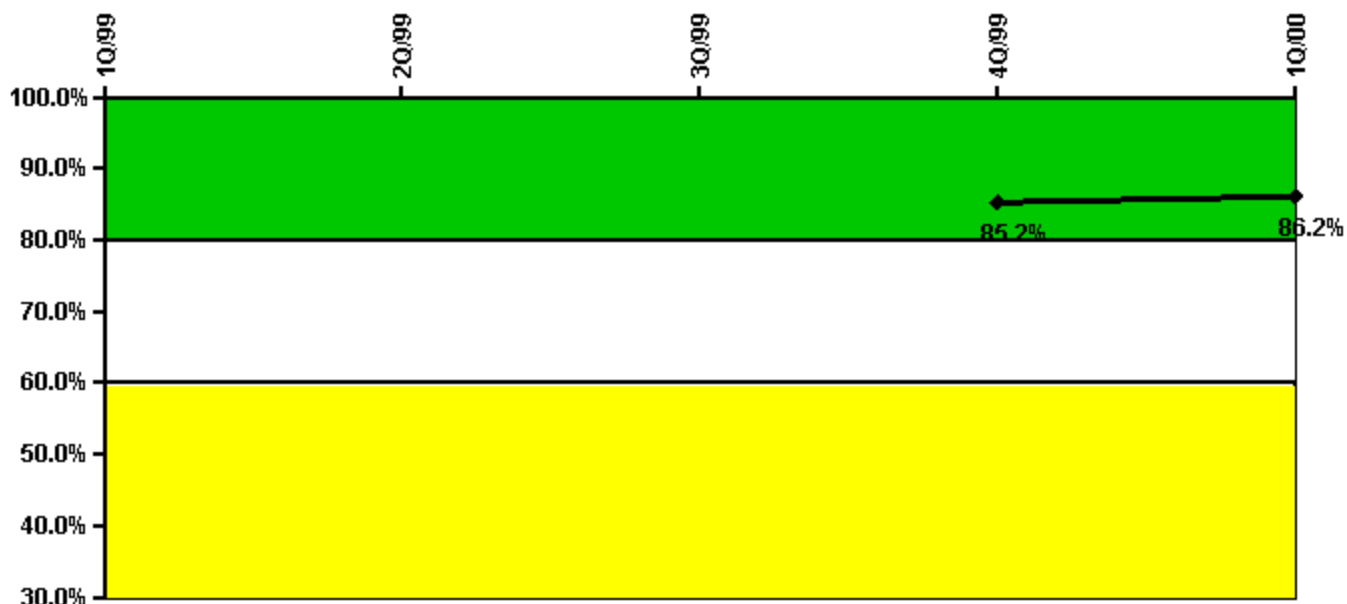
Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|----------------------------|-------|-------|-------|--------------|--------------|
| Successful opportunities | 4.0 | 0 | 17.0 | 22.0 | 11.0 |
| Total opportunities | 4.0 | 0 | 18.0 | 22.0 | 11.0 |
| | | | | | |
| Indicator value | | | | 97.6% | 97.9% |

Licensee Comments: none

ERO Drill Participation



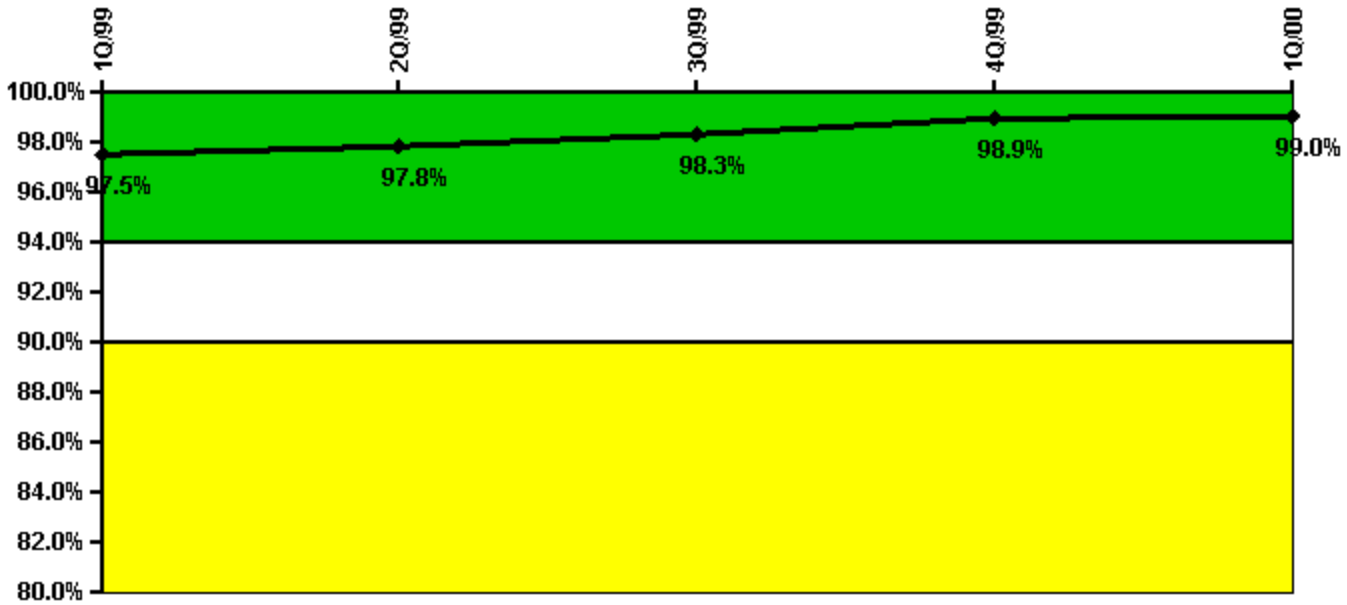
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|-----------------------------|-------|-------|-------|--------------|--------------|
| Participating Key personnel | | | | 46.0 | 50.0 |
| Total Key personnel | | | | 54.0 | 58.0 |
| | | | | | |
| Indicator value | | | | 85.2% | 86.2% |

Licensee Comments: none

Alert & Notification System



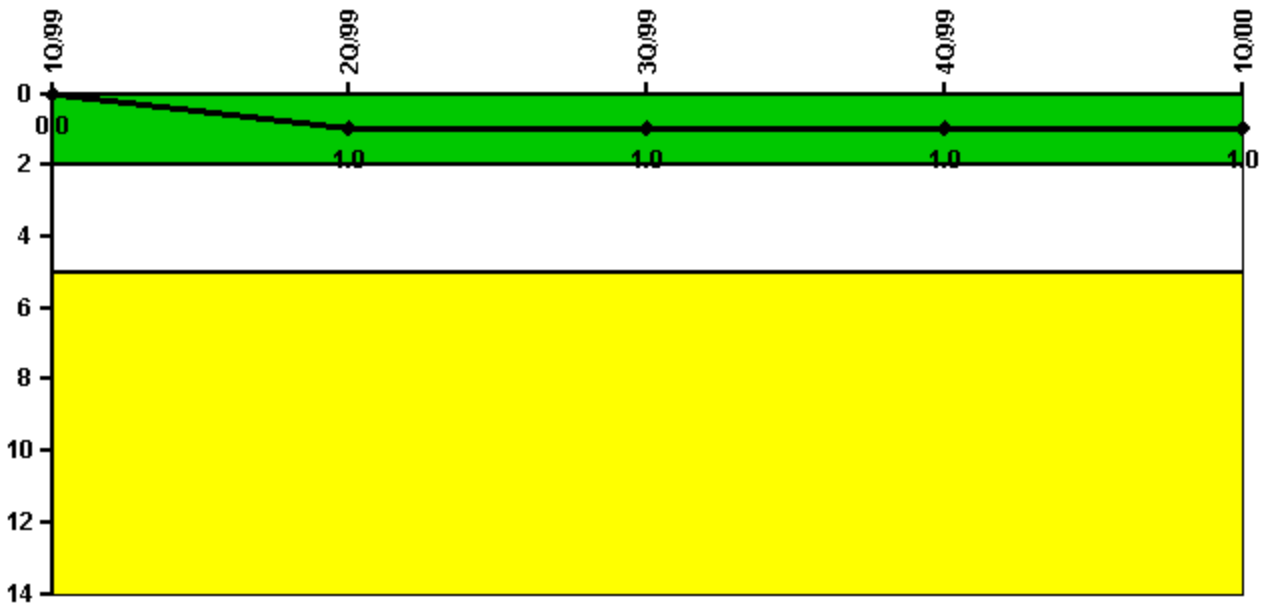
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|-----------------------------|-------|-------|-------|-------|-------|
| Successful siren-tests | 348 | 344 | 438 | 341 | 385 |
| Total sirens-tests | 357 | 347 | 441 | 343 | 392 |
| | | | | | |
| Indicator value | 97.5% | 97.8% | 98.3% | 98.9% | 99.0% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



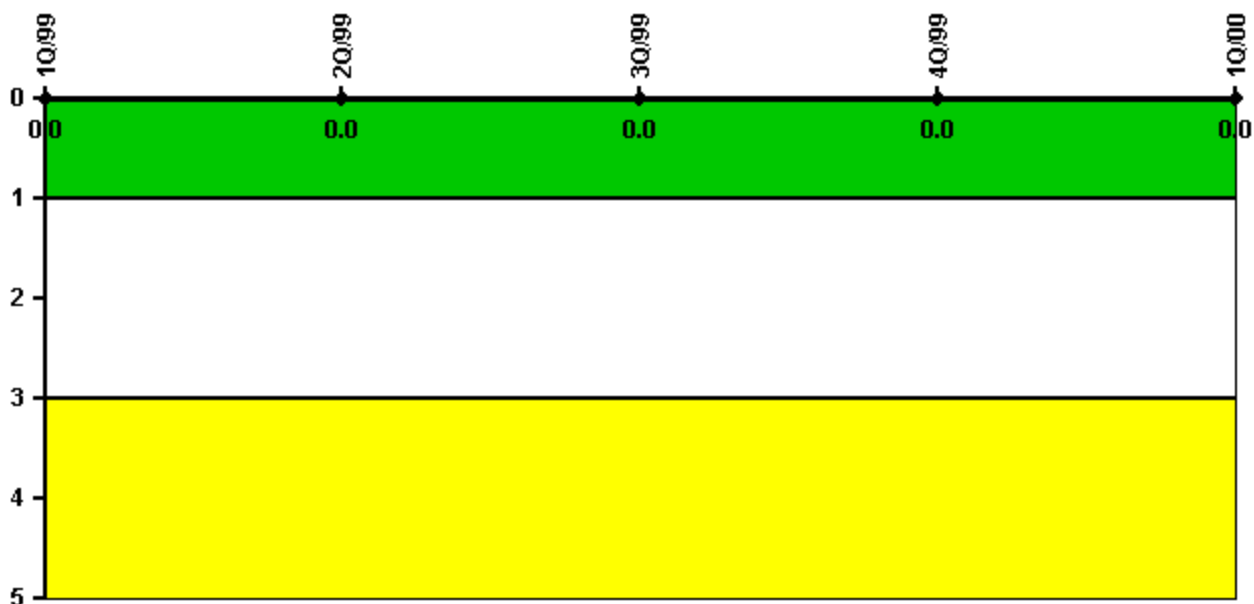
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|---|----------|----------|----------|----------|----------|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 |
| Very high radiation area occurrences | 0 | 0 | 0 | 0 | 0 |
| Unintended exposure occurrences | 0 | 1 | 0 | 0 | 0 |
| Indicator value | 0 | 1 | 1 | 1 | 1 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



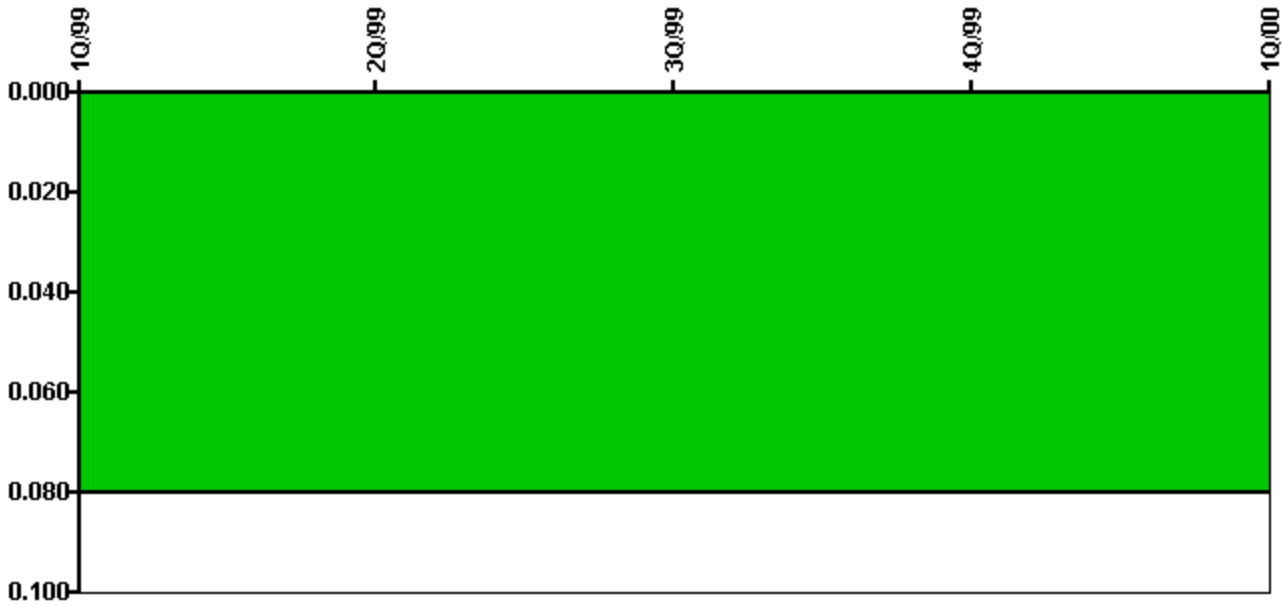
Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|---------------------------------|-------|-------|-------|-------|-------|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 |
| | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

Notes

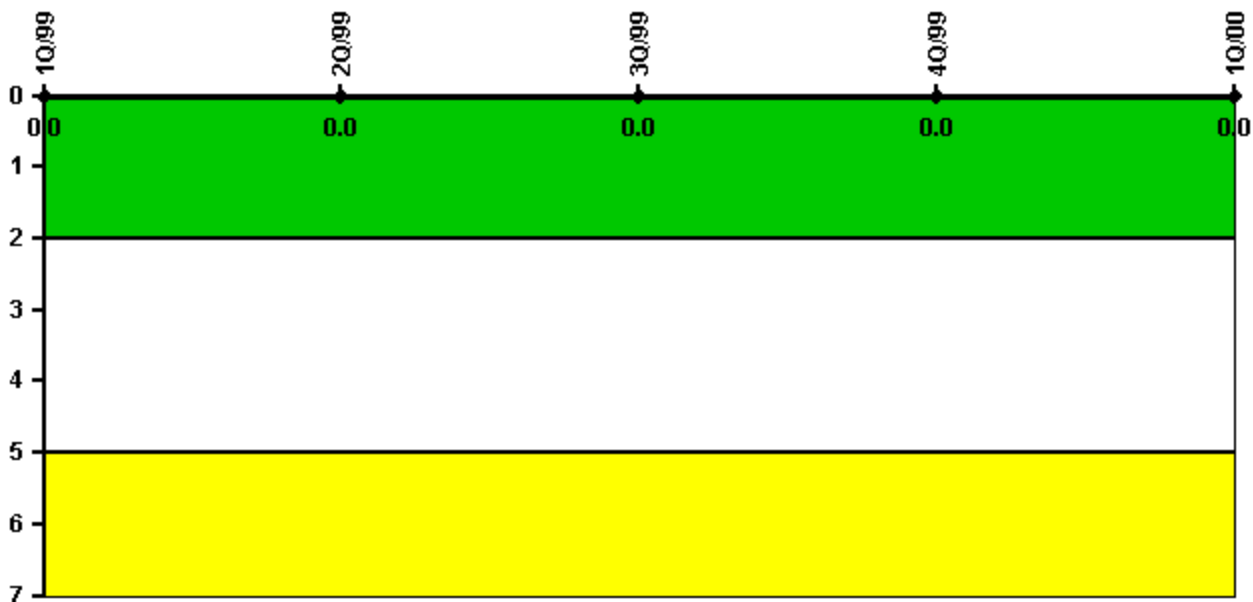
| Protected Area Security Performance Index | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|---|-------|-------|--------|--------|--------|
| IDS compensatory hours | | | 228.20 | 278.00 | 247.10 |
| CCTV compensatory hours | | | 0 | 20.1 | 184.3 |
| IDS normalization factor | | | 1.85 | 1.80 | 1.80 |
| CCTV normalization factor | | | 1.0 | 1.0 | 1.0 |
| | | | | | |
| Index Value | | | | | |

Licensee Comments:

4Q/99: See letter A. E. Scherer (SCE) to USNRC, dated January 20, 2000.

3Q/99: See letter A. E. Scherer (SCE) to USNRC, dated January 20, 2000. Note:PI data gathering started in June 1999, therefore a complete 2nd qtr. of PI data was not available. June monthly total (ONLY) was 0.101

Personnel Screening Program



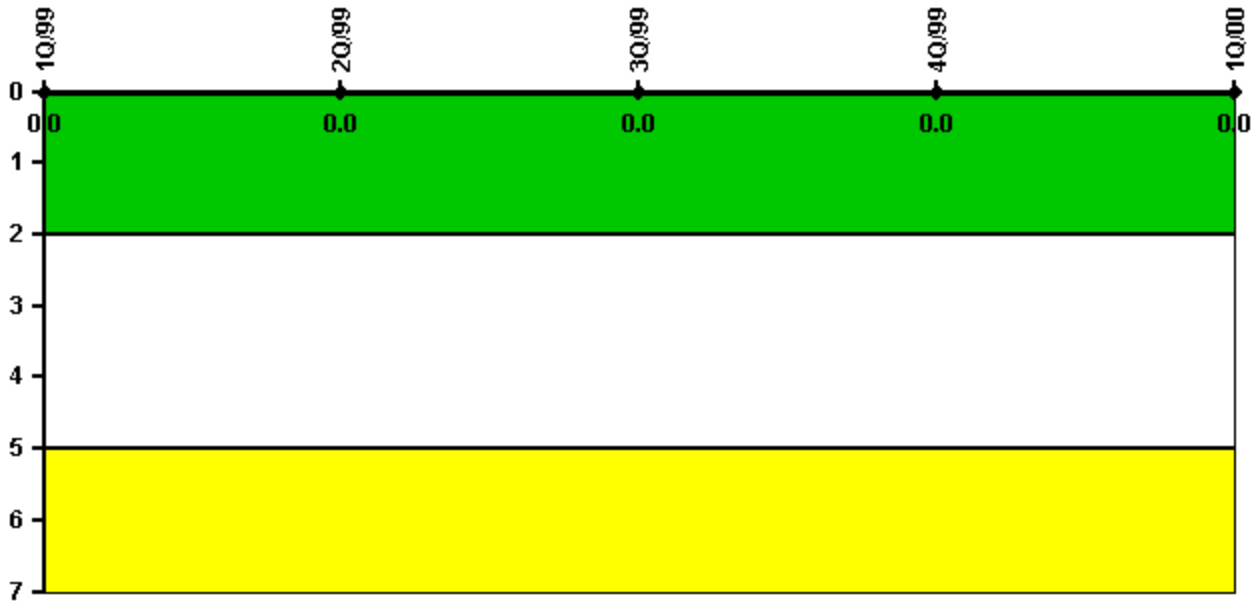
Thresholds: White > 2.0 Yellow > 5.0

Notes

| Personnel Screening Program | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|-----------------------------|-------|-------|-------|-------|-------|
| Program failures | 0 | 0 | 0 | 0 | 0 |
| | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

| FFD/Personnel Reliability | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|---------------------------|-------|-------|-------|-------|-------|
| Program Failures | 0 | 0 | 0 | 0 | 0 |
| | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 1, 2002