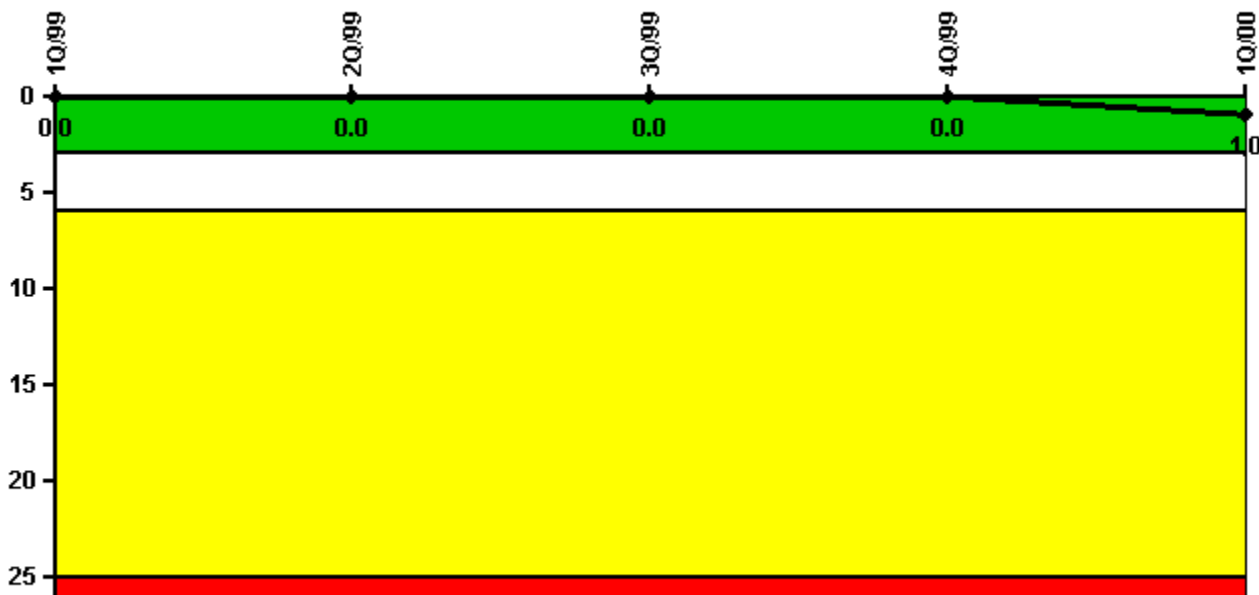


### Duane Arnold

#### 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        | 1.0        |
| Critical hours                         | 2160.0   | 1716.0   | 2208.0   | 1304.7   | 2085.7     |
|                                        |          |          |          |          |            |
| <b>Indicator value</b>                 | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>1.0</b> |

Licensee Comments:

1Q/00: At 12:10 p.m. January 5, 2000, with the plant operating at 100% power, an automatic scram occurred when technicians attempted to restore a level transmitter to service after calibration.

### Scrams with Loss of Normal Heat Removal



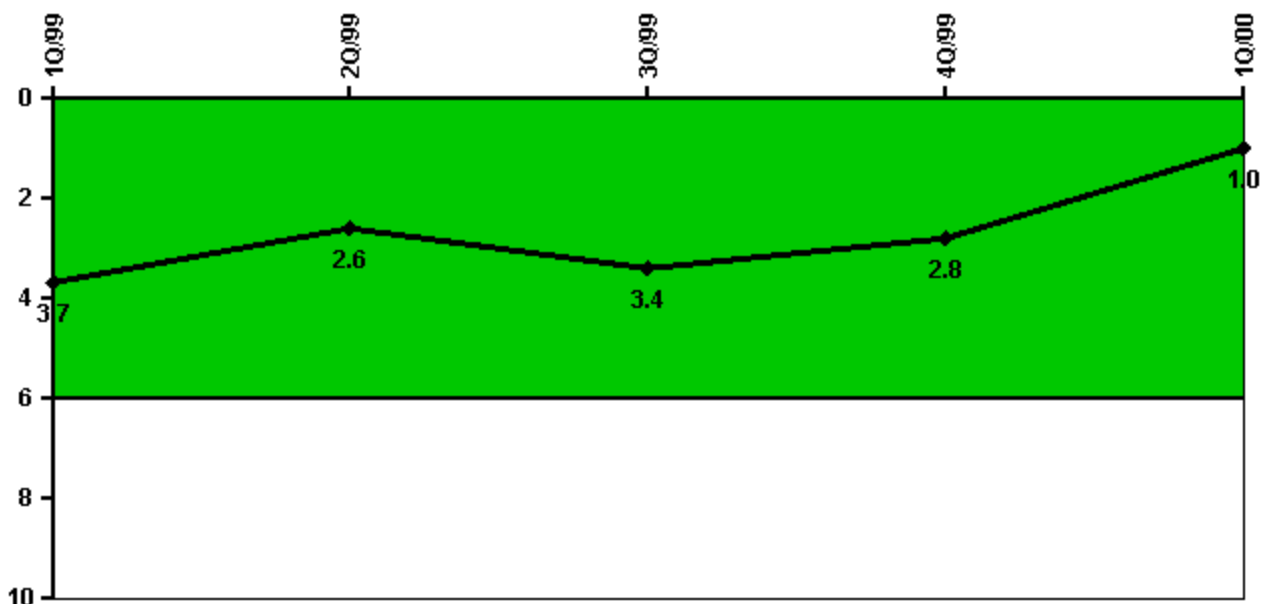
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### 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



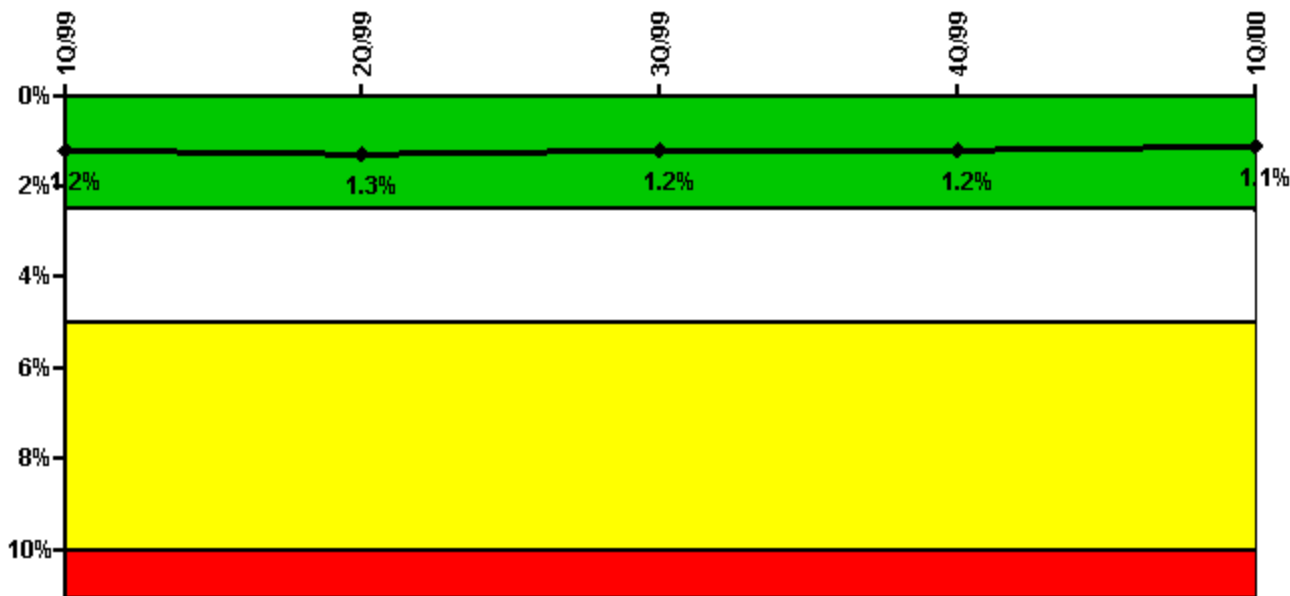
Thresholds: White > 6.0

#### Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/99      | 2Q/99      | 3Q/99      | 4Q/99      | 1Q/00      |
|-----------------------------------------------|------------|------------|------------|------------|------------|
| Unplanned power changes                       | 2.0        | 0          | 1.0        | 0          | 0          |
| Critical hours                                | 2160.0     | 1716.0     | 2208.0     | 1304.7     | 2085.7     |
|                                               |            |            |            |            |            |
| <b>Indicator value</b>                        | <b>3.7</b> | <b>2.6</b> | <b>3.4</b> | <b>2.8</b> | <b>1.0</b> |

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       |
|--------------------------------------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>                                   |             |             |             |             |             |
| Planned unavailable hours                        | 10.31       | 38.16       | 7.63        | 10.63       | 10.99       |
| Unplanned unavailable hours                      | 6.50        | 25.30       | 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     |
| <b>Train 2</b>                                   |             |             |             |             |             |
| Planned unavailable hours                        | 52.77       | 10.49       | 11.30       | 9.72        | 10.02       |
| 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     |
| <b>Indicator value</b>                           | <b>1.2%</b> | <b>1.3%</b> | <b>1.2%</b> | <b>1.2%</b> | <b>1.1%</b> |

#### Licensee Comments:

1Q/00: Added hours for monthly unavailability due to tech spec required operability testing, and removed on-line maintenance hours due to overhaul (Feb. 2000)

4Q/99: Added hours for monthly unavailability due to tech spec required operability testing. 01/18/02: Revised Train 2 Unavailability from 4.37 to 3.37 to correct typo.

4Q/99: Added hours for monthly unavailability due to tech spec required operability testing.

3Q/99: Added hours for monthly unavailability due to tech spec required operability testing, and removed on-line maintenance hours due to overhaul (Sept. 2000)

2Q/99: Added hours for monthly unavailability due to tech spec required operability testing, and removed simultaneous support system unavailability.

1Q/99: Added hours for monthly unavailability due to tech spec required operability testing.

4Q/98: Added hours for monthly unavailability due to tech spec required operability testing.

3Q/98: Added hours for monthly unavailability due to tech spec required operability testing.

2Q/98: Added hours for monthly unavailability due to tech spec required operability testing. Revised hours required to actual instead of calendar.

1Q/98: Added hours for monthly unavailability due to tech spec required operability testing. Moved 21.25 hours (FEB) from train 1 to train 2 (correction).

4Q/97: Added hours for monthly unavailability due to tech spec required operability testing.

3Q/97: Added hours for monthly unavailability due to tech spec required operability testing.

2Q/97: Added hours for monthly unavailability due to tech spec required operability testing.

1Q/97: Added hours for monthly unavailability due to tech spec required operability testing.

4Q/96: Added hours for monthly unavailability due to tech spec required operability testing.

3Q/96: Added hours for monthly unavailability due to tech spec required operability testing. Also added previously omitted hours.

2Q/96: Added hours for monthly unavailability due to tech spec required operability testing.

1Q/96: Added hours for monthly unavailability due to tech spec required operability testing.

### Safety System Unavailability, High Pressure Injection System (HPCI)



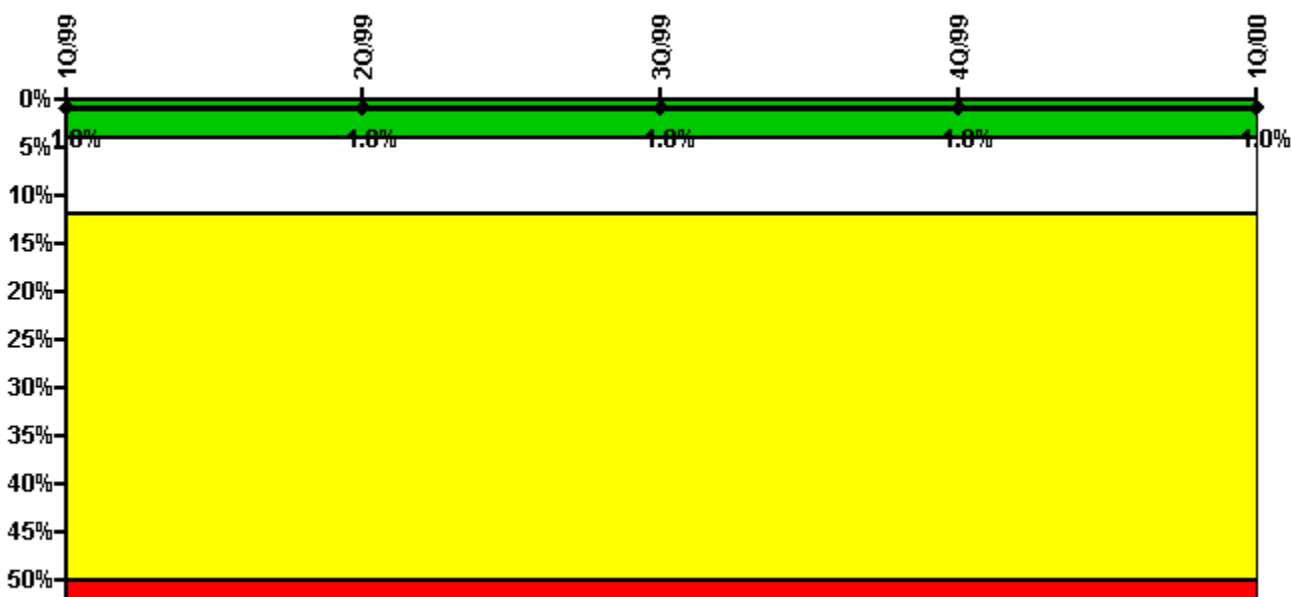
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

| Safety System Unavailability, High Pressure Injection System (HPCI) | 1Q/99       | 2Q/99       | 3Q/99       | 4Q/99       | 1Q/00       |
|---------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>                                                      |             |             |             |             |             |
| Planned unavailable hours                                           | 15.40       | 0           | 0           | 0           | 40.10       |
| 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     | 1716.00     | 2208.00     | 1304.70     | 2085.70     |
|                                                                     |             |             |             |             |             |
| <b>Indicator value</b>                                              | <b>1.2%</b> | <b>1.2%</b> | <b>1.1%</b> | <b>1.1%</b> | <b>1.1%</b> |

Licensee Comments: none

### Safety System Unavailability, Heat Removal System (RCIC)



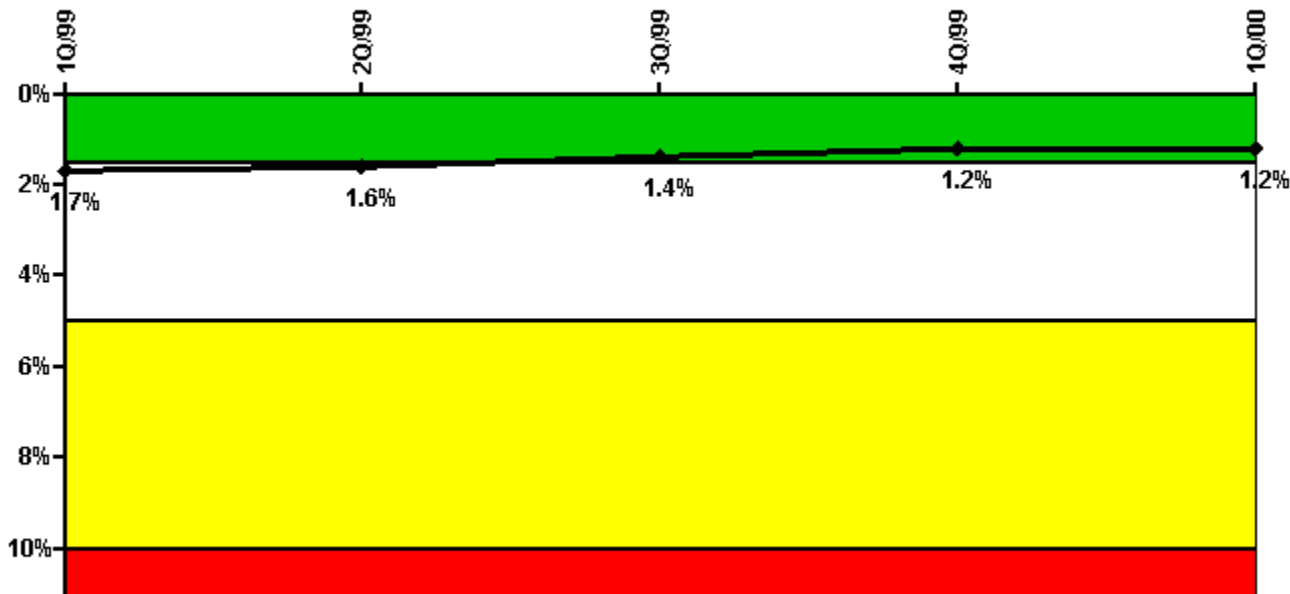
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

#### Notes

| Safety System Unavailability, Heat Removal System (RCIC) | 1Q/99       | 2Q/99       | 3Q/99       | 4Q/99       | 1Q/00       |
|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>                                           |             |             |             |             |             |
| Planned unavailable hours                                | 51.10       | 0           | 22.60       | 0           | 64.67       |
| 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     | 1716.00     | 2208.00     | 1304.70     | 2085.70     |
|                                                          |             |             |             |             |             |
| <b>Indicator value</b>                                   | <b>1.0%</b> | <b>1.0%</b> | <b>1.0%</b> | <b>1.0%</b> | <b>1.0%</b> |

Licensee Comments: none

### Safety System Unavailability, Residual Heat Removal System



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

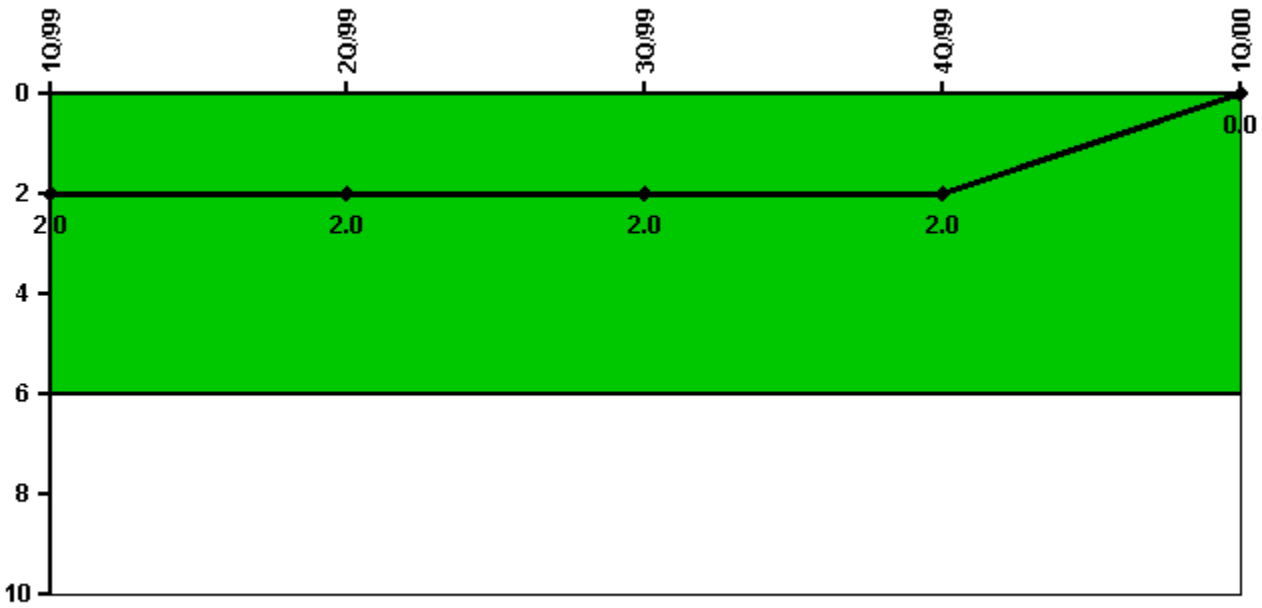
#### Notes

| Safety System Unavailability, Residual Heat Removal System | 1Q/99       | 2Q/99       | 3Q/99       | 4Q/99       | 1Q/00       |
|------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Train 1</b>                                             |             |             |             |             |             |
| Planned unavailable hours                                  | 22.15       | 0           | 56.40       | 0           | 0.30        |
| Unplanned unavailable hours                                | 0           | 38.50       | 0           | 0           | 0           |
| Fault exposure hours                                       | 0           | 0           | 0           | 0           | 0           |
| Effective Reset hours                                      | 0           | 0           | 0           | 0           | 0           |
| Required hours                                             | 2209.00     | 2183.00     | 2208.00     | 1707.10     | 2184.00     |
| <b>Train 2</b>                                             |             |             |             |             |             |
| Planned unavailable hours                                  | 7.50        | 10.80       | 0           | 11.80       | 76.30       |
| 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                                             | 2209.00     | 2183.00     | 2208.00     | 1707.10     | 2184.00     |
|                                                            |             |             |             |             |             |
| <b>Indicator value</b>                                     | <b>1.7%</b> | <b>1.6%</b> | <b>1.4%</b> | <b>1.2%</b> | <b>1.2%</b> |

Licensee Comments:

4Q/99: RHR "Hours Train Required" was revised to count those hours when RHR SDC function was required by Tech Specs to perform its function.

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

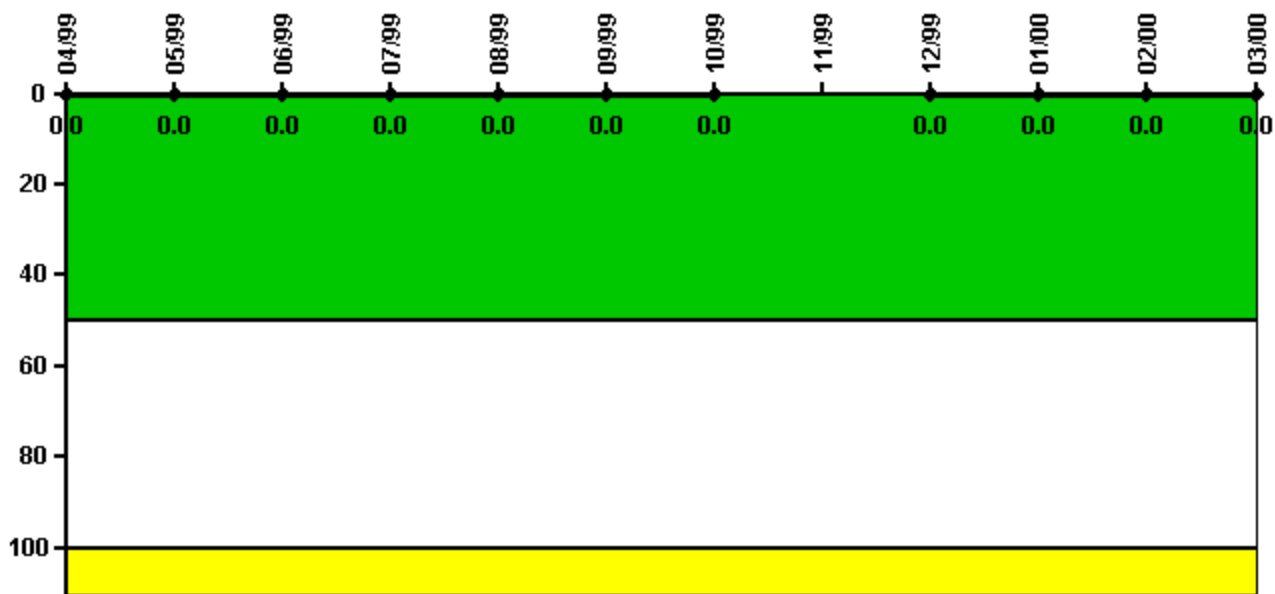
#### Notes

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

Licensee Comments: none



### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

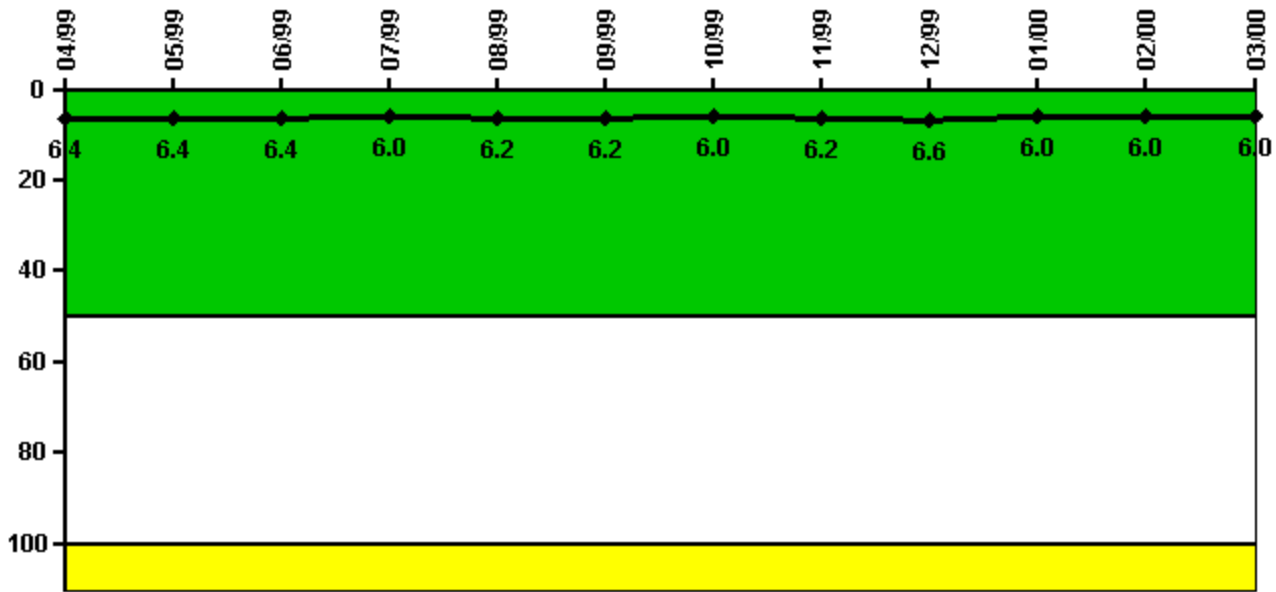
#### Notes

| 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                | 0.000005 | 0.000009 | 0.000009 | 0.000007 | 0.000001 | 0.000008 | 0.000005 | N/A   | 0.000004 | 0.000005 | 0    | 0.000004 |
| Technical specification limit   | 1.2      | 1.2      | 1.2      | 1.2      | 1.2      | 1.2      | 1.2      | 1.2   | 1.2      | 1.2      | 1.2  | 1.2      |
| Indicator value                 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | N/A   | 0        | 0        | 0    | 0        |

Licensee Comments:

3/00: Revised 07/12/00, had entered RCSA activity data as fractional part of 1.2 micro curies per gram. (Discrepancy shows in seventh decimal place.)

### Reactor Coolant System Leakage



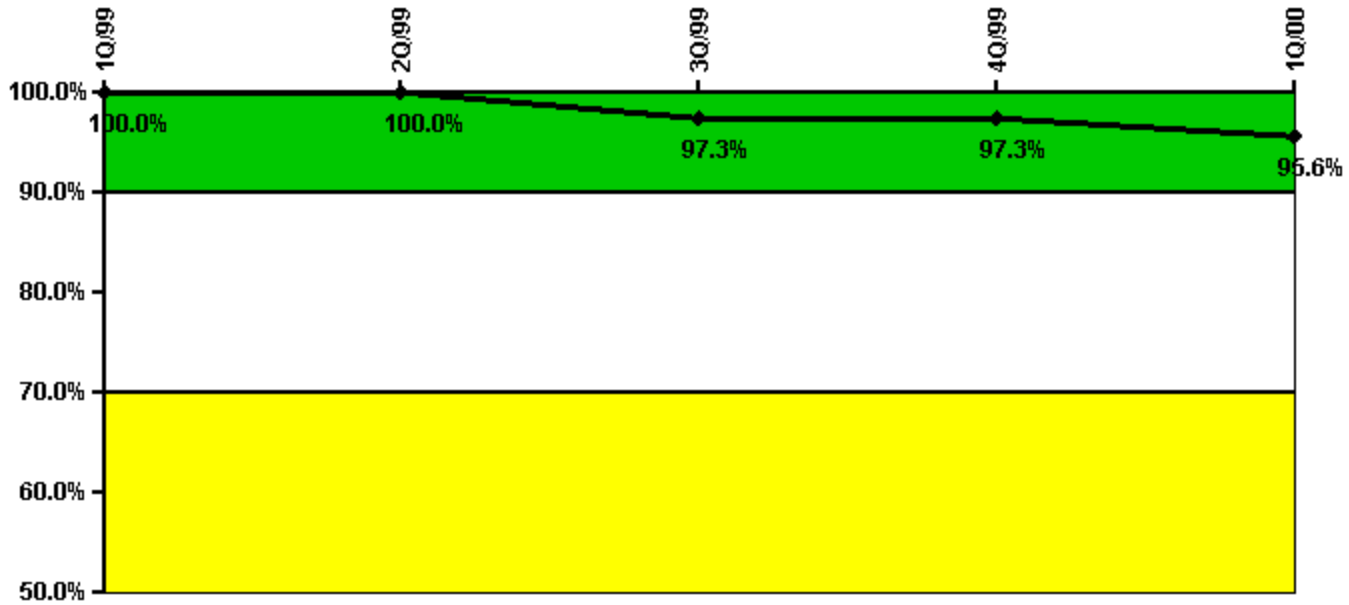
Thresholds: White > 50.0 Yellow > 100.0

#### 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                | 1.600 | 1.610 | 1.600 | 1.510 | 1.550 | 1.550 | 1.510 | 1.550 | 1.660 | 1.500 | 1.500 | 1.500 |
| 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   | 6.0   | 6.2   | 6.2   | 6.0   | 6.2   | 6.6   | 6.0   | 6.0   | 6.0   |

Licensee Comments: none

### Drill/Exercise Performance



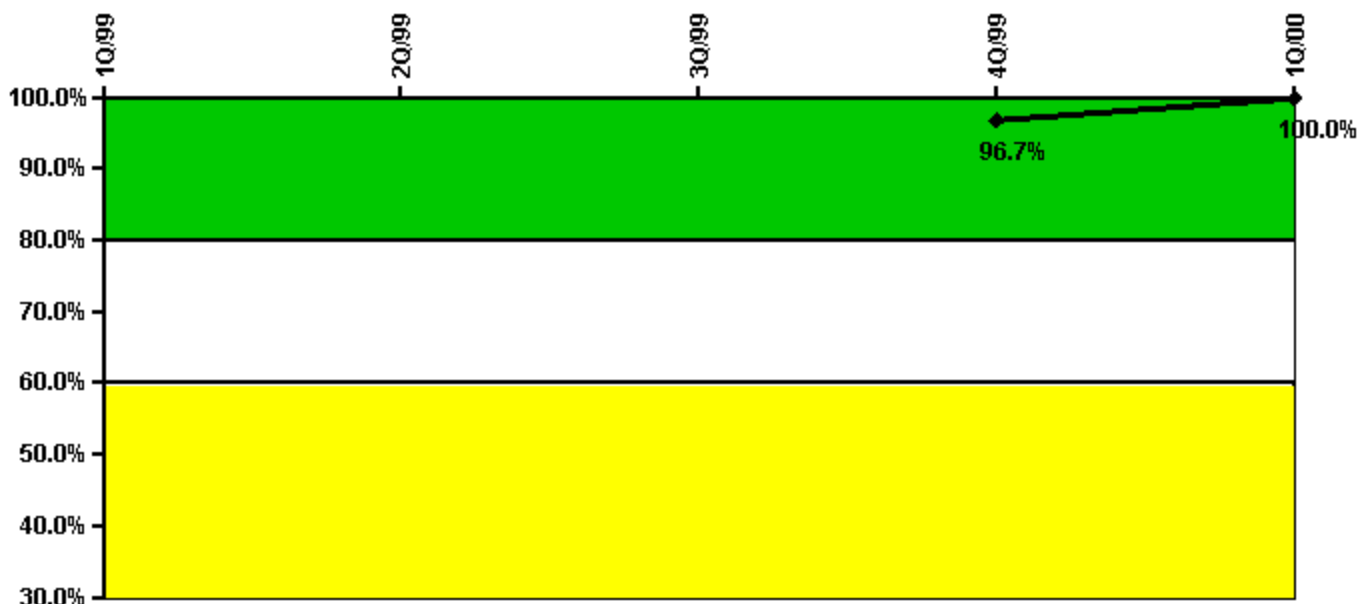
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

| Drill/Exercise Performance | 1Q/99         | 2Q/99         | 3Q/99        | 4Q/99        | 1Q/00        |
|----------------------------|---------------|---------------|--------------|--------------|--------------|
| Successful opportunities   | 15.0          | 14.0          | 34.0         | 0            | 15.0         |
| Total opportunities        | 15.0          | 14.0          | 37.0         | 0            | 17.0         |
|                            |               |               |              |              |              |
| <b>Indicator value</b>     | <b>100.0%</b> | <b>100.0%</b> | <b>97.3%</b> | <b>97.3%</b> | <b>95.6%</b> |

Licensee Comments: none

### ERO Drill Participation



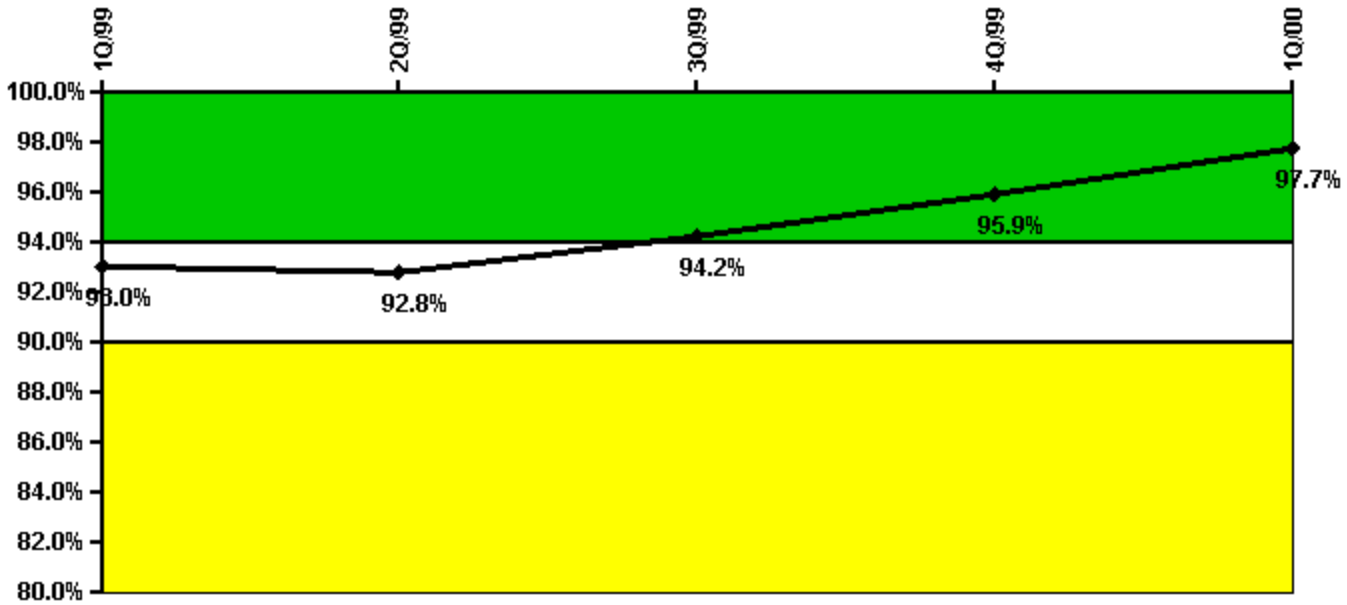
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

| ERO Drill Participation     | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99        | 1Q/00         |
|-----------------------------|-------|-------|-------|--------------|---------------|
| Participating Key personnel | 0     | 0     | 0     | 59.0         | 55.0          |
| Total Key personnel         | 0     | 0     | 0     | 61.0         | 55.0          |
|                             |       |       |       |              |               |
| <b>Indicator value</b>      |       |       |       | <b>96.7%</b> | <b>100.0%</b> |

Licensee Comments: none

### Alert & Notification System



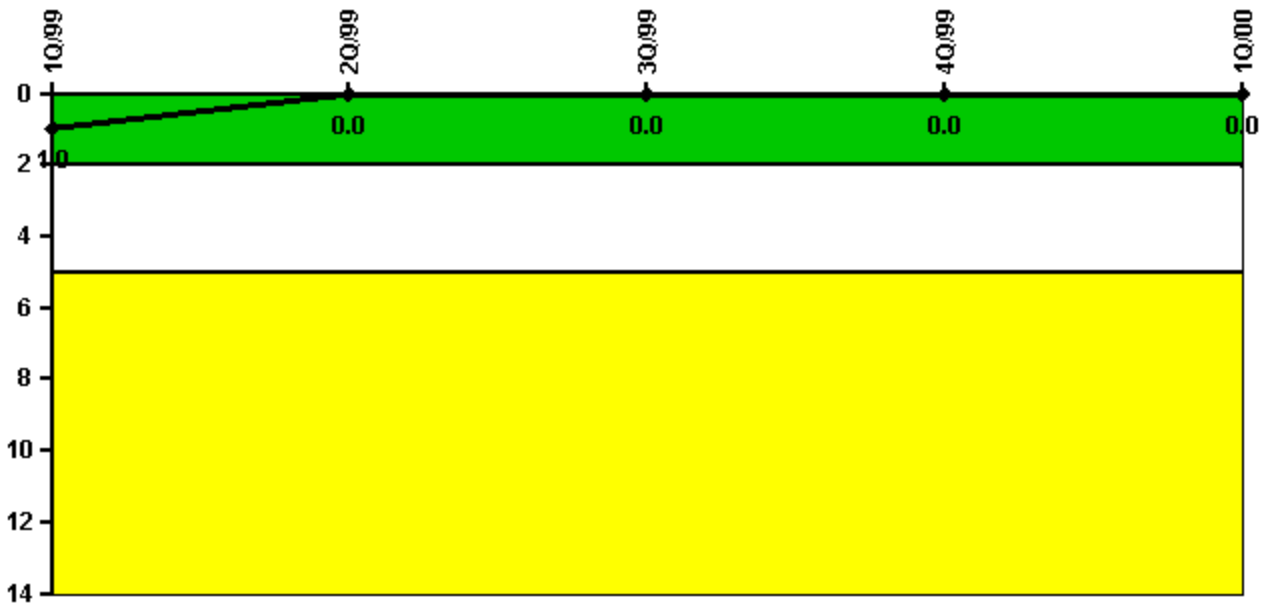
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

| Alert & Notification System | 1Q/99 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 |
|-----------------------------|-------|-------|-------|-------|-------|
| Successful siren-tests      | 398   | 397   | 421   | 429   | 429   |
| Total sirens-tests          | 429   | 429   | 429   | 429   | 429   |
|                             |       |       |       |       |       |
| Indicator value             | 93.0% | 92.8% | 94.2% | 95.9% | 97.7% |

Licensee Comments: none

### Occupational Exposure Control Effectiveness



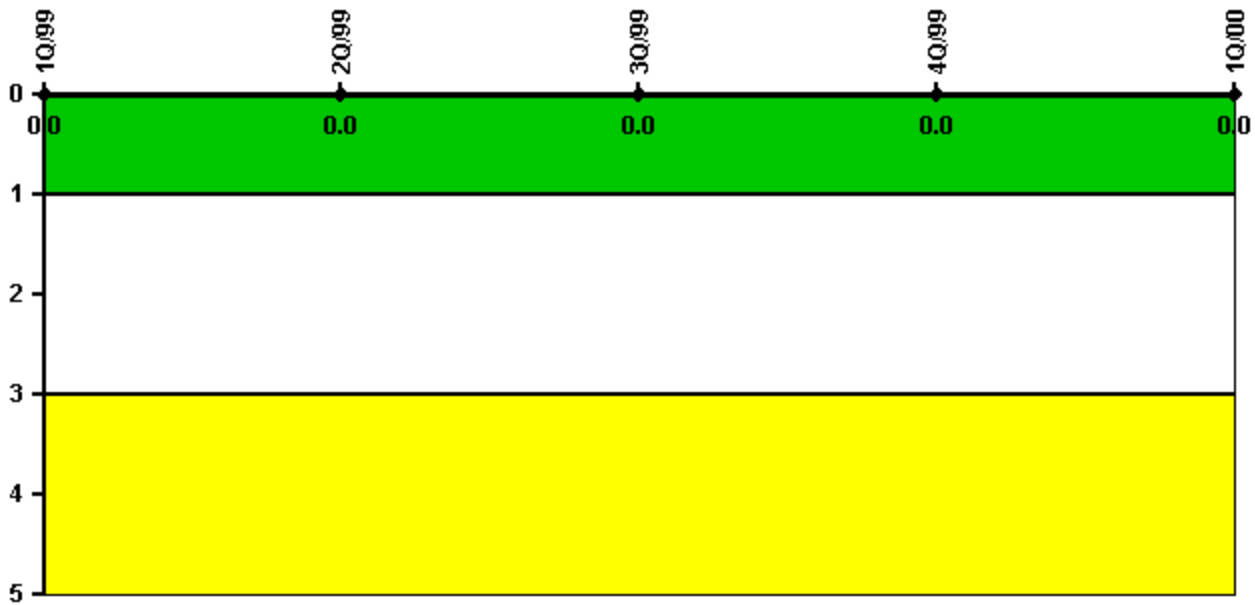
Thresholds: White > 2.0 Yellow > 5.0

#### 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        | 0        | 0        | 0        | 0        |
| <b>Indicator value</b>                      | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Licensee Comments: none

### RETS/ODCM Radiological Effluent



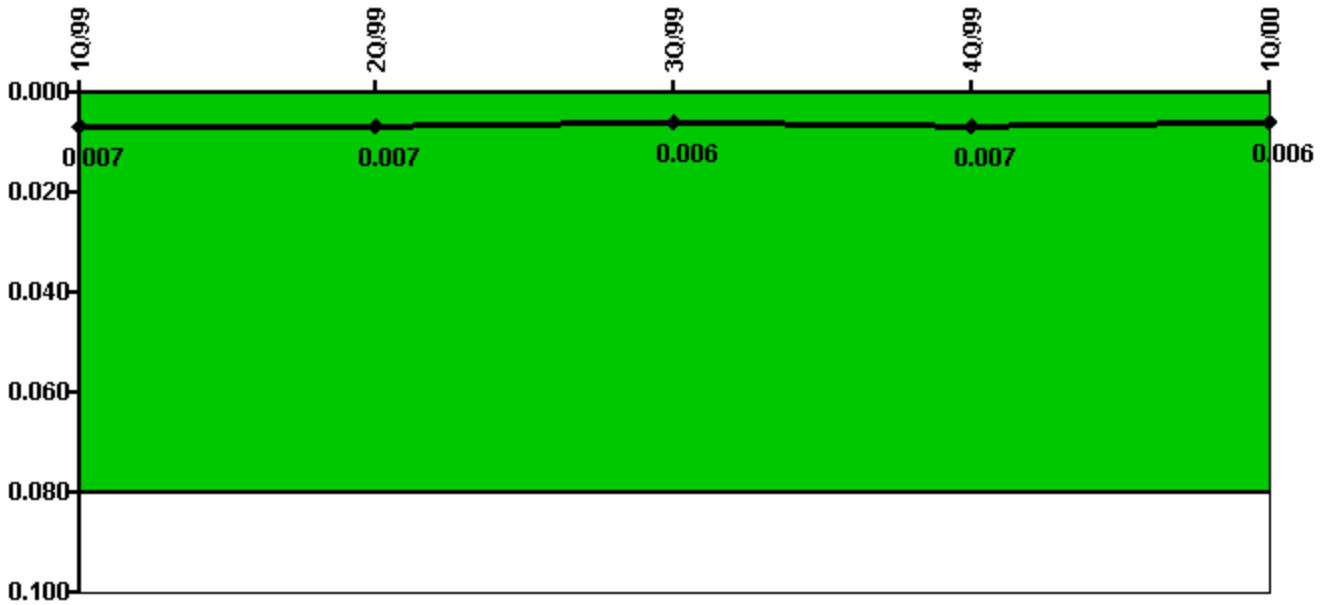
Thresholds: White > 1.0 Yellow > 3.0

#### Notes

| RETS/ODCM Radiological Effluent | 1Q/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

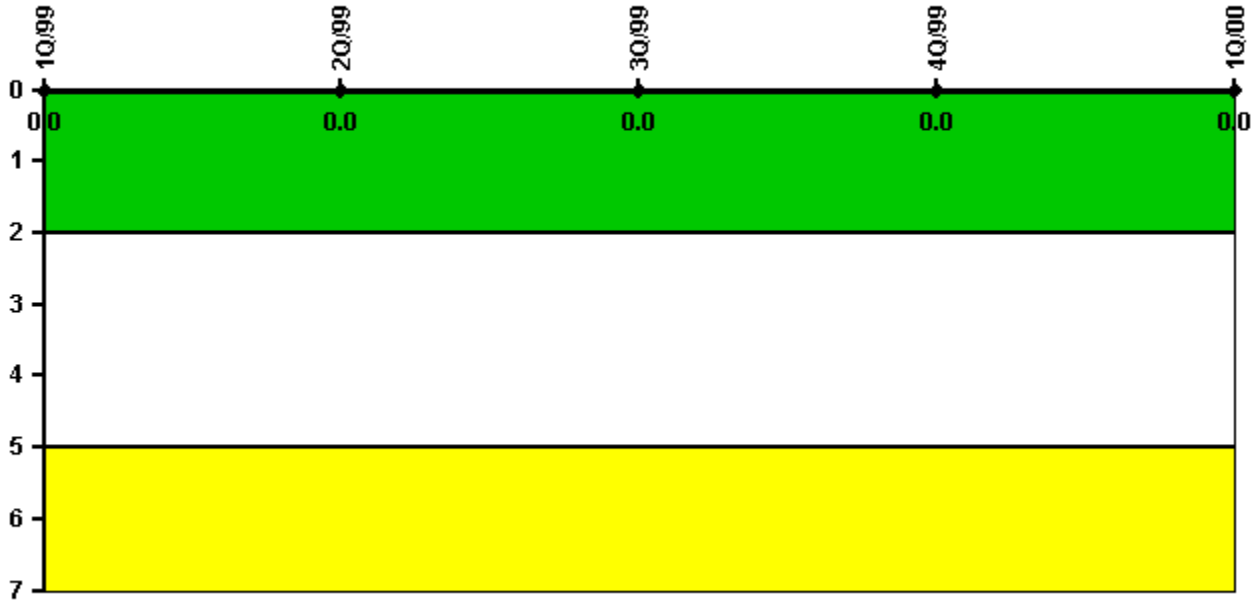
| Protected Area Security Performance Index | 1Q/99        | 2Q/99        | 3Q/99        | 4Q/99        | 1Q/00        |
|-------------------------------------------|--------------|--------------|--------------|--------------|--------------|
| IDS compensatory hours                    | 31.24        | 31.24        | 17.22        | 43.69        | 21.36        |
| CCTV compensatory hours                   | 4.0          | 4.0          | 6.9          | 1.2          | 0            |
| IDS normalization factor                  | 1.20         | 1.20         | 1.20         | 1.20         | 1.20         |
| CCTV normalization factor                 | 1.0          | 1.0          | 1.0          | 1.0          | 1.0          |
|                                           |              |              |              |              |              |
| <b>Index Value</b>                        | <b>0.007</b> | <b>0.007</b> | <b>0.006</b> | <b>0.007</b> | <b>0.006</b> |

#### Licensee Comments:

- 1Q/00: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 4Q/99: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 3Q/99: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 2Q/99: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 1Q/99: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 4Q/98: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 3Q/98: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 2Q/98: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 1Q/98: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 4Q/97: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 3Q/97: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00
- 2Q/97: 07/12/00 Revised CCTV Normalization Factor from 1.05 to 1.00



### Personnel Screening Program



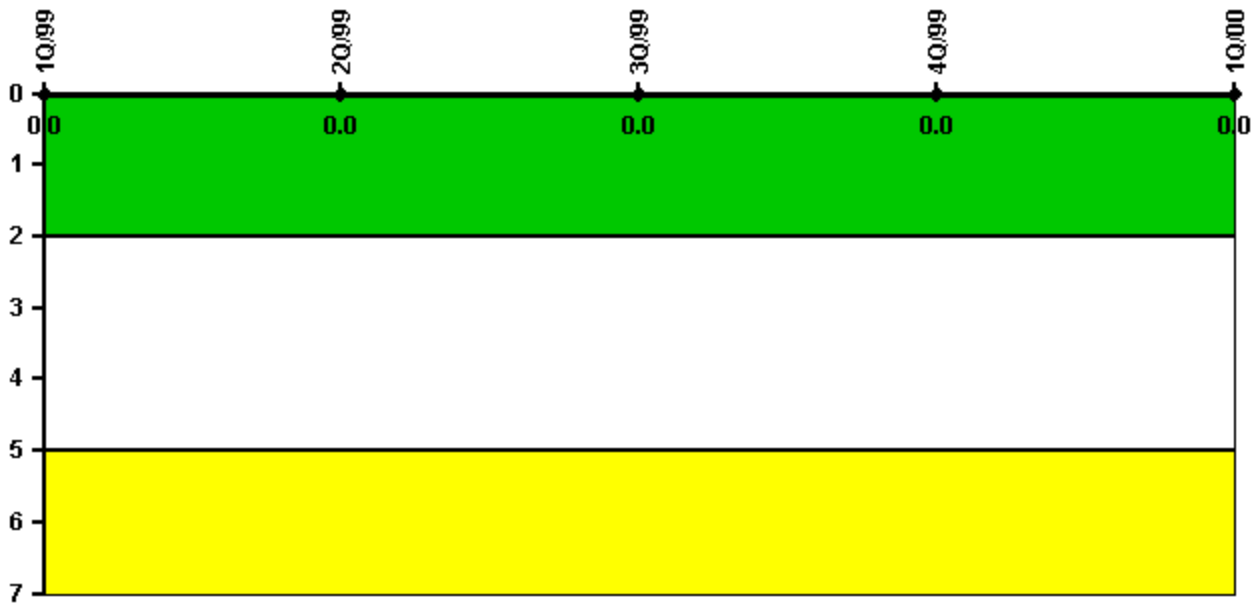
Thresholds: White > 2.0 Yellow > 5.0

#### 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