# Beaver Valley 2

## 1Q/2000 Performance Indicators

Licensee's General Comments: none

**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 | 1367.8 | 1940.4 | 1980.2 | 1919.2 | 2184.0 |
| | | | | | |
| **Indicator value** | **0** | **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 | 1.0 | 1.0 | 0 |
| Critical hours | 1367.8 | 1940.4 | 1980.2 | 1919.2 | 2184.0 |
| | | | | | |
| **Indicator value** | **1.9** | **1.3** | **1.9** | **1.9** | **1.7** |

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 | 1.20 | 1.20 | 4.30 | 9.50 | 5.60 |
| 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 | 1.20 | 8.70 | 2.80 | 17.70 | 10.40 |
| Unplanned unavailable hours | 0 | 0 | 91.40 | 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** | **0.1%** | **0.1%** | **0.3%** | **0.3%** | **0.4%** |

Licensee Comments: none

## 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 | 0.50 | 0 | 0 | 0 | 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 | 1367.60 | 1938.40 | 1397.50 | 1928.40 | 2184.00 |
| **Train 2** | | | | | |
| Planned unavailable hours | 0 | 20.60 | 0 | 0 | 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 | 1367.60 | 1938.40 | 1397.50 | 1928.40 | 2184.00 |
| | | | | | |
| **Indicator value** | | | | **1.1%** | **1.0%** |

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 | 0 | 0 | 15.60 | 0 | 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 | 1367.60 | 1938.40 | 1464.10 | 1935.70 | 2184.00 |
| **Train 2** | | | | | |
| Planned unavailable hours | 22.30 | 12.70 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 81.00 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1367.60 | 1938.40 | 1464.10 | 1935.70 | 2184.00 |
| **Train 3** | | | | | |
| Planned unavailable hours | 2.70 | 1.90 | 3.60 | 7.90 | 4.95 |
| 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 | 1367.60 | 1938.40 | 1464.10 | 1935.70 | 2184.00 |
| | | | | | |
| **Indicator value** | | | | **0.3%** | **0.4%** |

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 | 2.00 | 7.60 | 8.60 | 6.60 | 3.53 |
| 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 | 2008.90 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| **Train 2** | | | | | |
| Planned unavailable hours | 5.70 | 9.00 | 8.40 | 17.00 | 5.56 |
| 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 | 2008.90 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| **Train 3** | | | | | |
| Planned unavailable hours | 2.00 | 7.60 | 8.60 | 6.60 | 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 | 2008.90 | 2183.00 | 2208.00 | 2209.00 | 0 |
| **Train 4** | | | | | |
| Planned unavailable hours | 5.70 | 9.00 | 8.40 | 17.00 | 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 | 2008.90 | 2183.00 | 2208.00 | 2209.00 | 0 |
| | | | | | |
| **Indicator value** | | | | **0.3%** | **0.2%** |

Licensee Comments:

1Q/00: Reference NEI 99-02, Appendix D, BVPS-2 Plant Specific Design Issue for monitoring RHR Indicator as 4 trains. Historical data for trains 3 & 4 was duplicated from trains 1 & 2 to more accurately reflect historical data which was report as two trains.

4Q/99: Historical data accounted for only the residual heat removal system data, similar to that provided to WANO. BVPS RHR does not take suction from the containment sump.

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## 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 | 0 | 1 | 0 | 0 | 0 |
| | | | | | |
| **Indicator value** | **2** | **2** | **1** | **1** | **1** |

Licensee Comments: none

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## 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 | 0.001060 | 0.002190 | 0.001050 | 0.001020 | 0.001090 | 0.001560 | 0.000970 | 0.000780 | 0.001280 | 0.000810 | 0.000778 | 0.000858 |
| Technical specification limit | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.2** | **0.1** | **0.1** | **0.1** | **0.2** | **0.3** | **0.2** | **0.4** | **0.2** | **0.2** | **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 | 0.120 | 0.268 | 0.147 | 0.180 | 0.203 | 0.243 | 0.516 | 0.302 | 0.143 | 0.325 | 0.137 | 0.152 |
| 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** | **1.2** | **2.7** | **1.5** | **1.8** | **2.0** | **2.4** | **5.2** | **3.0** | **1.4** | **3.3** | **1.4** | **1.5** |

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 | 10.0 | 129.0 | 77.0 | 18.0 | 16.0 |
| Total opportunities | 10.0 | 131.0 | 79.0 | 18.0 | 16.0 |
| | | | | | |
| **Indicator value** | | | **97.2%** | **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 | | | 80.0 | 87.0 | 86.0 |
| Total Key personnel | | | 87.0 | 87.0 | 86.0 |
| | | | | | |
| **Indicator value** | | | **92.0%** | **100.0%** | **100.0%** |

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 | 107 | 108 | 107 | 108 | 109 |
| Total sirens-tests | 110 | 110 | 110 | 110 | 110 |
| | | | | | |
| **Indicator value** | **97.0%** | **97.3%** | **97.7%** | **97.7%** | **98.2%** |

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 |
| **Indicator value** | **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/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 | 58.01 | 411.12 | 1198.33 | 333.60 | 147.23 |
| CCTV compensatory hours | 0 | 0 | 0 | 0 | 0 |
| IDS normalization factor | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | |
| **Index Value** | **0.015** | **0.020** | **0.039** | **0.040** | **0.042** |

Licensee Comments: none

## 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*

# Beaver Valley 2

## 2Q/2000 Performance Indicators

Licensee's General Comments: none

**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 |
|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1940.4 | 1980.2 | 1919.2 | 2184.0 | 2183.0 |
| | | | | | |
| **Indicator value** | **0** | **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 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/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 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 |
|---|---|---|---|---|---|
| Unplanned power changes | 0 | 1.0 | 1.0 | 0 | 0 |
| Critical hours | 1940.4 | 1980.2 | 1919.2 | 2184.0 | 2183.0 |
| | | | | | |
| **Indicator value** | **1.3** | **1.9** | **1.9** | **1.7** | **1.7** |

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 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 1.20 | 4.30 | 9.50 | 5.60 | 7.30 |
| 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 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 |
| **Train 2** | | | | | |
| Planned unavailable hours | 8.70 | 2.80 | 17.70 | 10.40 | 11.10 |
| Unplanned unavailable hours | 0 | 91.40 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 |
| | | | | | |
| **Indicator value** | **0.1%** | **0.3%** | **0.3%** | **0.4%** | **0.4%** |

Licensee Comments: none

## 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) | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0.13 |
| 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 | 1938.40 | 1397.50 | 1928.40 | 2184.00 | 2183.00 |
| **Train 2** | | | | | |
| Planned unavailable hours | 20.60 | 0 | 0 | 0 | 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 | 1938.40 | 1397.50 | 1928.40 | 2184.00 | 2183.00 |
| | | | | | |
| **Indicator value** | | | **1.1%** | **1.0%** | **0.9%** |

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) | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 0 | 15.60 | 0 | 0 | 0.23 |
| 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 | 1938.40 | 1464.10 | 1935.70 | 2184.00 | 2183.00 |
| **Train 2** | | | | | |
| Planned unavailable hours | 12.70 | 0 | 0 | 0 | 11.03 |
| Unplanned unavailable hours | 0 | 0 | 0 | 81.00 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1938.40 | 1464.10 | 1935.70 | 2184.00 | 2183.00 |
| **Train 3** | | | | | |
| Planned unavailable hours | 1.90 | 3.60 | 7.90 | 4.95 | 0.93 |
| 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 | 1938.40 | 1464.10 | 1935.70 | 2184.00 | 2183.00 |
| | | | | | |
| **Indicator value** | | | **0.3%** | **0.4%** | **0.4%** |

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 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 7.60 | 8.60 | 6.60 | 3.53 | 0.69 |
| 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 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 |
| **Train 2** | | | | | |
| Planned unavailable hours | 9.00 | 8.40 | 17.00 | 5.56 | 4.31 |
| 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 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 |
| **Train 3** | | | | | |
| Planned unavailable hours | 7.60 | 8.60 | 6.60 | 0 | 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 | 2183.00 | 2208.00 | 2209.00 | 0 | 0 |
| **Train 4** | | | | | |
| Planned unavailable hours | 9.00 | 8.40 | 17.00 | 0 | 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 | 2183.00 | 2208.00 | 2209.00 | 0 | 0 |
| | | | | | |
| **Indicator value** | | | **0.3%** | **0.2%** | **0.2%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

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

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 7/99 | 8/99 | 9/99 | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.001020 | 0.001090 | 0.001560 | 0.000970 | 0.000780 | 0.001280 | 0.000810 | 0.000778 | 0.000858 | 0.000833 | 0.000860 | 0.000891 |
| Technical specification limit | 1.0 | 1.0 | 1.0 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.2** | **0.3** | **0.2** | **0.4** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.3** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

### Notes

| Reactor Coolant System Leakage | 7/99 | 8/99 | 9/99 | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.180 | 0.203 | 0.243 | 0.516 | 0.302 | 0.143 | 0.325 | 0.137 | 0.152 | 0.147 | 0.136 | 0.187 |
| 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** | **1.8** | **2.0** | **2.4** | **5.2** | **3.0** | **1.4** | **3.3** | **1.4** | **1.5** | **1.5** | **1.4** | **1.9** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 |
|---|---|---|---|---|---|
| Successful opportunities | 129.0 | 77.0 | 18.0 | 16.0 | 76.0 |
| Total opportunities | 131.0 | 79.0 | 18.0 | 16.0 | 78.0 |
| | | | | | |
| **Indicator value** | | **97.2%** | **97.6%** | **97.9%** | **97.7%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 |
|---|---|---|---|---|---|
| Participating Key personnel | | 80.0 | 87.0 | 86.0 | 84.0 |
| Total Key personnel | | 87.0 | 87.0 | 86.0 | 84.0 |
| | | | | | |
| **Indicator value** | | **92.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 |
|---|---|---|---|---|---|
| Successful siren-tests | 108 | 107 | 108 | 109 | 110 |
| Total sirens-tests | 110 | 110 | 110 | 110 | 110 |
| | | | | | |
| **Indicator value** | **97.3%** | **97.7%** | **97.7%** | **98.2%** | **98.6%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/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 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## RETS/ODCM Radiological Effluent

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/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 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 |
|---|---|---|---|---|---|
| IDS compensatory hours | 411.12 | 1198.33 | 333.60 | 147.23 | 110.02 |
| CCTV compensatory hours | 0 | 0 | 0 | 0 | 0 |
| IDS normalization factor | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | |
| **Index Value** | **0.020** | **0.039** | **0.040** | **0.042** | **0.036** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Personnel Screening Program | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/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 | 2Q/99 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/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*

# Beaver Valley 2

## 3Q/2000 Performance Indicators

Licensee's General Comments: none

**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 |
|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1980.2 | 1919.2 | 2184.0 | 2183.0 | 2017.2 |
| | | | | | |
| **Indicator value** | **0** | **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 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/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 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 |
|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 1980.2 | 1919.2 | 2184.0 | 2183.0 | 2017.2 |
| | | | | | |
| **Indicator value** | **1.9** | **1.9** | **1.7** | **1.7** | **0.8** |

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 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 4.30 | 9.50 | 5.60 | 7.30 | 10.50 |
| 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 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | |
| Planned unavailable hours | 2.80 | 17.70 | 10.40 | 11.10 | 2.40 |
| Unplanned unavailable hours | 91.40 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 |
| | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.4%** | **0.4%** | **0.4%** |

Licensee Comments: none

## 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) | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0.13 | 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 | 1397.50 | 1928.40 | 2184.00 | 2183.00 | 2017.20 |
| **Train 2** | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 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 | 1397.50 | 1928.40 | 2184.00 | 2183.00 | 2017.20 |
| | | | | | |
| **Indicator value** | | **1.1%** | **1.0%** | **0.9%** | **0.1%** |

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) | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 15.60 | 0 | 0 | 0.23 | 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 | 1464.10 | 1935.70 | 2184.00 | 2183.00 | 2023.10 |
| **Train 2** | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 11.03 | 0 |
| Unplanned unavailable hours | 0 | 0 | 81.00 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1464.10 | 1935.70 | 2184.00 | 2183.00 | 2023.10 |
| **Train 3** | | | | | |
| Planned unavailable hours | 3.60 | 7.90 | 4.95 | 0.93 | 1.80 |
| 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 | 1464.10 | 1935.70 | 2184.00 | 2183.00 | 2023.10 |
| | | | | | |
| **Indicator value** | | **0.3%** | **0.4%** | **0.4%** | **0.4%** |

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 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 8.60 | 6.60 | 3.53 | 0.69 | 0.87 |
| 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 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2023.10 |
| **Train 2** | | | | | |
| Planned unavailable hours | 8.40 | 17.00 | 5.56 | 4.31 | 0.99 |
| 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 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2023.10 |
| **Train 3** | | | | | |
| Planned unavailable hours | 8.60 | 6.60 | 0 | 0 | 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 | 2208.00 | 2209.00 | 0 | 0 | 187.60 |
| **Train 4** | | | | | |
| Planned unavailable hours | 8.40 | 17.00 | 0 | 0 | 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 | 2208.00 | 2209.00 | 0 | 0 | 187.60 |
| | | | | | |
| **Indicator value** | | **0.3%** | **0.2%** | **0.2%** | **0.2%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

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

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000970 | 0.000780 | 0.001280 | 0.000810 | 0.000778 | 0.000858 | 0.000833 | 0.000860 | 0.000891 | 0.000907 | 0.002760 | 0.001128 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.3** | **0.2** | **0.4** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.3** | **0.3** | **0.8** | **0.3** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.516 | 0.302 | 0.143 | 0.325 | 0.137 | 0.152 | 0.147 | 0.136 | 0.187 | 0.195 | 0.150 | 0.138 |
| 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** | **5.2** | **3.0** | **1.4** | **3.3** | **1.4** | **1.5** | **1.5** | **1.4** | **1.9** | **2.0** | **1.5** | **1.4** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 |
|---|---|---|---|---|---|
| Successful opportunities | 77.0 | 18.0 | 16.0 | 76.0 | 50.0 |
| Total opportunities | 79.0 | 18.0 | 16.0 | 78.0 | 52.0 |
| | | | | | |
| **Indicator value** | **97.2%** | **97.6%** | **97.9%** | **97.7%** | **97.8%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 |
|---|---|---|---|---|---|
| Participating Key personnel | 80.0 | 87.0 | 86.0 | 84.0 | 83.0 |
| Total Key personnel | 87.0 | 87.0 | 86.0 | 84.0 | 83.0 |
| | | | | | |
| **Indicator value** | **92.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 |
|---|---|---|---|---|---|
| Successful siren-tests | 107 | 108 | 109 | 110 | 218 |
| Total sirens-tests | 110 | 110 | 110 | 110 | 220 |
| | | | | | |
| **Indicator value** | **97.7%** | **97.7%** | **98.2%** | **98.6%** | **99.1%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/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 |
| **Indicator value** | **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/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/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 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 |
|---|---|---|---|---|---|
| IDS compensatory hours | 1198.33 | 333.60 | 147.23 | 110.02 | 364.68 |
| CCTV compensatory hours | 0 | 0 | 0 | 0 | 0 |
| IDS normalization factor | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | |
| **Index Value** | **0.039** | **0.040** | **0.042** | **0.036** | **0.019** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Personnel Screening Program | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/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 | 3Q/99 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/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: March 29, 2002*

# Beaver Valley 2

## 4Q/2000 Performance Indicators

Licensee's General Comments: none

**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1919.2 | 2184.0 | 2183.0 | 2017.2 | 1454.3 |
| | | | | | |
| **Indicator value** | **0** | **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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 1919.2 | 2184.0 | 2183.0 | 2017.2 | 1454.3 |
| | | | | | |
| **Indicator value** | **1.9** | **1.7** | **1.7** | **0.8** | **0.9** |

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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 9.50 | 5.60 | 7.30 | 10.50 | 1.00 |
| 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 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | |
| Planned unavailable hours | 17.70 | 10.40 | 11.10 | 2.40 | 0.60 |
| 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 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | |
| **Indicator value** | **0.3%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** |

Licensee Comments: none

## 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) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 0 | 0 | 0.13 | 0 | 0.63 |
| 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 | 1928.40 | 2184.00 | 2183.00 | 2017.20 | 1455.13 |
| **Train 2** | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 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 | 1928.40 | 2184.00 | 2183.00 | 2017.20 | 1455.13 |
| | | | | | |
| **Indicator value** | **1.1%** | **1.0%** | **0.9%** | **0.1%** | **0.1%** |

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) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 0 | 0 | 0.23 | 0 | 12.92 |
| 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 | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 |
| **Train 2** | | | | | |
| Planned unavailable hours | 0 | 0 | 11.03 | 0 | 6.67 |
| Unplanned unavailable hours | 0 | 81.00 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 |
| **Train 3** | | | | | |
| Planned unavailable hours | 7.90 | 4.95 | 0.93 | 1.80 | 1.18 |
| 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 | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 |
| | | | | | |
| **Indicator value** | **0.3%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** |

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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|---|---|---|---|---|
| **Train 1** | | | | | |
| Planned unavailable hours | 6.60 | 3.53 | 0.69 | 0.87 | 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 | 2209.00 | 2184.00 | 2183.00 | 2023.10 | 1543.10 |
| **Train 2** | | | | | |
| Planned unavailable hours | 17.00 | 5.56 | 4.31 | 0.99 | 7.18 |
| 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 | 2184.00 | 2183.00 | 2023.10 | 1543.10 |
| **Train 3** | | | | | |
| Planned unavailable hours | 6.60 | 0 | 0 | 0 | 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 | 2209.00 | 0 | 0 | 187.60 | 608.00 |
| **Train 4** | | | | | |
| Planned unavailable hours | 17.00 | 0 | 0 | 0 | 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 | 2209.00 | 0 | 0 | 187.60 | 608.00 |
| | | | | | |
| **Indicator value** | **0.3%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

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

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000810 | 0.000778 | 0.000858 | 0.000833 | 0.000860 | 0.000891 | 0.000907 | 0.002760 | 0.001128 | N/A | 0.000277 | 0.000277 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.3** | **0.3** | **0.8** | **0.3** | **N/A** | **0.1** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.325 | 0.137 | 0.152 | 0.147 | 0.136 | 0.187 | 0.195 | 0.150 | 0.138 | 0.091 | 0.212 | 0.679 |
| 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** | **3.3** | **1.4** | **1.5** | **1.5** | **1.4** | **1.9** | **2.0** | **1.5** | **1.4** | **0.9** | **2.1** | **6.8** |

Licensee Comments:

12/00: Plant shutdown occurred 12/11/00 due to unidentified leakage.

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|---|---|---|---|---|
| Successful opportunities | 18.0 | 16.0 | 76.0 | 50.0 | 46.0 |
| Total opportunities | 18.0 | 16.0 | 78.0 | 52.0 | 47.0 |
| | | | | | |
| **Indicator value** | **97.6%** | **97.9%** | **97.7%** | **97.8%** | **97.9%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|---|---|---|---|---|
| Participating Key personnel | 87.0 | 86.0 | 84.0 | 83.0 | 85.0 |
| Total Key personnel | 87.0 | 86.0 | 84.0 | 83.0 | 85.0 |
| | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|---|---|---|---|---|
| Successful siren-tests | 108 | 109 | 110 | 218 | 110 |
| Total sirens-tests | 110 | 110 | 110 | 220 | 110 |
| | | | | | |
| **Indicator value** | **97.7%** | **98.2%** | **98.6%** | **99.1%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/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 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## RETS/ODCM Radiological Effluent

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|---|---|---|---|---|
| IDS compensatory hours | 333.60 | 147.23 | 110.02 | 364.68 | 373.33 |
| CCTV compensatory hours | 0 | 0 | 0 | 0 | 0 |
| IDS normalization factor | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | |
| **Index Value** | **0.040** | **0.042** | **0.036** | **0.019** | **0.020** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

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

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

*Last Modified: March 28, 2002*

# Beaver Valley 2

## 1Q/2001 Performance Indicators

Licensee's General Comments: none

**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 1919.2 | 2184.0 | 2183.0 | 2017.2 | 1454.3 | 2112.1 |
| | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.9** |

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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Indicator value** | **0** | **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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 1919.2 | 2184.0 | 2183.0 | 2017.2 | 1454.3 | 2142.1 |
| | | | | | | |
| **Indicator value** | **1.9** | **1.7** | **1.7** | **0.8** | **0.9** | **0.9** |

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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| **Train 1** | | | | | | |
| Planned unavailable hours | 9.50 | 5.60 | 7.30 | 10.50 | 1.00 | 1.50 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | |
| Planned unavailable hours | 17.70 | 10.40 | 11.10 | 2.40 | 0.60 | 1.90 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | |
| **Indicator value** | **0.3%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** |

Licensee Comments: none

## 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) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| **Train 1** | | | | | | |
| Planned unavailable hours | 0 | 0 | 0.13 | 0 | 0.63 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1928.40 | 2184.00 | 2183.00 | 2017.20 | 1455.13 | 2112.10 |
| **Train 2** | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0.93 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1928.40 | 2184.00 | 2183.00 | 2017.20 | 1455.13 | 2112.10 |
| | | | | | | |
| **Indicator value** | **1.1%** | **1.0%** | **0.9%** | **0.1%** | **0.1%** | **0.1%** |

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) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| **Train 1** | | | | | | |
| Planned unavailable hours | 0 | 0 | 0.23 | 0 | 12.92 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 |
| **Train 2** | | | | | | |
| Planned unavailable hours | 0 | 0 | 11.03 | 0 | 6.67 | 0 |
| Unplanned unavailable hours | 0 | 81.00 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 |
| **Train 3** | | | | | | |
| Planned unavailable hours | 7.90 | 4.95 | 0.93 | 1.80 | 1.18 | 14.81 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 |
| | | | | | | |
| **Indicator value** | **0.3%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** |

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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| **Train 1** | | | | | | |
| Planned unavailable hours | 6.60 | 3.53 | 0.69 | 0.87 | 0 | 9.76 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2023.10 | 1543.10 | 2160.00 |
| **Train 2** | | | | | | |
| Planned unavailable hours | 17.00 | 5.56 | 4.31 | 0.99 | 7.18 | 0.60 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2023.10 | 1543.10 | 2160.00 |
| **Train 3** | | | | | | |
| Planned unavailable hours | 6.60 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 0 | 0 | 187.60 | 608.00 | 0 |
| **Train 4** | | | | | | |
| Planned unavailable hours | 17.00 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 0 | 0 | 187.60 | 608.00 | 0 |
| | | | | | | |
| **Indicator value** | **0.3%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.3%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Indicator value** | **1** | **1** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000970 | 0.000780 | 0.001280 | 0.000810 | 0.000778 | 0.000858 | 0.000833 | 0.000860 | 0.000891 | 0.000907 | 0.002760 | 0.001128 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.3** | **0.2** | **0.4** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.3** | **0.3** | **0.8** | **0.3** |

| Reactor Coolant System Activity | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 |
|---|---|---|---|---|---|---|
| Maximum activity | N/A | 0.000277 | 0.000277 | 0.000349 | 0.000332 | 0.000572 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | |
| **Indicator value** | **N/A** | **0.1** | **0.1** | **0.1** | **0.1** | **0.2** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.516 | 0.302 | 0.143 | 0.325 | 0.137 | 0.152 | 0.147 | 0.136 | 0.187 | 0.195 | 0.150 | 0.138 |
| 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** | **5.2** | **3.0** | **1.4** | **3.3** | **1.4** | **1.5** | **1.5** | **1.4** | **1.9** | **2.0** | **1.5** | **1.4** |

| Reactor Coolant System Leakage | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 |
|---|---|---|---|---|---|---|
| Maximum leakage | 0.091 | 0.212 | 0.679 | 0.102 | 0.145 | 0.101 |
| Technical specification limit | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| | | | | | | |
| **Indicator value** | **0.9** | **2.1** | **6.8** | **1.0** | **1.5** | **1.0** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| Successful opportunities | 18.0 | 16.0 | 76.0 | 50.0 | 46.0 | 8.0 |
| Total opportunities | 18.0 | 16.0 | 78.0 | 52.0 | 47.0 | 8.0 |
| | | | | | | |
| **Indicator value** | **97.6%** | **97.9%** | **97.7%** | **97.8%** | **97.9%** | **97.9%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| Participating Key personnel | 87.0 | 86.0 | 84.0 | 83.0 | 85.0 | 85.0 |
| Total Key personnel | 87.0 | 86.0 | 84.0 | 83.0 | 85.0 | 85.0 |
| | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| Successful siren-tests | 108 | 109 | 110 | 218 | 110 | 110 |
| Total sirens-tests | 110 | 110 | 110 | 220 | 110 | 110 |
| | | | | | | |
| **Indicator value** | **97.7%** | **98.2%** | **98.6%** | **99.1%** | **99.5%** | **99.6%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 |
| Very high radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Protected Area Security Performance Index

**Thresholds: White > 0.080**

## Notes

| Protected Area Security Performance Index | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| IDS compensatory hours | 333.60 | 147.23 | 110.02 | 364.68 | 373.33 | 155.00 |
| CCTV compensatory hours | 0 | 0 | 0 | 0 | 0 | 1.6 |
| IDS normalization factor | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | | |
| **Index Value** | **0.040** | **0.042** | **0.036** | **0.019** | **0.020** | **0.020** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Personnel Screening Program | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 |
|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none



*Last Modified: March 28, 2002*

# Beaver Valley 2

## 2Q/2001 Performance Indicators

Licensee's General Comments: Revised the "Unplanned Power Changes per 7,000 Critical Hours" for April, 2001 to include a 4/21/01 power reduction, based on disposition of FAQ (temp #26.7) at 12/13/01 meeting.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 1919.2 | 2184.0 | 2183.0 | 2017.2 | 1454.3 | 2112.1 | 2183.0 |
| | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.9** | **0.9** |

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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | |
| **Indicator value** | **0** | **0** | **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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 1.0 | 0 | 1.0 |
| Critical hours | 1919.2 | 2184.0 | 2183.0 | 2017.2 | 1454.3 | 2142.1 | 2183.0 |
| | | | | | | | |
| **Indicator value** | **1.9** | **1.7** | **1.7** | **0.8** | **0.9** | **0.9** | **1.8** |

Licensee Comments:

2Q/01: Value for April was revised to include a power reduction on 4/21/01 which initially was not counted. Revised based on FAQ decision reviewed (with tentative approval) at 12/13/01 meeting.

## Safety System Unavailability, Emergency AC Power

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

## Notes

| Safety System Unavailability, Emergency AC Power | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | |
| Planned unavailable hours | 9.50 | 5.60 | 7.30 | 10.50 | 1.00 | 1.50 | 13.20 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| **Train 2** | | | | | | | |
| Planned unavailable hours | 17.70 | 10.40 | 11.10 | 2.40 | 0.60 | 1.90 | 10.10 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| | | | | | | | |
| **Indicator value** | **0.3%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** |

Licensee Comments: none

## 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) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0.13 | 0 | 0.63 | 0 | 1.00 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1928.40 | 2184.00 | 2183.00 | 2017.20 | 1455.13 | 2112.10 | 2183.00 |
| **Train 2** | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0.93 | 0.73 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1928.40 | 2184.00 | 2183.00 | 2017.20 | 1455.13 | 2112.10 | 2183.00 |
| | | | | | | | |
| **Indicator value** | **1.1%** | **1.0%** | **0.9%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

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) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0.23 | 0 | 12.92 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 |
| **Train 2** | | | | | | | |
| Planned unavailable hours | 0 | 0 | 11.03 | 0 | 6.67 | 0 | 0 |
| Unplanned unavailable hours | 0 | 81.00 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 |
| **Train 3** | | | | | | | |
| Planned unavailable hours | 7.90 | 4.95 | 0.93 | 1.80 | 1.18 | 14.81 | 2.36 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 |
| | | | | | | | |
| **Indicator value** | **0.3%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** |

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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | |
| Planned unavailable hours | 6.60 | 3.53 | 0.69 | 0.87 | 0 | 9.76 | 0.54 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2023.10 | 1543.10 | 2160.00 | 2183.00 |
| **Train 2** | | | | | | | |
| Planned unavailable hours | 17.00 | 5.56 | 4.31 | 0.99 | 7.18 | 0.60 | 0.66 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2023.10 | 1543.10 | 2160.00 | 2183.00 |
| **Train 3** | | | | | | | |
| Planned unavailable hours | 6.60 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 0 | 0 | 187.60 | 608.00 | 0 | 0 |
| **Train 4** | | | | | | | |
| Planned unavailable hours | 17.00 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 0 | 0 | 187.60 | 608.00 | 0 | 0 |
| | | | | | | | |
| **Indicator value** | **0.3%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.3%** | **0.3%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | |
| **Indicator value** | **1** | **1** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000970 | 0.000780 | 0.001280 | 0.000810 | 0.000778 | 0.000858 | 0.000833 | 0.000860 | 0.000891 | 0.000907 | 0.002760 | 0.001128 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.3** | **0.2** | **0.4** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.3** | **0.3** | **0.8** | **0.3** |

| Reactor Coolant System Activity | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 |
|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | N/A | 0.000277 | 0.000277 | 0.000349 | 0.000332 | 0.000572 | 0.000348 | 0.000415 | 0.000372 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | |
| **Indicator value** | **N/A** | **0.1** | **0.1** | **0.1** | **0.1** | **0.2** | **0.1** | **0.1** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.516 | 0.302 | 0.143 | 0.325 | 0.137 | 0.152 | 0.147 | 0.136 | 0.187 | 0.195 | 0.150 | 0.138 |
| 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** | **5.2** | **3.0** | **1.4** | **3.3** | **1.4** | **1.5** | **1.5** | **1.4** | **1.9** | **2.0** | **1.5** | **1.4** |

| Reactor Coolant System Leakage | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 |
|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.091 | 0.212 | 0.679 | 0.102 | 0.145 | 0.101 | 0.162 | 0.148 | 0.175 |
| Technical specification limit | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| | | | | | | | | | |
| **Indicator value** | **0.9** | **2.1** | **6.8** | **1.0** | **1.5** | **1.0** | **1.6** | **1.5** | **1.8** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| Successful opportunities | 18.0 | 16.0 | 76.0 | 50.0 | 46.0 | 8.0 | 71.0 |
| Total opportunities | 18.0 | 16.0 | 78.0 | 52.0 | 47.0 | 8.0 | 75.0 |
| | | | | | | | |
| **Indicator value** | **97.6%** | **97.9%** | **97.7%** | **97.8%** | **97.9%** | **97.9%** | **97.1%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| Participating Key personnel | 87.0 | 86.0 | 84.0 | 83.0 | 85.0 | 85.0 | 91.0 |
| Total Key personnel | 87.0 | 86.0 | 84.0 | 83.0 | 85.0 | 85.0 | 91.0 |
| | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| Successful siren-tests | 108 | 109 | 110 | 218 | 110 | 110 | 110 |
| Total sirens-tests | 110 | 110 | 110 | 220 | 110 | 110 | 110 |
| | | | | | | | |
| **Indicator value** | **97.7%** | **98.2%** | **98.6%** | **99.1%** | **99.5%** | **99.6%** | **99.6%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Very high radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Protected Area Security Performance Index

**Thresholds: White > 0.080**

## Notes

| Protected Area Security Performance Index | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 333.60 | 147.23 | 110.02 | 364.68 | 373.33 | 155.00 | 584.02 |
| CCTV compensatory hours | 0 | 0 | 0 | 0 | 0 | 1.6 | 0 |
| IDS normalization factor | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.82 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | | | |
| **Index Value** | **0.040** | **0.042** | **0.036** | **0.019** | **0.020** | **0.020** | **0.030** |

Licensee Comments:

2Q/01: IDS Normalization factor changed from 2.85 (for April and May) to 2.75 for June. Average of 2.8167 was used for Q2.

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Personnel Screening Program | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 |
|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

*Last Modified: March 27, 2002*

# Beaver Valley 2

## 3Q/2001 Performance Indicators

Licensee's General Comments: none

**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 1919.2 | 2184.0 | 2183.0 | 2017.2 | 1454.3 | 2112.1 | 2183.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** |

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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 1.0 | 0 | 1.0 | 0 |
| Critical hours | 1919.2 | 2184.0 | 2183.0 | 2017.2 | 1454.3 | 2142.1 | 2183.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **1.9** | **1.7** | **1.7** | **0.8** | **0.9** | **0.9** | **1.8** | **1.8** |

Licensee Comments:

2Q/01: Value for April was revised to include a power reduction on 4/21/01 which initially was not counted. Revised based on FAQ decision reviewed (with tentative approval) at 12/13/01 meeting.

## Safety System Unavailability, Emergency AC Power

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

## Notes

| Safety System Unavailability, Emergency AC Power | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 9.50 | 5.60 | 7.30 | 10.50 | 1.00 | 1.50 | 13.20 | 1.90 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 17.70 | 10.40 | 11.10 | 2.40 | 0.60 | 1.90 | 10.10 | 1.40 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** |

Licensee Comments: none

## 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) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0.13 | 0 | 0.63 | 0 | 1.00 | 1.58 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1928.40 | 2184.00 | 2183.00 | 2017.20 | 1455.13 | 2112.10 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0.93 | 0.73 | 0.83 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1928.40 | 2184.00 | 2183.00 | 2017.20 | 1455.13 | 2112.10 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **1.1%** | **1.0%** | **0.9%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

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) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0.23 | 0 | 12.92 | 0 | 0 | 5.20 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 11.03 | 0 | 6.67 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 81.00 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 7.90 | 4.95 | 0.93 | 1.80 | 1.18 | 14.81 | 2.36 | 1.62 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1935.70 | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.3%** |

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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 6.60 | 3.53 | 0.69 | 0.87 | 0 | 9.76 | 0.54 | 0.53 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2023.10 | 1543.10 | 2160.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 17.00 | 5.56 | 4.31 | 0.99 | 7.18 | 0.60 | 0.66 | 0.55 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2023.10 | 1543.10 | 2160.00 | 2183.00 | 2208.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 6.60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 0 | 0 | 187.60 | 608.00 | 0 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 17.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 0 | 0 | 187.60 | 608.00 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.3%** | **0.3%** | **0.3%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **1** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000970 | 0.000780 | 0.001280 | 0.000810 | 0.000778 | 0.000858 | 0.000833 | 0.000860 | 0.000891 | 0.000907 | 0.002760 | 0.001128 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.3** | **0.2** | **0.4** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.3** | **0.3** | **0.8** | **0.3** |

| Reactor Coolant System Activity | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | N/A | 0.000277 | 0.000277 | 0.000349 | 0.000332 | 0.000572 | 0.000348 | 0.000415 | 0.000372 | 0.000365 | 0.000403 | 0.000370 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **N/A** | **0.1** | **0.1** | **0.1** | **0.1** | **0.2** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 10/99 | 11/99 | 12/99 | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.516 | 0.302 | 0.143 | 0.325 | 0.137 | 0.152 | 0.147 | 0.136 | 0.187 | 0.195 | 0.150 | 0.138 |
| 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** | **5.2** | **3.0** | **1.4** | **3.3** | **1.4** | **1.5** | **1.5** | **1.4** | **1.9** | **2.0** | **1.5** | **1.4** |

| Reactor Coolant System Leakage | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.091 | 0.212 | 0.679 | 0.102 | 0.145 | 0.101 | 0.162 | 0.148 | 0.175 | 0.127 | 0.117 | 0.157 |
| 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** | **0.9** | **2.1** | **6.8** | **1.0** | **1.5** | **1.0** | **1.6** | **1.5** | **1.8** | **1.3** | **1.2** | **1.6** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 18.0 | 16.0 | 76.0 | 50.0 | 46.0 | 8.0 | 71.0 | 38.0 |
| Total opportunities | 18.0 | 16.0 | 78.0 | 52.0 | 47.0 | 8.0 | 75.0 | 39.0 |
| | | | | | | | | |
| **Indicator value** | **97.6%** | **97.9%** | **97.7%** | **97.8%** | **97.9%** | **97.9%** | **97.1%** | **97.0%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 87.0 | 86.0 | 84.0 | 83.0 | 85.0 | 85.0 | 91.0 | 102.0 |
| Total Key personnel | 87.0 | 86.0 | 84.0 | 83.0 | 85.0 | 85.0 | 91.0 | 102.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 108 | 109 | 110 | 218 | 110 | 110 | 110 | 109 |
| Total sirens-tests | 110 | 110 | 110 | 220 | 110 | 110 | 110 | 110 |
| | | | | | | | | |
| **Indicator value** | **97.7%** | **98.2%** | **98.6%** | **99.1%** | **99.5%** | **99.6%** | **99.6%** | **99.8%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| 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 | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Protected Area Security Performance Index

**Thresholds: White > 0.080**

## Notes

| Protected Area Security Performance Index | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 333.60 | 147.23 | 110.02 | 364.68 | 373.33 | 155.00 | 584.02 | 108.39 |
| CCTV compensatory hours | 0 | 0 | 0 | 0 | 0 | 1.6 | 0 | 0 |
| IDS normalization factor | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.82 | 2.75 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | | | | |
| **Index Value** | **0.040** | **0.042** | **0.036** | **0.019** | **0.020** | **0.020** | **0.030** | **0.025** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Personnel Screening Program | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

*Last Modified: March 26, 2002*

# Beaver Valley 2

## 4Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2183.0 | 2017.2 | 1454.3 | 2112.1 | 2183.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.8** |

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/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 1.0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 2184.0 | 2183.0 | 2017.2 | 1454.3 | 2142.1 | 2183.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **1.7** | **1.7** | **0.8** | **0.9** | **0.9** | **1.8** | **1.8** | **0.8** |

Licensee Comments:

2Q/01: Value for April was revised to include a power reduction on 4/21/01 which initially was not counted. Revised based on FAQ decision reviewed (with tentative approval) at 12/13/01 meeting.

## Safety System Unavailability, Emergency AC Power

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

## Notes

| Safety System Unavailability, Emergency AC Power | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 5.60 | 7.30 | 10.50 | 1.00 | 1.50 | 13.20 | 1.90 | 8.40 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 10.40 | 11.10 | 2.40 | 0.60 | 1.90 | 10.10 | 1.40 | 2.20 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** |

Licensee Comments: none

## 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/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 0.13 | 0 | 0.63 | 0 | 1.00 | 1.58 | 0.93 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2017.20 | 1455.13 | 2112.10 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0.93 | 0.73 | 0.83 | 0.77 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2017.20 | 1455.13 | 2112.10 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **1.0%** | **0.9%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

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/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 0.23 | 0 | 12.92 | 0 | 0 | 5.20 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 11.03 | 0 | 6.67 | 0 | 0 | 0 | 12.33 |
| Unplanned unavailable hours | 81.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 4.95 | 0.93 | 1.80 | 1.18 | 14.81 | 2.36 | 1.62 | 1.16 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.3%** | **0.3%** |

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/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 3.53 | 0.69 | 0.87 | 0 | 9.76 | 0.54 | 0.53 | 1.22 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2023.10 | 1543.10 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 5.56 | 4.31 | 0.99 | 7.18 | 0.60 | 0.66 | 0.55 | 1.03 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2023.10 | 1543.10 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 187.60 | 608.00 | 0 | 0 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 187.60 | 608.00 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000810 | 0.000778 | 0.000858 | 0.000833 | 0.000860 | 0.000891 | 0.000907 | 0.002760 | 0.001128 | N/A | 0.000277 | 0.000277 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.3** | **0.3** | **0.8** | **0.3** | **N/A** | **0.1** | **0.1** |

| Reactor Coolant System Activity | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000349 | 0.000332 | 0.000572 | 0.000348 | 0.000415 | 0.000372 | 0.000365 | 0.000403 | 0.000370 | 0.000413 | 0.000432 | 0.000423 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.2** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.325 | 0.137 | 0.152 | 0.147 | 0.136 | 0.187 | 0.195 | 0.150 | 0.138 | 0.091 | 0.212 | 0.679 |
| 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** | **3.3** | **1.4** | **1.5** | **1.5** | **1.4** | **1.9** | **2.0** | **1.5** | **1.4** | **0.9** | **2.1** | **6.8** |

| Reactor Coolant System Leakage | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.102 | 0.145 | 0.101 | 0.162 | 0.148 | 0.175 | 0.127 | 0.117 | 0.157 | 0.113 | 0.101 | 0.122 |
| 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** | **1.0** | **1.5** | **1.0** | **1.6** | **1.5** | **1.8** | **1.3** | **1.2** | **1.6** | **1.1** | **1.0** | **1.2** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 16.0 | 76.0 | 50.0 | 46.0 | 8.0 | 71.0 | 38.0 | 39.0 |
| Total opportunities | 16.0 | 78.0 | 52.0 | 47.0 | 8.0 | 75.0 | 39.0 | 39.0 |
| | | | | | | | | |
| **Indicator value** | **97.9%** | **97.7%** | **97.8%** | **97.9%** | **97.9%** | **97.1%** | **97.0%** | **97.2%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 86.0 | 84.0 | 83.0 | 85.0 | 85.0 | 91.0 | 102.0 | 104.0 |
| Total Key personnel | 86.0 | 84.0 | 83.0 | 85.0 | 85.0 | 91.0 | 102.0 | 104.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 109 | 110 | 218 | 110 | 110 | 110 | 109 | 218 |
| Total sirens-tests | 110 | 110 | 220 | 110 | 110 | 110 | 110 | 220 |
| | | | | | | | | |
| **Indicator value** | **98.2%** | **98.6%** | **99.1%** | **99.5%** | **99.6%** | **99.6%** | **99.8%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| 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/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Protected Area Security Performance Index

**Thresholds: White > 0.080**

## Notes

| Protected Area Security Performance Index | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 147.23 | 110.02 | 364.68 | 373.33 | 155.00 | 584.02 | 108.39 | 119.85 |
| CCTV compensatory hours | 0 | 0 | 0 | 0 | 1.6 | 0 | 0 | 7.1 |
| IDS normalization factor | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.82 | 2.75 | 2.75 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | | | | |
| **Index Value** | **0.042** | **0.036** | **0.019** | **0.020** | **0.020** | **0.030** | **0.025** | **0.020** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Personnel Screening Program | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

*Last Modified: March 15, 2002*

# Beaver Valley 2

## 1Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 2017.2 | 1454.3 | 2112.1 | 2183.0 | 2208.0 | 2209.0 | 1600.6 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.8** | **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 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 1.0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 2017.2 | 1454.3 | 2142.1 | 2183.0 | 2208.0 | 2209.0 | 1600.6 |
| | | | | | | | | |
| **Indicator value** | **1.7** | **0.8** | **0.9** | **0.9** | **1.8** | **1.8** | **0.8** | **0.9** |

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 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 7.30 | 10.50 | 1.00 | 1.50 | 13.20 | 1.90 | 8.40 | 2.10 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.30 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100.40 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 11.10 | 2.40 | 0.60 | 1.90 | 10.10 | 1.40 | 2.20 | 1.90 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.6%** |

Licensee Comments: none

## 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) | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.13 | 0 | 0.63 | 0 | 1.00 | 1.58 | 0.93 | 0.65 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2017.20 | 1455.13 | 2112.10 | 2183.00 | 2208.00 | 2209.00 | 1657.45 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0.93 | 0.73 | 0.83 | 0.77 | 1.27 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2017.20 | 1455.13 | 2112.10 | 2183.00 | 2208.00 | 2209.00 | 1657.45 |
| | | | | | | | | |
| **Indicator value** | **0.9%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

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) | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.23 | 0 | 12.92 | 0 | 0 | 5.20 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 11.03 | 0 | 6.67 | 0 | 0 | 0 | 12.33 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0.93 | 1.80 | 1.18 | 14.81 | 2.36 | 1.62 | 1.16 | 10.46 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.3%** | **0.3%** | **0.3%** |

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 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.69 | 0.87 | 0 | 9.76 | 0.54 | 0.53 | 1.22 | 7.45 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2023.10 | 1543.10 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 4.31 | 0.99 | 7.18 | 0.60 | 0.66 | 0.55 | 1.03 | 27.45 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2023.10 | 1543.10 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 187.60 | 608.00 | 0 | 0 | 0 | 0 | 469.50 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 187.60 | 608.00 | 0 | 0 | 0 | 0 | 530.07 |
| | | | | | | | | |
| **Indicator value** | **0.2%** | **0.2%** | **0.2%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000833 | 0.000860 | 0.000891 | 0.000907 | 0.002760 | 0.001128 | N/A | 0.000277 | 0.000277 | 0.000349 | 0.000332 | 0.000572 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.2** | **0.2** | **0.3** | **0.3** | **0.8** | **0.3** | **N/A** | **0.1** | **0.1** | **0.1** | **0.1** | **0.2** |

| Reactor Coolant System Activity | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000348 | 0.000415 | 0.000372 | 0.000365 | 0.000403 | 0.000370 | 0.000413 | 0.000432 | 0.000423 | 0.000443 | 0.000115 | 0.000200 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.147 | 0.136 | 0.187 | 0.195 | 0.150 | 0.138 | 0.091 | 0.212 | 0.679 | 0.102 | 0.145 | 0.101 |
| 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** | **1.5** | **1.4** | **1.9** | **2.0** | **1.5** | **1.4** | **0.9** | **2.1** | **6.8** | **1.0** | **1.5** | **1.0** |

| Reactor Coolant System Leakage | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.162 | 0.148 | 0.175 | 0.127 | 0.117 | 0.157 | 0.113 | 0.101 | 0.122 | 0.104 | 0.070 | 0.130 |
| 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** | **1.6** | **1.5** | **1.8** | **1.3** | **1.2** | **1.6** | **1.1** | **1.0** | **1.2** | **1.0** | **0.7** | **1.3** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 76.0 | 50.0 | 46.0 | 8.0 | 71.0 | 38.0 | 39.0 | 5.0 |
| Total opportunities | 78.0 | 52.0 | 47.0 | 8.0 | 75.0 | 39.0 | 39.0 | 5.0 |
| | | | | | | | | |
| **Indicator value** | **97.7%** | **97.8%** | **97.9%** | **97.9%** | **97.1%** | **97.0%** | **97.2%** | **97.1%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 84.0 | 83.0 | 85.0 | 85.0 | 91.0 | 102.0 | 104.0 | 104.0 |
| Total Key personnel | 84.0 | 83.0 | 85.0 | 85.0 | 91.0 | 102.0 | 104.0 | 104.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 110 | 218 | 110 | 110 | 110 | 109 | 218 | 109 |
| Total sirens-tests | 110 | 220 | 110 | 110 | 110 | 110 | 220 | 110 |
| | | | | | | | | |
| **Indicator value** | **98.6%** | **99.1%** | **99.5%** | **99.6%** | **99.6%** | **99.8%** | **99.5%** | **99.3%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| 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 | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Protected Area Security Performance Index

Thresholds: White > 0.080

## Notes

| Protected Area Security Performance Index | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 110.02 | 364.68 | 373.33 | 155.00 | 584.02 | 108.39 | 119.85 | 287.09 |
| CCTV compensatory hours | 0 | 0 | 0 | 1.6 | 0 | 0 | 7.1 | 0 |
| IDS normalization factor | 2.85 | 2.85 | 2.85 | 2.85 | 2.82 | 2.75 | 2.75 | 2.75 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | | | | |
| **Index Value** | **0.036** | **0.019** | **0.020** | **0.020** | **0.030** | **0.025** | **0.020** | **0.023** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Personnel Screening Program | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 2Q/00 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

*Last Modified: May 1, 2002*

# Beaver Valley 2

## 2Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2017.2 | 1454.3 | 2112.1 | 2183.0 | 2208.0 | 2209.0 | 1600.6 | 2183.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.8** | **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 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 1.0 | 0 | 1.0 | 0 | 0 | 0 | 2.0 |
| Critical hours | 2017.2 | 1454.3 | 2142.1 | 2183.0 | 2208.0 | 2209.0 | 1600.6 | 2183.0 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **0.9** | **0.9** | **1.8** | **1.8** | **0.8** | **0.9** | **1.7** |

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 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 10.50 | 1.00 | 1.50 | 13.20 | 1.90 | 8.40 | 2.10 | 2.10 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0.30 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 100.40 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 2.40 | 0.60 | 1.90 | 10.10 | 1.40 | 2.20 | 1.90 | 1.80 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.6%** | **0.6%** |

Licensee Comments: none

## 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) | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 0.63 | 0 | 1.00 | 1.58 | 0.93 | 0.65 | 1.47 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2017.20 | 1455.13 | 2112.10 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0.93 | 0.73 | 0.83 | 0.77 | 1.27 | 0.92 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2017.20 | 1455.13 | 2112.10 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0%** |

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) | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 12.92 | 0 | 0 | 5.20 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 6.67 | 0 | 0 | 0 | 12.33 | 0 | 0.18 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 1.80 | 1.18 | 14.81 | 2.36 | 1.62 | 1.16 | 10.46 | 1.31 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2023.10 | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** |

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 | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.87 | 0 | 9.76 | 0.54 | 0.53 | 1.22 | 7.45 | 1.46 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2023.10 | 1543.10 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.99 | 7.18 | 0.60 | 0.66 | 0.55 | 1.03 | 27.45 | 2.52 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2023.10 | 1543.10 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 187.60 | 608.00 | 0 | 0 | 0 | 0 | 469.50 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 187.60 | 608.00 | 0 | 0 | 0 | 0 | 530.07 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.2%** | **0.2%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** |

Licensee Comments: none

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## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

### Notes

| **Safety System Functional Failures (PWR)** | **3Q/00** | **4Q/00** | **1Q/01** | **2Q/01** | **3Q/01** | **4Q/01** | **1Q/02** | **2Q/02** |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/00** | **8/00** | **9/00** | **10/00** | **11/00** | **12/00** | **1/01** | **2/01** | **3/01** | **4/01** | **5/01** | **6/01** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000907 | 0.002760 | 0.001128 | N/A | 0.000277 | 0.000277 | 0.000349 | 0.000332 | 0.000572 | 0.000348 | 0.000415 | 0.000372 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.3** | **0.8** | **0.3** | **N/A** | **0.1** | **0.1** | **0.1** | **0.1** | **0.2** | **0.1** | **0.1** | **0.1** |

| **Reactor Coolant System Activity** | **7/01** | **8/01** | **9/01** | **10/01** | **11/01** | **12/01** | **1/02** | **2/02** | **3/02** | **4/02** | **5/02** | **6/02** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000365 | 0.000403 | 0.000370 | 0.000413 | 0.000432 | 0.000423 | 0.000443 | 0.000115 | 0.000200 | 0.000160 | 0.000180 | 0.000190 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0.1** | **0.1** |

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Leakage | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.195 | 0.150 | 0.138 | 0.091 | 0.212 | 0.679 | 0.102 | 0.145 | 0.101 | 0.162 | 0.148 | 0.175 |
| 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** | **2.0** | **1.5** | **1.4** | **0.9** | **2.1** | **6.8** | **1.0** | **1.5** | **1.0** | **1.6** | **1.5** | **1.8** |

| Reactor Coolant System Leakage | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.127 | 0.117 | 0.157 | 0.113 | 0.101 | 0.122 | 0.104 | 0.070 | 0.130 | 0.101 | 0.159 | 0.109 |
| 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** | **1.3** | **1.2** | **1.6** | **1.1** | **1.0** | **1.2** | **1.0** | **0.7** | **1.3** | **1.0** | **1.6** | **1.1** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 50.0 | 46.0 | 8.0 | 71.0 | 38.0 | 39.0 | 5.0 | 29.0 |
| Total opportunities | 52.0 | 47.0 | 8.0 | 75.0 | 39.0 | 39.0 | 5.0 | 34.0 |
| | | | | | | | | |
| **Indicator value** | **97.8%** | **97.9%** | **97.9%** | **97.1%** | **97.0%** | **97.2%** | **97.1%** | **95.7%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 83.0 | 85.0 | 85.0 | 91.0 | 102.0 | 104.0 | 104.0 | 105.0 |
| Total Key personnel | 83.0 | 85.0 | 85.0 | 91.0 | 102.0 | 104.0 | 104.0 | 105.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 218 | 110 | 110 | 110 | 109 | 218 | 109 | 117 |
| Total sirens-tests | 220 | 110 | 110 | 110 | 110 | 220 | 110 | 117 |
| | | | | | | | | |
| **Indicator value** | **99.1%** | **99.5%** | **99.6%** | **99.6%** | **99.8%** | **99.5%** | **99.3%** | **99.3%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Occupational Exposure Control Effectiveness | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| 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/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 0.080

## Notes

| Protected Area Security Performance Index | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 364.68 | 373.33 | 155.00 | 584.02 | 108.39 | 119.85 | 287.09 | 420.56 |
| CCTV compensatory hours | 0 | 0 | 1.6 | 0 | 0 | 7.1 | 0 | 6.4 |
| IDS normalization factor | 2.85 | 2.85 | 2.85 | 2.82 | 2.75 | 2.75 | 2.75 | 2.75 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | | | | |
| **Index Value** | **0.019** | **0.020** | **0.020** | **0.030** | **0.025** | **0.020** | **0.023** | **0.020** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Personnel Screening Program | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 3Q/00 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** |

Licensee Comments:

2Q/02: An FAQ has been submitted to determine if the event reported for May 2002 should be counted.

PI Summary | Inspection Findings Summary | Reactor Oversight Process

*Last Modified: July 31, 2002*

# Beaver Valley 2

## 3Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1454.3 | 2112.1 | 2183.0 | 2208.0 | 2209.0 | 1600.6 | 2183.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0.9** | **0.9** | **0.9** | **0.8** | **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 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 1.0 | 0 | 0 | 0 | 2.0 | 0 |
| Critical hours | 1454.3 | 2112.1 | 2183.0 | 2208.0 | 2209.0 | 1600.6 | 2183.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **1.8** | **1.8** | **0.8** | **0.9** | **1.7** | **1.7** |

Licensee Comments:

1Q/01: Corrected input error for Jan '01 critical hours (from 774) to 744.

## Safety System Unavailability, Emergency AC Power

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

## Notes

| Safety System Unavailability, Emergency AC Power | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.00 | 1.50 | 13.20 | 1.90 | 8.40 | 2.10 | 2.10 | 2.00 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0.30 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 100.40 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.60 | 1.90 | 10.10 | 1.40 | 2.20 | 1.90 | 1.80 | 1.40 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.90 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.6%** | **0.6%** | **0.4%** |

Licensee Comments: none

## 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)** | **4Q/00** | **1Q/01** | **2Q/01** | **3Q/01** | **4Q/01** | **1Q/02** | **2Q/02** | **3Q/02** |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.63 | 0 | 1.00 | 1.58 | 0.93 | 0.65 | 1.47 | 1.97 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1455.13 | 2112.10 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 0.93 | 0.73 | 0.83 | 0.77 | 1.27 | 0.92 | 1.22 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28.18 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1455.13 | 2112.10 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0%** | **0.1%** |

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) | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 12.92 | 0 | 0 | 5.20 | 0 | 0 | 0 | 25.76 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46.90 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 6.67 | 0 | 0 | 0 | 12.33 | 0 | 0.18 | 2.72 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 1.18 | 14.81 | 2.36 | 1.62 | 1.16 | 10.46 | 1.31 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1485.23 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** |

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 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 9.76 | 0.54 | 0.53 | 1.22 | 7.45 | 1.46 | 1.59 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1543.10 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 7.18 | 0.60 | 0.66 | 0.55 | 1.03 | 27.45 | 2.52 | 1.59 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1543.10 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 608.00 | 0 | 0 | 0 | 0 | 469.50 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 608.00 | 0 | 0 | 0 | 0 | 530.07 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.2%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | N/A | 0.000277 | 0.000277 | 0.000349 | 0.000332 | 0.000572 | 0.000348 | 0.000415 | 0.000372 | 0.000365 | 0.000403 | 0.000370 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **N/A** | **0.1** | **0.1** | **0.1** | **0.1** | **0.2** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

| Reactor Coolant System Activity | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 | 7/02 | 8/02 | 9/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000413 | 0.000432 | 0.000423 | 0.000443 | 0.000115 | 0.000200 | 0.000160 | 0.000180 | 0.000190 | 0.000198 | 0.000220 | 0.000265 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 10/00 | 11/00 | 12/00 | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.091 | 0.212 | 0.679 | 0.102 | 0.145 | 0.101 | 0.162 | 0.148 | 0.175 | 0.127 | 0.117 | 0.157 |
| 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** | **0.9** | **2.1** | **6.8** | **1.0** | **1.5** | **1.0** | **1.6** | **1.5** | **1.8** | **1.3** | **1.2** | **1.6** |

| Reactor Coolant System Leakage | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 | 7/02 | 8/02 | 9/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.113 | 0.101 | 0.122 | 0.104 | 0.070 | 0.130 | 0.101 | 0.159 | 0.109 | 0.144 | 0.089 | 0.140 |
| 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** | **1.1** | **1.0** | **1.2** | **1.0** | **0.7** | **1.3** | **1.0** | **1.6** | **1.1** | **1.4** | **0.9** | **1.4** |

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

## Notes

| Drill/Exercise Performance | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 46.0 | 8.0 | 71.0 | 38.0 | 39.0 | 5.0 | 25.0 | 46.0 |
| Total opportunities | 47.0 | 8.0 | 75.0 | 39.0 | 39.0 | 5.0 | 30.0 | 48.0 |
| | | | | | | | | |
| **Indicator value** | **97.9%** | **97.9%** | **97.1%** | **97.0%** | **97.2%** | **97.1%** | **95.6%** | **95.5%** |

Licensee Comments:

2Q/02: Correction to May 2002 data (from 15 of 18) to 11 of 14.

Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 85.0 | 85.0 | 91.0 | 102.0 | 104.0 | 104.0 | 105.0 | 120.0 |
| Total Key personnel | 85.0 | 85.0 | 91.0 | 102.0 | 104.0 | 104.0 | 105.0 | 120.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 110 | 110 | 110 | 109 | 218 | 109 | 117 | 117 |
| Total sirens-tests | 110 | 110 | 110 | 110 | 220 | 110 | 117 | 117 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.6%** | **99.6%** | **99.8%** | **99.5%** | **99.3%** | **99.3%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| 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 | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 0.080

## Notes

| Protected Area Security Performance Index | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 373.33 | 155.00 | 584.02 | 108.39 | 119.85 | 287.09 | 420.56 | 196.75 |
| CCTV compensatory hours | 0 | 1.6 | 0 | 0 | 7.1 | 0 | 6.4 | 0 |
| IDS normalization factor | 2.85 | 2.85 | 2.82 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | | | | |
| **Index Value** | **0.020** | **0.020** | **0.030** | **0.025** | **0.020** | **0.023** | **0.020** | **0.022** |

Licensee Comments: none

## Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Personnel Screening Program | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

## Notes

| FFD/Personnel Reliability | 4Q/00 | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **1** |

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

*Last Modified: October 22, 2002*

# Beaver Valley 2

## 4Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2112.1 | 2183.0 | 2208.0 | 2209.0 | 1600.6 | 2183.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0.9** | **0.8** | **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/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 6.0

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 1.0 | 0 | 0 | 0 | 2.0 | 0 | 0 |
| Critical hours | 2112.1 | 2183.0 | 2208.0 | 2209.0 | 1600.6 | 2183.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **1.8** | **1.8** | **0.8** | **0.9** | **1.7** | **1.7** | **1.7** |

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/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.50 | 13.20 | 1.90 | 8.40 | 2.10 | 2.10 | 2.00 | 2.80 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0.30 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 100.40 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.90 | 10.10 | 1.40 | 2.20 | 1.90 | 1.80 | 1.40 | 2.80 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 2.90 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.6%** | **0.6%** | **0.4%** | **0.4%** |

Licensee Comments: none

## 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/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 1.00 | 1.58 | 0.93 | 0.65 | 1.47 | 1.97 | 0.53 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2112.10 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.93 | 0.73 | 0.83 | 0.77 | 1.27 | 0.92 | 1.22 | 1.18 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 28.18 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2112.10 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0%** | **0.1%** | **0.1%** |

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/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 5.20 | 0 | 0 | 0 | 25.76 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 46.90 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 12.33 | 0 | 0.18 | 2.72 | 13.38 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 14.81 | 2.36 | 1.62 | 1.16 | 10.46 | 1.31 | 0 | 15.32 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.4%** |

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/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 9.76 | 0.54 | 0.53 | 1.22 | 7.45 | 1.46 | 1.59 | 4.61 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.60 | 0.66 | 0.55 | 1.03 | 27.45 | 2.52 | 1.59 | 21.32 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 0 | 469.50 | 0 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 0 | 530.07 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.1%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 1/01 | 2/01 | 3/01 | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000349 | 0.000332 | 0.000572 | 0.000348 | 0.000415 | 0.000372 | 0.000365 | 0.000403 | 0.000370 | 0.000413 | 0.000432 | 0.000423 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.2** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

| Reactor Coolant System Activity | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 | 7/02 | 8/02 | 9/02 | 10/02 | 11/02 | 12/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000443 | 0.000115 | 0.000200 | 0.000160 | 0.000180 | 0.000190 | 0.000198 | 0.000220 | 0.000265 | 0.000222 | 0.000229 | 0.000319 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0.1** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **1/01** | **2/01** | **3/01** | **4/01** | **5/01** | **6/01** | **7/01** | **8/01** | **9/01** | **10/01** | **11/01** | **12/01** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.102 | 0.145 | 0.101 | 0.162 | 0.148 | 0.175 | 0.127 | 0.117 | 0.157 | 0.113 | 0.101 | 0.122 |
| 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** | **1.0** | **1.5** | **1.0** | **1.6** | **1.5** | **1.8** | **1.3** | **1.2** | **1.6** | **1.1** | **1.0** | **1.2** |

| **Reactor Coolant System Leakage** | **1/02** | **2/02** | **3/02** | **4/02** | **5/02** | **6/02** | **7/02** | **8/02** | **9/02** | **10/02** | **11/02** | **12/02** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.104 | 0.070 | 0.130 | 0.101 | 0.159 | 0.109 | 0.144 | 0.089 | 0.140 | 0.186 | 0.124 | 0.085 |
| 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** | **1.0** | **0.7** | **1.3** | **1.0** | **1.6** | **1.1** | **1.4** | **0.9** | **1.4** | **1.9** | **1.2** | **0.9** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 8.0 | 71.0 | 38.0 | 39.0 | 5.0 | 25.0 | 46.0 | 29.0 |
| Total opportunities | 8.0 | 75.0 | 39.0 | 39.0 | 5.0 | 30.0 | 48.0 | 33.0 |
| | | | | | | | | |
| **Indicator value** | **97.9%** | **97.1%** | **97.0%** | **97.2%** | **97.1%** | **95.6%** | **95.5%** | **94.2%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 85.0 | 91.0 | 102.0 | 104.0 | 104.0 | 105.0 | 120.0 | 121.0 |
| Total Key personnel | 85.0 | 91.0 | 102.0 | 104.0 | 104.0 | 105.0 | 120.0 | 121.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 110 | 110 | 109 | 218 | 109 | 117 | 117 | 232 |
| Total sirens-tests | 110 | 110 | 110 | 220 | 110 | 117 | 117 | 234 |
| | | | | | | | | |
| **Indicator value** | **99.6%** | **99.6%** | **99.8%** | **99.5%** | **99.3%** | **99.3%** | **99.5%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| 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/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Protected Area Security Performance Index

Thresholds: White > 0.080

## Notes

| Protected Area Security Performance Index | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 155.00 | 584.02 | 108.39 | 119.85 | 287.09 | 420.56 | 196.75 | 43.38 |
| CCTV compensatory hours | 1.6 | 0 | 0 | 7.1 | 0 | 6.4 | 0 | 0 |
| IDS normalization factor | 2.85 | 2.82 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | | | | | | | |
| **Index Value** | **0.020** | **0.030** | **0.025** | **0.020** | **0.023** | **0.020** | **0.022** | **0.020** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Personnel Screening Program | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 1Q/01 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **1** | **1** | **1** |

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

*Last Modified: January 30, 2003*

# Beaver Valley 2

## 1Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 2208.0 | 2209.0 | 1600.6 | 2183.0 | 2208.0 | 2209.0 | 2160.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0.8** | **0** | **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 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 2208.0 | 2209.0 | 1600.6 | 2183.0 | 2208.0 | 2209.0 | 2160.0 |
| | | | | | | | | |
| **Indicator value** | **1.8** | **1.8** | **0.8** | **0.9** | **1.7** | **1.7** | **1.7** | **1.6** |

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 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 13.20 | 1.90 | 8.40 | 2.10 | 2.10 | 2.00 | 2.80 | 9.40 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0.30 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 100.40 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 10.10 | 1.40 | 2.20 | 1.90 | 1.80 | 1.40 | 2.80 | 12.50 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 2.90 | 0 | 0.70 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.6%** | **0.6%** | **0.4%** | **0.4%** | **0.4%** |

Licensee Comments: none

## 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)** | **2Q/01** | **3Q/01** | **4Q/01** | **1Q/02** | **2Q/02** | **3Q/02** | **4Q/02** | **1Q/03** |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.00 | 1.58 | 0.93 | 0.65 | 1.47 | 1.97 | 0.53 | 1.30 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.73 | 0.83 | 0.77 | 1.27 | 0.92 | 1.22 | 1.18 | 0.68 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 28.18 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0%** | **0.1%** | **0.1%** | **0.1%** |

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) | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 5.20 | 0 | 0 | 0 | 25.76 | 0 | 3.73 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 46.90 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 12.33 | 0 | 0.18 | 2.72 | 13.38 | 6.35 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 2.36 | 1.62 | 1.16 | 10.46 | 1.31 | 0 | 15.32 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.4%** | **0.3%** |

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 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.54 | 0.53 | 1.22 | 7.45 | 1.46 | 1.59 | 4.61 | 1.25 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.66 | 0.55 | 1.03 | 27.45 | 2.52 | 1.59 | 21.32 | 2.66 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 469.50 | 0 | 0 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 530.07 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.1%** | **0.1%** |

Licensee Comments: none

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## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

## Notes

| **Safety System Functional Failures (PWR)** | **2Q/01** | **3Q/01** | **4Q/01** | **1Q/02** | **2Q/02** | **3Q/02** | **4Q/02** | **1Q/03** |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/01** | **5/01** | **6/01** | **7/01** | **8/01** | **9/01** | **10/01** | **11/01** | **12/01** | **1/02** | **2/02** | **3/02** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000348 | 0.000415 | 0.000372 | 0.000365 | 0.000403 | 0.000370 | 0.000413 | 0.000432 | 0.000423 | 0.000443 | 0.000115 | 0.000200 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0** | **0.1** |

| **Reactor Coolant System Activity** | **4/02** | **5/02** | **6/02** | **7/02** | **8/02** | **9/02** | **10/02** | **11/02** | **12/02** | **1/03** | **2/03** | **3/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000160 | 0.000180 | 0.000190 | 0.000198 | 0.000220 | 0.000265 | 0.000222 | 0.000229 | 0.000319 | 0.000266 | 0.000259 | 0.000266 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 4/01 | 5/01 | 6/01 | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.162 | 0.148 | 0.175 | 0.127 | 0.117 | 0.157 | 0.113 | 0.101 | 0.122 | 0.104 | 0.070 | 0.130 |
| 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** | **1.6** | **1.5** | **1.8** | **1.3** | **1.2** | **1.6** | **1.1** | **1.0** | **1.2** | **1.0** | **0.7** | **1.3** |

| Reactor Coolant System Leakage | 4/02 | 5/02 | 6/02 | 7/02 | 8/02 | 9/02 | 10/02 | 11/02 | 12/02 | 1/03 | 2/03 | 3/03 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.101 | 0.159 | 0.109 | 0.144 | 0.089 | 0.140 | 0.186 | 0.124 | 0.085 | 0.074 | 0.081 | 0.115 |
| 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** | **1.0** | **1.6** | **1.1** | **1.4** | **0.9** | **1.4** | **1.9** | **1.2** | **0.9** | **0.7** | **0.8** | **1.2** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 71.0 | 38.0 | 39.0 | 5.0 | 25.0 | 46.0 | 29.0 | 2.0 |
| Total opportunities | 75.0 | 39.0 | 39.0 | 5.0 | 30.0 | 48.0 | 33.0 | 2.0 |
| | | | | | | | | |
| **Indicator value** | **97.1%** | **97.0%** | **97.2%** | **97.1%** | **95.6%** | **95.5%** | **94.2%** | **94.1%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 91.0 | 102.0 | 104.0 | 104.0 | 105.0 | 120.0 | 121.0 | 122.0 |
| Total Key personnel | 91.0 | 102.0 | 104.0 | 104.0 | 105.0 | 120.0 | 121.0 | 131.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **93.1%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

### Notes

| Alert & Notification System | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 110 | 109 | 218 | 109 | 117 | 117 | 232 | 116 |
| Total sirens-tests | 110 | 110 | 220 | 110 | 117 | 117 | 234 | 117 |
| | | | | | | | | |
| **Indicator value** | **99.6%** | **99.8%** | **99.5%** | **99.3%** | **99.3%** | **99.5%** | **99.5%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Occupational Exposure Control Effectiveness | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| 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 | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 0.080

## Notes

| Protected Area Security Performance Index | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 584.02 | 108.39 | 119.85 | 287.09 | 420.56 | 196.75 | 43.38 | 134.68 |
| CCTV compensatory hours | 0 | 0 | 7.1 | 0 | 6.4 | 0 | 0 | 0.5 |
| IDS normalization factor | 2.82 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.35 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.7 |
| | | | | | | | | |
| **Index Value** | **0.030** | **0.025** | **0.020** | **0.023** | **0.020** | **0.022** | **0.020** | **0.020** |

Licensee Comments:

1Q/03: Normalization Factors changed after January 2003, so averages were used for 1Q03. {IDS from 2.75 to 2.15; CCTV from 1.50 to 1.80}

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Personnel Screening Program | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 2Q/01 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments:

2Q/02: An FAQ has been submitted to determine if the event reported for May 2002 should be counted. FAQ 336 determined that this event should not be counted, therefore the value for May 2002 was changed to zero.

PI Summary | Inspection Findings Summary | Reactor Oversight Process

*Last Modified: April 22, 2003*

# Beaver Valley 2

## 2Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 1600.6 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 2183.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.8** | **0** | **0** | **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 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 1600.6 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 2183.0 |
| | | | | | | | | |
| **Indicator value** | **1.8** | **0.8** | **0.9** | **1.7** | **1.7** | **1.7** | **1.6** | **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 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.90 | 8.40 | 2.10 | 2.10 | 2.00 | 2.80 | 9.40 | 1.40 |
| Unplanned unavailable hours | 0 | 0 | 0.30 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 100.40 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.40 | 2.20 | 1.90 | 1.80 | 1.40 | 2.80 | 12.50 | 17.90 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 2.90 | 0 | 0.70 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.6%** | **0.6%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** |

Licensee Comments: none

## 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) | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.58 | 0.93 | 0.65 | 1.47 | 1.97 | 0.53 | 1.30 | 1.92 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.83 | 0.77 | 1.27 | 0.92 | 1.22 | 1.18 | 0.68 | 1.27 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 28.18 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

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) | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 5.20 | 0 | 0 | 0 | 25.76 | 0 | 3.73 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 46.90 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 12.33 | 0 | 0.18 | 2.72 | 13.38 | 6.35 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 1.62 | 1.16 | 10.46 | 1.31 | 0 | 15.32 | 0 | 9.33 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.4%** | **0.3%** | **0.3%** |

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 | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.53 | 1.22 | 7.45 | 1.46 | 1.59 | 4.61 | 1.25 | 1.33 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.55 | 1.03 | 27.45 | 2.52 | 1.59 | 21.32 | 2.66 | 2.73 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 469.50 | 0 | 0 | 0 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 530.07 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.1%** | **0.1%** | **0.1%** |

Licensee Comments: none

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## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

### Notes

| **Safety System Functional Failures (PWR)** | **3Q/01** | **4Q/01** | **1Q/02** | **2Q/02** | **3Q/02** | **4Q/02** | **1Q/03** | **2Q/03** |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/01** | **8/01** | **9/01** | **10/01** | **11/01** | **12/01** | **1/02** | **2/02** | **3/02** | **4/02** | **5/02** | **6/02** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000365 | 0.000403 | 0.000370 | 0.000413 | 0.000432 | 0.000423 | 0.000443 | 0.000115 | 0.000200 | 0.000160 | 0.000180 | 0.000190 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0.1** | **0.1** |

| **Reactor Coolant System Activity** | **7/02** | **8/02** | **9/02** | **10/02** | **11/02** | **12/02** | **1/03** | **2/03** | **3/03** | **4/03** | **5/03** | **6/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000198 | 0.000220 | 0.000265 | 0.000222 | 0.000229 | 0.000319 | 0.000266 | 0.000259 | 0.000266 | 0.000276 | 0.000352 | 0.000279 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Leakage | 7/01 | 8/01 | 9/01 | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.127 | 0.117 | 0.157 | 0.113 | 0.101 | 0.122 | 0.104 | 0.070 | 0.130 | 0.101 | 0.159 | 0.109 |
| 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** | **1.3** | **1.2** | **1.6** | **1.1** | **1.0** | **1.2** | **1.0** | **0.7** | **1.3** | **1.0** | **1.6** | **1.1** |

| Reactor Coolant System Leakage | 7/02 | 8/02 | 9/02 | 10/02 | 11/02 | 12/02 | 1/03 | 2/03 | 3/03 | 4/03 | 5/03 | 6/03 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.144 | 0.089 | 0.140 | 0.186 | 0.124 | 0.085 | 0.074 | 0.081 | 0.115 | 0.120 | 0.106 | 0.110 |
| 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** | **1.4** | **0.9** | **1.4** | **1.9** | **1.2** | **0.9** | **0.7** | **0.8** | **1.2** | **1.2** | **1.1** | **1.1** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 38.0 | 39.0 | 5.0 | 25.0 | 46.0 | 29.0 | 2.0 | 15.0 |
| Total opportunities | 39.0 | 39.0 | 5.0 | 30.0 | 48.0 | 33.0 | 2.0 | 16.0 |
| | | | | | | | | |
| **Indicator value** | **97.0%** | **97.2%** | **97.1%** | **95.6%** | **95.5%** | **94.2%** | **94.1%** | **93.9%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 102.0 | 104.0 | 104.0 | 105.0 | 120.0 | 121.0 | 122.0 | 123.0 |
| Total Key personnel | 102.0 | 104.0 | 104.0 | 105.0 | 120.0 | 121.0 | 131.0 | 131.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **93.1%** | **93.9%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

### Notes

| Alert & Notification System | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 109 | 218 | 109 | 117 | 117 | 232 | 116 | 117 |
| Total sirens-tests | 110 | 220 | 110 | 117 | 117 | 234 | 117 | 117 |
| | | | | | | | | |
| **Indicator value** | **99.8%** | **99.5%** | **99.3%** | **99.3%** | **99.5%** | **99.5%** | **99.5%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Occupational Exposure Control Effectiveness | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 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** | **1** |

Licensee Comments: none

## RETS/ODCM Radiological Effluent

**Thresholds: White > 1.0 Yellow > 3.0**

### Notes

| RETS/ODCM Radiological Effluent | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 0.080

## Notes

| Protected Area Security Performance Index | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 108.39 | 119.85 | 287.09 | 420.56 | 196.75 | 43.38 | 134.68 | 75.53 |
| CCTV compensatory hours | 0 | 7.1 | 0 | 6.4 | 0 | 0 | 0.5 | 3.1 |
| IDS normalization factor | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.35 | 2.15 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.7 | 1.8 |
| | | | | | | | | |
| **Index Value** | **0.025** | **0.020** | **0.023** | **0.020** | **0.022** | **0.020** | **0.020** | **0.012** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Personnel Screening Program | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 3Q/01 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

*Last Modified: July 22, 2003*

# Beaver Valley 2

## 3Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 1600.6 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 2183.0 | 1776.6 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **0** | **0** | **0** | **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 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 1600.6 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 2183.0 | 1776.6 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **0.9** | **1.7** | **1.7** | **1.7** | **1.6** | **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 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 8.40 | 2.10 | 2.10 | 2.00 | 2.80 | 9.40 | 1.40 | 33.40 |
| Unplanned unavailable hours | 0 | 0.30 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 100.40 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 2.20 | 1.90 | 1.80 | 1.40 | 2.80 | 12.50 | 17.90 | 1.90 |
| Unplanned unavailable hours | 0 | 0 | 0 | 2.90 | 0 | 0.70 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.6%** | **0.6%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.5%** |

Licensee Comments: none

## 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)** | **4Q/01** | **1Q/02** | **2Q/02** | **3Q/02** | **4Q/02** | **1Q/03** | **2Q/03** | **3Q/03** |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.93 | 0.65 | 1.47 | 1.97 | 0.53 | 1.30 | 1.92 | 0.60 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.77 | 1.27 | 0.92 | 1.22 | 1.18 | 0.68 | 1.27 | 1.37 |
| Unplanned unavailable hours | 0 | 0 | 0 | 28.18 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

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) | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 25.76 | 0 | 3.73 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 46.90 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 12.33 | 0 | 0.18 | 2.72 | 13.38 | 6.35 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 1.16 | 10.46 | 1.31 | 0 | 15.32 | 0 | 9.33 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.4%** | **0.3%** | **0.3%** | **0.3%** |

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 | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.22 | 7.45 | 1.46 | 1.59 | 4.61 | 1.25 | 1.33 | 1.07 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.03 | 27.45 | 2.52 | 1.59 | 21.32 | 2.66 | 2.73 | 2.43 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 469.50 | 0 | 0 | 0 | 0 | 0 | 255.10 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 530.07 | 0 | 0 | 0 | 0 | 0 | 255.10 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

Licensee Comments: none

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## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

## Notes

| **Safety System Functional Failures (PWR)** | **4Q/01** | **1Q/02** | **2Q/02** | **3Q/02** | **4Q/02** | **1Q/03** | **2Q/03** | **3Q/03** |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Activity | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 | 7/02 | 8/02 | 9/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000413 | 0.000432 | 0.000423 | 0.000443 | 0.000115 | 0.000200 | 0.000160 | 0.000180 | 0.000190 | 0.000198 | 0.000220 | 0.000265 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

| Reactor Coolant System Activity | 10/02 | 11/02 | 12/02 | 1/03 | 2/03 | 3/03 | 4/03 | 5/03 | 6/03 | 7/03 | 8/03 | 9/03 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000222 | 0.000229 | 0.000319 | 0.000266 | 0.000259 | 0.000266 | 0.000276 | 0.000352 | 0.000279 | 0.000486 | 0.000313 | 0.003800 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **1.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

### Notes

| Reactor Coolant System Leakage | 10/01 | 11/01 | 12/01 | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 | 7/02 | 8/02 | 9/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.113 | 0.101 | 0.122 | 0.104 | 0.070 | 0.130 | 0.101 | 0.159 | 0.109 | 0.144 | 0.089 | 0.140 |
| 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** | **1.1** | **1.0** | **1.2** | **1.0** | **0.7** | **1.3** | **1.0** | **1.6** | **1.1** | **1.4** | **0.9** | **1.4** |

| Reactor Coolant System Leakage | 10/02 | 11/02 | 12/02 | 1/03 | 2/03 | 3/03 | 4/03 | 5/03 | 6/03 | 7/03 | 8/03 | 9/03 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.186 | 0.124 | 0.085 | 0.074 | 0.081 | 0.115 | 0.120 | 0.106 | 0.110 | 0.125 | 0.102 | 0.077 |
| 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** | **1.9** | **1.2** | **0.9** | **0.7** | **0.8** | **1.2** | **1.2** | **1.1** | **1.1** | **1.3** | **1.0** | **0.8** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 39.0 | 5.0 | 25.0 | 46.0 | 29.0 | 2.0 | 15.0 | 14.0 |
| Total opportunities | 39.0 | 5.0 | 30.0 | 48.0 | 33.0 | 2.0 | 16.0 | 16.0 |
| | | | | | | | | |
| **Indicator value** | **97.2%** | **97.1%** | **95.6%** | **95.5%** | **94.2%** | **94.1%** | **93.9%** | **92.6%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 104.0 | 104.0 | 105.0 | 120.0 | 121.0 | 122.0 | 123.0 | 122.0 |
| Total Key personnel | 104.0 | 104.0 | 105.0 | 120.0 | 121.0 | 131.0 | 131.0 | 127.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **93.1%** | **93.9%** | **96.1%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

### Notes

| Alert & Notification System | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 218 | 109 | 117 | 117 | 232 | 116 | 117 | 238 |
| Total sirens-tests | 220 | 110 | 117 | 117 | 234 | 117 | 117 | 238 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.3%** | **99.3%** | **99.5%** | **99.5%** | **99.5%** | **99.5%** | **99.6%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Occupational Exposure Control Effectiveness | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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** | **1** | **1** |

Licensee Comments: none

## RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

### Notes

| RETS/ODCM Radiological Effluent | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 0.080

## Notes

| Protected Area Security Performance Index | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 119.85 | 287.09 | 420.56 | 196.75 | 43.38 | 134.68 | 75.53 | 95.44 |
| CCTV compensatory hours | 7.1 | 0 | 6.4 | 0 | 0 | 0.5 | 3.1 | 0 |
| IDS normalization factor | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.35 | 2.15 | 2.15 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.7 | 1.8 | 1.8 |
| | | | | | | | | |
| **Index Value** | **0.020** | **0.023** | **0.020** | **0.022** | **0.020** | **0.020** | **0.012** | **0.009** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Personnel Screening Program | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 4Q/01 | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

*Last Modified: October 22, 2003*

# Beaver Valley 2

## 4Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 1600.6 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 2183.0 | 1776.6 | 1933.8 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.9** |

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/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 6.0

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 1600.6 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 2183.0 | 1776.6 | 1933.8 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **1.7** | **1.7** | **1.7** | **1.6** | **0** | **0** | **0.9** |

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/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 2.10 | 2.10 | 2.00 | 2.80 | 9.40 | 1.40 | 33.40 | 6.90 |
| Unplanned unavailable hours | 0.30 | 0 | 0 | 0 | 0 | 0 | 0 | 6.50 |
| Fault exposure hours | 100.40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.90 | 1.80 | 1.40 | 2.80 | 12.50 | 17.90 | 1.90 | 1.80 |
| Unplanned unavailable hours | 0 | 0 | 2.90 | 0 | 0.70 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.6%** | **0.6%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.5%** | **0.5%** |

Licensee Comments: none

## 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/02** | **2Q/02** | **3Q/02** | **4Q/02** | **1Q/03** | **2Q/03** | **3Q/03** | **4Q/03** |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.65 | 1.47 | 1.97 | 0.53 | 1.30 | 1.92 | 0.60 | 0.87 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 1990.10 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.27 | 0.92 | 1.22 | 1.18 | 0.68 | 1.27 | 1.37 | 3.09 |
| Unplanned unavailable hours | 0 | 0 | 28.18 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 1990.10 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

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/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 25.76 | 0 | 3.73 | 0 | 0 | 7.15 |
| Unplanned unavailable hours | 0 | 0 | 46.90 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 0.18 | 2.72 | 13.38 | 6.35 | 0 | 0 | 4.18 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 10.46 | 1.31 | 0 | 15.32 | 0 | 9.33 | 0 | 0.52 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.3%** | **0.4%** | **0.3%** | **0.3%** | **0.3%** | **0.2%** |

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/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 7.45 | 1.46 | 1.59 | 4.61 | 1.25 | 1.33 | 1.07 | 1.72 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 2004.80 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 27.45 | 2.52 | 1.59 | 21.32 | 2.66 | 2.73 | 2.43 | 2.96 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1657.45 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 2004.80 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 469.50 | 0 | 0 | 0 | 0 | 0 | 255.10 | 218.90 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 530.07 | 0 | 0 | 0 | 0 | 0 | 255.10 | 218.90 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.3%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

Licensee Comments: none

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## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

### Notes

| **Safety System Functional Failures (PWR)** | **1Q/02** | **2Q/02** | **3Q/02** | **4Q/02** | **1Q/03** | **2Q/03** | **3Q/03** | **4Q/03** |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** |

Licensee Comments: none

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## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/02** | **2/02** | **3/02** | **4/02** | **5/02** | **6/02** | **7/02** | **8/02** | **9/02** | **10/02** | **11/02** | **12/02** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000443 | 0.000115 | 0.000200 | 0.000160 | 0.000180 | 0.000190 | 0.000198 | 0.000220 | 0.000265 | 0.000222 | 0.000229 | 0.000319 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0.1** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

| **Reactor Coolant System Activity** | **1/03** | **2/03** | **3/03** | **4/03** | **5/03** | **6/03** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000266 | 0.000259 | 0.000266 | 0.000276 | 0.000352 | 0.000279 | 0.000486 | 0.000313 | 0.003800 | 0.000853 | 0.000126 | 0.000156 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **1.1** | **0.2** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

### Notes

| Reactor Coolant System Leakage | 1/02 | 2/02 | 3/02 | 4/02 | 5/02 | 6/02 | 7/02 | 8/02 | 9/02 | 10/02 | 11/02 | 12/02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.104 | 0.070 | 0.130 | 0.101 | 0.159 | 0.109 | 0.144 | 0.089 | 0.140 | 0.186 | 0.124 | 0.085 |
| 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** | **1.0** | **0.7** | **1.3** | **1.0** | **1.6** | **1.1** | **1.4** | **0.9** | **1.4** | **1.9** | **1.2** | **0.9** |

| Reactor Coolant System Leakage | 1/03 | 2/03 | 3/03 | 4/03 | 5/03 | 6/03 | 7/03 | 8/03 | 9/03 | 10/03 | 11/03 | 12/03 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.074 | 0.081 | 0.115 | 0.120 | 0.106 | 0.110 | 0.125 | 0.102 | 0.077 | 0.066 | 0.102 | 0.129 |
| 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** | **0.7** | **0.8** | **1.2** | **1.2** | **1.1** | **1.1** | **1.3** | **1.0** | **0.8** | **0.7** | **1.0** | **1.3** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 5.0 | 25.0 | 46.0 | 29.0 | 2.0 | 15.0 | 14.0 | 47.0 |
| Total opportunities | 5.0 | 30.0 | 48.0 | 33.0 | 2.0 | 16.0 | 16.0 | 47.0 |
| | | | | | | | | |
| **Indicator value** | **97.1%** | **95.6%** | **95.5%** | **94.2%** | **94.1%** | **93.9%** | **92.6%** | **92.9%** |

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 104.0 | 105.0 | 120.0 | 121.0 | 122.0 | 123.0 | 122.0 | 123.0 |
| Total Key personnel | 104.0 | 105.0 | 120.0 | 121.0 | 131.0 | 131.0 | 127.0 | 125.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **93.1%** | **93.9%** | **96.1%** | **98.4%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

### Notes

| Alert & Notification System | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 109 | 117 | 117 | 232 | 116 | 117 | 238 | 117 |
| Total sirens-tests | 110 | 117 | 117 | 234 | 117 | 117 | 238 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.3%** | **99.3%** | **99.5%** | **99.5%** | **99.5%** | **99.5%** | **99.6%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Occupational Exposure Control Effectiveness | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 1 | 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** | **1** | **1** | **1** |

Licensee Comments: none

## RETS/ODCM Radiological Effluent

**Thresholds: White > 1.0 Yellow > 3.0**

### Notes

| RETS/ODCM Radiological Effluent | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 0.080

## Notes

| Protected Area Security Performance Index | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 287.09 | 420.56 | 196.75 | 43.38 | 134.68 | 75.53 | 95.44 | 11.90 |
| CCTV compensatory hours | 0 | 6.4 | 0 | 0 | 0.5 | 3.1 | 0 | 3.6 |
| IDS normalization factor | 2.75 | 2.75 | 2.75 | 2.75 | 2.35 | 2.15 | 2.15 | 2.15 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.5 | 1.7 | 1.8 | 1.8 | 1.8 |
| | | | | | | | | |
| **Index Value** | **0.023** | **0.020** | **0.022** | **0.020** | **0.020** | **0.012** | **0.009** | **0.009** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Personnel Screening Program | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 1Q/02 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

*Last Modified: January 23, 2004*

# Beaver Valley 2

## 1Q/2004 Performance Indicators

Licensee's General Comments: none

**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 2183.0 | 1776.6 | 1933.8 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0.9** | **0.9** |

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 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 2.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 2183.0 | 1776.6 | 1933.8 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **1.7** | **1.7** | **1.7** | **1.6** | **0** | **0** | **0.9** | **0.9** |

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 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 2.10 | 2.00 | 2.80 | 9.40 | 1.40 | 33.40 | 6.90 | 1.60 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 6.50 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.80 | 1.40 | 2.80 | 12.50 | 17.90 | 1.90 | 1.80 | 5.70 |
| Unplanned unavailable hours | 0 | 2.90 | 0 | 0.70 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 |
| | | | | | | | | |
| **Indicator value** | **0.6%** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.5%** | **0.5%** | **0.5%** |

Licensee Comments: none

## 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) | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.47 | 1.97 | 0.53 | 1.30 | 1.92 | 0.60 | 0.87 | 3.86 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 1990.10 | 2184.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.92 | 1.22 | 1.18 | 0.68 | 1.27 | 1.37 | 3.09 | 2.44 |
| Unplanned unavailable hours | 0 | 28.18 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 1990.10 | 2184.00 |
| | | | | | | | | |
| **Indicator value** | **0%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

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) | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 25.76 | 0 | 3.73 | 0 | 0 | 7.15 | 2.81 |
| Unplanned unavailable hours | 0 | 46.90 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.18 | 2.72 | 13.38 | 6.35 | 0 | 0 | 4.18 | 1.37 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 1.31 | 0 | 15.32 | 0 | 9.33 | 0 | 0.52 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.4%** | **0.3%** | **0.3%** | **0.3%** | **0.2%** | **0.2%** |

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 | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.46 | 1.59 | 4.61 | 1.25 | 1.33 | 1.07 | 1.72 | 5.18 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 2004.80 | 2184.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 2.52 | 1.59 | 21.32 | 2.66 | 2.73 | 2.43 | 2.96 | 3.59 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 2004.80 | 2184.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 0 | 0 | 255.10 | 218.90 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 0 | 0 | 255.10 | 218.90 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **1** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/02** | **5/02** | **6/02** | **7/02** | **8/02** | **9/02** | **10/02** | **11/02** | **12/02** | **1/03** | **2/03** | **3/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000160 | 0.000180 | 0.000190 | 0.000198 | 0.000220 | 0.000265 | 0.000222 | 0.000229 | 0.000319 | 0.000266 | 0.000259 | 0.000266 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

| **Reactor Coolant System Activity** | **4/03** | **5/03** | **6/03** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000276 | 0.000352 | 0.000279 | 0.000486 | 0.000313 | 0.003800 | 0.000853 | 0.000126 | 0.000156 | 0.000197 | 0.000222 | 0.000166 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **1.1** | **0.2** | **0** | **0** | **0.1** | **0.1** | **0** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **4/02** | **5/02** | **6/02** | **7/02** | **8/02** | **9/02** | **10/02** | **11/02** | **12/02** | **1/03** | **2/03** | **3/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.101 | 0.159 | 0.109 | 0.144 | 0.089 | 0.140 | 0.186 | 0.124 | 0.085 | 0.074 | 0.081 | 0.115 |
| 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** | **1.0** | **1.6** | **1.1** | **1.4** | **0.9** | **1.4** | **1.9** | **1.2** | **0.9** | **0.7** | **0.8** | **1.2** |

| **Reactor Coolant System Leakage** | **4/03** | **5/03** | **6/03** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.120 | 0.106 | 0.110 | 0.125 | 0.102 | 0.077 | 0.066 | 0.102 | 0.129 | 0.106 | 0.072 | 0.123 |
| 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** | **1.2** | **1.1** | **1.1** | **1.3** | **1.0** | **0.8** | **0.7** | **1.0** | **1.3** | **1.1** | **0.7** | **1.2** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 25.0 | 46.0 | 29.0 | 2.0 | 15.0 | 14.0 | 47.0 | 20.0 |
| Total opportunities | 30.0 | 48.0 | 33.0 | 2.0 | 16.0 | 16.0 | 47.0 | 20.0 |
| | | | | | | | | |
| **Indicator value** | **95.6%** | **95.5%** | **94.2%** | **94.1%** | **93.9%** | **92.6%** | **92.9%** | **93.4%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 105.0 | 120.0 | 121.0 | 122.0 | 123.0 | 122.0 | 123.0 | 123.0 |
| Total Key personnel | 105.0 | 120.0 | 121.0 | 131.0 | 131.0 | 127.0 | 125.0 | 124.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **93.1%** | **93.9%** | **96.1%** | **98.4%** | **99.2%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 117 | 117 | 232 | 116 | 117 | 238 | 117 | 117 |
| Total sirens-tests | 117 | 117 | 234 | 117 | 117 | 238 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.3%** | **99.5%** | **99.5%** | **99.5%** | **99.5%** | **99.6%** | **99.5%** | **99.3%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 1 | 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** | **1** | **1** | **1** | **1** |

Licensee Comments: none

## RETS/ODCM Radiological Effluent

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Protected Area Security Performance Index

Thresholds: White > 0.080

## Notes

| Protected Area Security Performance Index | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| IDS compensatory hours | 420.56 | 196.75 | 43.38 | 134.68 | 75.53 | 95.44 | 11.90 | 76.88 |
| CCTV compensatory hours | 6.4 | 0 | 0 | 0.5 | 3.1 | 0 | 3.6 | 18.4 |
| IDS normalization factor | 2.75 | 2.75 | 2.75 | 2.35 | 2.15 | 2.15 | 2.15 | 2.15 |
| CCTV normalization factor | 1.5 | 1.5 | 1.5 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 |
| | | | | | | | | |
| **Index Value** | **0.020** | **0.022** | **0.020** | **0.020** | **0.012** | **0.009** | **0.009** | **0.008** |

Licensee Comments: none

## Personnel Screening Program

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Personnel Screening Program | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| Program failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## FFD/Personnel Reliability

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| FFD/Personnel Reliability | 2Q/02 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 |
|---|---|---|---|---|---|---|---|---|
| Program Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

*Last Modified: April 22, 2004*

# Beaver Valley 2

## 2Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2160.0 | 2183.0 | 1776.6 | 1933.8 | 2184.0 | 2183.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** |

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 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 1.0 |
| Critical hours | 2208.0 | 2209.0 | 2160.0 | 2183.0 | 1776.6 | 1933.8 | 2184.0 | 2183.0 |
| | | | | | | | | |
| **Indicator value** | **1.7** | **1.7** | **1.6** | **0** | **0** | **0.9** | **0.9** | **1.7** |

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 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 2.00 | 2.80 | 9.40 | 1.40 | 33.40 | 6.90 | 1.60 | 36.80 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 6.50 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.40 | 2.80 | 12.50 | 17.90 | 1.90 | 1.80 | 5.70 | 17.60 |
| Unplanned unavailable hours | 2.90 | 0 | 0.70 | 0 | 0 | 0 | 0 | 52.70 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.4%** | **0.5%** | **0.5%** | **0.5%** | **0.6%** |

Licensee Comments:

2Q/04: Emergency AC Power, Train 2, 336.6 hours of T/2 fault exposure time (EDG room ventilation issue)

## 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) | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.97 | 0.53 | 1.30 | 1.92 | 0.60 | 0.87 | 3.86 | 9.95 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 1990.10 | 2184.00 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.22 | 1.18 | 0.68 | 1.27 | 1.37 | 3.09 | 2.44 | 15.71 |
| Unplanned unavailable hours | 28.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 1990.10 | 2184.00 | 2183.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.2%** |

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) | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 25.76 | 0 | 3.73 | 0 | 0 | 7.15 | 2.81 | 6.00 |
| Unplanned unavailable hours | 46.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 2.72 | 13.38 | 6.35 | 0 | 0 | 4.18 | 1.37 | 3.18 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 15.32 | 0 | 9.33 | 0 | 0.52 | 0 | 0.52 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.4%** | **0.3%** | **0.3%** | **0.3%** | **0.2%** | **0.2%** | **0.2%** |

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 | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.59 | 4.61 | 1.25 | 1.33 | 1.07 | 1.72 | 5.18 | 3.20 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 2004.80 | 2184.00 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.59 | 21.32 | 2.66 | 2.73 | 2.43 | 2.96 | 3.59 | 5.24 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 2004.80 | 2184.00 | 2183.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 0 | 255.10 | 218.90 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 0 | 255.10 | 218.90 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

Licensee Comments: none

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **1** | **1** | **1** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/02** | **8/02** | **9/02** | **10/02** | **11/02** | **12/02** | **1/03** | **2/03** | **3/03** | **4/03** | **5/03** | **6/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000198 | 0.000220 | 0.000265 | 0.000222 | 0.000229 | 0.000319 | 0.000266 | 0.000259 | 0.000266 | 0.000276 | 0.000352 | 0.000279 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |
| **Reactor Coolant System Activity** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** |
| Maximum activity | 0.000486 | 0.000313 | 0.003800 | 0.000853 | 0.000126 | 0.000156 | 0.000197 | 0.000222 | 0.000166 | 0.000298 | 0.000311 | 0.000173 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **1.1** | **0.2** | **0** | **0** | **0.1** | **0.1** | **0** | **0.1** | **0.1** | **0** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **7/02** | **8/02** | **9/02** | **10/02** | **11/02** | **12/02** | **1/03** | **2/03** | **3/03** | **4/03** | **5/03** | **6/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.144 | 0.089 | 0.140 | 0.186 | 0.124 | 0.085 | 0.074 | 0.081 | 0.115 | 0.120 | 0.106 | 0.110 |
| 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** | **1.4** | **0.9** | **1.4** | **1.9** | **1.2** | **0.9** | **0.7** | **0.8** | **1.2** | **1.2** | **1.1** | **1.1** |
| **Reactor Coolant System Leakage** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** |
| Maximum leakage | 0.125 | 0.102 | 0.077 | 0.066 | 0.102 | 0.129 | 0.106 | 0.072 | 0.123 | 0.094 | 0.139 | 0.097 |
| 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** | **1.3** | **1.0** | **0.8** | **0.7** | **1.0** | **1.3** | **1.1** | **0.7** | **1.2** | **0.9** | **1.4** | **1.0** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 46.0 | 29.0 | 2.0 | 15.0 | 14.0 | 47.0 | 20.0 | 39.0 |
| Total opportunities | 48.0 | 33.0 | 2.0 | 16.0 | 16.0 | 47.0 | 20.0 | 43.0 |
| | | | | | | | | |
| **Indicator value** | **95.5%** | **94.2%** | **94.1%** | **93.9%** | **92.6%** | **92.9%** | **93.4%** | **94.2%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 120.0 | 121.0 | 122.0 | 123.0 | 122.0 | 123.0 | 123.0 | 121.0 |
| Total Key personnel | 120.0 | 121.0 | 131.0 | 131.0 | 127.0 | 125.0 | 124.0 | 122.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **93.1%** | **93.9%** | **96.1%** | **98.4%** | **99.2%** | **99.2%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 117 | 232 | 116 | 117 | 238 | 117 | 117 | 118 |
| Total sirens-tests | 117 | 234 | 117 | 117 | 238 | 119 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.5%** | **99.5%** | **99.5%** | **99.6%** | **99.5%** | **99.3%** | **99.2%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 1 | 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** | **1** | **1** | **1** | **1** | **0** |

Licensee Comments: none

## RETS/ODCM Radiological Effluent

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 3Q/02 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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# Beaver Valley 2

## 3Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 2160.0 | 2183.0 | 1776.6 | 1933.8 | 2184.0 | 2183.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.8** |

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 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 6.0

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 1.0 | 0 | 1.0 | 0 |
| Critical hours | 2209.0 | 2160.0 | 2183.0 | 1776.6 | 1933.8 | 2184.0 | 2183.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **1.7** | **1.6** | **0** | **0** | **0.9** | **0.9** | **1.7** | **1.6** |

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 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 2.80 | 9.40 | 1.40 | 33.40 | 6.90 | 1.60 | 36.80 | 1.30 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 6.50 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 2.80 | 12.50 | 17.90 | 1.90 | 1.80 | 5.70 | 17.60 | 12.90 |
| Unplanned unavailable hours | 0 | 0.70 | 0 | 0 | 0 | 0 | 52.70 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.4%** | **0.5%** | **0.5%** | **0.5%** | **0.6%** | **0.7%** |

Licensee Comments: none

## 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) | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.53 | 1.30 | 1.92 | 0.60 | 0.87 | 3.86 | 9.95 | 3.43 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 1990.10 | 2184.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.18 | 0.68 | 1.27 | 1.37 | 3.09 | 2.44 | 15.71 | 3.33 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 1990.10 | 2184.00 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.2%** | **0.2%** |

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) | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 3.73 | 0 | 0 | 7.15 | 2.81 | 6.00 | 3.43 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 13.38 | 6.35 | 0 | 0 | 4.18 | 1.37 | 3.18 | 11.48 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 15.32 | 0 | 9.33 | 0 | 0.52 | 0 | 0.52 | 4.22 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.3%** | **0.3%** | **0.3%** | **0.2%** | **0.2%** | **0.2%** | **0.3%** |

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 | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 4.61 | 1.25 | 1.33 | 1.07 | 1.72 | 5.18 | 3.20 | 7.55 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 2004.80 | 2184.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 21.32 | 2.66 | 2.73 | 2.43 | 2.96 | 3.59 | 5.24 | 3.33 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2160.00 | 2183.00 | 1779.70 | 2004.80 | 2184.00 | 2183.00 | 2208.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 255.10 | 218.90 | 0 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 255.10 | 218.90 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **1** | **1** | **1** | **1** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/02** | **11/02** | **12/02** | **1/03** | **2/03** | **3/03** | **4/03** | **5/03** | **6/03** | **7/03** | **8/03** | **9/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000222 | 0.000229 | 0.000319 | 0.000266 | 0.000259 | 0.000266 | 0.000276 | 0.000352 | 0.000279 | 0.000486 | 0.000313 | 0.003800 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **1.1** |
| **Reactor Coolant System Activity** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** |
| Maximum activity | 0.000853 | 0.000126 | 0.000156 | 0.000197 | 0.000222 | 0.000166 | 0.000298 | 0.000311 | 0.000173 | 0.000194 | 0.000203 | 0.000206 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.2** | **0** | **0** | **0.1** | **0.1** | **0** | **0.1** | **0.1** | **0** | **0.1** | **0.1** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **10/02** | **11/02** | **12/02** | **1/03** | **2/03** | **3/03** | **4/03** | **5/03** | **6/03** | **7/03** | **8/03** | **9/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.186 | 0.124 | 0.085 | 0.074 | 0.081 | 0.115 | 0.120 | 0.106 | 0.110 | 0.125 | 0.102 | 0.077 |
| 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** | **1.9** | **1.2** | **0.9** | **0.7** | **0.8** | **1.2** | **1.2** | **1.1** | **1.1** | **1.3** | **1.0** | **0.8** |
| **Reactor Coolant System Leakage** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** |
| Maximum leakage | 0.066 | 0.102 | 0.129 | 0.106 | 0.072 | 0.123 | 0.094 | 0.139 | 0.097 | 0.083 | 0.084 | 0.092 |
| 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** | **0.7** | **1.0** | **1.3** | **1.1** | **0.7** | **1.2** | **0.9** | **1.4** | **1.0** | **0.8** | **0.8** | **0.9** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 29.0 | 2.0 | 15.0 | 14.0 | 47.0 | 20.0 | 39.0 | 32.0 |
| Total opportunities | 33.0 | 2.0 | 16.0 | 16.0 | 47.0 | 20.0 | 43.0 | 32.0 |
| | | | | | | | | |
| **Indicator value** | **94.2%** | **94.1%** | **93.9%** | **92.6%** | **92.9%** | **93.4%** | **94.2%** | **94.7%** |

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 121.0 | 122.0 | 123.0 | 122.0 | 123.0 | 123.0 | 121.0 | 125.0 |
| Total Key personnel | 121.0 | 131.0 | 131.0 | 127.0 | 125.0 | 124.0 | 122.0 | 125.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **93.1%** | **93.9%** | **96.1%** | **98.4%** | **99.2%** | **99.2%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 232 | 116 | 117 | 238 | 117 | 117 | 118 | 234 |
| Total sirens-tests | 234 | 117 | 117 | 238 | 119 | 119 | 119 | 238 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.5%** | **99.5%** | **99.6%** | **99.5%** | **99.3%** | **99.2%** | **98.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 1 | 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** | **1** | **1** | **1** | **1** | **0** | **0** |

Licensee Comments: none

## RETS/ODCM Radiological Effluent

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 4Q/02 | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: October 25, 2004*

# Beaver Valley 2

## 4Q/2004 Performance Indicators

Licensee's General Comments: none

**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 2160.0 | 2183.0 | 1776.6 | 1933.8 | 2184.0 | 2183.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.8** | **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/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 1.0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 2160.0 | 2183.0 | 1776.6 | 1933.8 | 2184.0 | 2183.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **1.6** | **0** | **0** | **0.9** | **0.9** | **1.7** | **1.6** | **0.8** |

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/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 9.40 | 1.40 | 33.40 | 6.90 | 1.60 | 36.80 | 1.30 | 1.20 |
| Unplanned unavailable hours | 0 | 0 | 0 | 6.50 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 12.50 | 17.90 | 1.90 | 1.80 | 5.70 | 17.60 | 12.90 | 1.20 |
| Unplanned unavailable hours | 0.70 | 0 | 0 | 0 | 0 | 52.70 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.4%** | **0.5%** | **0.5%** | **0.5%** | **0.6%** | **0.7%** | **0.7%** |

Licensee Comments: none

## 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/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.30 | 1.92 | 0.60 | 0.87 | 3.86 | 9.95 | 3.43 | 3.84 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 1779.70 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0.68 | 1.27 | 1.37 | 3.09 | 2.44 | 15.71 | 3.33 | 1.42 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 1779.70 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.2%** | **0.2%** | **0.2%** |

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/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 3.73 | 0 | 0 | 7.15 | 2.81 | 6.00 | 3.43 | 5.44 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 6.35 | 0 | 0 | 4.18 | 1.37 | 3.18 | 11.48 | 1.42 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 9.33 | 0 | 0.52 | 0 | 0.52 | 4.22 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30.52 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.3%** | **0.2%** | **0.2%** | **0.2%** | **0.3%** | **0.3%** |

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/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.25 | 1.33 | 1.07 | 1.72 | 5.18 | 3.20 | 7.55 | 3.84 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 1779.70 | 2004.80 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 2.66 | 2.73 | 2.43 | 2.96 | 3.59 | 5.24 | 3.33 | 3.95 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2160.00 | 2183.00 | 1779.70 | 2004.80 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 255.10 | 218.90 | 0 | 0 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 255.10 | 218.90 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **1** | **1** | **1** | **1** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/03** | **2/03** | **3/03** | **4/03** | **5/03** | **6/03** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000266 | 0.000259 | 0.000266 | 0.000276 | 0.000352 | 0.000279 | 0.000486 | 0.000313 | 0.003800 | 0.000853 | 0.000126 | 0.000156 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **1.1** | **0.2** | **0** | **0** |
| **Reactor Coolant System Activity** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** |
| Maximum activity | 0.000197 | 0.000222 | 0.000166 | 0.000298 | 0.000170 | 0.000173 | 0.000194 | 0.000199 | 0.000206 | 0.000198 | 0.000212 | 0.000225 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **1/03** | **2/03** | **3/03** | **4/03** | **5/03** | **6/03** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.074 | 0.081 | 0.115 | 0.120 | 0.106 | 0.110 | 0.125 | 0.102 | 0.077 | 0.066 | 0.102 | 0.129 |
| 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** | **0.7** | **0.8** | **1.2** | **1.2** | **1.1** | **1.1** | **1.3** | **1.0** | **0.8** | **0.7** | **1.0** | **1.3** |
| **Reactor Coolant System Leakage** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** |
| Maximum leakage | 0.106 | 0.072 | 0.123 | 0.094 | 0.139 | 0.097 | 0.083 | 0.084 | 0.092 | 0.097 | 0.126 | 0.077 |
| 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** | **1.1** | **0.7** | **1.2** | **0.9** | **1.4** | **1.0** | **0.8** | **0.8** | **0.9** | **1.0** | **1.3** | **0.8** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 2.0 | 15.0 | 14.0 | 47.0 | 20.0 | 39.0 | 32.0 | 7.0 |
| Total opportunities | 2.0 | 16.0 | 16.0 | 47.0 | 20.0 | 43.0 | 32.0 | 7.0 |
| | | | | | | | | |
| **Indicator value** | **94.1%** | **93.9%** | **92.6%** | **92.9%** | **93.4%** | **94.2%** | **94.7%** | **96.2%** |

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 122.0 | 123.0 | 122.0 | 123.0 | 123.0 | 121.0 | 125.0 | 125.0 |
| Total Key personnel | 131.0 | 131.0 | 127.0 | 125.0 | 124.0 | 122.0 | 125.0 | 125.0 |
| | | | | | | | | |
| **Indicator value** | **93.1%** | **93.9%** | **96.1%** | **98.4%** | **99.2%** | **99.2%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 116 | 117 | 238 | 117 | 117 | 118 | 234 | 115 |
| Total sirens-tests | 117 | 117 | 238 | 119 | 119 | 119 | 238 | 117 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.5%** | **99.6%** | **99.5%** | **99.3%** | **99.2%** | **98.5%** | **98.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 1 | 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** | **1** | **1** | **1** | **1** | **0** | **0** | **0** |

Licensee Comments: none

## RETS/ODCM Radiological Effluent

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 1Q/03 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: March 9, 2005*

# Beaver Valley 2

## 1Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 1776.6 | 1933.8 | 2184.0 | 2183.0 | 2208.0 | 2209.0 | 2160.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.8** | **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 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 1.0 | 0 | 1.0 | 0 | 0 | 1.0 |
| Critical hours | 2183.0 | 1776.6 | 1933.8 | 2184.0 | 2183.0 | 2208.0 | 2209.0 | 2160.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.9** | **0.9** | **1.7** | **1.6** | **0.8** | **1.6** |

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 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.40 | 33.40 | 6.90 | 1.60 | 36.80 | 1.30 | 1.20 | 30.40 |
| Unplanned unavailable hours | 0 | 0 | 6.50 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 17.90 | 1.90 | 1.80 | 5.70 | 17.60 | 12.90 | 1.20 | 5.90 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 52.70 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | | | |
| **Indicator value** | **0.4%** | **0.5%** | **0.5%** | **0.5%** | **0.6%** | **0.7%** | **0.7%** | **0.5%** |

Licensee Comments: none

## 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) | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.92 | 0.60 | 0.87 | 3.86 | 9.95 | 3.43 | 3.84 | 5.92 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 1779.70 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.27 | 1.37 | 3.09 | 2.44 | 15.71 | 3.33 | 1.42 | 9.65 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 1779.70 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** |

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) | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 7.15 | 2.81 | 6.00 | 3.43 | 5.44 | 1.55 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 4.18 | 1.37 | 3.18 | 11.48 | 1.42 | 8.60 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 9.33 | 0 | 0.52 | 0 | 0.52 | 4.22 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 30.52 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.3%** | **0.2%** | **0.2%** | **0.2%** | **0.3%** | **0.3%** | **0.3%** |

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 | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.33 | 1.07 | 1.72 | 5.18 | 3.20 | 7.55 | 3.84 | 2.45 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38.48 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 1779.70 | 2004.80 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 2.73 | 2.43 | 2.96 | 3.59 | 5.24 | 3.33 | 3.95 | 29.84 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 1779.70 | 2004.80 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 255.10 | 218.90 | 0 | 0 | 0 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 255.10 | 218.90 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.2%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **1** | **1** | **1** | **1** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/03** | **5/03** | **6/03** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000276 | 0.000352 | 0.000279 | 0.000486 | 0.000313 | 0.003800 | 0.000853 | 0.000126 | 0.000156 | 0.000197 | 0.000222 | 0.000166 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **1.1** | **0.2** | **0** | **0** | **0.1** | **0.1** | **0** |

| **Reactor Coolant System Activity** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000298 | 0.000170 | 0.000173 | 0.000194 | 0.000199 | 0.000206 | 0.000198 | 0.000212 | 0.000225 | 0.000224 | 0.001480 | 0.000267 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.4** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **4/03** | **5/03** | **6/03** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.120 | 0.106 | 0.110 | 0.125 | 0.102 | 0.077 | 0.066 | 0.102 | 0.129 | 0.106 | 0.072 | 0.123 |
| 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** | **1.2** | **1.1** | **1.1** | **1.3** | **1.0** | **0.8** | **0.7** | **1.0** | **1.3** | **1.1** | **0.7** | **1.2** |
| **Reactor Coolant System Leakage** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** |
| Maximum leakage | 0.094 | 0.139 | 0.097 | 0.083 | 0.084 | 0.092 | 0.097 | 0.126 | 0.077 | 0.099 | 0.084 | 0.101 |
| 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** | **0.9** | **1.4** | **1.0** | **0.8** | **0.8** | **0.9** | **1.0** | **1.3** | **0.8** | **1.0** | **0.8** | **1.0** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 15.0 | 14.0 | 47.0 | 20.0 | 39.0 | 32.0 | 7.0 | 4.0 |
| Total opportunities | 16.0 | 16.0 | 47.0 | 20.0 | 43.0 | 32.0 | 7.0 | 5.0 |
| | | | | | | | | |
| **Indicator value** | **93.9%** | **92.6%** | **92.9%** | **93.4%** | **94.2%** | **94.7%** | **96.2%** | **95.7%** |

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 123.0 | 122.0 | 123.0 | 123.0 | 121.0 | 125.0 | 125.0 | 122.0 |
| Total Key personnel | 131.0 | 127.0 | 125.0 | 124.0 | 122.0 | 125.0 | 125.0 | 122.0 |
| | | | | | | | | |
| **Indicator value** | **93.9%** | **96.1%** | **98.4%** | **99.2%** | **99.2%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 117 | 238 | 117 | 0 | 0 | 117 | 115 | 119 |
| Total sirens-tests | 117 | 238 | 119 | 0 | 0 | 119 | 117 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.6%** | **99.5%** | **99.6%** | **99.4%** | **98.3%** | **98.3%** | **98.9%** |

Licensee Comments:

3Q/04: Quarterly siren test results are being removed. Although the tests were successful (117/119), they were not performed from a "normally attended" station as required by NEI 99-02.

2Q/04: Siren test results are being removed. Although they were successful (118/119), they were not performed from a "normally attended" station as required by NEI 99-02.

1Q/04: Siren test results are being removed. Although the tests were successful (117/119), they were not performed from a "normally attended" station as required by NEI 99-02.

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 1 | 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** | **1** | **1** | **1** | **1** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## RETS/ODCM Radiological Effluent

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 2Q/03 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: June 17, 2005*

# Beaver Valley 2

## 2Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1776.6 | 1933.8 | 2184.0 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 1606.8 |
| | | | | | | | | |
| **Indicator value** | **0** | **0.9** | **0.9** | **0.9** | **0.8** | **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 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 1.0 | 0 | 1.0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 1776.6 | 1933.8 | 2184.0 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 1606.8 |
| | | | | | | | | |
| **Indicator value** | **0** | **0.9** | **0.9** | **1.7** | **1.6** | **0.8** | **1.6** | **0.9** |

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 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 33.40 | 6.90 | 1.60 | 36.80 | 1.30 | 1.20 | 30.40 | 42.40 |
| Unplanned unavailable hours | 0 | 6.50 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.90 | 1.80 | 5.70 | 17.60 | 12.90 | 1.20 | 5.90 | 3.00 |
| Unplanned unavailable hours | 0 | 0 | 0 | 52.70 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2208.00 | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 |
| | | | | | | | | |
| **Indicator value** | **0.5%** | **0.5%** | **0.5%** | **0.6%** | **0.7%** | **0.7%** | **0.5%** | **0.6%** |

Licensee Comments: none

## 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) | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.60 | 0.87 | 3.86 | 9.95 | 3.43 | 3.84 | 5.92 | 1.42 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1779.70 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.37 | 3.09 | 2.44 | 15.71 | 3.33 | 1.42 | 9.65 | 2.83 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1779.70 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** |

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) | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0 | 7.15 | 2.81 | 6.00 | 3.43 | 5.44 | 1.55 | 4.79 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 0 | 4.18 | 1.37 | 3.18 | 11.48 | 1.42 | 8.60 | 2.83 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0.52 | 0 | 0.52 | 4.22 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 30.52 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1782.00 | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 |
| | | | | | | | | |
| **Indicator value** | **0.3%** | **0.2%** | **0.2%** | **0.2%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** |

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 | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.07 | 1.72 | 5.18 | 3.20 | 7.55 | 3.84 | 2.45 | 1.42 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 38.48 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1779.70 | 2004.80 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 2.43 | 2.96 | 3.59 | 5.24 | 3.33 | 3.95 | 29.84 | 41.03 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1779.70 | 2004.80 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 255.10 | 218.90 | 0 | 0 | 0 | 0 | 0 | 511.00 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 255.10 | 218.90 | 0 | 0 | 0 | 0 | 0 | 511.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.2%** | **0.2%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **1** | **1** | **1** | **1** | **0** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000486 | 0.000313 | 0.003800 | 0.000853 | 0.000126 | 0.000156 | 0.000197 | 0.000222 | 0.000166 | 0.000298 | 0.000170 | 0.000173 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **1.1** | **0.2** | **0** | **0** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0** |
| **Reactor Coolant System Activity** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** |
| Maximum activity | 0.000194 | 0.000199 | 0.000206 | 0.000198 | 0.000212 | 0.000225 | 0.000224 | 0.001480 | 0.000267 | 0.000192 | 0.000120 | 0.000105 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.4** | **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** | **7/03** | **8/03** | **9/03** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.125 | 0.102 | 0.077 | 0.066 | 0.102 | 0.129 | 0.106 | 0.072 | 0.123 | 0.094 | 0.139 | 0.097 |
| 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** | **1.3** | **1.0** | **0.8** | **0.7** | **1.0** | **1.3** | **1.1** | **0.7** | **1.2** | **0.9** | **1.4** | **1.0** |
| **Reactor Coolant System Leakage** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** |
| Maximum leakage | 0.083 | 0.084 | 0.092 | 0.097 | 0.126 | 0.077 | 0.099 | 0.084 | 0.101 | 0.053 | 0.188 | 0.108 |
| 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** | **0.9** | **1.0** | **1.3** | **0.8** | **1.0** | **0.8** | **1.0** | **0.5** | **1.9** | **1.1** |

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

## Notes

| Drill/Exercise Performance | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 14.0 | 47.0 | 20.0 | 39.0 | 32.0 | 7.0 | 4.0 | 11.0 |
| Total opportunities | 16.0 | 47.0 | 20.0 | 43.0 | 32.0 | 7.0 | 5.0 | 11.0 |
| | | | | | | | | |
| **Indicator value** | **92.6%** | **92.9%** | **93.4%** | **94.2%** | **94.7%** | **96.2%** | **95.7%** | **96.1%** |

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 122.0 | 123.0 | 123.0 | 121.0 | 125.0 | 125.0 | 122.0 | 126.0 |
| Total Key personnel | 127.0 | 125.0 | 124.0 | 122.0 | 125.0 | 125.0 | 122.0 | 126.0 |
| | | | | | | | | |
| **Indicator value** | **96.1%** | **98.4%** | **99.2%** | **99.2%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 238 | 117 | 0 | 0 | 117 | 115 | 119 | 119 |
| Total sirens-tests | 238 | 119 | 0 | 0 | 119 | 117 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.6%** | **99.5%** | **99.6%** | **99.4%** | **98.3%** | **98.3%** | **98.9%** | **99.2%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| 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** | **1** | **1** | **1** | **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/03 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: August 3, 2005*

# Beaver Valley 2

## 3Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1933.8 | 2184.0 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 1606.8 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0.9** | **0.8** | **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 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 1.0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 1933.8 | 2184.0 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 1606.8 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **1.7** | **1.6** | **0.8** | **1.6** | **0.9** | **0.9** |

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 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 6.90 | 1.60 | 36.80 | 1.30 | 1.20 | 30.40 | 42.40 | 6.50 |
| Unplanned unavailable hours | 6.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.80 | 5.70 | 17.60 | 12.90 | 1.20 | 5.90 | 3.00 | 29.30 |
| Unplanned unavailable hours | 0 | 0 | 52.70 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.5%** | **0.5%** | **0.6%** | **0.7%** | **0.7%** | **0.5%** | **0.6%** | **0.7%** |

Licensee Comments: none

## 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) | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 0.87 | 3.86 | 9.95 | 3.43 | 3.84 | 5.92 | 1.42 | 3.75 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 3.09 | 2.44 | 15.71 | 3.33 | 1.42 | 9.65 | 2.83 | 1.50 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** |

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) | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 7.15 | 2.81 | 6.00 | 3.43 | 5.44 | 1.55 | 4.79 | 3.75 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 4.18 | 1.37 | 3.18 | 11.48 | 1.42 | 8.60 | 2.83 | 1.50 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 | 2208.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0.52 | 0 | 0.52 | 4.22 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 30.52 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 1990.10 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 | 2208.00 |
| | | | | | | | | |
| **Indicator value** | **0.2%** | **0.2%** | **0.2%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.2%** |

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 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.72 | 5.18 | 3.20 | 7.55 | 3.84 | 2.45 | 1.42 | 18.90 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 38.48 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2004.80 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 2.96 | 3.59 | 5.24 | 3.33 | 3.95 | 29.84 | 41.03 | 17.78 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2004.80 | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 218.90 | 0 | 0 | 0 | 0 | 0 | 511.00 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 218.90 | 0 | 0 | 0 | 0 | 0 | 511.00 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.2%** | **0.2%** | **0.2%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **1** | **1** | **1** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000853 | 0.000126 | 0.000156 | 0.000197 | 0.000222 | 0.000166 | 0.000298 | 0.000170 | 0.000173 | 0.000194 | 0.000199 | 0.000206 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.2** | **0** | **0** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0** | **0.1** | **0.1** | **0.1** |
| **Reactor Coolant System Activity** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** |
| Maximum activity | 0.000198 | 0.000212 | 0.000225 | 0.000224 | 0.001480 | 0.000267 | 0.000192 | 0.000120 | 0.000105 | 0.000111 | 0.000136 | 0.000124 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.4** | **0.1** | **0.1** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

### Notes

| **Reactor Coolant System Leakage** | **10/03** | **11/03** | **12/03** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.066 | 0.102 | 0.129 | 0.106 | 0.072 | 0.123 | 0.094 | 0.139 | 0.097 | 0.083 | 0.084 | 0.092 |
| 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** | **0.7** | **1.0** | **1.3** | **1.1** | **0.7** | **1.2** | **0.9** | **1.4** | **1.0** | **0.8** | **0.8** | **0.9** |
| **Reactor Coolant System Leakage** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** |
| Maximum leakage | 0.097 | 0.126 | 0.077 | 0.099 | 0.084 | 0.101 | 0.053 | 0.188 | 0.108 | 0.148 | 0.114 | 0.067 |
| 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** | **1.0** | **1.3** | **0.8** | **1.0** | **0.8** | **1.0** | **0.5** | **1.9** | **1.1** | **1.5** | **1.1** | **0.7** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 47.0 | 20.0 | 39.0 | 32.0 | 7.0 | 4.0 | 11.0 | 118.0 |
| Total opportunities | 47.0 | 20.0 | 43.0 | 32.0 | 7.0 | 5.0 | 11.0 | 118.0 |
| | | | | | | | | |
| **Indicator value** | **92.9%** | **93.4%** | **94.2%** | **94.7%** | **96.2%** | **95.7%** | **96.1%** | **98.2%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 123.0 | 123.0 | 121.0 | 125.0 | 125.0 | 122.0 | 126.0 | 126.0 |
| Total Key personnel | 125.0 | 124.0 | 122.0 | 125.0 | 125.0 | 122.0 | 126.0 | 126.0 |
| | | | | | | | | |
| **Indicator value** | **98.4%** | **99.2%** | **99.2%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 117 | 0 | 0 | 117 | 115 | 119 | 119 | 355 |
| Total sirens-tests | 119 | 0 | 0 | 119 | 117 | 119 | 119 | 357 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.6%** | **99.4%** | **98.3%** | **98.3%** | **98.9%** | **99.2%** | **99.4%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| 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** | **1** | **1** | **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 | 4Q/03 | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: November 3, 2005*

# Beaver Valley 2

## 4Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 1606.8 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0.8** | **0** | **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/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 1.0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 1606.8 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **1.7** | **1.6** | **0.8** | **1.6** | **0.9** | **0.9** | **0.9** |

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/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 1.60 | 36.80 | 1.30 | 1.20 | 30.40 | 42.40 | 6.50 | 3.90 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.50 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 5.70 | 17.60 | 12.90 | 1.20 | 5.90 | 3.00 | 29.30 | 11.40 |
| Unplanned unavailable hours | 0 | 52.70 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.5%** | **0.6%** | **0.7%** | **0.7%** | **0.5%** | **0.6%** | **0.7%** | **0.7%** |

Licensee Comments: none

## 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/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 3.86 | 9.95 | 3.43 | 3.84 | 5.92 | 1.42 | 3.75 | 3.15 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 2.44 | 15.71 | 3.33 | 1.42 | 9.65 | 2.83 | 1.50 | 3.50 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** |

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/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 2.81 | 6.00 | 3.43 | 5.44 | 1.55 | 4.79 | 3.75 | 1.50 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 1.37 | 3.18 | 11.48 | 1.42 | 8.60 | 2.83 | 1.50 | 8.10 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 | 2208.00 | 2209.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0.52 | 4.22 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 30.52 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 | 2208.00 | 2209.00 |
| | | | | | | | | |
| **Indicator value** | **0.2%** | **0.2%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.2%** | **0.2%** |

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/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 5.18 | 3.20 | 7.55 | 3.84 | 2.45 | 1.42 | 18.90 | 26.14 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 38.48 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 | 2209.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 3.59 | 5.24 | 3.33 | 3.95 | 29.84 | 41.03 | 17.78 | 14.37 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2184.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 | 2209.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 0 | 0 | 511.00 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 0 | 0 | 511.00 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.1%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| 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

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000197 | 0.000222 | 0.000166 | 0.000298 | 0.000170 | 0.000173 | 0.000194 | 0.000199 | 0.000206 | 0.000198 | 0.000212 | 0.000225 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** |
| **Reactor Coolant System Activity** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** |
| Maximum activity | 0.000224 | 0.001480 | 0.000267 | 0.000192 | 0.000120 | 0.000105 | 0.000111 | 0.000136 | 0.000124 | 0.000127 | 0.000156 | 0.000144 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.4** | **0.1** | **0.1** | **0** | **0** | **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** | **1/04** | **2/04** | **3/04** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.106 | 0.072 | 0.123 | 0.094 | 0.139 | 0.097 | 0.083 | 0.084 | 0.092 | 0.097 | 0.126 | 0.077 |
| 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** | **1.1** | **0.7** | **1.2** | **0.9** | **1.4** | **1.0** | **0.8** | **0.8** | **0.9** | **1.0** | **1.3** | **0.8** |
| **Reactor Coolant System Leakage** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** |
| Maximum leakage | 0.099 | 0.084 | 0.101 | 0.053 | 0.188 | 0.108 | 0.148 | 0.114 | 0.067 | 0.086 | 0.084 | 0.067 |
| 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** | **1.0** | **0.8** | **1.0** | **0.5** | **1.9** | **1.1** | **1.5** | **1.1** | **0.7** | **0.9** | **0.8** | **0.7** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 20.0 | 39.0 | 32.0 | 7.0 | 4.0 | 11.0 | 118.0 | 34.0 |
| Total opportunities | 20.0 | 43.0 | 32.0 | 7.0 | 5.0 | 11.0 | 118.0 | 35.0 |
| | | | | | | | | |
| **Indicator value** | **93.4%** | **94.2%** | **94.7%** | **96.2%** | **95.7%** | **96.1%** | **98.2%** | **97.8%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 123.0 | 121.0 | 125.0 | 125.0 | 122.0 | 126.0 | 126.0 | 128.0 |
| Total Key personnel | 124.0 | 122.0 | 125.0 | 125.0 | 122.0 | 126.0 | 126.0 | 128.0 |
| | | | | | | | | |
| **Indicator value** | **99.2%** | **99.2%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 0 | 0 | 117 | 115 | 119 | 119 | 355 | 117 |
| Total sirens-tests | 0 | 0 | 119 | 117 | 119 | 119 | 357 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.6%** | **99.4%** | **98.3%** | **98.3%** | **98.9%** | **99.2%** | **99.4%** | **99.4%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 1Q/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| 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** | **1** | **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/04 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: January 30, 2006*

# Beaver Valley 2

## 1Q/2006 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 1606.8 | 2208.0 | 2209.0 | 2160.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.8** | **0** | **0** | **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 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 2208.0 | 2209.0 | 2160.0 | 1606.8 | 2208.0 | 2209.0 | 2160.0 |
| | | | | | | | | |
| **Indicator value** | **1.7** | **1.6** | **0.8** | **1.6** | **0.9** | **0.9** | **0.9** | **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 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 36.80 | 1.30 | 1.20 | 30.40 | 42.40 | 6.50 | 3.90 | 15.40 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0.50 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 17.60 | 12.90 | 1.20 | 5.90 | 3.00 | 29.30 | 11.40 | 5.10 |
| Unplanned unavailable hours | 52.70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 2183.00 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | | | |
| **Indicator value** | **0.6%** | **0.7%** | **0.7%** | **0.5%** | **0.6%** | **0.7%** | **0.7%** | **0.7%** |

Licensee Comments: none

## 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) | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 9.95 | 3.43 | 3.84 | 5.92 | 1.42 | 3.75 | 3.15 | 5.45 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 15.71 | 3.33 | 1.42 | 9.65 | 2.83 | 1.50 | 3.50 | 9.43 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | | | |
| **Indicator value** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** |

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) | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 6.00 | 3.43 | 5.44 | 1.55 | 4.79 | 3.75 | 1.50 | 5.45 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 3.18 | 11.48 | 1.42 | 8.60 | 2.83 | 1.50 | 8.10 | 3.35 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 | 2208.00 | 2209.00 | 2160.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0.52 | 4.22 | 0 | 0 | 0 | 0 | 0 | 3.75 |
| Unplanned unavailable hours | 0 | 0 | 30.52 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1636.90 | 2208.00 | 2209.00 | 2160.00 |
| | | | | | | | | |
| **Indicator value** | **0.2%** | **0.3%** | **0.3%** | **0.3%** | **0.3%** | **0.2%** | **0.2%** | **0.2%** |

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 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| **Train 1** | | | | | | | | |
| Planned unavailable hours | 3.20 | 7.55 | 3.84 | 2.45 | 1.42 | 18.90 | 26.14 | 7.45 |
| Unplanned unavailable hours | 0 | 0 | 0 | 38.48 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 2** | | | | | | | | |
| Planned unavailable hours | 5.24 | 3.33 | 3.95 | 29.84 | 41.03 | 17.78 | 14.37 | 6.37 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2183.00 | 2208.00 | 2209.00 | 2160.00 | 1645.00 | 2208.00 | 2209.00 | 2160.00 |
| **Train 3** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 0 | 511.00 | 0 | 0 | 0 |
| **Train 4** | | | | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required hours | 0 | 0 | 0 | 0 | 511.00 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0.1%** | **0.1%** | **0.1%** | **0.2%** | **0.2%** | **0.2%** | **0.2%** | **0.3%** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **1** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000298 | 0.000170 | 0.000173 | 0.000194 | 0.000199 | 0.000206 | 0.000198 | 0.000212 | 0.000225 | 0.000224 | 0.001480 | 0.000267 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.4** | **0.1** |

| **Reactor Coolant System Activity** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000192 | 0.000120 | 0.000105 | 0.000111 | 0.000136 | 0.000124 | 0.000127 | 0.000156 | 0.000144 | 0.000151 | 0.000153 | 0.000167 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0** | **0** | **0** | **0** | **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** | **4/04** | **5/04** | **6/04** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.094 | 0.139 | 0.097 | 0.083 | 0.084 | 0.092 | 0.097 | 0.126 | 0.077 | 0.099 | 0.084 | 0.101 |
| 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** | **0.9** | **1.4** | **1.0** | **0.8** | **0.8** | **0.9** | **1.0** | **1.3** | **0.8** | **1.0** | **0.8** | **1.0** |
| **Reactor Coolant System Leakage** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** |
| Maximum leakage | 0.053 | 0.188 | 0.108 | 0.148 | 0.114 | 0.067 | 0.086 | 0.084 | 0.067 | 0.079 | 0.064 | 0.067 |
| 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** | **1.9** | **1.1** | **1.5** | **1.1** | **0.7** | **0.9** | **0.8** | **0.7** | **0.8** | **0.6** | **0.7** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 39.0 | 32.0 | 7.0 | 4.0 | 11.0 | 118.0 | 34.0 | 12.0 |
| Total opportunities | 43.0 | 32.0 | 7.0 | 5.0 | 11.0 | 118.0 | 35.0 | 13.0 |
| | | | | | | | | |
| **Indicator value** | **94.2%** | **94.7%** | **96.2%** | **95.7%** | **96.1%** | **98.2%** | **97.8%** | **97.3%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 121.0 | 125.0 | 125.0 | 122.0 | 126.0 | 126.0 | 128.0 | 127.0 |
| Total Key personnel | 122.0 | 125.0 | 125.0 | 122.0 | 126.0 | 126.0 | 128.0 | 127.0 |
| | | | | | | | | |
| **Indicator value** | **99.2%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 0 | 117 | 115 | 119 | 119 | 236 | 117 | 119 |
| Total sirens-tests | 0 | 119 | 117 | 119 | 119 | 238 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.4%** | **98.3%** | **98.3%** | **98.9%** | **99.2%** | **99.3%** | **99.3%** | **99.3%** |

Licensee Comments:

3Q/05: Results for August 2005 revised to delete the test results (119/119) that were originally reported. Results were incorrectly reported for both August and September.

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| 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 | 2Q/04 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: May 5, 2006*

# Beaver Valley 2

## 2Q/2006 Performance Indicators

Licensee's General Comments: none

**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 2208.0 | 2209.0 | 2160.0 | 1606.8 | 2208.0 | 2209.0 | 2160.0 | 2101.8 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **0** | **0** | **0** | **0** | **0** | **0** | **0.8** |

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 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 2208.0 | 2209.0 | 2160.0 | 1606.8 | 2208.0 | 2209.0 | 2160.0 | 2101.8 |
| | | | | | | | | |
| **Indicator value** | **1.6** | **0.8** | **1.6** | **0.9** | **0.9** | **0.9** | **0** | **0.8** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | | | | | | |
| **Indicator value** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **1** |

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/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | | | 1.10E-07 |
| URI (ΔCDF) | | | | | | | | -6.20E-07 |
| PLE | | | | | | | | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | | | **-5.10E-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 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | | | -1.30E-08 |
| URI (ΔCDF) | | | | | | | | -6.20E-08 |
| PLE | | | | | | | | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | | | **-7.50E-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 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | | | -5.90E-09 |
| URI (ΔCDF) | | | | | | | | 2.60E-07 |
| PLE | | | | | | | | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | | | **2.54E-07** |

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 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | | | 4.00E-08 |
| URI (ΔCDF) | | | | | | | | -9.00E-09 |
| PLE | | | | | | | | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | | | **3.10E-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 | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | | | 2.80E-09 |
| URI (ΔCDF) | | | | | | | | 2.10E-08 |
| PLE | | | | | | | | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | | | **2.38E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000194 | 0.000199 | 0.000206 | 0.000198 | 0.000212 | 0.000225 | 0.000224 | 0.001480 | 0.000267 | 0.000192 | 0.000120 | 0.000105 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.1** | **0.4** | **0.1** | **0.1** | **0** | **0** |

| **Reactor Coolant System Activity** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000111 | 0.000136 | 0.000124 | 0.000127 | 0.000156 | 0.000144 | 0.000151 | 0.000153 | 0.000167 | 0.000158 | 0.000162 | 0.000241 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

### Notes

| **Reactor Coolant System Leakage** | **7/04** | **8/04** | **9/04** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.083 | 0.084 | 0.092 | 0.097 | 0.126 | 0.077 | 0.099 | 0.084 | 0.101 | 0.053 | 0.188 | 0.108 |
| 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** | **0.9** | **1.0** | **1.3** | **0.8** | **1.0** | **0.8** | **1.0** | **0.5** | **1.9** | **1.1** |
| **Reactor Coolant System Leakage** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** |
| Maximum leakage | 0.148 | 0.114 | 0.067 | 0.086 | 0.084 | 0.067 | 0.079 | 0.064 | 0.067 | 0.083 | 0.077 | 0.087 |
| 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** | **1.5** | **1.1** | **0.7** | **0.9** | **0.8** | **0.7** | **0.8** | **0.6** | **0.7** | **0.8** | **0.8** | **0.9** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 32.0 | 7.0 | 4.0 | 11.0 | 118.0 | 34.0 | 12.0 | 50.0 |
| Total opportunities | 32.0 | 7.0 | 5.0 | 11.0 | 118.0 | 35.0 | 13.0 | 52.0 |
| | | | | | | | | |
| **Indicator value** | **94.7%** | **96.2%** | **95.7%** | **96.1%** | **98.2%** | **97.8%** | **97.3%** | **98.2%** |

Licensee Comments:

2Q/06: One of the incorrect declarations listed for June is undergoing additional evaluation by the NRC based upon further information provided by FENOC.

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 125.0 | 125.0 | 122.0 | 126.0 | 126.0 | 128.0 | 127.0 | 122.0 |
| Total Key personnel | 125.0 | 125.0 | 122.0 | 126.0 | 126.0 | 128.0 | 127.0 | 122.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 117 | 115 | 119 | 119 | 236 | 117 | 119 | 118 |
| Total sirens-tests | 119 | 117 | 119 | 119 | 238 | 119 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **98.3%** | **98.3%** | **98.9%** | **99.2%** | **99.3%** | **99.3%** | **99.3%** | **99.2%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| 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/04 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: August 2, 2006*

# Beaver Valley 2

## 3Q/2006 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 2209.0 | 2160.0 | 1606.8 | 2208.0 | 2209.0 | 2160.0 | 2101.8 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0.8** | **0.8** |

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 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 1.0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 2209.0 | 2160.0 | 1606.8 | 2208.0 | 2209.0 | 2160.0 | 2101.8 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **1.6** | **0.9** | **0.9** | **0.9** | **0** | **0.8** | **0.8** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **1** |

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** | **4Q/04** | **1Q/05** | **2Q/05** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | | 1.10E-07 | 6.60E-08 |
| URI (ΔCDF) | | | | | | | -6.20E-07 | -6.20E-07 |
| PLE | | | | | | | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | | **-5.10E-07** | **-5.54E-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** | **4Q/04** | **1Q/05** | **2Q/05** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | | -1.30E-08 | -1.10E-08 |
| URI (ΔCDF) | | | | | | | -6.10E-08 | -5.80E-08 |
| PLE | | | | | | | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | | **-7.40E-08** | **-6.90E-08** |

Licensee Comments:

2Q/06: High Pressure Injection System change due to historical demands for operational alignments being counted as actuals vs. estimates (BV CR 06-04770).

## 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 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | | -5.90E-09 | -9.90E-10 |
| URI (ΔCDF) | | | | | | | 2.90E-07 | 2.90E-07 |
| PLE | | | | | | | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | | **2.84E-07** | **2.89E-07** |

Licensee Comments:

2Q/06: Heat Removal System change due to historical demands for operational alignments being counted as actuals vs. estimates (BV CR 06-04770).

## 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** | **4Q/04** | **1Q/05** | **2Q/05** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | | 4.00E-08 | 6.20E-08 |
| URI (ΔCDF) | | | | | | | -9.00E-09 | -9.00E-09 |
| PLE | | | | | | | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | | **3.10E-08** | **5.30E-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 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | | 2.80E-09 | 1.70E-08 |
| URI (ΔCDF) | | | | | | | 2.10E-08 | 2.10E-08 |
| PLE | | | | | | | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | | **2.38E-08** | **3.80E-08** |

Licensee Comments:

3Q/06: Changed PRA Parameter(s). Cooling Water System changed due to a change in the baseline data for the A train of unplanned unavailability (BV CR 06-7508)

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000198 | 0.000212 | 0.000225 | 0.000224 | 0.001480 | 0.000267 | 0.000192 | 0.000120 | 0.000105 | 0.000111 | 0.000136 | 0.000124 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0.1** | **0.4** | **0.1** | **0.1** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** |
| Maximum activity | 0.000127 | 0.000156 | 0.000144 | 0.000151 | 0.000153 | 0.000167 | 0.000158 | 0.000162 | 0.000241 | 0.000175 | 0.000349 | 0.000179 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0.1** | **0.1** | **0.1** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **10/04** | **11/04** | **12/04** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.097 | 0.126 | 0.077 | 0.099 | 0.084 | 0.101 | 0.053 | 0.188 | 0.108 | 0.148 | 0.114 | 0.067 |
| 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** | **1.0** | **1.3** | **0.8** | **1.0** | **0.8** | **1.0** | **0.5** | **1.9** | **1.1** | **1.5** | **1.1** | **0.7** |
| **Reactor Coolant System Leakage** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** |
| Maximum leakage | 0.086 | 0.084 | 0.067 | 0.079 | 0.064 | 0.067 | 0.083 | 0.077 | 0.087 | 0.071 | 0.123 | 0.133 |
| 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** | **0.9** | **0.8** | **0.7** | **0.8** | **0.6** | **0.7** | **0.8** | **0.8** | **0.9** | **0.7** | **1.2** | **1.3** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 7.0 | 4.0 | 11.0 | 118.0 | 34.0 | 12.0 | 51.0 | 30.0 |
| Total opportunities | 7.0 | 5.0 | 11.0 | 118.0 | 35.0 | 13.0 | 52.0 | 34.0 |
| | | | | | | | | |
| **Indicator value** | **96.2%** | **95.7%** | **96.1%** | **98.2%** | **97.8%** | **97.3%** | **98.5%** | **97.1%** |

Licensee Comments:

2Q/06: One of the incorrect declarations listed for June is being credited after evaluation by the NRC and FENOC. This item was conservatively reported as a failure until the evaluation was completed.

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

### Notes

| ERO Drill Participation | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 125.0 | 122.0 | 126.0 | 126.0 | 128.0 | 127.0 | 122.0 | 124.0 |
| Total Key personnel | 125.0 | 122.0 | 126.0 | 126.0 | 128.0 | 127.0 | 122.0 | 124.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 115 | 119 | 119 | 236 | 117 | 119 | 118 | 234 |
| Total sirens-tests | 117 | 119 | 119 | 238 | 119 | 119 | 119 | 238 |
| | | | | | | | | |
| **Indicator value** | **98.3%** | **98.9%** | **99.2%** | **99.3%** | **99.3%** | **99.3%** | **99.2%** | **98.8%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| 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 | 4Q/04 | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: November 6, 2006*

# Beaver Valley 2

## 4Q/2006 Performance Indicators

Licensee's General Comments: none

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 2160.0 | 1606.8 | 2208.0 | 2209.0 | 2160.0 | 2101.8 | 2208.0 | 1223.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.8** | **0.8** | **0.9** |

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/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 1.0 |
| Critical hours | 2160.0 | 1606.8 | 2208.0 | 2209.0 | 2160.0 | 2101.8 | 2208.0 | 1223.0 |
| | | | | | | | | |
| **Indicator value** | **1.6** | **0.9** | **0.9** | **0.9** | **0** | **0.8** | **0.8** | **1.8** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **1** | **1** | **2** |

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/05** | **2Q/05** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | 1.10E-07 | 6.60E-08 | 8.90E-08 |
| URI (ΔCDF) | | | | | | -6.20E-07 | -6.20E-07 | -6.20E-07 |
| PLE | | | | | | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | **-5.10E-07** | **-5.54E-07** | **-5.31E-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/05** | **2Q/05** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | -1.30E-08 | -1.10E-08 | -8.50E-09 |
| URI (ΔCDF) | | | | | | -6.10E-08 | -5.80E-08 | -5.80E-08 |
| PLE | | | | | | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | **-7.40E-08** | **-6.90E-08** | **-6.65E-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/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | -5.90E-09 | -9.90E-10 | 3.30E-09 |
| URI (ΔCDF) | | | | | | 2.90E-07 | 2.90E-07 | 3.00E-07 |
| PLE | | | | | | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | **2.84E-07** | **2.89E-07** | **3.03E-07** |

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/05** | **2Q/05** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | 4.00E-08 | 6.20E-08 | 6.60E-08 |
| URI (ΔCDF) | | | | | | -9.00E-09 | -9.00E-09 | -9.00E-09 |
| PLE | | | | | | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | **3.10E-08** | **5.30E-08** | **5.70E-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/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | | 2.80E-09 | 1.70E-08 | 1.70E-08 |
| URI (ΔCDF) | | | | | | 2.10E-08 | 2.10E-08 | 2.10E-08 |
| PLE | | | | | | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | | **2.38E-08** | **3.80E-08** | **3.80E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000224 | 0.001480 | 0.000267 | 0.000192 | 0.000120 | 0.000105 | 0.000111 | 0.000136 | 0.000124 | 0.000127 | 0.000156 | 0.000144 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.4** | **0.1** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** |
| Maximum activity | 0.000151 | 0.000153 | 0.000167 | 0.000158 | 0.000162 | 0.000241 | 0.000175 | 0.000349 | 0.000179 | 0.000065 | 0.000239 | 0.000089 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0** | **0.1** | **0** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **1/05** | **2/05** | **3/05** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.099 | 0.084 | 0.101 | 0.053 | 0.188 | 0.108 | 0.148 | 0.114 | 0.067 | 0.086 | 0.084 | 0.067 |
| 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** | **1.0** | **0.8** | **1.0** | **0.5** | **1.9** | **1.1** | **1.5** | **1.1** | **0.7** | **0.9** | **0.8** | **0.7** |
| **Reactor Coolant System Leakage** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** |
| Maximum leakage | 0.079 | 0.064 | 0.067 | 0.083 | 0.077 | 0.087 | 0.071 | 0.123 | 0.133 | N/A | 0.060 | 0.090 |
| 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** | **0.6** | **0.7** | **0.8** | **0.8** | **0.9** | **0.7** | **1.2** | **1.3** | **N/A** | **0.6** | **0.9** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 4.0 | 11.0 | 118.0 | 34.0 | 12.0 | 51.0 | 30.0 | 31.0 |
| Total opportunities | 5.0 | 11.0 | 118.0 | 35.0 | 13.0 | 52.0 | 34.0 | 33.0 |
| | | | | | | | | |
| **Indicator value** | **95.7%** | **96.1%** | **98.2%** | **97.8%** | **97.3%** | **98.5%** | **97.1%** | **96.7%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 122.0 | 126.0 | 126.0 | 128.0 | 127.0 | 122.0 | 124.0 | 123.0 |
| Total Key personnel | 122.0 | 126.0 | 126.0 | 128.0 | 127.0 | 122.0 | 124.0 | 123.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 119 | 236 | 117 | 119 | 118 | 234 | 119 |
| Total sirens-tests | 119 | 119 | 238 | 119 | 119 | 119 | 238 | 119 |
| | | | | | | | | |
| **Indicator value** | **98.9%** | **99.2%** | **99.3%** | **99.3%** | **99.3%** | **99.2%** | **98.8%** | **99.2%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 1Q/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| 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/05 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: February 7, 2007*

# Beaver Valley 2

## 1Q/2007 Performance Indicators

Licensee's General Comments: none

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 1606.8 | 2208.0 | 2209.0 | 2160.0 | 2101.8 | 2208.0 | 1223.0 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.8** | **0.8** | **0.9** | **0.9** |

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 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 1.0 | 0 | 1.0 | 0 |
| Critical hours | 1606.8 | 2208.0 | 2209.0 | 2160.0 | 2101.8 | 2208.0 | 1223.0 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0.9** | **0** | **0.8** | **0.8** | **1.8** | **1.8** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

### Notes

| Safety System Functional Failures (PWR) | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **1** | **1** | **2** | **2** |

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** | **2Q/05** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | 1.10E-07 | 6.60E-08 | 8.90E-08 | 1.00E-07 |
| URI (ΔCDF) | | | | | -6.20E-07 | -6.20E-07 | -6.20E-07 | -6.20E-07 |
| PLE | | | | | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | **-5.10E-07** | **-5.54E-07** | **-5.31E-07** | **-5.20E-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** | **2Q/05** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | -1.30E-08 | -1.10E-08 | -8.50E-09 | -3.40E-09 |
| URI (ΔCDF) | | | | | -6.10E-08 | -5.80E-08 | -5.80E-08 | -5.80E-08 |
| PLE | | | | | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | **-7.40E-08** | **-6.90E-08** | **-6.65E-08** | **-6.14E-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 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | -5.90E-09 | -9.90E-10 | 3.30E-09 | 1.60E-09 |
| URI (ΔCDF) | | | | | 2.90E-07 | 2.90E-07 | 3.00E-07 | 3.00E-07 |
| PLE | | | | | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | **2.84E-07** | **2.89E-07** | **3.03E-07** | **3.02E-07** |

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** | **2Q/05** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | 4.00E-08 | 6.20E-08 | 6.60E-08 | 6.70E-08 |
| URI (ΔCDF) | | | | | -9.00E-09 | -9.00E-09 | -9.00E-09 | -9.00E-09 |
| PLE | | | | | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | **3.10E-08** | **5.30E-08** | **5.70E-08** | **5.80E-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** | **2Q/05** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | | 2.80E-09 | 1.70E-08 | 1.70E-08 | 1.80E-08 |
| URI (ΔCDF) | | | | | 2.10E-08 | 2.10E-08 | 2.10E-08 | 2.10E-08 |
| PLE | | | | | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | | **2.38E-08** | **3.80E-08** | **3.80E-08** | **3.90E-08** |

Licensee Comments: none

# Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000192 | 0.000120 | 0.000105 | 0.000111 | 0.000136 | 0.000124 | 0.000127 | 0.000156 | 0.000144 | 0.000151 | 0.000153 | 0.000167 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| **Reactor Coolant System Activity** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000158 | 0.000162 | 0.000241 | 0.000175 | 0.000349 | 0.000179 | 0.000065 | 0.000239 | 0.000089 | 0.000095 | 0.000101 | 0.000106 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0** | **0** | **0** |

Licensee Comments: none

# Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **4/05** | **5/05** | **6/05** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.053 | 0.188 | 0.108 | 0.148 | 0.114 | 0.067 | 0.086 | 0.084 | 0.067 | 0.079 | 0.064 | 0.067 |
| 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** | **1.9** | **1.1** | **1.5** | **1.1** | **0.7** | **0.9** | **0.8** | **0.7** | **0.8** | **0.6** | **0.7** |
| **Reactor Coolant System Leakage** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** |
| Maximum leakage | 0.083 | 0.077 | 0.087 | 0.071 | 0.123 | 0.133 | N/A | 0.060 | 0.090 | 0.080 | 0.120 | 0.080 |
| 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** | **0.9** | **0.7** | **1.2** | **1.3** | **N/A** | **0.6** | **0.9** | **0.8** | **1.2** | **0.8** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 11.0 | 118.0 | 34.0 | 12.0 | 51.0 | 30.0 | 31.0 | 15.0 |
| Total opportunities | 11.0 | 118.0 | 35.0 | 13.0 | 52.0 | 34.0 | 33.0 | 16.0 |
| | | | | | | | | |
| **Indicator value** | **96.1%** | **98.2%** | **97.8%** | **97.3%** | **98.5%** | **97.1%** | **96.7%** | **96.8%** |

Licensee Comments: none

# ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 126.0 | 126.0 | 128.0 | 127.0 | 122.0 | 124.0 | 123.0 | 124.0 |
| Total Key personnel | 126.0 | 126.0 | 128.0 | 127.0 | 122.0 | 124.0 | 123.0 | 124.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 236 | 117 | 119 | 118 | 234 | 119 | 118 |
| Total sirens-tests | 119 | 238 | 119 | 119 | 119 | 238 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.2%** | **99.3%** | **99.3%** | **99.3%** | **99.2%** | **98.8%** | **99.2%** | **99.0%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Occupational Exposure Control Effectiveness | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 |
|---|---|---|---|---|---|---|---|---|
| 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 | 2Q/05 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: June 1, 2007*

# Beaver Valley 2

## 2Q/2007 Performance Indicators

Licensee's General Comments: none

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2160.0 | 2101.8 | 2208.0 | 1223.0 | 2159.0 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.8** | **0.8** | **0.9** | **0.9** | **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 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 |
|---|---|---|---|---|---|---|---|---|
| Scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 1.0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2160.0 | 2101.8 | 2208.0 | 1223.0 | 2159.0 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0** | **0.8** | **0.8** | **1.8** | **1.8** | **0.9** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

### Notes

| Safety System Functional Failures (PWR) | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **1** | **1** | **2** | **2** | **1** |

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/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | 1.10E-07 | 6.60E-08 | 8.90E-08 | 1.00E-07 | 7.40E-09 |
| URI (ΔCDF) | | | | -6.20E-07 | -6.20E-07 | -6.20E-07 | -6.20E-07 | -6.20E-07 |
| PLE | | | | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | **-5.10E-07** | **-5.54E-07** | **-5.31E-07** | **-5.20E-07** | **-6.13E-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** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | -1.30E-08 | -1.10E-08 | -8.50E-09 | -3.40E-09 | -9.40E-09 |
| URI (ΔCDF) | | | | -6.10E-08 | -5.80E-08 | -5.80E-08 | -5.80E-08 | -5.80E-08 |
| PLE | | | | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | **-7.40E-08** | **-6.90E-08** | **-6.65E-08** | **-6.14E-08** | **-6.74E-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** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | -5.90E-09 | -9.90E-10 | 3.30E-09 | 1.60E-09 | -4.30E-10 |
| URI (ΔCDF) | | | | 2.90E-07 | 2.90E-07 | 3.00E-07 | 3.00E-07 | 3.00E-07 |
| PLE | | | | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | **2.84E-07** | **2.89E-07** | **3.03E-07** | **3.02E-07** | **3.00E-07** |

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** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | 4.00E-08 | 6.20E-08 | 6.60E-08 | 6.70E-08 | 7.00E-08 |
| URI (ΔCDF) | | | | -9.00E-09 | -9.00E-09 | -9.00E-09 | -9.00E-09 | -9.00E-09 |
| PLE | | | | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | **3.10E-08** | **5.30E-08** | **5.70E-08** | **5.80E-08** | **6.10E-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** | **3Q/05** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | | 2.80E-09 | 1.70E-08 | 1.70E-08 | 1.80E-08 | 1.80E-08 |
| URI (ΔCDF) | | | | 2.10E-08 | 2.10E-08 | 2.10E-08 | 2.10E-08 | 2.10E-08 |
| PLE | | | | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | | **2.38E-08** | **3.80E-08** | **3.80E-08** | **3.90E-08** | **3.90E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000111 | 0.000136 | 0.000124 | 0.000127 | 0.000156 | 0.000144 | 0.000151 | 0.000153 | 0.000167 | 0.000158 | 0.000162 | 0.000241 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** |
| **Reactor Coolant System Activity** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** |
| Maximum activity | 0.000175 | 0.000349 | 0.000179 | 0.000065 | 0.000239 | 0.000089 | 0.000095 | 0.000101 | 0.000106 | 0.000111 | 0.000140 | 0.000108 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0** | **0.1** | **0** | **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** | **7/05** | **8/05** | **9/05** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.148 | 0.114 | 0.067 | 0.086 | 0.084 | 0.067 | 0.079 | 0.064 | 0.067 | 0.083 | 0.077 | 0.087 |
| 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** | **1.5** | **1.1** | **0.7** | **0.9** | **0.8** | **0.7** | **0.8** | **0.6** | **0.7** | **0.8** | **0.8** | **0.9** |
| **Reactor Coolant System Leakage** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** |
| Maximum leakage | 0.071 | 0.123 | 0.133 | N/A | 0.060 | 0.090 | 0.080 | 0.120 | 0.080 | 0.070 | 0.080 | 0.080 |
| 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** | **0.7** | **1.2** | **1.3** | **N/A** | **0.6** | **0.9** | **0.8** | **1.2** | **0.8** | **0.7** | **0.8** | **0.8** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 118.0 | 34.0 | 12.0 | 51.0 | 30.0 | 31.0 | 15.0 | 26.0 |
| Total opportunities | 118.0 | 35.0 | 13.0 | 52.0 | 34.0 | 33.0 | 16.0 | 27.0 |
| | | | | | | | | |
| **Indicator value** | **98.2%** | **97.8%** | **97.3%** | **98.5%** | **97.1%** | **96.7%** | **96.8%** | **96.6%** |

Licensee Comments: none

# ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 126.0 | 128.0 | 127.0 | 122.0 | 124.0 | 123.0 | 124.0 | 122.0 |
| Total Key personnel | 126.0 | 128.0 | 127.0 | 122.0 | 124.0 | 123.0 | 124.0 | 122.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 236 | 117 | 119 | 118 | 234 | 119 | 118 | 119 |
| Total sirens-tests | 238 | 119 | 119 | 119 | 238 | 119 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.3%** | **99.3%** | **99.3%** | **99.2%** | **98.8%** | **99.2%** | **99.0%** | **99.2%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Occupational Exposure Control Effectiveness | 3Q/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 |
|---|---|---|---|---|---|---|---|---|
| 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/05 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: August 6, 2007*

# Beaver Valley 2

## 3Q/2007 Performance Indicators

Licensee's General Comments: none

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 2160.0 | 2101.8 | 2208.0 | 1223.0 | 2159.0 | 2184.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.8** | **0.8** | **0.9** | **0.9** | **0** | **0** |

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 1.0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 2160.0 | 2101.8 | 2208.0 | 1223.0 | 2159.0 | 2184.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0** | **0.8** | **0.8** | **1.8** | **1.8** | **0.9** | **0.9** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

### Notes

| Unplanned Scrams with Complications | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---|---|---|---|---|---|---|---|---|
| Scrams with complications | | | | | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| | | | | | | | | |
| **Indicator value** | | | | | | | | **0.0** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

### Notes

| Safety System Functional Failures (PWR) | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **1** | **1** | **2** | **2** | **1** | **1** |

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** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | 1.10E-07 | 6.60E-08 | 8.90E-08 | 1.00E-07 | 7.40E-09 | 5.80E-08 |
| URI (ΔCDF) | | | -6.20E-07 | -6.20E-07 | -6.20E-07 | -6.20E-07 | -6.20E-07 | -5.00E-07 |
| PLE | | | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | **-5.10E-07** | **-5.54E-07** | **-5.31E-07** | **-5.20E-07** | **-6.13E-07** | **-4.42E-07** |

Licensee Comments:

3Q/07: Changed PRA Parameter(s). PRA model for Beaver Valley Unit 2 was changed effective April 2, 2007.

## 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** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | -1.30E-08 | -1.10E-08 | -8.50E-09 | -3.40E-09 | -9.40E-09 | -5.20E-09 |
| URI (ΔCDF) | | | -6.10E-08 | -5.80E-08 | -5.80E-08 | -5.80E-08 | -5.80E-08 | -2.10E-08 |
| PLE | | | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | **-7.40E-08** | **-6.90E-08** | **-6.65E-08** | **-6.14E-08** | **-6.74E-08** | **-2.62E-08** |

Licensee Comments:

3Q/07: Changed PRA Parameter(s). PRA model for Beaver Valley Unit 2 was changed effective April 2, 2007.

## 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** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | -5.90E-09 | -9.90E-10 | 3.30E-09 | 1.60E-09 | -4.30E-10 | -2.10E-09 |
| URI (ΔCDF) | | | 2.90E-07 | 2.90E-07 | 3.00E-07 | 3.00E-07 | 3.00E-07 | 2.30E-07 |
| PLE | | | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | **2.84E-07** | **2.89E-07** | **3.03E-07** | **3.02E-07** | **3.00E-07** | **2.28E-07** |

Licensee Comments:

3Q/07: Changed PRA Parameter(s). PRA model for Beaver Valley Unit 2 was changed effective April 2, 2007.

## 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** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | 4.00E-08 | 6.20E-08 | 6.60E-08 | 6.70E-08 | 7.00E-08 | 5.10E-08 |
| URI (ΔCDF) | | | -9.00E-09 | -9.00E-09 | -9.00E-09 | -9.00E-09 | -9.00E-09 | -6.70E-09 |
| PLE | | | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | **3.10E-08** | **5.30E-08** | **5.70E-08** | **5.80E-08** | **6.10E-08** | **4.43E-08** |

Licensee Comments:

3Q/07: Changed PRA Parameter(s). PRA model for Beaver Valley Unit 2 was changed effective April 2, 2007.

## 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** | **4Q/05** | **1Q/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | | 2.80E-09 | 1.70E-08 | 1.70E-08 | 1.80E-08 | 1.80E-08 | 1.10E-08 |
| URI (ΔCDF) | | | 2.10E-08 | 2.10E-08 | 2.10E-08 | 2.10E-08 | 2.10E-08 | 5.00E-08 |
| PLE | | | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | | **2.38E-08** | **3.80E-08** | **3.80E-08** | **3.90E-08** | **3.90E-08** | **6.10E-08** |

Licensee Comments:

3Q/07: Changed PRA Parameter(s). PRA model for Beaver Valley Unit 2 was changed effective April 2, 2007.

# Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000127 | 0.000156 | 0.000144 | 0.000151 | 0.000153 | 0.000167 | 0.000158 | 0.000162 | 0.000241 | 0.000175 | 0.000349 | 0.000179 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0.1** | **0.1** | **0.1** |
| **Reactor Coolant System Activity** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** |
| Maximum activity | 0.000065 | 0.000239 | 0.000089 | 0.000095 | 0.000101 | 0.000106 | 0.000111 | 0.000140 | 0.000108 | 0.000142 | 0.000137 | 0.000138 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0.1** | **0** | **0** | **0** | **0** | **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** | **10/05** | **11/05** | **12/05** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.086 | 0.084 | 0.067 | 0.079 | 0.064 | 0.067 | 0.083 | 0.077 | 0.087 | 0.071 | 0.123 | 0.133 |
| 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** | **0.9** | **0.8** | **0.7** | **0.8** | **0.6** | **0.7** | **0.8** | **0.8** | **0.9** | **0.7** | **1.2** | **1.3** |
| **Reactor Coolant System Leakage** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** |
| Maximum leakage | N/A | 0.060 | 0.090 | 0.080 | 0.120 | 0.080 | 0.070 | 0.080 | 0.080 | 0.080 | 0.080 | 0.070 |
| 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** | **N/A** | **0.6** | **0.9** | **0.8** | **1.2** | **0.8** | **0.7** | **0.8** | **0.8** | **0.8** | **0.8** | **0.7** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

### Notes

| Drill/Exercise Performance | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 34.0 | 12.0 | 51.0 | 30.0 | 31.0 | 15.0 | 26.0 | 16.0 |
| Total opportunities | 35.0 | 13.0 | 52.0 | 34.0 | 33.0 | 16.0 | 27.0 | 16.0 |
| | | | | | | | | |
| **Indicator value** | **97.8%** | **97.3%** | **98.5%** | **97.1%** | **96.7%** | **96.8%** | **96.6%** | **95.1%** |

Licensee Comments: none

# ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 128.0 | 127.0 | 122.0 | 124.0 | 123.0 | 124.0 | 122.0 | 120.0 |
| Total Key personnel | 128.0 | 127.0 | 122.0 | 124.0 | 123.0 | 124.0 | 122.0 | 120.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 117 | 119 | 118 | 234 | 119 | 118 | 119 | 235 |
| Total sirens-tests | 119 | 119 | 119 | 238 | 119 | 119 | 119 | 238 |
| | | | | | | | | |
| **Indicator value** | **99.3%** | **99.3%** | **99.2%** | **98.8%** | **99.2%** | **99.0%** | **99.2%** | **99.3%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---|---|---|---|---|---|---|---|---|
| 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 | 4Q/05 | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: December 7, 2007*

# Beaver Valley 2

## 4Q/2007 Performance Indicators

Licensee's General Comments: none

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2160.0 | 2101.8 | 2208.0 | 1223.0 | 2159.0 | 2184.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0.8** | **0.8** | **0.9** | **0.9** | **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/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 1.0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 2160.0 | 2101.8 | 2208.0 | 1223.0 | 2159.0 | 2184.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0.8** | **0.8** | **1.8** | **1.8** | **0.9** | **0.9** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

### Notes

| Unplanned Scrams with Complications | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 |
|---|---|---|---|---|---|---|---|---|
| Scrams with complications | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| | | | | | | | | |
| **Indicator value** | | | | | | | **0.0** | **0.0** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

**Thresholds: White > 5.0**

### Notes

| Safety System Functional Failures (PWR) | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **1** | **1** | **2** | **2** | **1** | **1** | **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/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** | **4Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | 1.10E-07 | 6.60E-08 | 8.90E-08 | 1.00E-07 | 7.40E-09 | 5.80E-08 | 2.00E-07 |
| URI (ΔCDF) | | -6.20E-07 | -6.20E-07 | -6.20E-07 | -6.20E-07 | -6.20E-07 | -5.00E-07 | -1.50E-07 |
| PLE | | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | **-5.10E-07** | **-5.54E-07** | **-5.31E-07** | **-5.20E-07** | **-6.13E-07** | **-4.42E-07** | **5.00E-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/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** | **4Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | -1.30E-08 | -1.10E-08 | -8.50E-09 | -3.40E-09 | -9.40E-09 | -5.20E-09 | -6.00E-09 |
| URI (ΔCDF) | | -6.10E-08 | -5.80E-08 | -5.80E-08 | -5.80E-08 | -5.80E-08 | -2.10E-08 | -2.10E-08 |
| PLE | | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | **-7.40E-08** | **-6.90E-08** | **-6.65E-08** | **-6.14E-08** | **-6.74E-08** | **-2.62E-08** | **-2.70E-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/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** | **4Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | -5.90E-09 | -9.90E-10 | 3.30E-09 | 1.60E-09 | -4.30E-10 | -2.10E-09 | 2.50E-08 |
| URI (ΔCDF) | | 2.90E-07 | 2.90E-07 | 3.00E-07 | 3.00E-07 | 3.00E-07 | 2.30E-07 | 2.30E-07 |
| PLE | | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | **2.84E-07** | **2.89E-07** | **3.03E-07** | **3.02E-07** | **3.00E-07** | **2.28E-07** | **2.55E-07** |

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/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** | **4Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | 4.00E-08 | 6.20E-08 | 6.60E-08 | 6.70E-08 | 7.00E-08 | 5.10E-08 | 5.10E-08 |
| URI (ΔCDF) | | -9.00E-09 | -9.00E-09 | -9.00E-09 | -9.00E-09 | -9.00E-09 | -6.70E-09 | -6.70E-09 |
| PLE | | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | **3.10E-08** | **5.30E-08** | **5.70E-08** | **5.80E-08** | **6.10E-08** | **4.43E-08** | **4.43E-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/06** | **2Q/06** | **3Q/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** | **4Q/07** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | | 2.80E-09 | 1.70E-08 | 1.70E-08 | 1.80E-08 | 1.80E-08 | 1.10E-08 | 1.10E-08 |
| URI (ΔCDF) | | 2.10E-08 | 2.10E-08 | 2.10E-08 | 2.10E-08 | 2.10E-08 | 5.00E-08 | 5.00E-08 |
| PLE | | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | | **2.38E-08** | **3.80E-08** | **3.80E-08** | **3.90E-08** | **3.90E-08** | **6.10E-08** | **6.10E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

### Notes

| **Reactor Coolant System Activity** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000151 | 0.000153 | 0.000167 | 0.000158 | 0.000162 | 0.000241 | 0.000175 | 0.000349 | 0.000179 | 0.000065 | 0.000239 | 0.000089 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0** | **0.1** | **0** |
| **Reactor Coolant System Activity** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** |
| Maximum activity | 0.000095 | 0.000101 | 0.000106 | 0.000111 | 0.000140 | 0.000108 | 0.000142 | 0.000137 | 0.000138 | 0.000155 | 0.000149 | 0.000153 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **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** | **1/06** | **2/06** | **3/06** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.079 | 0.064 | 0.067 | 0.083 | 0.077 | 0.087 | 0.071 | 0.123 | 0.133 | N/A | 0.060 | 0.090 |
| 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** | **0.6** | **0.7** | **0.8** | **0.8** | **0.9** | **0.7** | **1.2** | **1.3** | **N/A** | **0.6** | **0.9** |
| **Reactor Coolant System Leakage** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** |
| Maximum leakage | 0.080 | 0.120 | 0.080 | 0.070 | 0.080 | 0.080 | 0.080 | 0.080 | 0.070 | 0.090 | 0.080 | 0.090 |
| 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** | **1.2** | **0.8** | **0.7** | **0.8** | **0.8** | **0.8** | **0.8** | **0.7** | **0.9** | **0.8** | **0.9** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 12.0 | 51.0 | 30.0 | 31.0 | 15.0 | 26.0 | 16.0 | 22.0 |
| Total opportunities | 13.0 | 52.0 | 34.0 | 33.0 | 16.0 | 27.0 | 16.0 | 23.0 |
| | | | | | | | | |
| **Indicator value** | **97.3%** | **98.5%** | **97.1%** | **96.7%** | **96.8%** | **96.6%** | **95.1%** | **94.9%** |

Licensee Comments: none

# ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 127.0 | 122.0 | 124.0 | 123.0 | 124.0 | 122.0 | 120.0 | 122.0 |
| Total Key personnel | 127.0 | 122.0 | 124.0 | 123.0 | 124.0 | 122.0 | 120.0 | 122.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 118 | 234 | 119 | 118 | 119 | 235 | 119 |
| Total sirens-tests | 119 | 119 | 238 | 119 | 119 | 119 | 238 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.3%** | **99.2%** | **98.8%** | **99.2%** | **99.0%** | **99.2%** | **99.3%** | **99.3%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 1Q/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 |
|---|---|---|---|---|---|---|---|---|
| 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/06 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: February 4, 2008*

# Beaver Valley 2

## 1Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2101.8 | 2208.0 | 1223.0 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 2183.0 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **0.8** | **0.9** | **0.9** | **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 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2101.8 | 2208.0 | 1223.0 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 2183.0 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **0.8** | **1.8** | **1.8** | **0.9** | **0.9** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| Scrams with complications | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| | | | | | | | | |
| **Indicator value** | | | | | | **0.0** | **0.0** | **0.0** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **1** | **2** | **2** | **1** | **1** | **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 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.10E-07 | 6.60E-08 | 8.90E-08 | 1.00E-07 | 7.40E-09 | 5.80E-08 | 2.00E-07 | 1.70E-07 |
| URI (ΔCDF) | -6.20E-07 | -6.20E-07 | -6.20E-07 | -6.20E-07 | -6.20E-07 | -5.00E-07 | -1.50E-07 | -1.50E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.10E-07** | **-5.54E-07** | **-5.31E-07** | **-5.20E-07** | **-6.13E-07** | **-4.42E-07** | **5.00E-08** | **2.00E-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 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.30E-08 | -1.10E-08 | -8.50E-09 | -3.40E-09 | -9.40E-09 | -5.20E-09 | -6.00E-09 | -6.60E-09 |
| URI (ΔCDF) | -6.10E-08 | -5.80E-08 | -5.80E-08 | -5.80E-08 | -5.80E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-7.40E-08** | **-6.90E-08** | **-6.65E-08** | **-6.14E-08** | **-6.74E-08** | **-2.62E-08** | **-2.70E-08** | **-2.76E-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 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.90E-09 | -9.90E-10 | 3.30E-09 | 1.60E-09 | -4.30E-10 | -2.10E-09 | 2.50E-08 | 2.90E-08 |
| URI (ΔCDF) | 2.90E-07 | 2.90E-07 | 3.00E-07 | 3.00E-07 | 3.00E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.84E-07** | **2.89E-07** | **3.03E-07** | **3.02E-07** | **3.00E-07** | **2.28E-07** | **2.55E-07** | **2.59E-07** |

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 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 4.00E-08 | 6.20E-08 | 6.60E-08 | 6.70E-08 | 7.00E-08 | 5.10E-08 | 5.10E-08 | 3.40E-08 |
| URI (ΔCDF) | -9.00E-09 | -9.00E-09 | -9.00E-09 | -9.00E-09 | -9.00E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.10E-08** | **5.30E-08** | **5.70E-08** | **5.80E-08** | **6.10E-08** | **4.43E-08** | **4.43E-08** | **2.73E-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 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.80E-09 | 1.70E-08 | 1.70E-08 | 1.80E-08 | 1.80E-08 | 1.10E-08 | 1.10E-08 | 2.70E-08 |
| URI (ΔCDF) | 2.10E-08 | 2.10E-08 | 2.10E-08 | 2.10E-08 | 2.10E-08 | 5.00E-08 | 5.00E-08 | 5.00E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.38E-08** | **3.80E-08** | **3.80E-08** | **3.90E-08** | **3.90E-08** | **6.10E-08** | **6.10E-08** | **7.70E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/06** | **5/06** | **6/06** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000158 | 0.000162 | 0.000241 | 0.000175 | 0.000349 | 0.000179 | 0.000065 | 0.000239 | 0.000089 | 0.000095 | 0.000101 | 0.000106 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.1** | **0.1** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** |
| Maximum activity | 0.000111 | 0.000140 | 0.000108 | 0.000142 | 0.000137 | 0.000138 | 0.000155 | 0.000149 | 0.000153 | 0.000156 | 0.000167 | 0.000168 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **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 | 4/06 | 5/06 | 6/06 | 7/06 | 8/06 | 9/06 | 10/06 | 11/06 | 12/06 | 1/07 | 2/07 | 3/07 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.083 | 0.077 | 0.087 | 0.071 | 0.123 | 0.133 | N/A | 0.060 | 0.090 | 0.080 | 0.120 | 0.080 |
| 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** | **0.9** | **0.7** | **1.2** | **1.3** | **N/A** | **0.6** | **0.9** | **0.8** | **1.2** | **0.8** |
| **Reactor Coolant System Leakage** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** |
| Maximum leakage | 0.070 | 0.080 | 0.080 | 0.080 | 0.080 | 0.070 | 0.090 | 0.080 | 0.090 | 0.080 | 0.120 | 0.080 |
| 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** | **0.7** | **0.8** | **0.8** | **0.8** | **0.8** | **0.7** | **0.9** | **0.8** | **0.9** | **0.8** | **1.2** | **0.8** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 51.0 | 30.0 | 31.0 | 15.0 | 26.0 | 16.0 | 22.0 | 15.0 |
| Total opportunities | 52.0 | 34.0 | 33.0 | 16.0 | 27.0 | 16.0 | 23.0 | 17.0 |
| | | | | | | | | |
| **Indicator value** | **98.5%** | **97.1%** | **96.7%** | **96.8%** | **96.6%** | **95.1%** | **94.9%** | **94.5%** |

Licensee Comments: none

# ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 122.0 | 124.0 | 123.0 | 124.0 | 122.0 | 120.0 | 122.0 | 131.0 |
| Total Key personnel | 122.0 | 124.0 | 123.0 | 124.0 | 122.0 | 120.0 | 122.0 | 131.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 118 | 234 | 119 | 118 | 119 | 235 | 119 | 119 |
| Total sirens-tests | 119 | 238 | 119 | 119 | 119 | 238 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.2%** | **98.8%** | **99.2%** | **99.0%** | **99.2%** | **99.3%** | **99.3%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| 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 | 2Q/06 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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*Last Modified: April 30, 2008*

# Beaver Valley 2

## 2Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 1223.0 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 2183.0 | 1282.7 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **0.9** | **0.9** | **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 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 1223.0 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 2183.0 | 1282.7 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **1.8** | **1.8** | **0.9** | **0.9** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| Scrams with complications | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| | | | | | | | | |
| **Indicator value** | | | | | **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/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **2** | **2** | **1** | **1** | **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/06** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** | **4Q/07** | **1Q/08** | **2Q/08** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.60E-08 | 8.90E-08 | 1.00E-07 | 7.40E-09 | 5.80E-08 | 2.00E-07 | 1.70E-07 | 7.40E-10 |
| URI (ΔCDF) | -6.20E-07 | -6.20E-07 | -6.20E-07 | -6.20E-07 | -5.00E-07 | -1.50E-07 | -1.50E-07 | -1.50E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.54E-07** | **-5.31E-07** | **-5.20E-07** | **-6.13E-07** | **-4.42E-07** | **5.00E-08** | **2.00E-08** | **-1.49E-07** |

Licensee Comments:

2Q/08: Changed PRA Parameter(s). Planned Unavailability Baseline data changed per NEI 99-02, effective 2nd qtr 2008

## 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/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.10E-08 | -8.50E-09 | -3.40E-09 | -9.40E-09 | -5.20E-09 | -6.00E-09 | -6.60E-09 | -6.20E-09 |
| URI (ΔCDF) | -5.80E-08 | -5.80E-08 | -5.80E-08 | -5.80E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-6.90E-08** | **-6.65E-08** | **-6.14E-08** | **-6.74E-08** | **-2.62E-08** | **-2.70E-08** | **-2.76E-08** | **-2.72E-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 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -9.90E-10 | 3.30E-09 | 1.60E-09 | -4.30E-10 | -2.10E-09 | 2.50E-08 | 2.90E-08 | 2.90E-08 |
| URI (ΔCDF) | 2.90E-07 | 3.00E-07 | 3.00E-07 | 3.00E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.89E-07** | **3.03E-07** | **3.02E-07** | **3.00E-07** | **2.28E-07** | **2.55E-07** | **2.59E-07** | **2.59E-07** |

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 | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.20E-08 | 6.60E-08 | 6.70E-08 | 7.00E-08 | 5.10E-08 | 5.10E-08 | 3.40E-08 | -2.40E-09 |
| URI (ΔCDF) | -9.00E-09 | -9.00E-09 | -9.00E-09 | -9.00E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **5.30E-08** | **5.70E-08** | **5.80E-08** | **6.10E-08** | **4.43E-08** | **4.43E-08** | **2.73E-08** | **-9.10E-09** |

Licensee Comments:

2Q/08: Changed PRA Parameter(s). Planned Unavailability Baseline data changed per NEI 99-02, effective 2nd qtr 2008

## 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/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.70E-08 | 1.70E-08 | 1.80E-08 | 1.80E-08 | 1.10E-08 | 1.10E-08 | 2.70E-08 | 5.90E-08 |
| URI (ΔCDF) | 2.10E-08 | 2.10E-08 | 2.10E-08 | 2.10E-08 | 5.00E-08 | 5.00E-08 | 5.00E-08 | 5.00E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.80E-08** | **3.80E-08** | **3.90E-08** | **3.90E-08** | **6.10E-08** | **6.10E-08** | **7.70E-08** | **1.09E-07** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000175 | 0.000349 | 0.000179 | 0.000065 | 0.000239 | 0.000089 | 0.000095 | 0.000101 | 0.000106 | 0.000111 | 0.000140 | 0.000108 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0.1** | **0.1** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** | **4/08** | **5/08** | **6/08** |
| Maximum activity | 0.000142 | 0.000137 | 0.000138 | 0.000155 | 0.000149 | 0.000153 | 0.000156 | 0.000167 | 0.000168 | 0.000299 | 0.000067 | 0.000083 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** |

Licensee Comments: none

# Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **7/06** | **8/06** | **9/06** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.071 | 0.123 | 0.133 | N/A | 0.060 | 0.090 | 0.080 | 0.120 | 0.080 | 0.070 | 0.080 | 0.080 |
| 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** | **0.7** | **1.2** | **1.3** | **N/A** | **0.6** | **0.9** | **0.8** | **1.2** | **0.8** | **0.7** | **0.8** | **0.8** |
| **Reactor Coolant System Leakage** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** | **4/08** | **5/08** | **6/08** |
| Maximum leakage | 0.080 | 0.080 | 0.070 | 0.090 | 0.080 | 0.090 | 0.080 | 0.120 | 0.080 | 0.080 | 0.070 | 0.070 |
| 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** | **0.9** | **0.8** | **0.9** | **0.8** | **1.2** | **0.8** | **0.8** | **0.7** | **0.7** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 30.0 | 31.0 | 15.0 | 26.0 | 16.0 | 22.0 | 15.0 | 30.0 |
| Total opportunities | 34.0 | 33.0 | 16.0 | 27.0 | 16.0 | 23.0 | 17.0 | 34.0 |
| | | | | | | | | |
| **Indicator value** | **97.1%** | **96.7%** | **96.8%** | **96.6%** | **95.1%** | **94.9%** | **94.5%** | **92.5%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 124.0 | 123.0 | 124.0 | 122.0 | 120.0 | 122.0 | 131.0 | 131.0 |
| Total Key personnel | 124.0 | 123.0 | 124.0 | 122.0 | 120.0 | 122.0 | 131.0 | 131.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 234 | 119 | 118 | 119 | 235 | 119 | 119 | 119 |
| Total sirens-tests | 238 | 119 | 119 | 119 | 238 | 119 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **98.8%** | **99.2%** | **99.0%** | **99.2%** | **99.3%** | **99.3%** | **99.5%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| 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/06 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Physical Protection information not publicly available.

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# Beaver Valley 2

## 3Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1223.0 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 2183.0 | 1282.7 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 6.0

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1223.0 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 2183.0 | 1282.7 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **1.8** | **1.8** | **0.9** | **0.9** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| Scrams with complications | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| | | | | | | | | |
| **Indicator value** | | | | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** |

Licensee Comments: none

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **2** | **2** | **1** | **1** | **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** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** | **4Q/07** | **1Q/08** | **2Q/08** | **3Q/08** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 8.90E-08 | 1.00E-07 | 7.40E-09 | 5.80E-08 | 2.00E-07 | 1.70E-07 | 7.40E-10 | -1.40E-09 |
| URI (ΔCDF) | -6.30E-07 | -6.30E-07 | -6.30E-07 | -5.10E-07 | -1.60E-07 | -1.60E-07 | -1.60E-07 | 9.70E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.41E-07** | **-5.30E-07** | **-6.23E-07** | **-4.52E-07** | **4.00E-08** | **1.00E-08** | **-1.59E-07** | **9.56E-08** |

Licensee Comments:

3Q/08: Changed PRA Parameter(s). Planned Unavailability Baseline Data changed/verified.

3Q/08: Planned Unavailability Baseline Data changed/verified. Revised EDG surveillance run time due to a change in surveillance requirements.

2Q/08: Planned Unavailability Baseline data changed per NEI 99-02, effective 2nd qtr 2008

3Q/07: PRA model for Beaver Valley Unit 2 was changed effective April 2, 2007.

## 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** | **4Q/06** | **1Q/07** | **2Q/07** | **3Q/07** | **4Q/07** | **1Q/08** | **2Q/08** | **3Q/08** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -8.50E-09 | -3.40E-09 | -9.40E-09 | -5.20E-09 | -6.00E-09 | -6.60E-09 | -6.20E-09 | -7.20E-09 |
| URI (ΔCDF) | -5.80E-08 | -5.80E-08 | -5.80E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-6.65E-08** | **-6.14E-08** | **-6.74E-08** | **-2.62E-08** | **-2.70E-08** | **-2.76E-08** | **-2.72E-08** | **-2.82E-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 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 3.30E-09 | 1.60E-09 | -4.30E-10 | -2.10E-09 | 2.50E-08 | 2.90E-08 | 2.90E-08 | 6.90E-08 |
| URI (ΔCDF) | 3.00E-07 | 3.00E-07 | 3.00E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.03E-07** | **3.02E-07** | **3.00E-07** | **2.28E-07** | **2.55E-07** | **2.59E-07** | **2.59E-07** | **2.99E-07** |

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 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.60E-08 | 6.70E-08 | 7.00E-08 | 5.10E-08 | 5.10E-08 | 3.40E-08 | -2.40E-09 | -4.10E-09 |
| URI (ΔCDF) | -9.00E-09 | -9.00E-09 | -9.00E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **5.70E-08** | **5.80E-08** | **6.10E-08** | **4.43E-08** | **4.43E-08** | **2.73E-08** | **-9.10E-09** | **-1.08E-08** |

Licensee Comments:

3Q/08: Changed PRA Parameter(s). Planned Unavailability Baseline Data changed/verified.

## 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 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.70E-08 | 1.80E-08 | 1.80E-08 | 1.10E-08 | 1.10E-08 | 2.70E-08 | 5.90E-08 | 5.50E-08 |
| URI (ΔCDF) | 2.10E-08 | 2.10E-08 | 2.10E-08 | 5.00E-08 | 5.00E-08 | 5.00E-08 | 5.00E-08 | 4.10E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.80E-08** | **3.90E-08** | **3.90E-08** | **6.10E-08** | **6.10E-08** | **7.70E-08** | **1.09E-07** | **9.60E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000065 | 0.000239 | 0.000089 | 0.000095 | 0.000101 | 0.000106 | 0.000111 | 0.000140 | 0.000108 | 0.000142 | 0.000137 | 0.000138 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** | **4/08** | **5/08** | **6/08** | **7/08** | **8/08** | **9/08** |
| Maximum activity | 0.000155 | 0.000149 | 0.000153 | 0.000156 | 0.000167 | 0.000168 | 0.000299 | 0.000067 | 0.000083 | 0.000099 | 0.000113 | 0.000115 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

# Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **10/06** | **11/06** | **12/06** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | N/A | 0.060 | 0.090 | 0.080 | 0.120 | 0.080 | 0.070 | 0.080 | 0.080 | 0.080 | 0.080 | 0.070 |
| 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** | **N/A** | **0.6** | **0.9** | **0.8** | **1.2** | **0.8** | **0.7** | **0.8** | **0.8** | **0.8** | **0.8** | **0.7** |
| **Reactor Coolant System Leakage** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** | **4/08** | **5/08** | **6/08** | **7/08** | **8/08** | **9/08** |
| Maximum leakage | 0.090 | 0.080 | 0.090 | 0.080 | 0.120 | 0.080 | 0.080 | 0.070 | 0.070 | 0.070 | 0.060 | 0.060 |
| 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** | **0.9** | **0.8** | **0.9** | **0.8** | **1.2** | **0.8** | **0.8** | **0.7** | **0.7** | **0.7** | **0.6** | **0.6** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 31.0 | 15.0 | 26.0 | 16.0 | 22.0 | 15.0 | 30.0 | 24.0 |
| Total opportunities | 33.0 | 16.0 | 27.0 | 16.0 | 23.0 | 17.0 | 34.0 | 27.0 |
| | | | | | | | | |
| **Indicator value** | **96.7%** | **96.8%** | **96.6%** | **95.1%** | **94.9%** | **94.5%** | **92.5%** | **92.7%** |

Licensee Comments: none

# ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 123.0 | 124.0 | 122.0 | 120.0 | 122.0 | 131.0 | 131.0 | 129.0 |
| Total Key personnel | 123.0 | 124.0 | 122.0 | 120.0 | 122.0 | 131.0 | 131.0 | 129.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 118 | 119 | 235 | 119 | 119 | 119 | 237 |
| Total sirens-tests | 119 | 119 | 119 | 238 | 119 | 119 | 119 | 238 |
| | | | | | | | | |
| **Indicator value** | **99.2%** | **99.0%** | **99.2%** | **99.3%** | **99.3%** | **99.5%** | **99.5%** | **99.8%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| 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 | 4Q/06 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Security information not publicly available.

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*Last Modified: November 26, 2008*

# Beaver Valley 2

## 4Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 2183.0 | 1282.7 | 2208.0 | 2129.8 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0** | **0** | **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/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 2183.0 | 1282.7 | 2208.0 | 2129.8 |
| | | | | | | | | |
| **Indicator value** | **1.8** | **0.9** | **0.9** | **0** | **0** | **0** | **0** | **0.9** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

### Notes

| Unplanned Scrams with Complications | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| 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** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

Thresholds: White > 5.0

### Notes

| Safety System Functional Failures (PWR) | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **2** | **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 | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.00E-07 | 7.40E-09 | 5.80E-08 | 2.00E-07 | 1.70E-07 | 7.40E-10 | -1.40E-09 | 2.50E-08 |
| URI (ΔCDF) | -6.30E-07 | -6.30E-07 | -5.10E-07 | -1.60E-07 | -1.60E-07 | -1.60E-07 | 9.70E-08 | 6.00E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.30E-07** | **-6.23E-07** | **-4.52E-07** | **4.00E-08** | **1.00E-08** | **-1.59E-07** | **9.56E-08** | **6.25E-07** |

Licensee Comments:

4Q/08: Risk Cap Invoked. Emergency Diesel was determined to be incapable of completing its mission time resulting in a "run" failure.

## 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/07** | **2Q/07** | **3Q/07** | **4Q/07** | **1Q/08** | **2Q/08** | **3Q/08** | **4Q/08** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.40E-09 | -9.40E-09 | -5.20E-09 | -6.00E-09 | -6.60E-09 | -6.20E-09 | -7.20E-09 | -6.30E-09 |
| URI (ΔCDF) | -5.80E-08 | -5.80E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-6.14E-08** | **-6.74E-08** | **-2.62E-08** | **-2.70E-08** | **-2.76E-08** | **-2.72E-08** | **-2.82E-08** | **-2.73E-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/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.60E-09 | -4.30E-10 | -2.10E-09 | 2.50E-08 | 2.90E-08 | 2.90E-08 | 6.90E-08 | 7.70E-08 |
| URI (ΔCDF) | 3.00E-07 | 3.00E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.02E-07** | **3.00E-07** | **2.28E-07** | **2.55E-07** | **2.59E-07** | **2.59E-07** | **2.99E-07** | **3.07E-07** |

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/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.70E-08 | 7.00E-08 | 5.10E-08 | 5.10E-08 | 3.40E-08 | -2.40E-09 | -4.10E-09 | -5.90E-09 |
| URI (ΔCDF) | -9.00E-09 | -9.00E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **5.80E-08** | **6.10E-08** | **4.43E-08** | **4.43E-08** | **2.73E-08** | **-9.10E-09** | **-1.08E-08** | **-1.26E-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/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.80E-08 | 1.80E-08 | 1.10E-08 | 1.10E-08 | 2.70E-08 | 5.90E-08 | 5.50E-08 | 6.50E-08 |
| URI (ΔCDF) | 2.10E-08 | 2.10E-08 | 5.00E-08 | 5.00E-08 | 5.00E-08 | 5.00E-08 | 4.10E-08 | 2.60E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.90E-08** | **3.90E-08** | **6.10E-08** | **6.10E-08** | **7.70E-08** | **1.09E-07** | **9.60E-08** | **9.10E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000095 | 0.000101 | 0.000106 | 0.000111 | 0.000140 | 0.000108 | 0.000142 | 0.000137 | 0.000138 | 0.000155 | 0.000149 | 0.000153 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| **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 | 0.000156 | 0.000167 | 0.000168 | 0.000299 | 0.000067 | 0.000083 | 0.000099 | 0.000113 | 0.000115 | 0.000116 | 0.000128 | 0.000125 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.1** | **0** | **0** | **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** | **1/07** | **2/07** | **3/07** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.080 | 0.120 | 0.080 | 0.070 | 0.080 | 0.080 | 0.080 | 0.080 | 0.070 | 0.090 | 0.080 | 0.090 |
| 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** | **1.2** | **0.8** | **0.7** | **0.8** | **0.8** | **0.8** | **0.8** | **0.7** | **0.9** | **0.8** | **0.9** |
| **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 | 0.080 | 0.120 | 0.080 | 0.080 | 0.070 | 0.070 | 0.070 | 0.060 | 0.060 | 0.070 | 0.070 | 0.060 |
| 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** | **1.2** | **0.8** | **0.8** | **0.7** | **0.7** | **0.7** | **0.6** | **0.6** | **0.7** | **0.7** | **0.6** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 15.0 | 26.0 | 16.0 | 22.0 | 15.0 | 30.0 | 24.0 | 44.0 |
| Total opportunities | 16.0 | 27.0 | 16.0 | 23.0 | 17.0 | 34.0 | 27.0 | 45.0 |
| | | | | | | | | |
| **Indicator value** | **96.8%** | **96.6%** | **95.1%** | **94.9%** | **94.5%** | **92.5%** | **92.7%** | **93.7%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

### Notes

| ERO Drill Participation | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 124.0 | 122.0 | 120.0 | 122.0 | 131.0 | 131.0 | 129.0 | 125.0 |
| Total Key personnel | 124.0 | 122.0 | 120.0 | 122.0 | 131.0 | 131.0 | 129.0 | 125.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 118 | 119 | 235 | 119 | 119 | 119 | 237 | 118 |
| Total sirens-tests | 119 | 119 | 238 | 119 | 119 | 119 | 238 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.0%** | **99.2%** | **99.3%** | **99.3%** | **99.5%** | **99.5%** | **99.8%** | **99.7%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Occupational Exposure Control Effectiveness | 1Q/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| 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/07 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Security information not publicly available.

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*Last Modified: February 4, 2009*

# Beaver Valley 2

## 1Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2208.0 | 2209.0 | 2183.0 | 1282.7 | 2208.0 | 2129.8 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 2184.0 | 2208.0 | 2209.0 | 2183.0 | 1282.7 | 2208.0 | 2129.8 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0** | **0** | **0** | **0** | **0.9** | **0.9** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/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** |

Licensee Comments: none

## Safety System Functional Failures (PWR)

Thresholds: White > 5.0

### Notes

| Safety System Functional Failures (PWR) | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **1** | **0** | **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 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 7.40E-09 | 5.80E-08 | 2.00E-07 | 1.70E-07 | 7.40E-10 | -1.40E-09 | 2.50E-08 | 2.50E-08 |
| URI (ΔCDF) | -6.30E-07 | -5.10E-07 | -1.60E-07 | -1.60E-07 | -1.60E-07 | 9.70E-08 | 6.00E-07 | 6.00E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-6.23E-07** | **-4.52E-07** | **4.00E-08** | **1.00E-08** | **-1.59E-07** | **9.56E-08** | **6.25E-07** | **6.25E-07** |

Licensee Comments:

1Q/09: Risk Cap Invoked.

## 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 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -9.40E-09 | -5.20E-09 | -6.00E-09 | -6.60E-09 | -6.20E-09 | -7.20E-09 | -6.30E-09 | -7.80E-09 |
| URI (ΔCDF) | -5.80E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-6.74E-08** | **-2.62E-08** | **-2.70E-08** | **-2.76E-08** | **-2.72E-08** | **-2.82E-08** | **-2.73E-08** | **-2.88E-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 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -4.30E-10 | -2.10E-09 | 2.50E-08 | 2.90E-08 | 2.90E-08 | 6.90E-08 | 7.70E-08 | 6.90E-08 |
| URI (ΔCDF) | 3.00E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.00E-07** | **2.28E-07** | **2.55E-07** | **2.59E-07** | **2.59E-07** | **2.99E-07** | **3.07E-07** | **2.99E-07** |

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 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 7.00E-08 | 5.10E-08 | 5.10E-08 | 3.40E-08 | -2.40E-09 | -4.10E-09 | -5.90E-09 | -5.90E-09 |
| URI (ΔCDF) | -9.00E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.10E-08** | **4.43E-08** | **4.43E-08** | **2.73E-08** | **-9.10E-09** | **-1.08E-08** | **-1.26E-08** | **-1.26E-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 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.80E-08 | 1.10E-08 | 1.10E-08 | 2.70E-08 | 5.90E-08 | 5.50E-08 | 6.50E-08 | 6.50E-08 |
| URI (ΔCDF) | 2.10E-08 | 5.00E-08 | 5.00E-08 | 5.00E-08 | 5.00E-08 | 4.10E-08 | 2.60E-08 | 2.60E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.90E-08** | **6.10E-08** | **6.10E-08** | **7.70E-08** | **1.09E-07** | **9.60E-08** | **9.10E-08** | **9.10E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000111 | 0.000140 | 0.000108 | 0.000142 | 0.000137 | 0.000138 | 0.000155 | 0.000149 | 0.000153 | 0.000156 | 0.000167 | 0.000168 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **4/08** | **5/08** | **6/08** | **7/08** | **8/08** | **9/08** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** |
| Maximum activity | 0.000299 | 0.000067 | 0.000083 | 0.000099 | 0.000113 | 0.000115 | 0.000116 | 0.000128 | 0.000125 | 0.000135 | 0.000033 | 0.000149 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0** | **0** | **0** | **0** | **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** | **4/07** | **5/07** | **6/07** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.070 | 0.080 | 0.080 | 0.080 | 0.080 | 0.070 | 0.090 | 0.080 | 0.090 | 0.080 | 0.120 | 0.080 |
| 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** | **0.7** | **0.8** | **0.8** | **0.8** | **0.8** | **0.7** | **0.9** | **0.8** | **0.9** | **0.8** | **1.2** | **0.8** |
| **Reactor Coolant System Leakage** | **4/08** | **5/08** | **6/08** | **7/08** | **8/08** | **9/08** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** |
| Maximum leakage | 0.080 | 0.070 | 0.070 | 0.070 | 0.060 | 0.060 | 0.070 | 0.070 | 0.060 | 0.060 | 0.050 | 0.070 |
| 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** | **0.7** | **0.7** | **0.7** | **0.6** | **0.6** | **0.7** | **0.7** | **0.6** | **0.6** | **0.5** | **0.7** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 26.0 | 16.0 | 22.0 | 15.0 | 30.0 | 24.0 | 44.0 | 40.0 |
| Total opportunities | 27.0 | 16.0 | 23.0 | 17.0 | 34.0 | 27.0 | 45.0 | 40.0 |
| | | | | | | | | |
| **Indicator value** | **96.6%** | **95.1%** | **94.9%** | **94.5%** | **92.5%** | **92.7%** | **93.7%** | **94.8%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 122.0 | 120.0 | 122.0 | 131.0 | 131.0 | 129.0 | 125.0 | 129.0 |
| Total Key personnel | 122.0 | 120.0 | 122.0 | 131.0 | 131.0 | 129.0 | 125.0 | 129.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 235 | 119 | 119 | 119 | 237 | 118 | 118 |
| Total sirens-tests | 119 | 238 | 119 | 119 | 119 | 238 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.2%** | **99.3%** | **99.3%** | **99.5%** | **99.5%** | **99.8%** | **99.7%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Occupational Exposure Control Effectiveness | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/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 | 2Q/07 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/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

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Security information not publicly available.

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*Last Modified: May 1, 2009*

# Beaver Valley 2

## 2Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2183.0 | 1282.7 | 2208.0 | 2129.8 | 2159.0 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2183.0 | 1282.7 | 2208.0 | 2129.8 | 2159.0 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0** | **0** | **0** | **0** | **0.9** | **0.9** | **0.8** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

### Notes

| Unplanned Scrams with Complications | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/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) | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **0** | **0** | **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/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 5.80E-08 | 2.00E-07 | 1.70E-07 | 7.40E-10 | -1.40E-09 | 2.50E-08 | 2.50E-08 | 2.50E-08 |
| URI (ΔCDF) | -5.10E-07 | -1.60E-07 | -1.60E-07 | -1.60E-07 | 9.70E-08 | 6.00E-07 | 6.00E-07 | 6.10E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-4.52E-07** | **4.00E-08** | **1.00E-08** | **-1.59E-07** | **9.56E-08** | **6.25E-07** | **6.25E-07** | **6.35E-07** |

Licensee Comments:

2Q/09: Risk Cap Invoked.

## 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/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.20E-09 | -6.00E-09 | -6.60E-09 | -6.20E-09 | -7.20E-09 | -6.30E-09 | -7.80E-09 | -7.80E-09 |
| URI (ΔCDF) | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.62E-08** | **-2.70E-08** | **-2.76E-08** | **-2.72E-08** | **-2.82E-08** | **-2.73E-08** | **-2.88E-08** | **-2.88E-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 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.10E-09 | 2.50E-08 | 2.90E-08 | 2.90E-08 | 6.90E-08 | 7.70E-08 | 6.90E-08 | 5.10E-09 |
| URI (ΔCDF) | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | -4.90E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.28E-07** | **2.55E-07** | **2.59E-07** | **2.59E-07** | **2.99E-07** | **3.07E-07** | **2.99E-07** | **-4.39E-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 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 5.10E-08 | 5.10E-08 | 3.40E-08 | -2.40E-09 | -4.10E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 |
| URI (ΔCDF) | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **4.43E-08** | **4.43E-08** | **2.73E-08** | **-9.10E-09** | **-1.08E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-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 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.10E-08 | 1.10E-08 | 2.70E-08 | 5.90E-08 | 5.50E-08 | 6.50E-08 | 6.50E-08 | 6.40E-08 |
| URI (ΔCDF) | 5.00E-08 | 5.00E-08 | 5.00E-08 | 5.00E-08 | 4.10E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.10E-08** | **6.10E-08** | **7.70E-08** | **1.09E-07** | **9.60E-08** | **9.10E-08** | **9.10E-08** | **9.00E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** | **4/08** | **5/08** | **6/08** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000142 | 0.000137 | 0.000138 | 0.000155 | 0.000149 | 0.000153 | 0.000156 | 0.000167 | 0.000168 | 0.000299 | 0.000067 | 0.000083 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** |
| **Reactor Coolant System Activity** | **7/08** | **8/08** | **9/08** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** | **4/09** | **5/09** | **6/09** |
| Maximum activity | 0.000099 | 0.000113 | 0.000115 | 0.000116 | 0.000128 | 0.000125 | 0.000135 | 0.000033 | 0.000149 | 0.000147 | 0.000162 | 0.000152 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **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** | **7/07** | **8/07** | **9/07** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** | **4/08** | **5/08** | **6/08** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.080 | 0.080 | 0.070 | 0.090 | 0.080 | 0.090 | 0.080 | 0.120 | 0.080 | 0.080 | 0.070 | 0.070 |
| 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** | **0.9** | **0.8** | **0.9** | **0.8** | **1.2** | **0.8** | **0.8** | **0.7** | **0.7** |
| **Reactor Coolant System Leakage** | **7/08** | **8/08** | **9/08** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** | **4/09** | **5/09** | **6/09** |
| Maximum leakage | 0.070 | 0.060 | 0.060 | 0.070 | 0.070 | 0.060 | 0.060 | 0.050 | 0.070 | 0.070 | 0.080 | 0.070 |
| 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** | **0.7** | **0.6** | **0.6** | **0.7** | **0.7** | **0.6** | **0.6** | **0.5** | **0.7** | **0.7** | **0.8** | **0.7** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 16.0 | 22.0 | 15.0 | 30.0 | 24.0 | 44.0 | 40.0 | 29.0 |
| Total opportunities | 16.0 | 23.0 | 17.0 | 34.0 | 27.0 | 45.0 | 40.0 | 29.0 |
| | | | | | | | | |
| **Indicator value** | **95.1%** | **94.9%** | **94.5%** | **92.5%** | **92.7%** | **93.7%** | **94.8%** | **95.2%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

### Notes

| ERO Drill Participation | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 120.0 | 122.0 | 131.0 | 131.0 | 129.0 | 125.0 | 129.0 | 123.0 |
| Total Key personnel | 120.0 | 122.0 | 131.0 | 131.0 | 129.0 | 125.0 | 129.0 | 123.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 235 | 119 | 119 | 119 | 237 | 118 | 118 | 119 |
| Total sirens-tests | 238 | 119 | 119 | 119 | 238 | 119 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.3%** | **99.3%** | **99.5%** | **99.5%** | **99.8%** | **99.7%** | **99.5%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

### Notes

| Occupational Exposure Control Effectiveness | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/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 | 3Q/07 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/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

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Security information not publicly available.

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*Last Modified: July 22, 2009*

# Beaver Valley 2

## 3Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 2183.0 | 1282.7 | 2208.0 | 2129.8 | 2159.0 | 2184.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 2183.0 | 1282.7 | 2208.0 | 2129.8 | 2159.0 | 2184.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.9** | **0.9** | **0.8** | **0.8** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/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) | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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** | **4Q/07** | **1Q/08** | **2Q/08** | **3Q/08** | **4Q/08** | **1Q/09** | **2Q/09** | **3Q/09** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.00E-07 | 1.70E-07 | 7.40E-10 | -1.40E-09 | 2.50E-08 | 2.50E-08 | 2.50E-08 | 2.50E-08 |
| URI (ΔCDF) | -1.60E-07 | -1.60E-07 | -1.60E-07 | 9.70E-08 | 6.00E-07 | 6.00E-07 | 6.10E-07 | 6.10E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **4.00E-08** | **1.00E-08** | **-1.59E-07** | **9.56E-08** | **6.25E-07** | **6.25E-07** | **6.35E-07** | **6.35E-07** |

Licensee Comments:

3Q/09: Risk Cap Invoked.

## 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** | **4Q/07** | **1Q/08** | **2Q/08** | **3Q/08** | **4Q/08** | **1Q/09** | **2Q/09** | **3Q/09** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -6.00E-09 | -6.60E-09 | -6.20E-09 | -7.20E-09 | -6.30E-09 | -7.80E-09 | -7.80E-09 | -8.00E-09 |
| URI (ΔCDF) | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.70E-08** | **-2.76E-08** | **-2.72E-08** | **-2.82E-08** | **-2.73E-08** | **-2.88E-08** | **-2.88E-08** | **-2.90E-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 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.50E-08 | 2.90E-08 | 2.90E-08 | 6.90E-08 | 7.70E-08 | 6.90E-08 | 5.10E-09 | -3.90E-08 |
| URI (ΔCDF) | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | -4.90E-08 | -4.90E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.55E-07** | **2.59E-07** | **2.59E-07** | **2.99E-07** | **3.07E-07** | **2.99E-07** | **-4.39E-08** | **-8.80E-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 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 5.10E-08 | 3.40E-08 | -2.40E-09 | -4.10E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 |
| URI (ΔCDF) | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **4.43E-08** | **2.73E-08** | **-9.10E-09** | **-1.08E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-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 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.10E-08 | 2.70E-08 | 5.90E-08 | 5.50E-08 | 6.50E-08 | 6.50E-08 | 6.40E-08 | 6.80E-08 |
| URI (ΔCDF) | 5.00E-08 | 5.00E-08 | 5.00E-08 | 4.10E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.10E-08** | **7.70E-08** | **1.09E-07** | **9.60E-08** | **9.10E-08** | **9.10E-08** | **9.00E-08** | **9.40E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** | **4/08** | **5/08** | **6/08** | **7/08** | **8/08** | **9/08** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000155 | 0.000149 | 0.000153 | 0.000156 | 0.000167 | 0.000168 | 0.000299 | 0.000067 | 0.000083 | 0.000099 | 0.000113 | 0.000115 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** | **4/09** | **5/09** | **6/09** | **7/09** | **8/09** | **9/09** |
| Maximum activity | 0.000116 | 0.000128 | 0.000125 | 0.000135 | 0.000033 | 0.000149 | 0.000147 | 0.000162 | 0.000152 | 0.000178 | 0.000167 | 0.000170 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** |

Licensee Comments: none

# Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **10/07** | **11/07** | **12/07** | **1/08** | **2/08** | **3/08** | **4/08** | **5/08** | **6/08** | **7/08** | **8/08** | **9/08** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.090 | 0.080 | 0.090 | 0.080 | 0.120 | 0.080 | 0.080 | 0.070 | 0.070 | 0.070 | 0.060 | 0.060 |
| 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** | **0.9** | **0.8** | **0.9** | **0.8** | **1.2** | **0.8** | **0.8** | **0.7** | **0.7** | **0.7** | **0.6** | **0.6** |
| **Reactor Coolant System Leakage** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** | **4/09** | **5/09** | **6/09** | **7/09** | **8/09** | **9/09** |
| Maximum leakage | 0.070 | 0.070 | 0.060 | 0.060 | 0.050 | 0.070 | 0.070 | 0.080 | 0.070 | 0.070 | 0.070 | 0.070 |
| 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** | **0.7** | **0.7** | **0.6** | **0.6** | **0.5** | **0.7** | **0.7** | **0.8** | **0.7** | **0.7** | **0.7** | **0.7** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 22.0 | 15.0 | 30.0 | 24.0 | 44.0 | 40.0 | 29.0 | 22.0 |
| Total opportunities | 23.0 | 17.0 | 34.0 | 27.0 | 45.0 | 40.0 | 29.0 | 22.0 |
| | | | | | | | | |
| **Indicator value** | **94.9%** | **94.5%** | **92.5%** | **92.7%** | **93.7%** | **94.8%** | **95.2%** | **95.4%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 122.0 | 131.0 | 131.0 | 129.0 | 125.0 | 129.0 | 123.0 | 122.0 |
| Total Key personnel | 122.0 | 131.0 | 131.0 | 129.0 | 125.0 | 129.0 | 123.0 | 122.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 119 | 119 | 237 | 118 | 118 | 119 | 237 |
| Total sirens-tests | 119 | 119 | 119 | 238 | 119 | 119 | 119 | 238 |
| | | | | | | | | |
| **Indicator value** | **99.3%** | **99.5%** | **99.5%** | **99.8%** | **99.7%** | **99.5%** | **99.5%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/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 | 4Q/07 | 1Q/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/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

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Security information not publicly available.

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*Last Modified: November 30, 2009*

# Beaver Valley 2

## 4Q/2009 Performance Indicators

Licensee's General Comments: none

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 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 1282.7 | 2208.0 | 2129.8 | 2159.0 | 2184.0 | 2208.0 | 1122.3 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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/08 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 1282.7 | 2208.0 | 2129.8 | 2159.0 | 2184.0 | 2208.0 | 1122.3 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.9** | **0.9** | **0.8** | **0.8** | **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 (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 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** |

Licensee Comments:

4Q/09: LER 2009-001-00

## 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 (ΔCDF) | 1.70E-07 | 7.40E-10 | -1.40E-09 | 2.50E-08 | 2.50E-08 | 2.50E-08 | 2.50E-08 | -5.00E-09 |
| URI (ΔCDF) | -1.60E-07 | -1.60E-07 | 9.70E-08 | 6.00E-07 | 6.00E-07 | 6.10E-07 | 6.10E-07 | 6.10E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **1.00E-08** | **-1.59E-07** | **9.56E-08** | **6.25E-07** | **6.25E-07** | **6.35E-07** | **6.35E-07** | **6.05E-07** |

Licensee Comments:

4Q/09: Risk Cap Invoked.

## 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 (ΔCDF) | -6.60E-09 | -6.20E-09 | -7.20E-09 | -6.30E-09 | -7.80E-09 | -7.80E-09 | -8.00E-09 | -7.90E-09 |
| URI (ΔCDF) | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.76E-08** | **-2.72E-08** | **-2.82E-08** | **-2.73E-08** | **-2.88E-08** | **-2.88E-08** | **-2.90E-08** | **-2.89E-08** |

Licensee Comments:

4Q/09: Planned Unavailability Baseline data changed per NEI 99-02, effective 4th quarter of 2009.

## 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 (ΔCDF) | 2.90E-08 | 2.90E-08 | 6.90E-08 | 7.70E-08 | 6.90E-08 | 5.10E-09 | -3.90E-08 | -5.30E-08 |
| URI (ΔCDF) | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | -4.90E-08 | -4.90E-08 | -4.90E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.59E-07** | **2.59E-07** | **2.99E-07** | **3.07E-07** | **2.99E-07** | **-4.39E-08** | **-8.80E-08** | **-1.02E-07** |

Licensee Comments:

4Q/09: Planned Unavailability Baseline data changed per NEI 99-02, effective 4th quarter of 2009.

## 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 (ΔCDF) | 3.40E-08 | -2.40E-09 | -4.10E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 |
| URI (ΔCDF) | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.73E-08** | **-9.10E-09** | **-1.08E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** |

Licensee Comments:

4Q/09: Planned Unavailability Baseline data changed per NEI 99-02, effective 4th quarter of 2009.

## 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 (ΔCDF) | 2.70E-08 | 5.90E-08 | 5.50E-08 | 6.50E-08 | 6.50E-08 | 6.40E-08 | 6.80E-08 | 6.80E-08 |
| URI (ΔCDF) | 5.00E-08 | 5.00E-08 | 4.10E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **7.70E-08** | **1.09E-07** | **9.60E-08** | **9.10E-08** | **9.10E-08** | **9.00E-08** | **9.40E-08** | **9.40E-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 | 0.000156 | 0.000167 | 0.000168 | 0.000299 | 0.000067 | 0.000083 | 0.000099 | 0.000113 | 0.000115 | 0.000116 | 0.000128 | 0.000125 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **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 | 0.000135 | 0.000033 | 0.000149 | 0.000147 | 0.000162 | 0.000152 | 0.000178 | 0.000167 | 0.000170 | 0.000182 | 0.000058 | 0.000087 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **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 | 0.080 | 0.120 | 0.080 | 0.080 | 0.070 | 0.070 | 0.070 | 0.060 | 0.060 | 0.070 | 0.070 | 0.060 |
| 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** | **1.2** | **0.8** | **0.8** | **0.7** | **0.7** | **0.7** | **0.6** | **0.6** | **0.7** | **0.7** | **0.6** |
| **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 | 0.060 | 0.050 | 0.070 | 0.070 | 0.080 | 0.070 | 0.070 | 0.070 | 0.070 | 0.060 | N/A | 0.070 |
| 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** | **0.6** | **0.5** | **0.7** | **0.7** | **0.8** | **0.7** | **0.7** | **0.7** | **0.7** | **0.6** | **N/A** | **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 | 15.0 | 30.0 | 24.0 | 44.0 | 40.0 | 28.0 | 22.0 | 2.0 |
| Total opportunities | 17.0 | 34.0 | 27.0 | 45.0 | 40.0 | 29.0 | 22.0 | 2.0 |
| | | | | | | | | |
| **Indicator value** | **94.5%** | **92.5%** | **92.7%** | **93.7%** | **94.8%** | **94.8%** | **94.9%** | **94.9%** |

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 | 131.0 | 131.0 | 129.0 | 125.0 | 129.0 | 123.0 | 122.0 | 123.0 |
| Total Key personnel | 131.0 | 131.0 | 129.0 | 125.0 | 129.0 | 123.0 | 122.0 | 123.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

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 | 119 | 119 | 237 | 118 | 118 | 119 | 237 | 117 |
| Total sirens-tests | 119 | 119 | 238 | 119 | 119 | 119 | 238 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.5%** | **99.8%** | **99.7%** | **99.5%** | **99.5%** | **99.5%** | **99.3%** |

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

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Security information not publicly available.

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*Last Modified: January 22, 2010*

# Beaver Valley 2

## 1Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1282.7 | 2208.0 | 2129.8 | 2159.0 | 2184.0 | 2208.0 | 1122.3 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1282.7 | 2208.0 | 2129.8 | 2159.0 | 2184.0 | 2208.0 | 1122.3 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.9** | **0.9** | **0.8** | **0.8** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

Thresholds: White > 1.0

## Notes

| Unplanned Scrams with Complications | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| 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) | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **1** |

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 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 7.40E-10 | -1.40E-09 | 2.50E-08 | 2.50E-08 | 2.50E-08 | 2.50E-08 | -5.00E-09 | -5.04E-09 |
| URI (ΔCDF) | -1.60E-07 | 9.70E-08 | 6.00E-07 | 6.00E-07 | 6.10E-07 | 6.10E-07 | 6.10E-07 | 6.06E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.59E-07** | **9.56E-08** | **6.25E-07** | **6.25E-07** | **6.35E-07** | **6.35E-07** | **6.05E-07** | **6.00E-07** |

Licensee Comments:

1Q/10: Risk Cap Invoked.

## 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** | **2Q/08** | **3Q/08** | **4Q/08** | **1Q/09** | **2Q/09** | **3Q/09** | **4Q/09** | **1Q/10** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -6.20E-09 | -7.20E-09 | -6.30E-09 | -7.80E-09 | -7.80E-09 | -8.00E-09 | -7.90E-09 | -7.95E-09 |
| URI (ΔCDF) | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.11E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.72E-08** | **-2.82E-08** | **-2.73E-08** | **-2.88E-08** | **-2.88E-08** | **-2.90E-08** | **-2.89E-08** | **-2.90E-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 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.90E-08 | 6.90E-08 | 7.70E-08 | 6.90E-08 | 5.10E-09 | -3.90E-08 | -5.30E-08 | -4.79E-08 |
| URI (ΔCDF) | 2.30E-07 | 2.30E-07 | 2.30E-07 | 2.30E-07 | -4.90E-08 | -4.90E-08 | -4.90E-08 | -4.89E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.59E-07** | **2.99E-07** | **3.07E-07** | **2.99E-07** | **-4.39E-08** | **-8.80E-08** | **-1.02E-07** | **-9.70E-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 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.40E-09 | -4.10E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.87E-09 |
| URI (ΔCDF) | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.71E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-9.10E-09** | **-1.08E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.30E-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 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 5.90E-08 | 5.50E-08 | 6.50E-08 | 6.50E-08 | 6.40E-08 | 6.80E-08 | 6.80E-08 | 6.80E-08 |
| URI (ΔCDF) | 5.00E-08 | 4.10E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **1.09E-07** | **9.60E-08** | **9.10E-08** | **9.10E-08** | **9.00E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/08** | **5/08** | **6/08** | **7/08** | **8/08** | **9/08** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000299 | 0.000067 | 0.000083 | 0.000099 | 0.000113 | 0.000115 | 0.000116 | 0.000128 | 0.000125 | 0.000135 | 0.000033 | 0.000149 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **4/09** | **5/09** | **6/09** | **7/09** | **8/09** | **9/09** | **10/09** | **11/09** | **12/09** | **1/10** | **2/10** | **3/10** |
| Maximum activity | 0.000147 | 0.000162 | 0.000152 | 0.000178 | 0.000167 | 0.000170 | 0.000182 | 0.000058 | 0.000087 | 0.000098 | 0.000117 | 0.000118 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

# Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **4/08** | **5/08** | **6/08** | **7/08** | **8/08** | **9/08** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.080 | 0.070 | 0.070 | 0.070 | 0.060 | 0.060 | 0.070 | 0.070 | 0.060 | 0.060 | 0.050 | 0.070 |
| 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** | **0.7** | **0.7** | **0.7** | **0.6** | **0.6** | **0.7** | **0.7** | **0.6** | **0.6** | **0.5** | **0.7** |
| **Reactor Coolant System Leakage** | **4/09** | **5/09** | **6/09** | **7/09** | **8/09** | **9/09** | **10/09** | **11/09** | **12/09** | **1/10** | **2/10** | **3/10** |
| Maximum leakage | 0.070 | 0.080 | 0.070 | 0.070 | 0.070 | 0.070 | 0.060 | N/A | 0.070 | 0.070 | 0.050 | 0.060 |
| 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** | **0.7** | **0.8** | **0.7** | **0.7** | **0.7** | **0.7** | **0.6** | **N/A** | **0.7** | **0.7** | **0.5** | **0.6** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 30.0 | 24.0 | 44.0 | 40.0 | 28.0 | 22.0 | 2.0 | 26.0 |
| Total opportunities | 34.0 | 27.0 | 45.0 | 40.0 | 29.0 | 22.0 | 2.0 | 30.0 |
| | | | | | | | | |
| **Indicator value** | **92.5%** | **92.7%** | **93.7%** | **94.8%** | **94.8%** | **94.9%** | **94.9%** | **94.3%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 131.0 | 129.0 | 125.0 | 129.0 | 123.0 | 122.0 | 123.0 | 122.0 |
| Total Key personnel | 131.0 | 129.0 | 125.0 | 129.0 | 123.0 | 122.0 | 123.0 | 122.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 237 | 118 | 118 | 119 | 237 | 117 | 119 |
| Total sirens-tests | 119 | 238 | 119 | 119 | 119 | 238 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.8%** | **99.7%** | **99.5%** | **99.5%** | **99.5%** | **99.3%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| 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 | 2Q/08 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Security information not publicly available.

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*Last Modified: April 26, 2010*

# Beaver Valley 2

## 2Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2129.8 | 2159.0 | 2184.0 | 2208.0 | 1122.3 | 2159.0 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2129.8 | 2159.0 | 2184.0 | 2208.0 | 1122.3 | 2159.0 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0.9** | **0.9** | **0.8** | **0.8** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| 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/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **1** | **1** | **1** |

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/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.40E-09 | 2.50E-08 | 2.50E-08 | 2.50E-08 | 2.50E-08 | -5.00E-09 | -5.04E-09 | 1.31E-08 |
| URI (ΔCDF) | 9.70E-08 | 6.00E-07 | 6.00E-07 | 6.10E-07 | 6.10E-07 | 6.10E-07 | 6.06E-07 | 6.06E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.56E-08** | **6.25E-07** | **6.25E-07** | **6.35E-07** | **6.35E-07** | **6.05E-07** | **6.00E-07** | **6.20E-07** |

Licensee Comments:

2Q/10: Risk Cap Invoked.

## 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/08** | **4Q/08** | **1Q/09** | **2Q/09** | **3Q/09** | **4Q/09** | **1Q/10** | **2Q/10** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.20E-09 | -6.30E-09 | -7.80E-09 | -7.80E-09 | -8.00E-09 | -7.90E-09 | -7.95E-09 | -7.95E-09 |
| URI (ΔCDF) | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.11E-08 | -2.11E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.82E-08** | **-2.73E-08** | **-2.88E-08** | **-2.88E-08** | **-2.90E-08** | **-2.89E-08** | **-2.90E-08** | **-2.90E-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 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.90E-08 | 7.70E-08 | 6.90E-08 | 5.10E-09 | -3.90E-08 | -5.30E-08 | -4.79E-08 | -5.07E-08 |
| URI (ΔCDF) | 2.30E-07 | 2.30E-07 | 2.30E-07 | -4.90E-08 | -4.90E-08 | -4.90E-08 | -4.89E-08 | -4.89E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.99E-07** | **3.07E-07** | **2.99E-07** | **-4.39E-08** | **-8.80E-08** | **-1.02E-07** | **-9.70E-08** | **-1.00E-07** |

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** | **3Q/08** | **4Q/08** | **1Q/09** | **2Q/09** | **3Q/09** | **4Q/09** | **1Q/10** | **2Q/10** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -4.10E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.87E-09 | -5.87E-09 |
| URI (ΔCDF) | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.71E-09 | -6.71E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.08E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.30E-08** | **-1.30E-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 | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 5.50E-08 | 6.50E-08 | 6.50E-08 | 6.40E-08 | 6.80E-08 | 6.80E-08 | 6.80E-08 | 6.80E-08 |
| URI (ΔCDF) | 4.10E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.60E-08** | **9.10E-08** | **9.10E-08** | **9.00E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/08** | **8/08** | **9/08** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** | **4/09** | **5/09** | **6/09** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000099 | 0.000113 | 0.000115 | 0.000116 | 0.000128 | 0.000125 | 0.000135 | 0.000033 | 0.000149 | 0.000147 | 0.000162 | 0.000152 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **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 | 0.000178 | 0.000167 | 0.000170 | 0.000182 | 0.000058 | 0.000087 | 0.000098 | 0.000117 | 0.000118 | 0.000115 | 0.000127 | 0.000123 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0** | **0.1** | **0** | **0** | **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** | **7/08** | **8/08** | **9/08** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** | **4/09** | **5/09** | **6/09** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.070 | 0.060 | 0.060 | 0.070 | 0.070 | 0.060 | 0.060 | 0.050 | 0.070 | 0.070 | 0.080 | 0.070 |
| 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** | **0.7** | **0.6** | **0.6** | **0.7** | **0.7** | **0.6** | **0.6** | **0.5** | **0.7** | **0.7** | **0.8** | **0.7** |
| **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 | 0.070 | 0.070 | 0.070 | 0.060 | N/A | 0.070 | 0.070 | 0.050 | 0.060 | 0.050 | 0.070 | 0.060 |
| 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** | **0.7** | **0.7** | **0.7** | **0.6** | **N/A** | **0.7** | **0.7** | **0.5** | **0.6** | **0.5** | **0.7** | **0.6** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 24.0 | 44.0 | 40.0 | 28.0 | 22.0 | 2.0 | 26.0 | 45.0 |
| Total opportunities | 27.0 | 45.0 | 40.0 | 29.0 | 22.0 | 2.0 | 30.0 | 45.0 |
| | | | | | | | | |
| **Indicator value** | **92.7%** | **93.7%** | **94.8%** | **94.8%** | **94.9%** | **94.9%** | **94.3%** | **96.3%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 129.0 | 125.0 | 129.0 | 123.0 | 122.0 | 123.0 | 122.0 | 119.0 |
| Total Key personnel | 129.0 | 125.0 | 129.0 | 123.0 | 122.0 | 123.0 | 122.0 | 119.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 237 | 118 | 118 | 119 | 237 | 117 | 119 | 115 |
| Total sirens-tests | 238 | 119 | 119 | 119 | 238 | 119 | 119 | 115 |
| | | | | | | | | |
| **Indicator value** | **99.8%** | **99.7%** | **99.5%** | **99.5%** | **99.5%** | **99.3%** | **99.5%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| 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/08 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Security information not publicly available.

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*Last Modified: July 26, 2010*

# Beaver Valley 2

## 3Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2129.8 | 2159.0 | 2184.0 | 2208.0 | 1122.3 | 2159.0 | 2184.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2129.8 | 2159.0 | 2184.0 | 2208.0 | 1122.3 | 2159.0 | 2184.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0.8** | **0.8** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| 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) | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **1** | **1** | **1** | **1** |

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 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.50E-08 | 2.50E-08 | 2.50E-08 | 2.50E-08 | -5.00E-09 | -5.04E-09 | 1.31E-08 | -5.04E-09 |
| URI (ΔCDF) | 6.00E-07 | 6.00E-07 | 6.10E-07 | 6.10E-07 | 6.10E-07 | 6.06E-07 | 6.06E-07 | 6.06E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.25E-07** | **6.25E-07** | **6.35E-07** | **6.35E-07** | **6.05E-07** | **6.00E-07** | **6.20E-07** | **6.00E-07** |

Licensee Comments:

3Q/10: Risk Cap Invoked.

## 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** | **4Q/08** | **1Q/09** | **2Q/09** | **3Q/09** | **4Q/09** | **1Q/10** | **2Q/10** | **3Q/10** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -6.30E-09 | -7.80E-09 | -7.80E-09 | -8.00E-09 | -7.90E-09 | -7.95E-09 | -7.95E-09 | -7.95E-09 |
| URI (ΔCDF) | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.11E-08 | -2.11E-08 | -2.11E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.73E-08** | **-2.88E-08** | **-2.88E-08** | **-2.90E-08** | **-2.89E-08** | **-2.90E-08** | **-2.90E-08** | **-2.90E-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 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 7.70E-08 | 6.90E-08 | 5.10E-09 | -3.90E-08 | -5.30E-08 | -4.79E-08 | -5.07E-08 | -3.16E-08 |
| URI (ΔCDF) | 2.30E-07 | 2.30E-07 | -4.90E-08 | -4.90E-08 | -4.90E-08 | -4.89E-08 | -4.89E-08 | -4.89E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.07E-07** | **2.99E-07** | **-4.39E-08** | **-8.80E-08** | **-1.02E-07** | **-9.70E-08** | **-1.00E-07** | **-8.10E-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** | **4Q/08** | **1Q/09** | **2Q/09** | **3Q/09** | **4Q/09** | **1Q/10** | **2Q/10** | **3Q/10** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.87E-09 | -5.87E-09 | -5.87E-09 |
| URI (ΔCDF) | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.71E-09 | -6.71E-09 | -6.71E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.30E-08** | **-1.30E-08** | **-1.30E-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 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.50E-08 | 6.50E-08 | 6.40E-08 | 6.80E-08 | 6.80E-08 | 6.80E-08 | 6.80E-08 | 6.81E-08 |
| URI (ΔCDF) | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.10E-08** | **9.10E-08** | **9.00E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** | **4/09** | **5/09** | **6/09** | **7/09** | **8/09** | **9/09** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000116 | 0.000128 | 0.000125 | 0.000135 | 0.000138 | 0.000149 | 0.000147 | 0.000162 | 0.000152 | 0.000178 | 0.000167 | 0.000170 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** |
| **Reactor Coolant System Activity** | **10/09** | **11/09** | **12/09** | **1/10** | **2/10** | **3/10** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** |
| Maximum activity | 0.000182 | 0.000058 | 0.000087 | 0.000098 | 0.000117 | 0.000118 | 0.000115 | 0.000127 | 0.000123 | 0.000126 | 0.000129 | 0.000140 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments:

3/09: Max I-131 data for February was inaccuately reported as documented in CR 10-82964

# Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **10/08** | **11/08** | **12/08** | **1/09** | **2/09** | **3/09** | **4/09** | **5/09** | **6/09** | **7/09** | **8/09** | **9/09** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.070 | 0.070 | 0.060 | 0.060 | 0.050 | 0.070 | 0.070 | 0.080 | 0.070 | 0.070 | 0.070 | 0.070 |
| 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** | **0.7** | **0.7** | **0.6** | **0.6** | **0.5** | **0.7** | **0.7** | **0.8** | **0.7** | **0.7** | **0.7** | **0.7** |
| **Reactor Coolant System Leakage** | **10/09** | **11/09** | **12/09** | **1/10** | **2/10** | **3/10** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** |
| Maximum leakage | 0.060 | N/A | 0.070 | 0.070 | 0.050 | 0.060 | 0.050 | 0.070 | 0.060 | 0.060 | 0.070 | 0.060 |
| 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** | **0.6** | **N/A** | **0.7** | **0.7** | **0.5** | **0.6** | **0.5** | **0.7** | **0.6** | **0.6** | **0.7** | **0.6** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 44.0 | 40.0 | 28.0 | 22.0 | 2.0 | 26.0 | 45.0 | 32.0 |
| Total opportunities | 45.0 | 40.0 | 29.0 | 22.0 | 2.0 | 30.0 | 45.0 | 32.0 |
| | | | | | | | | |
| **Indicator value** | **93.7%** | **94.8%** | **94.8%** | **94.9%** | **94.9%** | **94.3%** | **96.3%** | **97.6%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 125.0 | 129.0 | 123.0 | 122.0 | 123.0 | 122.0 | 119.0 | 127.0 |
| Total Key personnel | 125.0 | 129.0 | 123.0 | 122.0 | 123.0 | 122.0 | 119.0 | 127.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 118 | 118 | 119 | 237 | 117 | 119 | 115 | 235 |
| Total sirens-tests | 119 | 119 | 119 | 238 | 119 | 119 | 115 | 238 |
| | | | | | | | | |
| **Indicator value** | **99.7%** | **99.5%** | **99.5%** | **99.5%** | **99.3%** | **99.5%** | **99.5%** | **99.2%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| 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 | 4Q/08 | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Security information not publicly available.

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*Last Modified: October 25, 2010*

# Beaver Valley 2

## 4Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2159.0 | 2184.0 | 2208.0 | 1122.3 | 2159.0 | 2184.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2159.0 | 2184.0 | 2208.0 | 1122.3 | 2159.0 | 2184.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.8** | **0.8** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| 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/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **1** | **1** | **1** | **1** | **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/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.50E-08 | 2.50E-08 | 2.50E-08 | -5.00E-09 | -5.04E-09 | 1.31E-08 | -5.04E-09 | -8.75E-08 |
| URI (ΔCDF) | 6.00E-07 | 6.10E-07 | 6.10E-07 | 6.10E-07 | 6.06E-07 | 6.06E-07 | 6.06E-07 | 2.51E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.25E-07** | **6.35E-07** | **6.35E-07** | **6.05E-07** | **6.00E-07** | **6.20E-07** | **6.00E-07** | **1.60E-07** |

Licensee Comments:

4Q/10: Risk Cap Invoked.

## 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/09** | **2Q/09** | **3Q/09** | **4Q/09** | **1Q/10** | **2Q/10** | **3Q/10** | **4Q/10** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.80E-09 | -7.80E-09 | -8.00E-09 | -7.90E-09 | -7.95E-09 | -7.95E-09 | -7.95E-09 | -7.95E-09 |
| URI (ΔCDF) | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.11E-08 | -2.11E-08 | -2.11E-08 | -2.11E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.88E-08** | **-2.88E-08** | **-2.90E-08** | **-2.89E-08** | **-2.90E-08** | **-2.90E-08** | **-2.90E-08** | **-2.90E-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/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.90E-08 | 5.10E-09 | -3.90E-08 | -5.30E-08 | -4.79E-08 | -5.07E-08 | -3.16E-08 | -5.46E-08 |
| URI (ΔCDF) | 2.30E-07 | -4.90E-08 | -4.90E-08 | -4.90E-08 | -4.89E-08 | -4.89E-08 | -4.89E-08 | -4.89E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.99E-07** | **-4.39E-08** | **-8.80E-08** | **-1.02E-07** | **-9.70E-08** | **-1.00E-07** | **-8.10E-08** | **-1.00E-07** |

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/09** | **2Q/09** | **3Q/09** | **4Q/09** | **1Q/10** | **2Q/10** | **3Q/10** | **4Q/10** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.87E-09 | -5.87E-09 | -5.87E-09 | -5.87E-09 |
| URI (ΔCDF) | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.71E-09 | -6.71E-09 | -6.71E-09 | -6.71E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.30E-08** | **-1.30E-08** | **-1.30E-08** | **-1.30E-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/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.50E-08 | 6.40E-08 | 6.80E-08 | 6.80E-08 | 6.80E-08 | 6.80E-08 | 6.81E-08 | 6.81E-08 |
| URI (ΔCDF) | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.10E-08** | **9.00E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **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 | 0.000135 | 0.000138 | 0.000149 | 0.000147 | 0.000162 | 0.000152 | 0.000178 | 0.000167 | 0.000170 | 0.000182 | 0.000058 | 0.000087 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0.1** | **0** | **0** |
| **Reactor Coolant System Activity** | **1/10** | **2/10** | **3/10** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** | **10/10** | **11/10** | **12/10** |
| Maximum activity | 0.000098 | 0.000117 | 0.000118 | 0.000115 | 0.000127 | 0.000123 | 0.000126 | 0.000129 | 0.000140 | 0.000144 | 0.000147 | 0.000149 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **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** | **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 | 0.060 | 0.050 | 0.070 | 0.070 | 0.080 | 0.070 | 0.070 | 0.070 | 0.070 | 0.060 | N/A | 0.070 |
| 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** | **0.6** | **0.5** | **0.7** | **0.7** | **0.8** | **0.7** | **0.7** | **0.7** | **0.7** | **0.6** | **N/A** | **0.7** |
| **Reactor Coolant System Leakage** | **1/10** | **2/10** | **3/10** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** | **10/10** | **11/10** | **12/10** |
| Maximum leakage | 0.070 | 0.050 | 0.060 | 0.050 | 0.070 | 0.060 | 0.060 | 0.070 | 0.060 | 0.070 | 0.050 | 0.050 |
| 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** | **0.7** | **0.5** | **0.6** | **0.5** | **0.7** | **0.6** | **0.6** | **0.7** | **0.6** | **0.7** | **0.5** | **0.5** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 40.0 | 28.0 | 22.0 | 2.0 | 26.0 | 45.0 | 32.0 | 5.0 |
| Total opportunities | 40.0 | 29.0 | 22.0 | 2.0 | 30.0 | 45.0 | 32.0 | 5.0 |
| | | | | | | | | |
| **Indicator value** | **94.8%** | **94.8%** | **94.9%** | **94.9%** | **94.3%** | **96.3%** | **97.6%** | **97.6%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 129.0 | 123.0 | 122.0 | 123.0 | 122.0 | 119.0 | 127.0 | 116.0 |
| Total Key personnel | 129.0 | 123.0 | 122.0 | 123.0 | 122.0 | 119.0 | 127.0 | 116.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 118 | 119 | 237 | 117 | 119 | 115 | 235 | 119 |
| Total sirens-tests | 119 | 119 | 238 | 119 | 119 | 115 | 238 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.5%** | **99.5%** | **99.3%** | **99.5%** | **99.5%** | **99.2%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

### Notes

| Occupational Exposure Control Effectiveness | 1Q/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| 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/09 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Security information not publicly available.

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*Last Modified: January 24, 2011*

# Beaver Valley 2

## 1Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2208.0 | 1122.3 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 1560.3 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2208.0 | 1122.3 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 1560.3 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **0.8** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/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) | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **1** | **1** | **1** | **1** | **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 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.50E-08 | 2.50E-08 | -5.00E-09 | -5.04E-09 | 1.31E-08 | -5.04E-09 | -8.75E-08 | -2.81E-08 |
| URI (ΔCDF) | 6.10E-07 | 6.10E-07 | 6.10E-07 | 6.06E-07 | 6.06E-07 | 6.06E-07 | 2.51E-07 | 4.27E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.35E-07** | **6.35E-07** | **6.05E-07** | **6.00E-07** | **6.20E-07** | **6.00E-07** | **1.60E-07** | **4.00E-07** |

Licensee Comments:

1Q/11: Risk Cap Invoked. Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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** | **2Q/09** | **3Q/09** | **4Q/09** | **1Q/10** | **2Q/10** | **3Q/10** | **4Q/10** | **1Q/11** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.80E-09 | -8.00E-09 | -7.90E-09 | -7.95E-09 | -7.95E-09 | -7.95E-09 | -7.95E-09 | -7.11E-09 |
| URI (ΔCDF) | -2.10E-08 | -2.10E-08 | -2.10E-08 | -2.11E-08 | -2.11E-08 | -2.11E-08 | -2.11E-08 | -1.15E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.88E-08** | **-2.90E-08** | **-2.89E-08** | **-2.90E-08** | **-2.90E-08** | **-2.90E-08** | **-2.90E-08** | **-1.90E-08** |

Licensee Comments:

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 5.10E-09 | -3.90E-08 | -5.30E-08 | -4.79E-08 | -5.07E-08 | -3.16E-08 | -5.46E-08 | -7.93E-09 |
| URI (ΔCDF) | -4.90E-08 | -4.90E-08 | -4.90E-08 | -4.89E-08 | -4.89E-08 | -4.89E-08 | -4.89E-08 | -2.51E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-4.39E-08** | **-8.80E-08** | **-1.02E-07** | **-9.70E-08** | **-1.00E-07** | **-8.10E-08** | **-1.00E-07** | **-3.30E-08** |

Licensee Comments:

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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** | **2Q/09** | **3Q/09** | **4Q/09** | **1Q/10** | **2Q/10** | **3Q/10** | **4Q/10** | **1Q/11** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.90E-09 | -5.90E-09 | -5.90E-09 | -5.87E-09 | -5.87E-09 | -5.87E-09 | -5.87E-09 | -2.73E-09 |
| URI (ΔCDF) | -6.70E-09 | -6.70E-09 | -6.70E-09 | -6.71E-09 | -6.71E-09 | -6.71E-09 | -6.71E-09 | -3.17E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.26E-08** | **-1.26E-08** | **-1.26E-08** | **-1.30E-08** | **-1.30E-08** | **-1.30E-08** | **-1.30E-08** | **-5.90E-09** |

Licensee Comments:

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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 | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.40E-08 | 6.80E-08 | 6.80E-08 | 6.80E-08 | 6.80E-08 | 6.81E-08 | 6.81E-08 | 2.94E-08 |
| URI (ΔCDF) | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 3.23E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.00E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **6.20E-08** |

Licensee Comments:

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/09** | **5/09** | **6/09** | **7/09** | **8/09** | **9/09** | **10/09** | **11/09** | **12/09** | **1/10** | **2/10** | **3/10** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000147 | 0.000162 | 0.000152 | 0.000178 | 0.000167 | 0.000170 | 0.000182 | 0.000058 | 0.000087 | 0.000098 | 0.000117 | 0.000118 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** | **10/10** | **11/10** | **12/10** | **1/11** | **2/11** | **3/11** |
| Maximum activity | 0.000115 | 0.000127 | 0.000123 | 0.000126 | 0.000129 | 0.000140 | 0.000144 | 0.000147 | 0.000149 | 0.000156 | 0.000160 | 0.000160 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **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** | **4/09** | **5/09** | **6/09** | **7/09** | **8/09** | **9/09** | **10/09** | **11/09** | **12/09** | **1/10** | **2/10** | **3/10** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.070 | 0.080 | 0.070 | 0.070 | 0.070 | 0.070 | 0.060 | N/A | 0.070 | 0.070 | 0.050 | 0.060 |
| 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** | **0.7** | **0.8** | **0.7** | **0.7** | **0.7** | **0.7** | **0.6** | **N/A** | **0.7** | **0.7** | **0.5** | **0.6** |
| **Reactor Coolant System Leakage** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** | **10/10** | **11/10** | **12/10** | **1/11** | **2/11** | **3/11** |
| Maximum leakage | 0.050 | 0.070 | 0.060 | 0.060 | 0.070 | 0.060 | 0.070 | 0.050 | 0.050 | 0.070 | 0.070 | 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** | **0.5** | **0.7** | **0.6** | **0.6** | **0.7** | **0.6** | **0.7** | **0.5** | **0.5** | **0.7** | **0.7** | **0.4** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 28.0 | 22.0 | 2.0 | 26.0 | 45.0 | 32.0 | 5.0 | 5.0 |
| Total opportunities | 29.0 | 22.0 | 2.0 | 30.0 | 45.0 | 32.0 | 5.0 | 5.0 |
| | | | | | | | | |
| **Indicator value** | **94.8%** | **94.9%** | **94.9%** | **94.3%** | **96.3%** | **97.6%** | **97.6%** | **97.1%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 123.0 | 122.0 | 123.0 | 122.0 | 119.0 | 127.0 | 116.0 | 167.0 |
| Total Key personnel | 123.0 | 122.0 | 123.0 | 122.0 | 119.0 | 127.0 | 116.0 | 167.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/09 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 237 | 117 | 119 | 115 | 235 | 119 | 119 |
| Total sirens-tests | 119 | 238 | 119 | 119 | 115 | 238 | 119 | 119 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.5%** | **99.3%** | **99.5%** | **99.5%** | **99.2%** | **99.5%** | **99.5%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

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

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Security information not publicly available.

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*Last Modified: May 4, 2011*

# Beaver Valley 2

## 2Q/2011 Performance Indicators

Licensee's General Comments: none

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 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 2208.0 | 1122.3 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 1560.3 | 1976.8 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.9** |

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 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 1122.3 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 1560.3 | 1976.8 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

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 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| | | | | | | | | |
| **Indicator value** | **0** | **1** | **1** | **1** | **1** | **0** | **0** | **2** |

Licensee Comments:

2Q/11: LERs 2011-001-00 (Both EDG s Inoperable- mode 6); LER 2011-002-00 (AFW Vent Line Crack)

## 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 (ΔCDF) | 2.50E-08 | -5.00E-09 | -5.04E-09 | 1.31E-08 | -5.04E-09 | -8.75E-08 | -2.81E-08 | -2.76E-08 |
| URI (ΔCDF) | 6.10E-07 | 6.10E-07 | 6.06E-07 | 6.06E-07 | 6.06E-07 | 2.51E-07 | 4.27E-07 | 4.27E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.35E-07** | **6.05E-07** | **6.00E-07** | **6.20E-07** | **6.00E-07** | **1.60E-07** | **4.00E-07** | **4.00E-07** |

Licensee Comments:

2Q/11: Risk Cap Invoked.

## 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 (ΔCDF) | -8.00E-09 | -7.90E-09 | -7.95E-09 | -7.95E-09 | -7.95E-09 | -7.95E-09 | -7.11E-09 | -7.11E-09 |
| URI (ΔCDF) | -2.10E-08 | -2.10E-08 | -2.11E-08 | -2.11E-08 | -2.11E-08 | -2.11E-08 | -1.15E-08 | -1.15E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.90E-08** | **-2.89E-08** | **-2.90E-08** | **-2.90E-08** | **-2.90E-08** | **-2.90E-08** | **-1.90E-08** | **-1.90E-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 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.90E-08 | -5.30E-08 | -4.79E-08 | -5.07E-08 | -3.16E-08 | -5.46E-08 | -7.93E-09 | -7.02E-09 |
| URI (ΔCDF) | -4.90E-08 | -4.90E-08 | -4.89E-08 | -4.89E-08 | -4.89E-08 | -4.89E-08 | -2.51E-08 | -2.64E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-8.80E-08** | **-1.02E-07** | **-9.70E-08** | **-1.00E-07** | **-8.10E-08** | **-1.00E-07** | **-3.30E-08** | **-3.30E-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** | **3Q/09** | **4Q/09** | **1Q/10** | **2Q/10** | **3Q/10** | **4Q/10** | **1Q/11** | **2Q/11** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.90E-09 | -5.90E-09 | -5.87E-09 | -5.87E-09 | -5.87E-09 | -5.87E-09 | -2.73E-09 | -2.73E-09 |
| URI (ΔCDF) | -6.70E-09 | -6.70E-09 | -6.71E-09 | -6.71E-09 | -6.71E-09 | -6.71E-09 | -3.17E-09 | -3.17E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.26E-08** | **-1.26E-08** | **-1.30E-08** | **-1.30E-08** | **-1.30E-08** | **-1.30E-08** | **-5.90E-09** | **-5.90E-09** |

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 | 3Q/09 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.80E-08 | 6.80E-08 | 6.80E-08 | 6.80E-08 | 6.81E-08 | 6.81E-08 | 2.94E-08 | 1.21E-08 |
| URI (ΔCDF) | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 3.23E-08 | 5.88E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **6.20E-08** | **7.10E-08** |

Licensee Comments: none

## 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 | 0.000178 | 0.000167 | 0.000170 | 0.000182 | 0.000058 | 0.000087 | 0.000098 | 0.000117 | 0.000118 | 0.000115 | 0.000127 | 0.000123 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **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 | 0.000126 | 0.000129 | 0.000140 | 0.000144 | 0.000147 | 0.000149 | 0.000156 | 0.000160 | 0.000160 | 0.000085 | 0.000100 | 0.000133 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **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 | 0.070 | 0.070 | 0.070 | 0.060 | N/A | 0.070 | 0.070 | 0.050 | 0.060 | 0.050 | 0.070 | 0.060 |
| 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** | **0.7** | **0.7** | **0.7** | **0.6** | **N/A** | **0.7** | **0.7** | **0.5** | **0.6** | **0.5** | **0.7** | **0.6** |
| **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 | 0.060 | 0.070 | 0.060 | 0.070 | 0.050 | 0.050 | 0.070 | 0.070 | 0.040 | 0.100 | 0.100 | 0.150 |
| 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** | **0.6** | **0.7** | **0.6** | **0.7** | **0.5** | **0.5** | **0.7** | **0.7** | **0.4** | **1.0** | **1.0** | **1.5** |

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 | 22.0 | 2.0 | 26.0 | 45.0 | 26.0 | 5.0 | 10.0 | 18.0 |
| Total opportunities | 22.0 | 2.0 | 30.0 | 45.0 | 26.0 | 5.0 | 11.0 | 19.0 |
| | | | | | | | | |
| **Indicator value** | **94.9%** | **94.9%** | **94.3%** | **96.3%** | **97.5%** | **97.5%** | **96.5%** | **96.3%** |

Licensee Comments:

1Q/11: Previously reported values for 2011-01 were in error. (See Condition Reports 11-94235 and 11-94392)

3Q/10: Previously reported values for 2010-09 were in error. (See Condition Reports 11-94235 and 11-94392)

**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 | 122.0 | 123.0 | 122.0 | 119.0 | 121.0 | 116.0 | 167.0 | 167.0 |
| Total Key personnel | 122.0 | 123.0 | 122.0 | 119.0 | 121.0 | 116.0 | 167.0 | 167.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments:

3Q/10: Previously reported values for 2010-09 were in error. (See Condition Reports 11-94235 and 11-94392)

# 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 | 237 | 117 | 119 | 115 | 235 | 119 | 119 | 113 |
| Total sirens-tests | 238 | 119 | 119 | 115 | 238 | 119 | 119 | 115 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.3%** | **99.5%** | **99.5%** | **99.2%** | **99.5%** | **99.5%** | **99.2%** |

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

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Security information not publicly available.

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*Last Modified: July 22, 2011*

# Beaver Valley 2

## 3Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 1122.3 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 1560.3 | 1976.8 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0.9** | **0.9** |

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs

**Thresholds: White > 6.0**

## Notes

| **Unplanned Power Changes per 7000 Critical Hrs** | **4Q/09** | **1Q/10** | **2Q/10** | **3Q/10** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1122.3 | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 1560.3 | 1976.8 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/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) | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **1** | **1** | **1** | **0** | **0** | **2** | **2** |

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 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.00E-09 | -5.04E-09 | 1.31E-08 | -5.04E-09 | -8.75E-08 | -2.81E-08 | -2.76E-08 | -2.84E-08 |
| URI (ΔCDF) | 6.10E-07 | 6.06E-07 | 6.06E-07 | 6.06E-07 | 2.51E-07 | 4.27E-07 | 4.27E-07 | 3.32E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.05E-07** | **6.00E-07** | **6.20E-07** | **6.00E-07** | **1.60E-07** | **4.00E-07** | **4.00E-07** | **3.00E-07** |

Licensee Comments:

3Q/11: Risk Cap Invoked.

## 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** | **4Q/09** | **1Q/10** | **2Q/10** | **3Q/10** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.90E-09 | -7.95E-09 | -7.95E-09 | -7.95E-09 | -7.95E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 |
| URI (ΔCDF) | -2.10E-08 | -2.11E-08 | -2.11E-08 | -2.11E-08 | -2.11E-08 | -1.15E-08 | -1.15E-08 | -1.15E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.89E-08** | **-2.90E-08** | **-2.90E-08** | **-2.90E-08** | **-2.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.90E-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 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.30E-08 | -4.79E-08 | -5.07E-08 | -3.16E-08 | -5.46E-08 | -7.93E-09 | -7.02E-09 | -7.02E-09 |
| URI (ΔCDF) | -4.90E-08 | -4.89E-08 | -4.89E-08 | -4.89E-08 | -4.89E-08 | -2.51E-08 | -2.64E-08 | -2.64E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.02E-07** | **-9.70E-08** | **-1.00E-07** | **-8.10E-08** | **-1.00E-07** | **-3.30E-08** | **-3.30E-08** | **-3.30E-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 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.90E-09 | -5.87E-09 | -5.87E-09 | -5.87E-09 | -5.87E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 |
| URI (ΔCDF) | -6.70E-09 | -6.71E-09 | -6.71E-09 | -6.71E-09 | -6.71E-09 | -3.17E-09 | -3.17E-09 | -3.17E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.26E-08** | **-1.30E-08** | **-1.30E-08** | **-1.30E-08** | **-1.30E-08** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** |

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 | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.80E-08 | 6.80E-08 | 6.80E-08 | 6.81E-08 | 6.81E-08 | 2.94E-08 | 1.21E-08 | 1.18E-08 |
| URI (ΔCDF) | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 3.23E-08 | 5.88E-08 | 1.81E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **6.20E-08** | **7.10E-08** | **3.00E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/09** | **11/09** | **12/09** | **1/10** | **2/10** | **3/10** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000182 | 0.000058 | 0.000087 | 0.000098 | 0.000117 | 0.000118 | 0.000115 | 0.000127 | 0.000123 | 0.000126 | 0.000129 | 0.000140 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **10/10** | **11/10** | **12/10** | **1/11** | **2/11** | **3/11** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** |
| Maximum activity | 0.000144 | 0.000147 | 0.000149 | 0.000156 | 0.000160 | 0.000160 | 0.000085 | 0.000100 | 0.000133 | 0.000121 | 0.000123 | 0.000136 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **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** | **10/09** | **11/09** | **12/09** | **1/10** | **2/10** | **3/10** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.060 | N/A | 0.070 | 0.070 | 0.050 | 0.060 | 0.050 | 0.070 | 0.060 | 0.060 | 0.070 | 0.060 |
| 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** | **0.6** | **N/A** | **0.7** | **0.7** | **0.5** | **0.6** | **0.5** | **0.7** | **0.6** | **0.6** | **0.7** | **0.6** |
| **Reactor Coolant System Leakage** | **10/10** | **11/10** | **12/10** | **1/11** | **2/11** | **3/11** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** |
| Maximum leakage | 0.070 | 0.050 | 0.050 | 0.070 | 0.070 | 0.040 | 0.100 | 0.100 | 0.150 | 0.140 | 0.110 | 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** | **0.7** | **0.5** | **0.5** | **0.7** | **0.7** | **0.4** | **1.0** | **1.0** | **1.5** | **1.4** | **1.1** | **1.2** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 2.0 | 26.0 | 45.0 | 26.0 | 5.0 | 10.0 | 18.0 | 17.0 |
| Total opportunities | 2.0 | 30.0 | 45.0 | 26.0 | 5.0 | 11.0 | 19.0 | 20.0 |
| | | | | | | | | |
| **Indicator value** | **94.9%** | **94.3%** | **96.3%** | **97.5%** | **97.5%** | **96.5%** | **96.3%** | **94.3%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 123.0 | 122.0 | 119.0 | 121.0 | 116.0 | 167.0 | 167.0 | 170.0 |
| Total Key personnel | 123.0 | 122.0 | 119.0 | 121.0 | 116.0 | 167.0 | 167.0 | 170.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/09 | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 117 | 119 | 115 | 235 | 119 | 119 | 113 | 1523 |
| Total sirens-tests | 119 | 119 | 115 | 238 | 119 | 119 | 115 | 1527 |
| | | | | | | | | |
| **Indicator value** | **99.3%** | **99.5%** | **99.5%** | **99.2%** | **99.5%** | **99.5%** | **99.2%** | **99.7%** |

Licensee Comments:

3Q/11: This submittal includes a change in the reporting of the ANS Reliability. The revised Beaver Valley siren test plan that was approved by FEMA in a letter dated June 13, 2011, increased the amount of required siren tests that are reported under this performance indicator.

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

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

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Security information not publicly available.

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*Last Modified: November 29, 2011*

# Beaver Valley 2

## 4Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 1560.3 | 1976.8 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.9** | **0.9** | **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/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2159.0 | 2184.0 | 2208.0 | 2209.0 | 1560.3 | 1976.8 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/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) | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **1** | **1** | **0** | **0** | **2** | **2** | **2** |

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/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.04E-09 | 1.31E-08 | -5.04E-09 | -8.75E-08 | -2.81E-08 | -2.76E-08 | -2.84E-08 | -3.62E-08 |
| URI (ΔCDF) | 6.06E-07 | 6.06E-07 | 6.06E-07 | 2.51E-07 | 4.27E-07 | 4.27E-07 | 3.32E-07 | -1.68E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.00E-07** | **6.20E-07** | **6.00E-07** | **1.60E-07** | **4.00E-07** | **4.00E-07** | **3.00E-07** | **-2.00E-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/10** | **2Q/10** | **3Q/10** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.95E-09 | -7.95E-09 | -7.95E-09 | -7.95E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 |
| URI (ΔCDF) | -2.11E-08 | -2.11E-08 | -2.11E-08 | -2.11E-08 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.15E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.90E-08** | **-2.90E-08** | **-2.90E-08** | **-2.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.90E-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/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -4.79E-08 | -5.07E-08 | -3.16E-08 | -5.46E-08 | -7.93E-09 | -7.02E-09 | -7.02E-09 | -8.97E-09 |
| URI (ΔCDF) | -4.89E-08 | -4.89E-08 | -4.89E-08 | -4.89E-08 | -2.51E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-9.70E-08** | **-1.00E-07** | **-8.10E-08** | **-1.00E-07** | **-3.30E-08** | **-3.30E-08** | **-3.30E-08** | **-3.50E-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/10** | **2Q/10** | **3Q/10** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.87E-09 | -5.87E-09 | -5.87E-09 | -5.87E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 |
| URI (ΔCDF) | -6.71E-09 | -6.71E-09 | -6.71E-09 | -6.71E-09 | -3.17E-09 | -3.17E-09 | -3.17E-09 | -3.17E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.30E-08** | **-1.30E-08** | **-1.30E-08** | **-1.30E-08** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** |

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/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.80E-08 | 6.80E-08 | 6.81E-08 | 6.81E-08 | 2.94E-08 | 1.21E-08 | 1.18E-08 | 4.45E-09 |
| URI (ΔCDF) | 2.60E-08 | 2.60E-08 | 2.60E-08 | 2.60E-08 | 3.23E-08 | 5.88E-08 | 1.81E-08 | 1.81E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **6.20E-08** | **7.10E-08** | **3.00E-08** | **2.30E-08** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/10** | **2/10** | **3/10** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** | **10/10** | **11/10** | **12/10** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000098 | 0.000117 | 0.000118 | 0.000115 | 0.000127 | 0.000123 | 0.000126 | 0.000129 | 0.000140 | 0.000144 | 0.000147 | 0.000149 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **1/11** | **2/11** | **3/11** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** |
| Maximum activity | 0.000156 | 0.000160 | 0.000160 | 0.000085 | 0.000100 | 0.000133 | 0.000121 | 0.000123 | 0.000136 | 0.000131 | 0.000352 | 0.000154 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** |

Licensee Comments: none

# Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **1/10** | **2/10** | **3/10** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** | **10/10** | **11/10** | **12/10** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.070 | 0.050 | 0.060 | 0.050 | 0.070 | 0.060 | 0.060 | 0.070 | 0.060 | 0.070 | 0.050 | 0.050 |
| 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** | **0.7** | **0.5** | **0.6** | **0.5** | **0.7** | **0.6** | **0.6** | **0.7** | **0.6** | **0.7** | **0.5** | **0.5** |
| **Reactor Coolant System Leakage** | **1/11** | **2/11** | **3/11** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** |
| Maximum leakage | 0.070 | 0.070 | 0.040 | 0.100 | 0.100 | 0.150 | 0.140 | 0.110 | 0.120 | 0.130 | 0.160 | 0.150 |
| 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** | **0.7** | **0.7** | **0.4** | **1.0** | **1.0** | **1.5** | **1.4** | **1.1** | **1.2** | **1.3** | **1.6** | **1.5** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 26.0 | 45.0 | 26.0 | 5.0 | 10.0 | 18.0 | 17.0 | 31.0 |
| Total opportunities | 30.0 | 45.0 | 26.0 | 5.0 | 11.0 | 19.0 | 20.0 | 32.0 |
| | | | | | | | | |
| **Indicator value** | **94.3%** | **96.3%** | **97.5%** | **97.5%** | **96.5%** | **96.3%** | **94.3%** | **94.7%** |

Licensee Comments: none

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 122.0 | 119.0 | 121.0 | 116.0 | 167.0 | 167.0 | 170.0 | 177.0 |
| Total Key personnel | 122.0 | 119.0 | 121.0 | 116.0 | 167.0 | 167.0 | 170.0 | 177.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/10 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 115 | 235 | 119 | 119 | 113 | 1523 | 1560 |
| Total sirens-tests | 119 | 115 | 238 | 119 | 119 | 115 | 1527 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.5%** | **99.2%** | **99.5%** | **99.5%** | **99.2%** | **99.7%** | **99.8%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

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

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Security information not publicly available.

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*Last Modified: February 2, 2012*

# Beaver Valley 2

## 1Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2208.0 | 2209.0 | 1560.3 | 1976.8 | 2208.0 | 2209.0 | 2183.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.8** |

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2208.0 | 2209.0 | 1560.3 | 1976.8 | 2208.0 | 2209.0 | 2183.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| 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) | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **1** | **0** | **0** | **2** | **2** | **2** | **2** |

Licensee Comments:

2Q/11: LERs 2011-001-00 (Both EDG s Inoperable- mode 6); LER 2011-002-00 (AFW Vent Line Crack)

## 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 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.31E-08 | -5.04E-09 | -8.75E-08 | -2.81E-08 | -2.76E-08 | -2.84E-08 | -3.62E-08 | -3.62E-08 |
| URI (ΔCDF) | 6.06E-07 | 6.06E-07 | 2.51E-07 | 4.27E-07 | 4.27E-07 | 3.32E-07 | -1.68E-07 | -1.65E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.20E-07** | **6.00E-07** | **1.60E-07** | **4.00E-07** | **4.00E-07** | **3.00E-07** | **-2.00E-07** | **-2.00E-07** |

Licensee Comments:

1Q/12: Revised unavailability monitoring of the fuel oil transfer pumps per FAQ 484 and EDG run hours per FAQ 480.

3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.

1Q/11: Risk Cap Invoked. Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

4Q/10: Risk Cap Invoked.

3Q/10: Risk Cap Invoked.

2Q/10: Risk Cap Invoked.

## 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** | **2Q/10** | **3Q/10** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.95E-09 | -7.95E-09 | -7.95E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 |
| URI (ΔCDF) | -2.11E-08 | -2.11E-08 | -2.11E-08 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.11E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.90E-08** | **-2.90E-08** | **-2.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.80E-08** |

Licensee Comments:

1Q/12: Frequency for testing of two HHSI suction isolation valves was changed from once per week to once per quarter. Changed estimated demands to match.

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.07E-08 | -3.16E-08 | -5.46E-08 | -7.93E-09 | -7.02E-09 | -7.02E-09 | -8.97E-09 | -1.15E-08 |
| URI (ΔCDF) | -4.89E-08 | -4.89E-08 | -4.89E-08 | -2.51E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.00E-07** | **-8.10E-08** | **-1.00E-07** | **-3.30E-08** | **-3.30E-08** | **-3.30E-08** | **-3.50E-08** | **-3.80E-08** |

Licensee Comments:

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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** | **2Q/10** | **3Q/10** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.87E-09 | -5.87E-09 | -5.87E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 |
| URI (ΔCDF) | -6.71E-09 | -6.71E-09 | -6.71E-09 | -3.17E-09 | -3.17E-09 | -3.17E-09 | -3.17E-09 | -3.13E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.30E-08** | **-1.30E-08** | **-1.30E-08** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** |

Licensee Comments:

1Q/12: The estimated start demands for the associated pumps utilized for residual heat removal was lowered due to a change in the surveillance testing procedure.

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.80E-08 | 6.81E-08 | 6.81E-08 | 2.94E-08 | 1.21E-08 | 1.18E-08 | 4.45E-09 | 4.40E-09 |
| URI (ΔCDF) | 2.60E-08 | 2.60E-08 | 2.60E-08 | 3.23E-08 | 5.88E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.40E-08** | **9.40E-08** | **9.40E-08** | **6.20E-08** | **7.10E-08** | **3.00E-08** | **2.30E-08** | **2.20E-08** |

Licensee Comments:

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** | **10/10** | **11/10** | **12/10** | **1/11** | **2/11** | **3/11** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000115 | 0.000127 | 0.000123 | 0.000126 | 0.000129 | 0.000140 | 0.000144 | 0.000147 | 0.000149 | 0.000156 | 0.000160 | 0.000160 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** |
| Maximum activity | 0.000085 | 0.000100 | 0.000133 | 0.000121 | 0.000123 | 0.000136 | 0.000131 | 0.000352 | 0.000154 | 0.000152 | 0.000158 | 0.000155 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** |

Licensee Comments: none

# Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **4/10** | **5/10** | **6/10** | **7/10** | **8/10** | **9/10** | **10/10** | **11/10** | **12/10** | **1/11** | **2/11** | **3/11** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.050 | 0.070 | 0.060 | 0.060 | 0.070 | 0.060 | 0.070 | 0.050 | 0.050 | 0.070 | 0.070 | 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** | **0.5** | **0.7** | **0.6** | **0.6** | **0.7** | **0.6** | **0.7** | **0.5** | **0.5** | **0.7** | **0.7** | **0.4** |
| **Reactor Coolant System Leakage** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** |
| Maximum leakage | 0.100 | 0.100 | 0.150 | 0.140 | 0.110 | 0.120 | 0.130 | 0.160 | 0.150 | 0.120 | 0.170 | 0.240 |
| 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** | **1.0** | **1.0** | **1.5** | **1.4** | **1.1** | **1.2** | **1.3** | **1.6** | **1.5** | **1.2** | **1.7** | **2.4** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 45.0 | 26.0 | 5.0 | 10.0 | 18.0 | 17.0 | 31.0 | 19.0 |
| Total opportunities | 45.0 | 26.0 | 5.0 | 11.0 | 19.0 | 20.0 | 32.0 | 19.0 |
| | | | | | | | | |
| **Indicator value** | **96.3%** | **97.5%** | **97.5%** | **96.5%** | **96.3%** | **94.3%** | **94.7%** | **96.6%** |

Licensee Comments:

1Q/11: Previously reported values for 2011-01 were in error. (See Condition Reports 11-94235 and 11-94392)

3Q/10: Previously reported values for 2010-09 were in error. (See Condition Reports 11-94235 and 11-94392)

## ERO Drill Participation

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 119.0 | 121.0 | 116.0 | 167.0 | 167.0 | 170.0 | 177.0 | 173.0 |
| Total Key personnel | 119.0 | 121.0 | 116.0 | 167.0 | 167.0 | 170.0 | 177.0 | 173.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments:

3Q/10: Previously reported values for 2010-09 were in error. (See Condition Reports 11-94235 and 11-94392)

# Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 115 | 235 | 119 | 119 | 113 | 1523 | 1560 | 1560 |
| Total sirens-tests | 115 | 238 | 119 | 119 | 115 | 1527 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.2%** | **99.5%** | **99.5%** | **99.2%** | **99.7%** | **99.8%** | **99.9%** |

Licensee Comments:

3Q/11: This submittal includes a change in the reporting of the ANS Reliability. The revised Beaver Valley siren test plan that was approved by FEMA in a letter dated June 13, 2011, increased the amount of required siren tests that are reported under this performance indicator.

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| 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 | 2Q/10 | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Security information not publicly available.

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*Last Modified: April 24, 2012*

# Beaver Valley 2

## 2Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 1560.3 | 1976.8 | 2208.0 | 2209.0 | 2183.0 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.8** | **0** |

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 1560.3 | 1976.8 | 2208.0 | 2209.0 | 2183.0 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| 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/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **0** | **0** | **2** | **2** | **2** | **2** | **0** |

Licensee Comments:

2Q/11: LERs 2011-001-00 (Both EDG s Inoperable- mode 6); LER 2011-002-00 (AFW Vent Line Crack)

## 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/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.04E-09 | -8.75E-08 | -2.81E-08 | -2.76E-08 | -2.84E-08 | -3.62E-08 | -3.62E-08 | -3.62E-08 |
| URI (ΔCDF) | 6.06E-07 | 2.51E-07 | 4.27E-07 | 4.27E-07 | 3.32E-07 | -1.68E-07 | -1.65E-07 | -1.62E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.00E-07** | **1.60E-07** | **4.00E-07** | **4.00E-07** | **3.00E-07** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** |

Licensee Comments:

1Q/12: Revised unavailability monitoring of the fuel oil transfer pumps per FAQ 484 and EDG run hours per FAQ 480.

3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.

1Q/11: Risk Cap Invoked. Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

4Q/10: Risk Cap Invoked.

3Q/10: Risk Cap Invoked.

## 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/10** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.95E-09 | -7.95E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 |
| URI (ΔCDF) | -2.11E-08 | -2.11E-08 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.11E-08 | -1.07E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.90E-08** | **-2.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.80E-08** | **-1.80E-08** |

Licensee Comments:

1Q/12: Frequency for testing of two HHSI suction isolation valves was changed from once per week to once per quarter. Changed estimated demands to match.

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.16E-08 | -5.46E-08 | -7.93E-09 | -7.02E-09 | -7.02E-09 | -8.97E-09 | -1.15E-08 | -1.15E-08 |
| URI (ΔCDF) | -4.89E-08 | -4.89E-08 | -2.51E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-8.10E-08** | **-1.00E-07** | **-3.30E-08** | **-3.30E-08** | **-3.30E-08** | **-3.50E-08** | **-3.80E-08** | **-3.80E-08** |

Licensee Comments:

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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/10** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.87E-09 | -5.87E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 |
| URI (ΔCDF) | -6.71E-09 | -6.71E-09 | -3.17E-09 | -3.17E-09 | -3.17E-09 | -3.17E-09 | -3.13E-09 | -3.09E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.30E-08** | **-1.30E-08** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.80E-09** |

Licensee Comments:

1Q/12: The estimated start demands for the associated pumps utilized for residual heat removal was lowered due to a change in the surveillance testing procedure.

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.81E-08 | 6.81E-08 | 2.94E-08 | 1.21E-08 | 1.18E-08 | 4.45E-09 | 4.40E-09 | 6.52E-09 |
| URI (ΔCDF) | 2.60E-08 | 2.60E-08 | 3.23E-08 | 5.88E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.40E-08** | **9.40E-08** | **6.20E-08** | **7.10E-08** | **3.00E-08** | **2.30E-08** | **2.20E-08** | **2.50E-08** |

Licensee Comments:

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **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 | 0.000126 | 0.000129 | 0.000140 | 0.000144 | 0.000147 | 0.000149 | 0.000156 | 0.000160 | 0.000160 | 0.000085 | 0.000100 | 0.000133 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** |
| Maximum activity | 0.000121 | 0.000123 | 0.000136 | 0.000131 | 0.000352 | 0.000154 | 0.000152 | 0.000158 | 0.000155 | 0.000170 | 0.000167 | 0.000173 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.1** | **0** | **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** | **7/10** | **8/10** | **9/10** | **10/10** | **11/10** | **12/10** | **1/11** | **2/11** | **3/11** | **4/11** | **5/11** | **6/11** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.060 | 0.070 | 0.060 | 0.070 | 0.050 | 0.050 | 0.070 | 0.070 | 0.040 | 0.100 | 0.100 | 0.150 |
| 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** | **0.6** | **0.7** | **0.6** | **0.7** | **0.5** | **0.5** | **0.7** | **0.7** | **0.4** | **1.0** | **1.0** | **1.5** |
| **Reactor Coolant System Leakage** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** |
| Maximum leakage | 0.140 | 0.110 | 0.120 | 0.130 | 0.160 | 0.150 | 0.120 | 0.170 | 0.240 | 0.120 | 0.160 | 0.190 |
| 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** | **1.4** | **1.1** | **1.2** | **1.3** | **1.6** | **1.5** | **1.2** | **1.7** | **2.4** | **1.2** | **1.6** | **1.9** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 26.0 | 5.0 | 10.0 | 18.0 | 17.0 | 31.0 | 19.0 | 89.0 |
| Total opportunities | 26.0 | 5.0 | 11.0 | 19.0 | 20.0 | 32.0 | 19.0 | 90.0 |
| | | | | | | | | |
| **Indicator value** | **97.5%** | **97.5%** | **96.5%** | **96.3%** | **94.3%** | **94.7%** | **96.6%** | **96.8%** |

Licensee Comments:

1Q/11: Previously reported values for 2011-01 were in error. (See Condition Reports 11-94235 and 11-94392)

3Q/10: Previously reported values for 2010-09 were in error. (See Condition Reports 11-94235 and 11-94392)

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 121.0 | 116.0 | 167.0 | 167.0 | 170.0 | 177.0 | 173.0 | 169.0 |
| Total Key personnel | 121.0 | 116.0 | 167.0 | 167.0 | 170.0 | 177.0 | 173.0 | 169.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments:

3Q/10: Previously reported values for 2010-09 were in error. (See Condition Reports 11-94235 and 11-94392)

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 235 | 119 | 119 | 113 | 1523 | 1560 | 1560 | 1559 |
| Total sirens-tests | 238 | 119 | 119 | 115 | 1527 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.2%** | **99.5%** | **99.5%** | **99.2%** | **99.7%** | **99.8%** | **99.9%** | **99.9%** |

Licensee Comments:

3Q/11: This submittal includes a change in the reporting of the ANS Reliability. The revised Beaver Valley siren test plan that was approved by FEMA in a letter dated June 13, 2011, increased the amount of required siren tests that are reported under this performance indicator.

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| 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/10 | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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# Beaver Valley 2

## 3Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 1560.3 | 1976.8 | 2208.0 | 2209.0 | 2183.0 | 2184.0 | 2040.3 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.8** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 1560.3 | 1976.8 | 2208.0 | 2209.0 | 2183.0 | 2184.0 | 2040.3 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 |
|---|---|---|---|---|---|---|---|---|
| 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

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **2** | **2** | **2** | **2** | **0** | **0** |

Licensee Comments:

2Q/11: LERs 2011-001-00 (Both EDG s Inoperable- mode 6); LER 2011-002-00 (AFW Vent Line Crack)

## 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** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -8.75E-08 | -2.81E-08 | -2.76E-08 | -2.84E-08 | -3.62E-08 | -3.62E-08 | -3.62E-08 | -3.62E-08 |
| URI (ΔCDF) | 2.51E-07 | 4.27E-07 | 4.27E-07 | 3.32E-07 | -1.68E-07 | -1.65E-07 | -1.62E-07 | -1.59E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **1.60E-07** | **4.00E-07** | **4.00E-07** | **3.00E-07** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** |

Licensee Comments:

1Q/12: Revised unavailability monitoring of the fuel oil transfer pumps per FAQ 484 and EDG run hours per FAQ 480.

3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.

1Q/11: Risk Cap Invoked. Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

4Q/10: Risk Cap Invoked.

## 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** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.95E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 |
| URI (ΔCDF) | -2.11E-08 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.11E-08 | -1.07E-08 | -1.03E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.80E-08** | **-1.80E-08** | **-1.70E-08** |

Licensee Comments:

1Q/12: Frequency for testing of two HHSI suction isolation valves was changed from once per week to once per quarter. Changed estimated demands to match.

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.46E-08 | -7.93E-09 | -7.02E-09 | -7.02E-09 | -8.97E-09 | -1.15E-08 | -1.15E-08 | -1.15E-08 |
| URI (ΔCDF) | -4.89E-08 | -2.51E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.00E-07** | **-3.30E-08** | **-3.30E-08** | **-3.30E-08** | **-3.50E-08** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** |

Licensee Comments:

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -5.87E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 |
| URI (ΔCDF) | -6.71E-09 | -3.17E-09 | -3.17E-09 | -3.17E-09 | -3.17E-09 | -3.13E-09 | -3.09E-09 | -3.05E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.30E-08** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.80E-09** | **-5.80E-09** |

Licensee Comments:

1Q/12: The estimated start demands for the associated pumps utilized for residual heat removal was lowered due to a change in the surveillance testing procedure.

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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** | **4Q/10** | **1Q/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.81E-08 | 2.94E-08 | 1.21E-08 | 1.18E-08 | 4.45E-09 | 4.40E-09 | 6.52E-09 | 2.49E-09 |
| URI (ΔCDF) | 2.60E-08 | 3.23E-08 | 5.88E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **9.40E-08** | **6.20E-08** | **7.10E-08** | **3.00E-08** | **2.30E-08** | **2.20E-08** | **2.50E-08** | **2.10E-08** |

Licensee Comments:

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/10** | **11/10** | **12/10** | **1/11** | **2/11** | **3/11** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000144 | 0.000147 | 0.000149 | 0.000156 | 0.000160 | 0.000160 | 0.000085 | 0.000100 | 0.000133 | 0.000121 | 0.000123 | 0.000136 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** |
| Maximum activity | 0.000131 | 0.000352 | 0.000154 | 0.000152 | 0.000158 | 0.000155 | 0.000170 | 0.000167 | 0.000173 | 0.000173 | 0.000181 | 0.000173 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 10/10 | 11/10 | 12/10 | 1/11 | 2/11 | 3/11 | 4/11 | 5/11 | 6/11 | 7/11 | 8/11 | 9/11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.070 | 0.050 | 0.050 | 0.070 | 0.070 | 0.040 | 0.100 | 0.100 | 0.150 | 0.140 | 0.110 | 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** | **0.7** | **0.5** | **0.5** | **0.7** | **0.7** | **0.4** | **1.0** | **1.0** | **1.5** | **1.4** | **1.1** | **1.2** |
| **Reactor Coolant System Leakage** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** |
| Maximum leakage | 0.130 | 0.160 | 0.150 | 0.120 | 0.170 | 0.240 | 0.120 | 0.160 | 0.190 | 0.220 | 0.220 | 0.170 |
| 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** | **1.3** | **1.6** | **1.5** | **1.2** | **1.7** | **2.4** | **1.2** | **1.6** | **1.9** | **2.2** | **2.2** | **1.7** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 5.0 | 10.0 | 18.0 | 17.0 | 31.0 | 19.0 | 89.0 | 28.0 |
| Total opportunities | 5.0 | 11.0 | 19.0 | 20.0 | 32.0 | 19.0 | 90.0 | 28.0 |
| | | | | | | | | |
| **Indicator value** | **97.5%** | **96.5%** | **96.3%** | **94.3%** | **94.7%** | **96.6%** | **96.8%** | **96.9%** |

Licensee Comments:

1Q/11: Previously reported values for 2011-01 were in error. (See Condition Reports 11-94235 and 11-94392)

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 116.0 | 167.0 | 167.0 | 170.0 | 177.0 | 173.0 | 169.0 | 170.0 |
| Total Key personnel | 116.0 | 167.0 | 167.0 | 170.0 | 177.0 | 173.0 | 169.0 | 170.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 119 | 113 | 1523 | 1560 | 1560 | 1559 | 1553 |
| Total sirens-tests | 119 | 119 | 115 | 1527 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.5%** | **99.2%** | **99.7%** | **99.8%** | **99.9%** | **99.9%** | **99.9%** |

Licensee Comments:

3Q/11: This submittal includes a change in the reporting of the ANS Reliability. The revised Beaver Valley siren test plan that was approved by FEMA in a letter dated June 13, 2011, increased the amount of required siren tests that are reported under this performance indicator.

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 4Q/10 | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: October 24, 2012*

# Beaver Valley 2

## 4Q/2012 Performance Indicators

Licensee's General Comments: The Beaver Valley Power Station Unit 2 PRA Model Revision 5A was approved on 08/31/12 with a corresponding MSPI Basis Document Revision 9 approved on 01/08/13. The PRA model update was an interim revision to incorporate the updated EPRI methodology based internal flooding into the PRA model which is now fully compliant with RG 1.200, revision 1. Other changes to the PRA model include an additional credited operator action for EDG ventilation and model changes to reflect MAAP-DBA analyses performed for RSS NPSH. As a result of the PRA model change, the CDF, Fussell-Vesely, and Probabilities for monitored trains and components were revised.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1560.3 | 1976.8 | 2208.0 | 2209.0 | 2183.0 | 2184.0 | 2040.3 | 1459.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0.9** | **0.9** | **0.9** | **0.8** | **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/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1560.3 | 1976.8 | 2208.0 | 2209.0 | 2183.0 | 2184.0 | 2040.3 | 1459.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 |
|---|---|---|---|---|---|---|---|---|
| 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/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **2** | **2** | **2** | **2** | **0** | **0** | **0** |

Licensee Comments:

2Q/11: LERs 2011-001-00 (Both EDG s Inoperable- mode 6); LER 2011-002-00 (AFW Vent Line Crack)

## 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/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.81E-08 | -2.76E-08 | -2.84E-08 | -3.62E-08 | -3.62E-08 | -3.62E-08 | -3.62E-08 | -3.59E-08 |
| URI (ΔCDF) | 4.27E-07 | 4.27E-07 | 3.32E-07 | -1.68E-07 | -1.65E-07 | -1.62E-07 | -1.59E-07 | -1.55E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **4.00E-07** | **4.00E-07** | **3.00E-07** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** | **-1.90E-07** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: Revised unavailability monitoring of the fuel oil transfer pumps per FAQ 484 and EDG run hours per FAQ 480.

3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.

1Q/11: Risk Cap Invoked. Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -3.98E-09 |
| URI (ΔCDF) | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.11E-08 | -1.07E-08 | -1.03E-08 | -8.53E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.80E-08** | **-1.80E-08** | **-1.70E-08** | **-1.30E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: Frequency for testing of two HHSI suction isolation valves was changed from once per week to once per quarter. Changed estimated demands to match.

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.93E-09 | -7.02E-09 | -7.02E-09 | -8.97E-09 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.16E-08 |
| URI (ΔCDF) | -2.51E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.75E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.30E-08** | **-3.30E-08** | **-3.30E-08** | **-3.50E-08** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** | **-3.90E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -1.95E-09 |
| URI (ΔCDF) | -3.17E-09 | -3.17E-09 | -3.17E-09 | -3.17E-09 | -3.13E-09 | -3.09E-09 | -3.05E-09 | -2.15E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.80E-09** | **-5.80E-09** | **-4.10E-09** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: The estimated start demands for the associated pumps utilized for residual heat removal was lowered due to a change in the surveillance testing procedure.

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## 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/11** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.94E-08 | 1.21E-08 | 1.18E-08 | 4.45E-09 | 4.40E-09 | 6.52E-09 | 2.49E-09 | 2.12E-09 |
| URI (ΔCDF) | 3.23E-08 | 5.88E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.01E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **6.20E-08** | **7.10E-08** | **3.00E-08** | **2.30E-08** | **2.20E-08** | **2.50E-08** | **2.10E-08** | **1.20E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/11: Changed PRA Parameter(s). PRA Model Change PRA-BV2-AL-R05, effective 12/31/2010.

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/11** | **2/11** | **3/11** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000156 | 0.000160 | 0.000160 | 0.000085 | 0.000100 | 0.000133 | 0.000121 | 0.000123 | 0.000136 | 0.000131 | 0.000352 | 0.000154 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** |

| **Reactor Coolant System Activity** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000152 | 0.000158 | 0.000155 | 0.000170 | 0.000167 | 0.000173 | 0.000173 | 0.000181 | 0.000173 | N/A | 0.000093 | 0.000107 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **N/A** | **0** | **0** |

Licensee Comments: none

## Reactor Coolant System Leakage

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **1/11** | **2/11** | **3/11** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.070 | 0.070 | 0.040 | 0.100 | 0.100 | 0.150 | 0.140 | 0.110 | 0.120 | 0.130 | 0.160 | 0.150 |
| 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** | **0.7** | **0.7** | **0.4** | **1.0** | **1.0** | **1.5** | **1.4** | **1.1** | **1.2** | **1.3** | **1.6** | **1.5** |
| **Reactor Coolant System Leakage** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** |
| Maximum leakage | 0.120 | 0.170 | 0.240 | 0.120 | 0.160 | 0.190 | 0.220 | 0.220 | 0.170 | N/A | 0.200 | 0.230 |
| 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** | **1.2** | **1.7** | **2.4** | **1.2** | **1.6** | **1.9** | **2.2** | **2.2** | **1.7** | **N/A** | **2.0** | **2.3** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 10.0 | 18.0 | 17.0 | 31.0 | 19.0 | 89.0 | 28.0 | 6.0 |
| Total opportunities | 11.0 | 19.0 | 20.0 | 32.0 | 19.0 | 90.0 | 28.0 | 6.0 |
| | | | | | | | | |
| **Indicator value** | **96.5%** | **96.3%** | **94.3%** | **94.7%** | **96.6%** | **96.8%** | **96.9%** | **96.9%** |

Licensee Comments:

1Q/11: Previously reported values for 2011-01 were in error. (See Condition Reports 11-94235 and 11-94392)

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 167.0 | 167.0 | 170.0 | 177.0 | 173.0 | 169.0 | 170.0 | 173.0 |
| Total Key personnel | 167.0 | 167.0 | 170.0 | 177.0 | 173.0 | 169.0 | 170.0 | 173.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 119 | 113 | 1523 | 1560 | 1560 | 1559 | 1553 | 1560 |
| Total sirens-tests | 119 | 115 | 1527 | 1560 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **99.2%** | **99.7%** | **99.8%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** |

Licensee Comments:

3Q/11: This submittal includes a change in the reporting of the ANS Reliability. The revised Beaver Valley siren test plan that was approved by FEMA in a letter dated June 13, 2011, increased the amount of required siren tests that are reported under this performance indicator.

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 1Q/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 |
|---|---|---|---|---|---|---|---|---|
| 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/11 | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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*Last Modified: January 23, 2013*

# Beaver Valley 2

## 1Q/2013 Performance Indicators

Licensee's General Comments: Previous months of EP Drill/Exercise Performance (DEP) indicator data were revised as a result of Condition Report CR-2013-02962. The DEP indicator remains green.

**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1976.8 | 2208.0 | 2209.0 | 2183.0 | 2184.0 | 2040.3 | 1459.0 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0.9** | **0.8** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1976.8 | 2208.0 | 2209.0 | 2183.0 | 2184.0 | 2040.3 | 1459.0 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|---|---|---|---|---|---|---|---|---|
| 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

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **2** | **2** | **2** | **2** | **0** | **0** | **0** | **0** |

Licensee Comments:

2Q/11: LERs 2011-001-00 (Both EDG s Inoperable- mode 6); LER 2011-002-00 (AFW Vent Line Crack)

## 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** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.76E-08 | -2.84E-08 | -3.62E-08 | -3.62E-08 | -3.62E-08 | -3.62E-08 | -3.59E-08 | -3.59E-08 |
| URI (ΔCDF) | 4.27E-07 | 3.32E-07 | -1.68E-07 | -1.65E-07 | -1.62E-07 | -1.59E-07 | -1.55E-07 | -1.52E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **4.00E-07** | **3.00E-07** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** | **-1.90E-07** | **-1.90E-07** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: Revised unavailability monitoring of the fuel oil transfer pumps per FAQ 484 and EDG run hours per FAQ 480.

3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.

## 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** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -3.98E-09 | -3.98E-09 |
| URI (ΔCDF) | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.11E-08 | -1.07E-08 | -1.03E-08 | -8.53E-09 | -8.17E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.90E-08** | **-1.90E-08** | **-1.90E-08** | **-1.80E-08** | **-1.80E-08** | **-1.70E-08** | **-1.30E-08** | **-1.20E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: Frequency for testing of two HHSI suction isolation valves was changed from once per week to once per quarter. Changed estimated demands to match.

## 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** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.02E-09 | -7.02E-09 | -8.97E-09 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.16E-08 | -1.10E-08 |
| URI (ΔCDF) | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.75E-08 | -2.75E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.30E-08** | **-3.30E-08** | **-3.50E-08** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** | **-3.90E-08** | **-3.80E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -1.95E-09 | -1.95E-09 |
| URI (ΔCDF) | -3.17E-09 | -3.17E-09 | -3.17E-09 | -3.13E-09 | -3.09E-09 | -3.05E-09 | -2.15E-09 | -2.12E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.80E-09** | **-5.80E-09** | **-4.10E-09** | **-4.10E-09** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: The estimated start demands for the associated pumps utilized for residual heat removal was lowered due to a change in the surveillance testing procedure.

## 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** | **2Q/11** | **3Q/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.21E-08 | 1.18E-08 | 4.45E-09 | 4.40E-09 | 6.52E-09 | 2.49E-09 | 2.12E-09 | 2.12E-09 |
| URI (ΔCDF) | 5.88E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 1.01E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **7.10E-08** | **3.00E-08** | **2.30E-08** | **2.20E-08** | **2.50E-08** | **2.10E-08** | **1.20E-08** | **1.20E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000085 | 0.000100 | 0.000133 | 0.000121 | 0.000123 | 0.000136 | 0.000131 | 0.000352 | 0.000154 | 0.000152 | 0.000158 | 0.000155 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** |

| **Reactor Coolant System Activity** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000170 | 0.000167 | 0.000173 | 0.000173 | 0.000181 | 0.000173 | N/A | 0.000093 | 0.000107 | 0.000105 | 0.000107 | 0.000115 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.1** | **0** | **N/A** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **4/11** | **5/11** | **6/11** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.100 | 0.100 | 0.150 | 0.140 | 0.110 | 0.120 | 0.130 | 0.160 | 0.150 | 0.120 | 0.170 | 0.240 |
| 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** | **1.0** | **1.0** | **1.5** | **1.4** | **1.1** | **1.2** | **1.3** | **1.6** | **1.5** | **1.2** | **1.7** | **2.4** |
| **Reactor Coolant System Leakage** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** |
| Maximum leakage | 0.120 | 0.160 | 0.190 | 0.220 | 0.220 | 0.170 | N/A | 0.200 | 0.230 | 0.220 | 0.240 | 0.290 |
| 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** | **1.2** | **1.6** | **1.9** | **2.2** | **2.2** | **1.7** | **N/A** | **2.0** | **2.3** | **2.2** | **2.4** | **2.9** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 15.0 | 18.0 | 26.0 | 17.0 | 47.0 | 20.0 | 6.0 | 7.0 |
| Total opportunities | 16.0 | 18.0 | 26.0 | 17.0 | 48.0 | 20.0 | 6.0 | 7.0 |
| | | | | | | | | |
| **Indicator value** | **96.2%** | **96.1%** | **96.6%** | **98.8%** | **98.2%** | **98.1%** | **98.1%** | **98.7%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 167.0 | 170.0 | 177.0 | 173.0 | 169.0 | 170.0 | 173.0 | 175.0 |
| Total Key personnel | 167.0 | 170.0 | 177.0 | 173.0 | 169.0 | 170.0 | 173.0 | 175.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 113 | 1523 | 1560 | 1560 | 1559 | 1553 | 1560 | 1559 |
| Total sirens-tests | 115 | 1527 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.2%** | **99.7%** | **99.8%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** |

Licensee Comments:

3Q/11: This submittal includes a change in the reporting of the ANS Reliability. The revised Beaver Valley siren test plan that was approved by FEMA in a letter dated June 13, 2011, increased the amount of required siren tests that are reported under this performance indicator.

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 2Q/11 | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: April 23, 2013*

# Beaver Valley 2

## 2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2183.0 | 2184.0 | 2040.3 | 1459.0 | 2159.0 | 1894.2 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0.8** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2183.0 | 2184.0 | 2040.3 | 1459.0 | 2159.0 | 1894.2 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 |
|---|---|---|---|---|---|---|---|---|
| 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

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **2** | **2** | **2** | **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/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.84E-08 | -3.62E-08 | -3.62E-08 | -3.62E-08 | -3.62E-08 | -3.59E-08 | -3.59E-08 | -3.59E-08 |
| URI (ΔCDF) | 3.32E-07 | -1.68E-07 | -1.65E-07 | -1.62E-07 | -1.59E-07 | -1.55E-07 | -1.52E-07 | -1.49E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.00E-07** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** | **-1.90E-07** | **-1.90E-07** | **-1.90E-07** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: Revised unavailability monitoring of the fuel oil transfer pumps per FAQ 484 and EDG run hours per FAQ 480.

3Q/11: Risk Cap Invoked.

## 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/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -3.98E-09 | -3.98E-09 | 2.93E-08 |
| URI (ΔCDF) | -1.15E-08 | -1.15E-08 | -1.11E-08 | -1.07E-08 | -1.03E-08 | -8.53E-09 | -8.17E-09 | -4.46E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.90E-08** | **-1.90E-08** | **-1.80E-08** | **-1.80E-08** | **-1.70E-08** | **-1.30E-08** | **-1.20E-08** | **2.50E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: Frequency for testing of two HHSI suction isolation valves was changed from once per week to once per quarter. Changed estimated demands to match.

## 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/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.02E-09 | -8.97E-09 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.16E-08 | -1.10E-08 | -1.16E-08 |
| URI (ΔCDF) | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.30E-08** | **-3.50E-08** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** | **-3.90E-08** | **-3.80E-08** | **-3.90E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -1.95E-09 | -1.95E-09 | -1.95E-09 |
| URI (ΔCDF) | -3.17E-09 | -3.17E-09 | -3.13E-09 | -3.09E-09 | -3.05E-09 | -2.15E-09 | -2.12E-09 | -2.09E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.90E-09** | **-5.90E-09** | **-5.90E-09** | **-5.80E-09** | **-5.80E-09** | **-4.10E-09** | **-4.10E-09** | **-4.00E-09** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: The estimated start demands for the associated pumps utilized for residual heat removal was lowered due to a change in the surveillance testing procedure.

## 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/11** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.18E-08 | 4.45E-09 | 4.40E-09 | 6.52E-09 | 2.49E-09 | 2.12E-09 | 2.12E-09 | 2.15E-09 |
| URI (ΔCDF) | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **3.00E-08** | **2.30E-08** | **2.20E-08** | **2.50E-08** | **2.10E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000121 | 0.000123 | 0.000136 | 0.000131 | 0.000352 | 0.000154 | 0.000152 | 0.000158 | 0.000155 | 0.000170 | 0.000167 | 0.000173 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| **Reactor Coolant System Activity** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000173 | 0.000181 | 0.000173 | N/A | 0.000093 | 0.000107 | 0.000105 | 0.000107 | 0.000115 | 0.000115 | 0.000122 | 0.000112 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0.1** | **0** | **N/A** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **7/11** | **8/11** | **9/11** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.140 | 0.110 | 0.120 | 0.130 | 0.160 | 0.150 | 0.120 | 0.170 | 0.240 | 0.120 | 0.160 | 0.190 |
| 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** | **1.4** | **1.1** | **1.2** | **1.3** | **1.6** | **1.5** | **1.2** | **1.7** | **2.4** | **1.2** | **1.6** | **1.9** |
| **Reactor Coolant System Leakage** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** |
| Maximum leakage | 0.220 | 0.220 | 0.170 | N/A | 0.200 | 0.230 | 0.220 | 0.240 | 0.290 | 0.440 | 0.380 | 0.280 |
| 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** | **2.2** | **2.2** | **1.7** | **N/A** | **2.0** | **2.3** | **2.2** | **2.4** | **2.9** | **4.4** | **3.8** | **2.8** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 18.0 | 26.0 | 17.0 | 47.0 | 20.0 | 6.0 | 7.0 | 28.0 |
| Total opportunities | 18.0 | 26.0 | 17.0 | 48.0 | 20.0 | 6.0 | 7.0 | 28.0 |
| | | | | | | | | |
| **Indicator value** | **96.1%** | **96.6%** | **98.8%** | **98.2%** | **98.1%** | **98.1%** | **98.7%** | **99.4%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 170.0 | 177.0 | 173.0 | 169.0 | 170.0 | 173.0 | 175.0 | 184.0 |
| Total Key personnel | 170.0 | 177.0 | 173.0 | 169.0 | 170.0 | 173.0 | 175.0 | 184.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1523 | 1560 | 1560 | 1559 | 1553 | 1560 | 1559 | 1560 |
| Total sirens-tests | 1527 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.7%** | **99.8%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** |

Licensee Comments:

3Q/11: This submittal includes a change in the reporting of the ANS Reliability. The revised Beaver Valley siren test plan that was approved by FEMA in a letter dated June 13, 2011, increased the amount of required siren tests that are reported under this performance indicator.

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 3Q/11 | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: August 19, 2013*

# Beaver Valley 2

## 3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 2183.0 | 2184.0 | 2040.3 | 1459.0 | 2159.0 | 1894.2 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.8** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 2183.0 | 2184.0 | 2040.3 | 1459.0 | 2159.0 | 1894.2 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 |
|---|---|---|---|---|---|---|---|---|
| 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

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **2** | **2** | **0** | **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** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.62E-08 | -3.62E-08 | -3.62E-08 | -3.62E-08 | -3.59E-08 | -3.59E-08 | -3.59E-08 | -1.67E-08 |
| URI (ΔCDF) | -1.68E-07 | -1.65E-07 | -1.62E-07 | -1.59E-07 | -1.55E-07 | -1.52E-07 | -1.49E-07 | -1.46E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** | **-1.90E-07** | **-1.90E-07** | **-1.90E-07** | **-1.60E-07** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: Revised unavailability monitoring of the fuel oil transfer pumps per FAQ 484 and EDG run hours per FAQ 480.

## 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** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.11E-09 | -7.11E-09 | -7.11E-09 | -7.11E-09 | -3.98E-09 | -3.98E-09 | 2.93E-08 | 2.93E-08 |
| URI (ΔCDF) | -1.15E-08 | -1.11E-08 | -1.07E-08 | -1.03E-08 | -8.53E-09 | -8.17E-09 | -4.46E-09 | -4.06E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.90E-08** | **-1.80E-08** | **-1.80E-08** | **-1.70E-08** | **-1.30E-08** | **-1.20E-08** | **2.50E-08** | **2.50E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: Frequency for testing of two HHSI suction isolation valves was changed from once per week to once per quarter. Changed estimated demands to match.

## 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** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -8.97E-09 | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.16E-08 | -1.10E-08 | -1.16E-08 | -1.16E-08 |
| URI (ΔCDF) | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.50E-08** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** | **-3.90E-08** | **-3.80E-08** | **-3.90E-08** | **-3.90E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.73E-09 | -2.73E-09 | -2.73E-09 | -2.73E-09 | -1.95E-09 | -1.95E-09 | -1.95E-09 | -8.98E-10 |
| URI (ΔCDF) | -3.17E-09 | -3.13E-09 | -3.09E-09 | -3.05E-09 | -2.15E-09 | -2.12E-09 | -2.09E-09 | -2.06E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.90E-09** | **-5.90E-09** | **-5.80E-09** | **-5.80E-09** | **-4.10E-09** | **-4.10E-09** | **-4.00E-09** | **-3.00E-09** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: The estimated start demands for the associated pumps utilized for residual heat removal was lowered due to a change in the surveillance testing procedure.

## 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** | **4Q/11** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 4.45E-09 | 4.40E-09 | 6.52E-09 | 2.49E-09 | 2.12E-09 | 2.12E-09 | 2.15E-09 | 2.21E-09 |
| URI (ΔCDF) | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.30E-08** | **2.20E-08** | **2.50E-08** | **2.10E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/11** | **11/11** | **12/11** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000131 | 0.000352 | 0.000154 | 0.000152 | 0.000158 | 0.000155 | 0.000170 | 0.000167 | 0.000173 | 0.000173 | 0.000181 | 0.000173 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** |

| **Reactor Coolant System Activity** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | N/A | 0.000093 | 0.000107 | 0.000105 | 0.000107 | 0.000115 | 0.000115 | 0.000122 | 0.000112 | 0.000124 | 0.000129 | 0.000136 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **N/A** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| Reactor Coolant System Leakage | 10/11 | 11/11 | 12/11 | 1/12 | 2/12 | 3/12 | 4/12 | 5/12 | 6/12 | 7/12 | 8/12 | 9/12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.130 | 0.160 | 0.150 | 0.120 | 0.170 | 0.240 | 0.120 | 0.160 | 0.190 | 0.220 | 0.220 | 0.170 |
| 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** | **1.3** | **1.6** | **1.5** | **1.2** | **1.7** | **2.4** | **1.2** | **1.6** | **1.9** | **2.2** | **2.2** | **1.7** |
| **Reactor Coolant System Leakage** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** |
| Maximum leakage | N/A | 0.200 | 0.230 | 0.220 | 0.240 | 0.290 | 0.440 | 0.380 | 0.280 | 0.890 | 0.130 | 0.130 |
| 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** | **N/A** | **2.0** | **2.3** | **2.2** | **2.4** | **2.9** | **4.4** | **3.8** | **2.8** | **8.9** | **1.3** | **1.3** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 26.0 | 17.0 | 47.0 | 20.0 | 6.0 | 7.0 | 28.0 | 21.0 |
| Total opportunities | 26.0 | 17.0 | 48.0 | 20.0 | 6.0 | 7.0 | 28.0 | 21.0 |
| | | | | | | | | |
| **Indicator value** | **96.6%** | **98.8%** | **98.2%** | **98.1%** | **98.1%** | **98.7%** | **99.4%** | **99.4%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 177.0 | 173.0 | 169.0 | 170.0 | 173.0 | 175.0 | 184.0 | 186.0 |
| Total Key personnel | 177.0 | 173.0 | 169.0 | 170.0 | 173.0 | 175.0 | 184.0 | 187.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **99.5%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1560 | 1560 | 1559 | 1553 | 1560 | 1559 | 1560 | 1560 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.8%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **100.0%** |

Licensee Comments: none

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 4Q/11 | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: October 22, 2013*

# Beaver Valley 2

## 4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 2184.0 | 2040.3 | 1459.0 | 2159.0 | 1894.2 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0.8** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2183.0 | 2184.0 | 2040.3 | 1459.0 | 2159.0 | 1894.2 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **2** | **0** | **0** | **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** | **1Q/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.62E-08 | -3.62E-08 | -3.62E-08 | -3.59E-08 | -3.59E-08 | -3.59E-08 | -1.67E-08 | -1.67E-08 |
| URI (ΔCDF) | -1.65E-07 | -1.62E-07 | -1.59E-07 | -1.55E-07 | -1.52E-07 | -1.49E-07 | -1.46E-07 | -1.43E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.00E-07** | **-2.00E-07** | **-2.00E-07** | **-1.90E-07** | **-1.90E-07** | **-1.90E-07** | **-1.60E-07** | **-1.60E-07** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: Revised unavailability monitoring of the fuel oil transfer pumps per FAQ 484 and EDG run hours per FAQ 480.

## 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/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.11E-09 | -7.11E-09 | -7.11E-09 | -3.98E-09 | -3.98E-09 | 2.93E-08 | 2.93E-08 | 2.93E-08 |
| URI (ΔCDF) | -1.11E-08 | -1.07E-08 | -1.03E-08 | -8.53E-09 | -8.17E-09 | -4.46E-09 | -4.06E-09 | -3.65E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.80E-08** | **-1.80E-08** | **-1.70E-08** | **-1.30E-08** | **-1.20E-08** | **2.50E-08** | **2.50E-08** | **2.60E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: Frequency for testing of two HHSI suction isolation valves was changed from once per week to once per quarter. Changed estimated demands to match.

## 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/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.15E-08 | -1.15E-08 | -1.15E-08 | -1.16E-08 | -1.10E-08 | -1.16E-08 | -1.16E-08 | -1.14E-08 |
| URI (ΔCDF) | -2.64E-08 | -2.64E-08 | -2.64E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** | **-3.90E-08** | **-3.80E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.73E-09 | -2.73E-09 | -2.73E-09 | -1.95E-09 | -1.95E-09 | -1.95E-09 | -8.98E-10 | -1.02E-09 |
| URI (ΔCDF) | -3.13E-09 | -3.09E-09 | -3.05E-09 | -2.15E-09 | -2.12E-09 | -2.09E-09 | -2.06E-09 | -2.03E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.90E-09** | **-5.80E-09** | **-5.80E-09** | **-4.10E-09** | **-4.10E-09** | **-4.00E-09** | **-3.00E-09** | **-3.00E-09** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

1Q/12: The estimated start demands for the associated pumps utilized for residual heat removal was lowered due to a change in the surveillance testing procedure.

## 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/12** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 4.40E-09 | 6.52E-09 | 2.49E-09 | 2.12E-09 | 2.12E-09 | 2.15E-09 | 2.21E-09 | 2.21E-09 |
| URI (ΔCDF) | 1.81E-08 | 1.81E-08 | 1.81E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.20E-08** | **2.50E-08** | **2.10E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000152 | 0.000158 | 0.000155 | 0.000170 | 0.000167 | 0.000173 | 0.000173 | 0.000181 | 0.000173 | N/A | 0.000093 | 0.000107 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **N/A** | **0** | **0** |

| **Reactor Coolant System Activity** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000105 | 0.000107 | 0.000115 | 0.000115 | 0.000122 | 0.000112 | 0.000124 | 0.000129 | 0.000136 | 0.000138 | 0.000145 | 0.000146 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **1/12** | **2/12** | **3/12** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.120 | 0.170 | 0.240 | 0.120 | 0.160 | 0.190 | 0.220 | 0.220 | 0.170 | N/A | 0.200 | 0.230 |
| 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** | **1.2** | **1.7** | **2.4** | **1.2** | **1.6** | **1.9** | **2.2** | **2.2** | **1.7** | **N/A** | **2.0** | **2.3** |
| **Reactor Coolant System Leakage** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** |
| Maximum leakage | 0.220 | 0.240 | 0.290 | 0.440 | 0.380 | 0.280 | 0.890 | 0.130 | 0.130 | 0.130 | 0.130 | 0.130 |
| 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** | **2.2** | **2.4** | **2.9** | **4.4** | **3.8** | **2.8** | **8.9** | **1.3** | **1.3** | **1.3** | **1.3** | **1.3** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 17.0 | 47.0 | 20.0 | 6.0 | 7.0 | 28.0 | 21.0 | 4.0 |
| Total opportunities | 17.0 | 48.0 | 20.0 | 6.0 | 7.0 | 28.0 | 21.0 | 4.0 |
| | | | | | | | | |
| **Indicator value** | **98.8%** | **98.2%** | **98.1%** | **98.1%** | **98.7%** | **99.4%** | **99.4%** | **99.3%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 173.0 | 169.0 | 170.0 | 173.0 | 175.0 | 184.0 | 186.0 | 177.0 |
| Total Key personnel | 173.0 | 169.0 | 170.0 | 173.0 | 175.0 | 184.0 | 187.0 | 180.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **99.5%** | **98.3%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1560 | 1559 | 1553 | 1560 | 1559 | 1560 | 1560 | 1680 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1680 |
| | | | | | | | | |
| **Indicator value** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Very high radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 1Q/12 | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: January 22, 2014*

# Beaver Valley 2

## 1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: ERO Drill Participation revised due to SRO licenses becoming inactive effective 12/31/2013, which was not reflected in the 4Q2013 data submittal.

**Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0**

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2040.3 | 1459.0 | 2159.0 | 1894.2 | 2208.0 | 2209.0 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2040.3 | 1459.0 | 2159.0 | 1894.2 | 2208.0 | 2209.0 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
|---|---|---|---|---|---|---|---|---|
| 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

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.62E-08 | -3.62E-08 | -3.59E-08 | -3.59E-08 | -3.59E-08 | -1.67E-08 | -1.67E-08 | -1.71E-08 |
| URI (ΔCDF) | -1.62E-07 | -1.59E-07 | -1.55E-07 | -1.52E-07 | -1.49E-07 | -1.46E-07 | -1.43E-07 | -1.39E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.00E-07** | **-2.00E-07** | **-1.90E-07** | **-1.90E-07** | **-1.90E-07** | **-1.60E-07** | **-1.60E-07** | **-1.60E-07** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.11E-09 | -7.11E-09 | -3.98E-09 | -3.98E-09 | 2.93E-08 | 2.93E-08 | 2.93E-08 | 2.85E-08 |
| URI (ΔCDF) | -1.07E-08 | -1.03E-08 | -8.53E-09 | -8.17E-09 | -4.46E-09 | -4.06E-09 | -3.65E-09 | -3.21E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.80E-08** | **-1.70E-08** | **-1.30E-08** | **-1.20E-08** | **2.50E-08** | **2.50E-08** | **2.60E-08** | **2.50E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.15E-08 | -1.15E-08 | -1.16E-08 | -1.10E-08 | -1.16E-08 | -1.16E-08 | -1.14E-08 | -1.16E-08 |
| URI (ΔCDF) | -2.64E-08 | -2.64E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.74E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.80E-08** | **-3.80E-08** | **-3.90E-08** | **-3.80E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.73E-09 | -2.73E-09 | -1.95E-09 | -1.95E-09 | -1.95E-09 | -8.98E-10 | -1.02E-09 | -1.05E-09 |
| URI (ΔCDF) | -3.09E-09 | -3.05E-09 | -2.15E-09 | -2.12E-09 | -2.09E-09 | -2.06E-09 | -2.03E-09 | -1.99E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.80E-09** | **-5.80E-09** | **-4.10E-09** | **-4.10E-09** | **-4.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.00E-09** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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** | **2Q/12** | **3Q/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 6.52E-09 | 2.49E-09 | 2.12E-09 | 2.12E-09 | 2.15E-09 | 2.21E-09 | 2.21E-09 | 2.15E-09 |
| URI (ΔCDF) | 1.81E-08 | 1.81E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.50E-08** | **2.10E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000170 | 0.000167 | 0.000173 | 0.000173 | 0.000181 | 0.000173 | N/A | 0.000093 | 0.000107 | 0.000105 | 0.000107 | 0.000115 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.1** | **0** | **N/A** | **0** | **0** | **0** | **0** | **0** |

| **Reactor Coolant System Activity** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000115 | 0.000122 | 0.000112 | 0.000124 | 0.000129 | 0.000136 | 0.000138 | 0.000145 | 0.000146 | 0.000153 | 0.000170 | 0.000185 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **4/12** | **5/12** | **6/12** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.120 | 0.160 | 0.190 | 0.220 | 0.220 | 0.170 | N/A | 0.200 | 0.230 | 0.220 | 0.240 | 0.290 |
| 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** | **1.2** | **1.6** | **1.9** | **2.2** | **2.2** | **1.7** | **N/A** | **2.0** | **2.3** | **2.2** | **2.4** | **2.9** |
| **Reactor Coolant System Leakage** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** |
| Maximum leakage | 0.440 | 0.380 | 0.280 | 0.890 | 0.130 | 0.130 | 0.130 | 0.130 | 0.130 | 0.140 | 0.140 | 0.140 |
| 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** | **4.4** | **3.8** | **2.8** | **8.9** | **1.3** | **1.3** | **1.3** | **1.3** | **1.3** | **1.4** | **1.4** | **1.4** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 47.0 | 20.0 | 6.0 | 7.0 | 28.0 | 21.0 | 4.0 | 10.0 |
| Total opportunities | 48.0 | 20.0 | 6.0 | 7.0 | 28.0 | 21.0 | 4.0 | 11.0 |
| | | | | | | | | |
| **Indicator value** | **98.2%** | **98.1%** | **98.1%** | **98.7%** | **99.4%** | **99.4%** | **99.3%** | **98.6%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 169.0 | 170.0 | 173.0 | 175.0 | 184.0 | 186.0 | 175.0 | 166.0 |
| Total Key personnel | 169.0 | 170.0 | 173.0 | 175.0 | 184.0 | 187.0 | 178.0 | 172.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **99.5%** | **98.3%** | **96.5%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1559 | 1553 | 1560 | 1559 | 1560 | 1560 | 1680 | 1440 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1680 | 1440 |
| | | | | | | | | |
| **Indicator value** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Very high radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **1** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 2Q/12 | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: April 23, 2014*

# Beaver Valley 2

## 2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 2040.3 | 1459.0 | 2159.0 | 1894.2 | 2208.0 | 2209.0 | 2159.0 | 1383.5 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.9** |

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2040.3 | 1459.0 | 2159.0 | 1894.2 | 2208.0 | 2209.0 | 2159.0 | 1383.5 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.62E-08 | -3.59E-08 | -3.59E-08 | -3.59E-08 | -1.67E-08 | -1.67E-08 | -1.71E-08 | -1.67E-08 |
| URI (ΔCDF) | -1.59E-07 | -1.55E-07 | -1.52E-07 | -1.49E-07 | -1.46E-07 | -1.43E-07 | -1.39E-07 | -1.36E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.00E-07** | **-1.90E-07** | **-1.90E-07** | **-1.90E-07** | **-1.60E-07** | **-1.60E-07** | **-1.60E-07** | **-1.50E-07** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -7.11E-09 | -3.98E-09 | -3.98E-09 | 2.93E-08 | 2.93E-08 | 2.93E-08 | 2.85E-08 | 2.93E-08 |
| URI (ΔCDF) | -1.03E-08 | -8.53E-09 | -8.17E-09 | -4.46E-09 | -4.06E-09 | -3.65E-09 | -3.21E-09 | -2.76E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.70E-08** | **-1.30E-08** | **-1.20E-08** | **2.50E-08** | **2.50E-08** | **2.60E-08** | **2.50E-08** | **2.70E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.15E-08 | -1.16E-08 | -1.10E-08 | -1.16E-08 | -1.16E-08 | -1.14E-08 | -1.16E-08 | -1.30E-08 |
| URI (ΔCDF) | -2.64E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.74E-08 | -2.61E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.80E-08** | **-3.90E-08** | **-3.80E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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/12** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -2.73E-09 | -1.95E-09 | -1.95E-09 | -1.95E-09 | -8.98E-10 | -1.02E-09 | -1.05E-09 | -1.28E-09 |
| URI (ΔCDF) | -3.05E-09 | -2.15E-09 | -2.12E-09 | -2.09E-09 | -2.06E-09 | -2.03E-09 | -1.99E-09 | -1.96E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-5.80E-09** | **-4.10E-09** | **-4.10E-09** | **-4.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.20E-09** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.49E-09 | 2.12E-09 | 2.12E-09 | 2.15E-09 | 2.21E-09 | 2.21E-09 | 2.15E-09 | 1.71E-09 |
| URI (ΔCDF) | 1.81E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | -4.14E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.10E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **-2.40E-09** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000173 | 0.000181 | 0.000173 | N/A | 0.000093 | 0.000107 | 0.000105 | 0.000107 | 0.000115 | 0.000115 | 0.000122 | 0.000112 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0.1** | **0** | **N/A** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| **Reactor Coolant System Activity** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000124 | 0.000129 | 0.000136 | 0.000138 | 0.000145 | 0.000146 | 0.000153 | 0.000170 | 0.000185 | 0.000158 | 0.000074 | 0.000074 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **7/12** | **8/12** | **9/12** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.220 | 0.220 | 0.170 | N/A | 0.200 | 0.230 | 0.220 | 0.240 | 0.290 | 0.440 | 0.380 | 0.280 |
| 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** | **2.2** | **2.2** | **1.7** | **N/A** | **2.0** | **2.3** | **2.2** | **2.4** | **2.9** | **4.4** | **3.8** | **2.8** |
| **Reactor Coolant System Leakage** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** |
| Maximum leakage | 0.890 | 0.130 | 0.130 | 0.130 | 0.130 | 0.130 | 0.140 | 0.140 | 0.140 | 0.140 | 0.090 | 0.100 |
| 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** | **8.9** | **1.3** | **1.3** | **1.3** | **1.3** | **1.3** | **1.4** | **1.4** | **1.4** | **1.4** | **0.9** | **1.0** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 20.0 | 6.0 | 7.0 | 28.0 | 21.0 | 4.0 | 10.0 | 42.0 |
| Total opportunities | 20.0 | 6.0 | 7.0 | 28.0 | 21.0 | 4.0 | 11.0 | 44.0 |
| | | | | | | | | |
| **Indicator value** | **98.1%** | **98.1%** | **98.7%** | **99.4%** | **99.4%** | **99.3%** | **98.6%** | **97.9%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 170.0 | 173.0 | 175.0 | 184.0 | 186.0 | 175.0 | 166.0 | 165.0 |
| Total Key personnel | 170.0 | 173.0 | 175.0 | 184.0 | 187.0 | 178.0 | 172.0 | 167.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **99.5%** | **98.3%** | **96.5%** | **98.8%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1553 | 1560 | 1559 | 1560 | 1560 | 1680 | 1440 | 1560 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1560 | 1680 | 1440 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Very high radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **1** | **1** | **2** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 3Q/12 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: July 31, 2014*

# Beaver Valley 2

## 3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 1459.0 | 2159.0 | 1894.2 | 2208.0 | 2209.0 | 2159.0 | 1383.5 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0.9** | **0.9** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1459.0 | 2159.0 | 1894.2 | 2208.0 | 2209.0 | 2159.0 | 1383.5 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **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** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.59E-08 | -3.59E-08 | -3.59E-08 | -1.67E-08 | -1.67E-08 | -1.71E-08 | -1.67E-08 | -1.67E-08 |
| URI (ΔCDF) | -1.55E-07 | -1.52E-07 | -1.49E-07 | -1.46E-07 | -1.43E-07 | -1.39E-07 | -1.36E-07 | -1.32E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.90E-07** | **-1.90E-07** | **-1.90E-07** | **-1.60E-07** | **-1.60E-07** | **-1.60E-07** | **-1.50E-07** | **-1.50E-07** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.98E-09 | -3.98E-09 | 2.93E-08 | 2.93E-08 | 2.93E-08 | 2.85E-08 | 2.93E-08 | 2.93E-08 |
| URI (ΔCDF) | -8.53E-09 | -8.17E-09 | -4.46E-09 | -4.06E-09 | -3.65E-09 | -3.21E-09 | -2.76E-09 | -2.28E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.30E-08** | **-1.20E-08** | **2.50E-08** | **2.50E-08** | **2.60E-08** | **2.50E-08** | **2.70E-08** | **2.70E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.16E-08 | -1.10E-08 | -1.16E-08 | -1.16E-08 | -1.14E-08 | -1.16E-08 | -1.30E-08 | -1.28E-08 |
| URI (ΔCDF) | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.74E-08 | -2.61E-08 | -2.61E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.90E-08** | **-3.80E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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** | **4Q/12** | **1Q/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.95E-09 | -1.95E-09 | -1.95E-09 | -8.98E-10 | -1.02E-09 | -1.05E-09 | -1.28E-09 | -1.17E-09 |
| URI (ΔCDF) | -2.15E-09 | -2.12E-09 | -2.09E-09 | -2.06E-09 | -2.03E-09 | -1.99E-09 | -1.96E-09 | -1.93E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-4.10E-09** | **-4.10E-09** | **-4.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.20E-09** | **-3.10E-09** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## 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 | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.12E-09 | 2.12E-09 | 2.15E-09 | 2.21E-09 | 2.21E-09 | 2.15E-09 | 1.71E-09 | 1.71E-09 |
| URI (ΔCDF) | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | -4.14E-09 | -4.14E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **-2.40E-09** | **-2.40E-09** |

Licensee Comments:

4Q/12: Changed PRA Parameter(s).

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | N/A | 0.000093 | 0.000107 | 0.000105 | 0.000107 | 0.000115 | 0.000115 | 0.000122 | 0.000112 | 0.000124 | 0.000129 | 0.000136 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **N/A** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| **Reactor Coolant System Activity** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000138 | 0.000145 | 0.000146 | 0.000153 | 0.000170 | 0.000185 | 0.000158 | 0.000074 | 0.000074 | 0.000086 | 0.000112 | 0.000085 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **10/12** | **11/12** | **12/12** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | N/A | 0.200 | 0.230 | 0.220 | 0.240 | 0.290 | 0.440 | 0.380 | 0.280 | 0.890 | 0.130 | 0.130 |
| 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** | **N/A** | **2.0** | **2.3** | **2.2** | **2.4** | **2.9** | **4.4** | **3.8** | **2.8** | **8.9** | **1.3** | **1.3** |
| **Reactor Coolant System Leakage** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** |
| Maximum leakage | 0.130 | 0.130 | 0.130 | 0.140 | 0.140 | 0.140 | 0.140 | 0.090 | 0.100 | 0.090 | 0.110 | 0.110 |
| 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** | **1.3** | **1.3** | **1.3** | **1.4** | **1.4** | **1.4** | **1.4** | **0.9** | **1.0** | **0.9** | **1.1** | **1.1** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 6.0 | 7.0 | 28.0 | 21.0 | 4.0 | 10.0 | 42.0 | 91.0 |
| Total opportunities | 6.0 | 7.0 | 28.0 | 21.0 | 4.0 | 11.0 | 44.0 | 92.0 |
| | | | | | | | | |
| **Indicator value** | **98.1%** | **98.7%** | **99.4%** | **99.4%** | **99.3%** | **98.6%** | **97.9%** | **98.1%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 173.0 | 175.0 | 184.0 | 186.0 | 175.0 | 166.0 | 165.0 | 162.0 |
| Total Key personnel | 173.0 | 175.0 | 184.0 | 187.0 | 178.0 | 172.0 | 167.0 | 162.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **99.5%** | **98.3%** | **96.5%** | **98.8%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

### Notes

| Alert & Notification System | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1560 | 1559 | 1560 | 1560 | 1680 | 1440 | 1560 | 1679 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1680 | 1440 | 1560 | 1680 |
| | | | | | | | | |
| **Indicator value** | **99.9%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Very high radiation area occurrences | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **1** | **1** | **2** | **2** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 4Q/12 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: November 3, 2014*

# Beaver Valley 2

## 4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 2159.0 | 1894.2 | 2208.0 | 2209.0 | 2159.0 | 1383.5 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2159.0 | 1894.2 | 2208.0 | 2209.0 | 2159.0 | 1383.5 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** |

Licensee Comments:

4Q/14: LER 2014-005-00 Containment was rendered inoperable due to the removal of the equipment hatch missile shield prior to Mode 5

## 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/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.59E-08 | -3.59E-08 | -1.67E-08 | -1.67E-08 | -1.71E-08 | -1.67E-08 | -1.67E-08 | -1.67E-08 |
| URI (ΔCDF) | -1.52E-07 | -1.49E-07 | -1.46E-07 | -1.43E-07 | -1.39E-07 | -1.36E-07 | -1.32E-07 | -1.28E-07 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.90E-07** | **-1.90E-07** | **-1.60E-07** | **-1.60E-07** | **-1.60E-07** | **-1.50E-07** | **-1.50E-07** | **-1.40E-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/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.98E-09 | 2.93E-08 | 2.93E-08 | 2.93E-08 | 2.85E-08 | 2.93E-08 | 2.93E-08 | 2.93E-08 |
| URI (ΔCDF) | -8.17E-09 | -4.46E-09 | -4.06E-09 | -3.65E-09 | -3.21E-09 | -2.76E-09 | -2.28E-09 | -1.79E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.20E-08** | **2.50E-08** | **2.50E-08** | **2.60E-08** | **2.50E-08** | **2.70E-08** | **2.70E-08** | **2.80E-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/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.10E-08 | -1.16E-08 | -1.16E-08 | -1.14E-08 | -1.16E-08 | -1.30E-08 | -1.28E-08 | -1.15E-08 |
| URI (ΔCDF) | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.74E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.80E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.80E-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/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.95E-09 | -1.95E-09 | -8.98E-10 | -1.02E-09 | -1.05E-09 | -1.28E-09 | -1.17E-09 | -1.11E-09 |
| URI (ΔCDF) | -2.12E-09 | -2.09E-09 | -2.06E-09 | -2.03E-09 | -1.99E-09 | -1.96E-09 | -1.93E-09 | -1.90E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-4.10E-09** | **-4.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.20E-09** | **-3.10E-09** | **-3.00E-09** |

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/13** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.12E-09 | 2.15E-09 | 2.21E-09 | 2.21E-09 | 2.15E-09 | 1.71E-09 | 1.71E-09 | 1.71E-09 |
| URI (ΔCDF) | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | -4.14E-09 | -4.14E-09 | -4.14E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** |

Licensee Comments: none

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000105 | 0.000107 | 0.000115 | 0.000115 | 0.000122 | 0.000112 | 0.000124 | 0.000129 | 0.000136 | 0.000138 | 0.000145 | 0.000146 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** |
| Maximum activity | 0.000153 | 0.000170 | 0.000185 | 0.000158 | 0.000074 | 0.000074 | 0.000086 | 0.000112 | 0.000085 | 0.000093 | 0.000088 | 0.000092 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **1/13** | **2/13** | **3/13** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.220 | 0.240 | 0.290 | 0.440 | 0.380 | 0.280 | 0.890 | 0.130 | 0.130 | 0.130 | 0.130 | 0.130 |
| 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** | **2.2** | **2.4** | **2.9** | **4.4** | **3.8** | **2.8** | **8.9** | **1.3** | **1.3** | **1.3** | **1.3** | **1.3** |
| **Reactor Coolant System Leakage** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** |
| Maximum leakage | 0.140 | 0.140 | 0.140 | 0.140 | 0.090 | 0.100 | 0.090 | 0.110 | 0.110 | 0.150 | 0.120 | 0.100 |
| 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** | **1.4** | **1.4** | **1.4** | **1.4** | **0.9** | **1.0** | **0.9** | **1.1** | **1.1** | **1.5** | **1.2** | **1.0** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 7.0 | 28.0 | 21.0 | 4.0 | 10.0 | 42.0 | 91.0 | 100.0 |
| Total opportunities | 7.0 | 28.0 | 21.0 | 4.0 | 11.0 | 44.0 | 92.0 | 102.0 |
| | | | | | | | | |
| **Indicator value** | **98.7%** | **99.4%** | **99.4%** | **99.3%** | **98.6%** | **97.9%** | **98.1%** | **98.1%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 175.0 | 184.0 | 186.0 | 175.0 | 166.0 | 165.0 | 162.0 | 173.0 |
| Total Key personnel | 175.0 | 184.0 | 187.0 | 178.0 | 172.0 | 167.0 | 162.0 | 173.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **99.5%** | **98.3%** | **96.5%** | **98.8%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1559 | 1560 | 1560 | 1680 | 1440 | 1560 | 1679 | 1554 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1680 | 1440 | 1560 | 1680 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **99.9%** |

Licensee Comments: none

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Very high radiation area occurrences | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **0** | **0** | **1** | **1** | **2** | **2** | **1** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: February 3, 2015*

# Beaver Valley 2

## 1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 1894.2 | 2208.0 | 2209.0 | 2159.0 | 1383.5 | 2208.0 | 2209.0 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.9** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1894.2 | 2208.0 | 2209.0 | 2159.0 | 1383.5 | 2208.0 | 2209.0 | 2159.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **1** |

Licensee Comments:

4Q/14: LER 2014-005-00 Containment was rendered inoperable due to the removal of the equipment hatch missile shield prior to Mode 5

## 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** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.59E-08 | -1.67E-08 | -1.67E-08 | -1.71E-08 | -1.67E-08 | -1.67E-08 | -1.67E-08 | -8.58E-09 |
| URI (ΔCDF) | -1.49E-07 | -1.46E-07 | -1.43E-07 | -1.39E-07 | -1.36E-07 | -1.32E-07 | -1.28E-07 | 8.17E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.90E-07** | **-1.60E-07** | **-1.60E-07** | **-1.60E-07** | **-1.50E-07** | **-1.50E-07** | **-1.40E-07** | **-7.80E-09** |

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** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.93E-08 | 2.93E-08 | 2.93E-08 | 2.85E-08 | 2.93E-08 | 2.93E-08 | 2.93E-08 | 2.94E-08 |
| URI (ΔCDF) | -4.46E-09 | -4.06E-09 | -3.65E-09 | -3.21E-09 | -2.76E-09 | -2.28E-09 | -1.79E-09 | -1.79E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.50E-08** | **2.50E-08** | **2.60E-08** | **2.50E-08** | **2.70E-08** | **2.70E-08** | **2.80E-08** | **2.80E-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** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.16E-08 | -1.16E-08 | -1.14E-08 | -1.16E-08 | -1.30E-08 | -1.28E-08 | -1.15E-08 | -1.19E-08 |
| URI (ΔCDF) | -2.75E-08 | -2.75E-08 | -2.75E-08 | -2.74E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.80E-08** | **-3.80E-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** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.95E-09 | -8.98E-10 | -1.02E-09 | -1.05E-09 | -1.28E-09 | -1.17E-09 | -1.11E-09 | -1.00E-09 |
| URI (ΔCDF) | -2.09E-09 | -2.06E-09 | -2.03E-09 | -1.99E-09 | -1.96E-09 | -1.93E-09 | -1.90E-09 | -1.90E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-4.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.20E-09** | **-3.10E-09** | **-3.00E-09** | **-2.90E-09** |

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** | **2Q/13** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.15E-09 | 2.21E-09 | 2.21E-09 | 2.15E-09 | 1.71E-09 | 1.71E-09 | 1.71E-09 | 1.72E-09 |
| URI (ΔCDF) | 1.01E-08 | 1.01E-08 | 1.01E-08 | 1.01E-08 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000115 | 0.000122 | 0.000112 | 0.000124 | 0.000129 | 0.000136 | 0.000138 | 0.000145 | 0.000146 | 0.000153 | 0.000170 | 0.000185 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** |
| **Reactor Coolant System Activity** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** |
| Maximum activity | 0.000158 | 0.000074 | 0.000074 | 0.000086 | 0.000112 | 0.000085 | 0.000093 | 0.000088 | 0.000092 | 0.000097 | 0.000100 | 0.000107 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **4/13** | **5/13** | **6/13** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.440 | 0.380 | 0.280 | 0.890 | 0.130 | 0.130 | 0.130 | 0.130 | 0.130 | 0.140 | 0.140 | 0.140 |
| 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** | **4.4** | **3.8** | **2.8** | **8.9** | **1.3** | **1.3** | **1.3** | **1.3** | **1.3** | **1.4** | **1.4** | **1.4** |
| **Reactor Coolant System Leakage** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** |
| Maximum leakage | 0.140 | 0.090 | 0.100 | 0.090 | 0.110 | 0.110 | 0.150 | 0.120 | 0.100 | 0.100 | 0.090 | 0.100 |
| 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** | **1.4** | **0.9** | **1.0** | **0.9** | **1.1** | **1.1** | **1.5** | **1.2** | **1.0** | **1.0** | **0.9** | **1.0** |

Licensee Comments: none

## Drill/Exercise Performance

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 28.0 | 21.0 | 4.0 | 10.0 | 42.0 | 91.0 | 100.0 | 58.0 |
| Total opportunities | 28.0 | 21.0 | 4.0 | 11.0 | 44.0 | 92.0 | 102.0 | 60.0 |
| | | | | | | | | |
| **Indicator value** | **99.4%** | **99.4%** | **99.3%** | **98.6%** | **97.9%** | **98.1%** | **98.1%** | **97.8%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 184.0 | 186.0 | 175.0 | 166.0 | 165.0 | 162.0 | 173.0 | 175.0 |
| Total Key personnel | 184.0 | 187.0 | 178.0 | 172.0 | 167.0 | 162.0 | 173.0 | 175.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **99.5%** | **98.3%** | **96.5%** | **98.8%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1560 | 1560 | 1680 | 1440 | 1560 | 1679 | 1554 | 1558 |
| Total sirens-tests | 1560 | 1560 | 1680 | 1440 | 1560 | 1680 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.9%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **99.9%** | **99.9%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Very high radiation area occurrences | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **0** | **1** | **1** | **2** | **2** | **1** | **1** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: April 23, 2015*

# Beaver Valley 2

## 2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2159.0 | 1383.5 | 2208.0 | 2209.0 | 2159.0 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.9** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 2208.0 | 2209.0 | 2159.0 | 1383.5 | 2208.0 | 2209.0 | 2159.0 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.8** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **1** | **1** | **1** |

Licensee Comments:

4Q/14: LER 2014-005-00 Containment was rendered inoperable due to the removal of the equipment hatch missile shield prior to Mode 5

## 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/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.67E-08 | -1.67E-08 | -1.71E-08 | -1.67E-08 | -1.67E-08 | -1.67E-08 | -8.58E-09 | -8.58E-09 |
| URI (ΔCDF) | -1.46E-07 | -1.43E-07 | -1.39E-07 | -1.36E-07 | -1.32E-07 | -1.28E-07 | 8.17E-10 | 8.17E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.60E-07** | **-1.60E-07** | **-1.60E-07** | **-1.50E-07** | **-1.50E-07** | **-1.40E-07** | **-7.80E-09** | **-7.80E-09** |

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 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.93E-08 | 2.93E-08 | 2.85E-08 | 2.93E-08 | 2.93E-08 | 2.93E-08 | 2.94E-08 | 2.94E-08 |
| URI (ΔCDF) | -4.06E-09 | -3.65E-09 | -3.21E-09 | -2.76E-09 | -2.28E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.50E-08** | **2.60E-08** | **2.50E-08** | **2.70E-08** | **2.70E-08** | **2.80E-08** | **2.80E-08** | **2.80E-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** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.16E-08 | -1.14E-08 | -1.16E-08 | -1.30E-08 | -1.28E-08 | -1.15E-08 | -1.19E-08 | -1.20E-08 |
| URI (ΔCDF) | -2.75E-08 | -2.75E-08 | -2.74E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.80E-08** | **-3.80E-08** | **-3.80E-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** | **3Q/13** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -8.98E-10 | -1.02E-09 | -1.05E-09 | -1.28E-09 | -1.17E-09 | -1.11E-09 | -1.00E-09 | -1.48E-09 |
| URI (ΔCDF) | -2.06E-09 | -2.03E-09 | -1.99E-09 | -1.96E-09 | -1.93E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.20E-09** | **-3.10E-09** | **-3.00E-09** | **-2.90E-09** | **-3.40E-09** |

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 | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.21E-09 | 2.21E-09 | 2.15E-09 | 1.71E-09 | 1.71E-09 | 1.71E-09 | 1.72E-09 | -1.34E-10 |
| URI (ΔCDF) | 1.01E-08 | 1.01E-08 | 1.01E-08 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **1.20E-08** | **1.20E-08** | **1.20E-08** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** | **-4.30E-09** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000124 | 0.000129 | 0.000136 | 0.000138 | 0.000145 | 0.000146 | 0.000153 | 0.000170 | 0.000185 | 0.000158 | 0.000074 | 0.000074 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** |
| Maximum activity | 0.000086 | 0.000112 | 0.000085 | 0.000093 | 0.000088 | 0.000092 | 0.000097 | 0.000100 | 0.000107 | 0.000103 | 0.000105 | 0.000116 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **7/13** | **8/13** | **9/13** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.890 | 0.130 | 0.130 | 0.130 | 0.130 | 0.130 | 0.140 | 0.140 | 0.140 | 0.140 | 0.090 | 0.100 |
| 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** | **8.9** | **1.3** | **1.3** | **1.3** | **1.3** | **1.3** | **1.4** | **1.4** | **1.4** | **1.4** | **0.9** | **1.0** |
| **Reactor Coolant System Leakage** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** |
| Maximum leakage | 0.090 | 0.110 | 0.110 | 0.150 | 0.120 | 0.100 | 0.100 | 0.090 | 0.100 | 0.100 | 0.100 | 0.090 |
| 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** | **0.9** | **1.1** | **1.1** | **1.5** | **1.2** | **1.0** | **1.0** | **0.9** | **1.0** | **1.0** | **1.0** | **0.9** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 21.0 | 4.0 | 10.0 | 42.0 | 91.0 | 100.0 | 58.0 | 36.0 |
| Total opportunities | 21.0 | 4.0 | 11.0 | 44.0 | 92.0 | 102.0 | 60.0 | 36.0 |
| | | | | | | | | |
| **Indicator value** | **99.4%** | **99.3%** | **98.6%** | **97.9%** | **98.1%** | **98.1%** | **97.8%** | **97.8%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 186.0 | 175.0 | 166.0 | 165.0 | 162.0 | 173.0 | 175.0 | 173.0 |
| Total Key personnel | 187.0 | 178.0 | 172.0 | 167.0 | 162.0 | 173.0 | 175.0 | 173.0 |
| | | | | | | | | |
| **Indicator value** | **99.5%** | **98.3%** | **96.5%** | **98.8%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1560 | 1680 | 1440 | 1560 | 1679 | 1554 | 1558 | 1560 |
| Total sirens-tests | 1560 | 1680 | 1440 | 1560 | 1680 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **99.9%** | **99.9%** | **99.9%** |

Licensee Comments: none

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Very high radiation area occurrences | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **1** | **1** | **2** | **2** | **1** | **1** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 3Q/13 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: July 24, 2015*

# Beaver Valley 2

## 3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 2159.0 | 1383.5 | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2088.4 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.9** | **0.9** | **0.9** | **0.9** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 2209.0 | 2159.0 | 1383.5 | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2088.4 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0.8** | **0.8** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **1** | **1** | **1** | **1** |

Licensee Comments:

4Q/14: LER 2014-005-00 Containment was rendered inoperable due to the removal of the equipment hatch missile shield prior to Mode 5

## 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** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.67E-08 | -1.71E-08 | -1.67E-08 | -1.67E-08 | -1.67E-08 | -8.58E-09 | -8.58E-09 | -8.64E-09 |
| URI (ΔCDF) | -1.43E-07 | -1.39E-07 | -1.36E-07 | -1.32E-07 | -1.28E-07 | 8.17E-10 | 8.17E-10 | 8.17E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.60E-07** | **-1.60E-07** | **-1.50E-07** | **-1.50E-07** | **-1.40E-07** | **-7.80E-09** | **-7.80E-09** | **-7.80E-09** |

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 | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.93E-08 | 2.85E-08 | 2.93E-08 | 2.93E-08 | 2.93E-08 | 2.94E-08 | 2.94E-08 | 2.93E-08 |
| URI (ΔCDF) | -3.65E-09 | -3.21E-09 | -2.76E-09 | -2.28E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.60E-08** | **2.50E-08** | **2.70E-08** | **2.70E-08** | **2.80E-08** | **2.80E-08** | **2.80E-08** | **2.80E-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** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.14E-08 | -1.16E-08 | -1.30E-08 | -1.28E-08 | -1.15E-08 | -1.19E-08 | -1.20E-08 | -1.05E-08 |
| URI (ΔCDF) | -2.75E-08 | -2.74E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** | **-3.70E-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** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.02E-09 | -1.05E-09 | -1.28E-09 | -1.17E-09 | -1.11E-09 | -1.00E-09 | -1.48E-09 | -1.88E-09 |
| URI (ΔCDF) | -2.03E-09 | -1.99E-09 | -1.96E-09 | -1.93E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.00E-09** | **-3.00E-09** | **-3.20E-09** | **-3.10E-09** | **-3.00E-09** | **-2.90E-09** | **-3.40E-09** | **-3.80E-09** |

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** | **4Q/13** | **1Q/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.21E-09 | 2.15E-09 | 1.71E-09 | 1.71E-09 | 1.71E-09 | 1.72E-09 | -1.34E-10 | -3.71E-10 |
| URI (ΔCDF) | 1.01E-08 | 1.01E-08 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **1.20E-08** | **1.20E-08** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** | **-4.30E-09** | **-4.50E-09** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000138 | 0.000145 | 0.000146 | 0.000153 | 0.000170 | 0.000185 | 0.000158 | 0.000074 | 0.000074 | 0.000086 | 0.000112 | 0.000085 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** |

| **Reactor Coolant System Activity** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** | **7/15** | **8/15** | **9/15** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000093 | 0.000088 | 0.000092 | 0.000097 | 0.000100 | 0.000107 | 0.000103 | 0.000105 | 0.000116 | 0.000117 | 0.000118 | 0.000149 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **10/13** | **11/13** | **12/13** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.130 | 0.130 | 0.130 | 0.140 | 0.140 | 0.140 | 0.140 | 0.090 | 0.100 | 0.090 | 0.110 | 0.110 |
| 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** | **1.3** | **1.3** | **1.3** | **1.4** | **1.4** | **1.4** | **1.4** | **0.9** | **1.0** | **0.9** | **1.1** | **1.1** |
| **Reactor Coolant System Leakage** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** | **7/15** | **8/15** | **9/15** |
| Maximum leakage | 0.150 | 0.120 | 0.100 | 0.100 | 0.090 | 0.100 | 0.100 | 0.100 | 0.090 | 0.110 | 0.110 | 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** | **1.5** | **1.2** | **1.0** | **1.0** | **0.9** | **1.0** | **1.0** | **1.0** | **0.9** | **1.1** | **1.1** | **1.2** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 4.0 | 10.0 | 42.0 | 91.0 | 100.0 | 58.0 | 36.0 | 106.0 |
| Total opportunities | 4.0 | 11.0 | 44.0 | 92.0 | 102.0 | 60.0 | 36.0 | 108.0 |
| | | | | | | | | |
| **Indicator value** | **99.3%** | **98.6%** | **97.9%** | **98.1%** | **98.1%** | **97.8%** | **97.8%** | **97.8%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 175.0 | 166.0 | 165.0 | 162.0 | 173.0 | 175.0 | 173.0 | 165.0 |
| Total Key personnel | 178.0 | 172.0 | 167.0 | 162.0 | 173.0 | 175.0 | 173.0 | 165.0 |
| | | | | | | | | |
| **Indicator value** | **98.3%** | **96.5%** | **98.8%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Alert & Notification System

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1680 | 1440 | 1560 | 1679 | 1554 | 1558 | 1560 | 1560 |
| Total sirens-tests | 1680 | 1440 | 1560 | 1680 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** |

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Occupational Exposure Control Effectiveness | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Very high radiation area occurrences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **1** | **1** | **2** | **2** | **1** | **1** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

## Notes

| RETS/ODCM Radiological Effluent | 4Q/13 | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: December 15, 2015*

# Beaver Valley 2

## 4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2159.0 | 1383.5 | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2088.4 | 1523.1 |
| | | | | | | | | |
| **Indicator value** | **0** | **0.9** | **0.9** | **0.9** | **0.9** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 2159.0 | 1383.5 | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2088.4 | 1523.1 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0.8** | **0.8** | **0.9** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 |
|---|---|---|---|---|---|---|---|---|
| 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

**Thresholds: White > 5.0**

## Notes

| Safety System Functional Failures (PWR) | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **1** | **1** | **1** | **1** | **0** |

Licensee Comments:

4Q/14: LER 2014-005-00 Containment was rendered inoperable due to the removal of the equipment hatch missile shield prior to Mode 5

## 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/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.71E-08 | -1.67E-08 | -1.67E-08 | -1.67E-08 | -8.58E-09 | -8.58E-09 | -8.64E-09 | -8.71E-09 |
| URI (ΔCDF) | -1.39E-07 | -1.36E-07 | -1.32E-07 | -1.28E-07 | 8.17E-10 | 8.17E-10 | 8.17E-10 | 8.17E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.60E-07** | **-1.50E-07** | **-1.50E-07** | **-1.40E-07** | **-7.80E-09** | **-7.80E-09** | **-7.80E-09** | **-7.90E-09** |

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/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.85E-08 | 2.93E-08 | 2.93E-08 | 2.93E-08 | 2.94E-08 | 2.94E-08 | 2.93E-08 | 2.92E-08 |
| URI (ΔCDF) | -3.21E-09 | -2.76E-09 | -2.28E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.50E-08** | **2.70E-08** | **2.70E-08** | **2.80E-08** | **2.80E-08** | **2.80E-08** | **2.80E-08** | **2.70E-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/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.16E-08 | -1.30E-08 | -1.28E-08 | -1.15E-08 | -1.19E-08 | -1.20E-08 | -1.05E-08 | -9.89E-09 |
| URI (ΔCDF) | -2.74E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.90E-08** | **-3.90E-08** | **-3.90E-08** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** | **-3.70E-08** | **-3.60E-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/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.05E-09 | -1.28E-09 | -1.17E-09 | -1.11E-09 | -1.00E-09 | -1.48E-09 | -1.88E-09 | -1.76E-09 |
| URI (ΔCDF) | -1.99E-09 | -1.96E-09 | -1.93E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.00E-09** | **-3.20E-09** | **-3.10E-09** | **-3.00E-09** | **-2.90E-09** | **-3.40E-09** | **-3.80E-09** | **-3.70E-09** |

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/14** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.15E-09 | 1.71E-09 | 1.71E-09 | 1.71E-09 | 1.72E-09 | -1.34E-10 | -3.71E-10 | -3.71E-10 |
| URI (ΔCDF) | 1.01E-08 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **1.20E-08** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** | **-4.30E-09** | **-4.50E-09** | **-4.50E-09** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000153 | 0.000170 | 0.000185 | 0.000158 | 0.000074 | 0.000074 | 0.000086 | 0.000112 | 0.000085 | 0.000093 | 0.000088 | 0.000092 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** | **7/15** | **8/15** | **9/15** | **10/15** | **11/15** | **12/15** |
| Maximum activity | 0.000097 | 0.000100 | 0.000107 | 0.000103 | 0.000105 | 0.000116 | 0.000117 | 0.000118 | 0.000149 | 0.000017 | 0.000068 | 0.000080 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **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** | **1/14** | **2/14** | **3/14** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.140 | 0.140 | 0.140 | 0.140 | 0.090 | 0.100 | 0.090 | 0.110 | 0.110 | 0.150 | 0.120 | 0.100 |
| 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** | **1.4** | **1.4** | **1.4** | **1.4** | **0.9** | **1.0** | **0.9** | **1.1** | **1.1** | **1.5** | **1.2** | **1.0** |
| **Reactor Coolant System Leakage** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** | **7/15** | **8/15** | **9/15** | **10/15** | **11/15** | **12/15** |
| Maximum leakage | 0.100 | 0.090 | 0.100 | 0.100 | 0.100 | 0.090 | 0.110 | 0.110 | 0.120 | N/A | 0.090 | 0.090 |
| 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** | **1.0** | **0.9** | **1.0** | **1.0** | **1.0** | **0.9** | **1.1** | **1.1** | **1.2** | **N/A** | **0.9** | **0.9** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 10.0 | 42.0 | 91.0 | 100.0 | 58.0 | 36.0 | 106.0 | 17.0 |
| Total opportunities | 11.0 | 44.0 | 92.0 | 102.0 | 60.0 | 36.0 | 108.0 | 18.0 |
| | | | | | | | | |
| **Indicator value** | **98.6%** | **97.9%** | **98.1%** | **98.1%** | **97.8%** | **97.8%** | **97.8%** | **97.7%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 166.0 | 165.0 | 162.0 | 173.0 | 175.0 | 173.0 | 165.0 | 161.0 |
| Total Key personnel | 172.0 | 167.0 | 162.0 | 173.0 | 175.0 | 173.0 | 165.0 | 161.0 |
| | | | | | | | | |
| **Indicator value** | **96.5%** | **98.8%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1440 | 1560 | 1679 | 1554 | 1558 | 1560 | 1560 | 1559 |
| Total sirens-tests | 1440 | 1560 | 1680 | 1560 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **100.0%** |

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Occupational Exposure Control Effectiveness | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 0 | 1 | 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** | **1** | **2** | **2** | **1** | **1** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 1Q/14 | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: March 1, 2016*

# Beaver Valley 2

## 1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1383.5 | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2088.4 | 1523.1 | 1987.2 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0.9** | **0.9** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 1383.5 | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2088.4 | 1523.1 | 1987.2 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0.8** | **0.8** | **0.9** | **0.9** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 |
|---|---|---|---|---|---|---|---|---|
| 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

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **1** | **1** | **1** | **1** | **0** | **0** |

Licensee Comments:

4Q/14: LER 2014-005-00 Containment was rendered inoperable due to the removal of the equipment hatch missile shield prior to Mode 5

## 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** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.67E-08 | -1.67E-08 | -1.67E-08 | -8.58E-09 | -8.58E-09 | -8.64E-09 | -8.71E-09 | -1.62E-09 |
| URI (ΔCDF) | -1.36E-07 | -1.32E-07 | -1.28E-07 | 8.17E-10 | 8.17E-10 | 8.17E-10 | 8.17E-10 | 4.57E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.50E-07** | **-1.50E-07** | **-1.40E-07** | **-7.80E-09** | **-7.80E-09** | **-7.80E-09** | **-7.90E-09** | **-1.20E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.93E-08 | 2.93E-08 | 2.93E-08 | 2.94E-08 | 2.94E-08 | 2.93E-08 | 2.92E-08 | 1.21E-08 |
| URI (ΔCDF) | -2.76E-09 | -2.28E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -7.16E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.70E-08** | **2.70E-08** | **2.80E-08** | **2.80E-08** | **2.80E-08** | **2.80E-08** | **2.70E-08** | **1.10E-08** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.30E-08 | -1.28E-08 | -1.15E-08 | -1.19E-08 | -1.20E-08 | -1.05E-08 | -9.89E-09 | -1.60E-08 |
| URI (ΔCDF) | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -3.44E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.90E-08** | **-3.90E-08** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** | **-3.70E-08** | **-3.60E-08** | **-5.00E-08** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.28E-09 | -1.17E-09 | -1.11E-09 | -1.00E-09 | -1.48E-09 | -1.88E-09 | -1.76E-09 | -1.45E-09 |
| URI (ΔCDF) | -1.96E-09 | -1.93E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.65E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.20E-09** | **-3.10E-09** | **-3.00E-09** | **-2.90E-09** | **-3.40E-09** | **-3.80E-09** | **-3.70E-09** | **-3.10E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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** | **2Q/14** | **3Q/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.71E-09 | 1.71E-09 | 1.71E-09 | 1.72E-09 | -1.34E-10 | -3.71E-10 | -3.71E-10 | -1.67E-10 |
| URI (ΔCDF) | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -1.78E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** | **-4.30E-09** | **-4.50E-09** | **-4.50E-09** | **-1.90E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000158 | 0.000074 | 0.000074 | 0.000086 | 0.000112 | 0.000085 | 0.000093 | 0.000088 | 0.000092 | 0.000097 | 0.000100 | 0.000107 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **4/15** | **5/15** | **6/15** | **7/15** | **8/15** | **9/15** | **10/15** | **11/15** | **12/15** | **1/16** | **2/16** | **3/16** |
| Maximum activity | 0.000103 | 0.000105 | 0.000116 | 0.000117 | 0.000118 | 0.000149 | 0.000017 | 0.000068 | 0.000080 | 0.000085 | 0.000087 | 0.000087 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **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** | **4/14** | **5/14** | **6/14** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.140 | 0.090 | 0.100 | 0.090 | 0.110 | 0.110 | 0.150 | 0.120 | 0.100 | 0.100 | 0.090 | 0.100 |
| 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** | **1.4** | **0.9** | **1.0** | **0.9** | **1.1** | **1.1** | **1.5** | **1.2** | **1.0** | **1.0** | **0.9** | **1.0** |
| **Reactor Coolant System Leakage** | **4/15** | **5/15** | **6/15** | **7/15** | **8/15** | **9/15** | **10/15** | **11/15** | **12/15** | **1/16** | **2/16** | **3/16** |
| Maximum leakage | 0.100 | 0.100 | 0.090 | 0.110 | 0.110 | 0.120 | N/A | 0.090 | 0.090 | 0.090 | 0.090 | 0.100 |
| 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** | **1.0** | **1.0** | **0.9** | **1.1** | **1.1** | **1.2** | **N/A** | **0.9** | **0.9** | **0.9** | **0.9** | **1.0** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 42.0 | 91.0 | 100.0 | 58.0 | 36.0 | 106.0 | 17.0 | 62.0 |
| Total opportunities | 44.0 | 92.0 | 102.0 | 60.0 | 36.0 | 108.0 | 18.0 | 62.0 |
| | | | | | | | | |
| **Indicator value** | **97.9%** | **98.1%** | **98.1%** | **97.8%** | **97.8%** | **97.8%** | **97.7%** | **98.1%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 165.0 | 162.0 | 173.0 | 175.0 | 173.0 | 165.0 | 161.0 | 168.0 |
| Total Key personnel | 167.0 | 162.0 | 173.0 | 175.0 | 173.0 | 165.0 | 161.0 | 168.0 |
| | | | | | | | | |
| **Indicator value** | **98.8%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1560 | 1679 | 1554 | 1558 | 1560 | 1560 | 1559 | 1558 |
| Total sirens-tests | 1560 | 1680 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** |

Licensee Comments: none

## Notes

| Occupational Exposure Control Effectiveness | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 |
|---|---|---|---|---|---|---|---|---|
| High radiation area occurrences | 1 | 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** | **2** | **2** | **1** | **1** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 2Q/14 | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: April 23, 2016*

# Beaver Valley 2

## 2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2088.4 | 1523.1 | 1987.2 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0.9** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 2208.0 | 2209.0 | 2159.0 | 2184.0 | 2088.4 | 1523.1 | 1987.2 | 2184.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0.8** | **0.8** | **0.9** | **0.9** | **0** |

Licensee Comments: none

## Unplanned Scrams with Complications

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 |
|---|---|---|---|---|---|---|---|---|
| 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

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **1** | **1** | **1** | **1** | **0** | **0** | **0** |

Licensee Comments:

4Q/14: LER 2014-005-00 Containment was rendered inoperable due to the removal of the equipment hatch missile shield prior to Mode 5

## 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/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.67E-08 | -1.67E-08 | -8.58E-09 | -8.58E-09 | -8.64E-09 | -8.71E-09 | -1.62E-09 | -1.70E-09 |
| URI (ΔCDF) | -1.32E-07 | -1.28E-07 | 8.17E-10 | 8.17E-10 | 8.17E-10 | 8.17E-10 | 4.57E-10 | 4.57E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.50E-07** | **-1.40E-07** | **-7.80E-09** | **-7.80E-09** | **-7.80E-09** | **-7.90E-09** | **-1.20E-09** | **-1.20E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.93E-08 | 2.93E-08 | 2.94E-08 | 2.94E-08 | 2.93E-08 | 2.92E-08 | 1.21E-08 | -1.33E-09 |
| URI (ΔCDF) | -2.28E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -7.16E-10 | -1.22E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.70E-08** | **2.80E-08** | **2.80E-08** | **2.80E-08** | **2.80E-08** | **2.70E-08** | **1.10E-08** | **-2.60E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.28E-08 | -1.15E-08 | -1.19E-08 | -1.20E-08 | -1.05E-08 | -9.89E-09 | -1.60E-08 | -1.73E-08 |
| URI (ΔCDF) | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -3.44E-08 | -3.44E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.90E-08** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** | **-3.70E-08** | **-3.60E-08** | **-5.00E-08** | **-5.20E-08** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.17E-09 | -1.11E-09 | -1.00E-09 | -1.48E-09 | -1.88E-09 | -1.76E-09 | -1.45E-09 | -1.69E-09 |
| URI (ΔCDF) | -1.93E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.65E-09 | -1.65E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.10E-09** | **-3.00E-09** | **-2.90E-09** | **-3.40E-09** | **-3.80E-09** | **-3.70E-09** | **-3.10E-09** | **-3.30E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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/14** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.71E-09 | 1.71E-09 | 1.72E-09 | -1.34E-10 | -3.71E-10 | -3.71E-10 | -1.67E-10 | -1.65E-10 |
| URI (ΔCDF) | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -1.78E-09 | -1.78E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.40E-09** | **-2.40E-09** | **-2.40E-09** | **-4.30E-09** | **-4.50E-09** | **-4.50E-09** | **-1.90E-09** | **-1.90E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000086 | 0.000112 | 0.000085 | 0.000093 | 0.000088 | 0.000092 | 0.000097 | 0.000100 | 0.000107 | 0.000103 | 0.000105 | 0.000116 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **7/15** | **8/15** | **9/15** | **10/15** | **11/15** | **12/15** | **1/16** | **2/16** | **3/16** | **4/16** | **5/16** | **6/16** |
| Maximum activity | 0.000117 | 0.000118 | 0.000149 | 0.000017 | 0.000068 | 0.000080 | 0.000085 | 0.000087 | 0.000087 | 0.000090 | 0.000090 | 0.000091 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **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** | **7/14** | **8/14** | **9/14** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.090 | 0.110 | 0.110 | 0.150 | 0.120 | 0.100 | 0.100 | 0.090 | 0.100 | 0.100 | 0.100 | 0.090 |
| 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** | **0.9** | **1.1** | **1.1** | **1.5** | **1.2** | **1.0** | **1.0** | **0.9** | **1.0** | **1.0** | **1.0** | **0.9** |
| **Reactor Coolant System Leakage** | **7/15** | **8/15** | **9/15** | **10/15** | **11/15** | **12/15** | **1/16** | **2/16** | **3/16** | **4/16** | **5/16** | **6/16** |
| Maximum leakage | 0.110 | 0.110 | 0.120 | N/A | 0.090 | 0.090 | 0.090 | 0.090 | 0.100 | 0.100 | 0.110 | 0.090 |
| 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** | **1.1** | **1.1** | **1.2** | **N/A** | **0.9** | **0.9** | **0.9** | **0.9** | **1.0** | **1.0** | **1.1** | **0.9** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 91.0 | 100.0 | 58.0 | 36.0 | 106.0 | 17.0 | 62.0 | 68.0 |
| Total opportunities | 92.0 | 102.0 | 60.0 | 36.0 | 108.0 | 18.0 | 62.0 | 71.0 |
| | | | | | | | | |
| **Indicator value** | **98.1%** | **98.1%** | **97.8%** | **97.8%** | **97.8%** | **97.7%** | **98.1%** | **98.0%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 162.0 | 173.0 | 175.0 | 173.0 | 165.0 | 161.0 | 168.0 | 170.0 |
| Total Key personnel | 162.0 | 173.0 | 175.0 | 173.0 | 165.0 | 161.0 | 168.0 | 170.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1679 | 1554 | 1558 | 1560 | 1560 | 1559 | 1558 | 1559 |
| Total sirens-tests | 1680 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **99.9%** |

Licensee Comments: none

## Occupational Exposure Control Effectiveness

**Thresholds: White > 2.0 Yellow > 5.0**

## Notes

| Occupational Exposure Control Effectiveness | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 |
|---|---|---|---|---|---|---|---|---|
| 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** | **2** | **1** | **1** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 3Q/14 | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: July 25, 2016*

# Beaver Valley 2

## 3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2209.0 | 2159.0 | 2184.0 | 2088.4 | 1523.1 | 1987.2 | 2184.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0.9** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| Critical hours | 2209.0 | 2159.0 | 2184.0 | 2088.4 | 1523.1 | 1987.2 | 2184.0 | 2208.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0.8** | **0.8** | **0.9** | **0.9** | **0** | **0.9** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|---|---|---|---|---|---|---|---|
| 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

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **1** | **1** | **1** | **1** | **0** | **0** | **0** | **0** |

Licensee Comments:

4Q/14: LER 2014-005-00 Containment was rendered inoperable due to the removal of the equipment hatch missile shield prior to Mode 5

## 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** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.67E-08 | -8.58E-09 | -8.58E-09 | -8.64E-09 | -8.71E-09 | -1.62E-09 | -1.70E-09 | -6.47E-09 |
| URI (ΔCDF) | -1.28E-07 | 8.17E-10 | 8.17E-10 | 8.17E-10 | 8.17E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-1.40E-07** | **-7.80E-09** | **-7.80E-09** | **-7.80E-09** | **-7.90E-09** | **-1.20E-09** | **-1.20E-09** | **-6.00E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.93E-08 | 2.94E-08 | 2.94E-08 | 2.93E-08 | 2.92E-08 | 1.21E-08 | -1.33E-09 | -1.33E-09 |
| URI (ΔCDF) | -1.79E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -7.16E-10 | -1.22E-09 | -1.22E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.80E-08** | **2.80E-08** | **2.80E-08** | **2.80E-08** | **2.70E-08** | **1.10E-08** | **-2.60E-09** | **-2.60E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.15E-08 | -1.19E-08 | -1.20E-08 | -1.05E-08 | -9.89E-09 | -1.60E-08 | -1.73E-08 | -1.73E-08 |
| URI (ΔCDF) | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.80E-08** | **-3.80E-08** | **-3.80E-08** | **-3.70E-08** | **-3.60E-08** | **-5.00E-08** | **-5.20E-08** | **-5.20E-08** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.11E-09 | -1.00E-09 | -1.48E-09 | -1.88E-09 | -1.76E-09 | -1.45E-09 | -1.69E-09 | -1.69E-09 |
| URI (ΔCDF) | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.00E-09** | **-2.90E-09** | **-3.40E-09** | **-3.80E-09** | **-3.70E-09** | **-3.10E-09** | **-3.30E-09** | **-3.30E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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** | **4Q/14** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.71E-09 | 1.72E-09 | -1.34E-10 | -3.71E-10 | -3.71E-10 | -1.67E-10 | -1.67E-10 | -1.95E-10 |
| URI (ΔCDF) | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.40E-09** | **-2.40E-09** | **-4.30E-09** | **-4.50E-09** | **-4.50E-09** | **-1.90E-09** | **-1.90E-09** | **-2.00E-09** |

Licensee Comments:

2Q/16: Previously reported value for Segment "F" 2016-05 was in error. The change has no impact on GREEN status. Reference Condition Report 2016-09566

1Q/16: Changed PRA Parameter(s).

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** | **7/15** | **8/15** | **9/15** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000093 | 0.000088 | 0.000092 | 0.000097 | 0.000100 | 0.000107 | 0.000103 | 0.000105 | 0.000116 | 0.000117 | 0.000118 | 0.000149 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **10/15** | **11/15** | **12/15** | **1/16** | **2/16** | **3/16** | **4/16** | **5/16** | **6/16** | **7/16** | **8/16** | **9/16** |
| Maximum activity | 0.000017 | 0.000068 | 0.000080 | 0.000085 | 0.000087 | 0.000087 | 0.000090 | 0.000090 | 0.000091 | 0.000090 | 0.000091 | 0.000100 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **10/14** | **11/14** | **12/14** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** | **7/15** | **8/15** | **9/15** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.150 | 0.120 | 0.100 | 0.100 | 0.090 | 0.100 | 0.100 | 0.100 | 0.090 | 0.110 | 0.110 | 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** | **1.5** | **1.2** | **1.0** | **1.0** | **0.9** | **1.0** | **1.0** | **1.0** | **0.9** | **1.1** | **1.1** | **1.2** |
| **Reactor Coolant System Leakage** | **10/15** | **11/15** | **12/15** | **1/16** | **2/16** | **3/16** | **4/16** | **5/16** | **6/16** | **7/16** | **8/16** | **9/16** |
| Maximum leakage | N/A | 0.090 | 0.090 | 0.090 | 0.090 | 0.100 | 0.100 | 0.110 | 0.090 | 0.100 | 0.100 | 0.100 |
| 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** | **N/A** | **0.9** | **0.9** | **0.9** | **0.9** | **1.0** | **1.0** | **1.1** | **0.9** | **1.0** | **1.0** | **1.0** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 100.0 | 58.0 | 36.0 | 106.0 | 17.0 | 62.0 | 68.0 | 39.0 |
| Total opportunities | 102.0 | 60.0 | 36.0 | 108.0 | 18.0 | 62.0 | 71.0 | 40.0 |
| | | | | | | | | |
| **Indicator value** | **98.1%** | **97.8%** | **97.8%** | **97.8%** | **97.7%** | **98.1%** | **98.0%** | **97.8%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 173.0 | 175.0 | 173.0 | 165.0 | 161.0 | 168.0 | 170.0 | 166.0 |
| Total Key personnel | 173.0 | 175.0 | 173.0 | 165.0 | 161.0 | 168.0 | 170.0 | 166.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1554 | 1558 | 1560 | 1560 | 1559 | 1558 | 1559 | 1560 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.9%** | **99.9%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **99.9%** | **99.9%** |

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Occupational Exposure Control Effectiveness | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|---|---|---|---|---|---|---|---|
| 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** | **1** | **1** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 1.0 Yellow > 3.0**

## Notes

| RETS/ODCM Radiological Effluent | 4Q/14 | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: October 23, 2016*

# Beaver Valley 2

## 4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2159.0 | 2184.0 | 2088.4 | 1523.1 | 1987.2 | 2184.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0.9** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 6.0**

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 1.0 | 0 | 0 | 0 | 0 | 1.0 | 0 |
| Critical hours | 2159.0 | 2184.0 | 2088.4 | 1523.1 | 1987.2 | 2184.0 | 2208.0 | 2209.0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0.8** | **0.8** | **0.9** | **0.9** | **0** | **0.9** | **0.8** |

Licensee Comments: none

**Thresholds: White > 1.0**

## Notes

| Unplanned Scrams with Complications | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 |
|---|---|---|---|---|---|---|---|---|
| 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

Thresholds: White > 5.0

## Notes

| Safety System Functional Failures (PWR) | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 |
|---|---|---|---|---|---|---|---|---|
| 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** | **1Q/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** | **4Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -8.58E-09 | -8.58E-09 | -8.64E-09 | -8.71E-09 | -1.62E-09 | -1.70E-09 | -6.47E-09 | -6.47E-09 |
| URI (ΔCDF) | 8.17E-10 | 8.17E-10 | 8.17E-10 | 8.17E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-7.80E-09** | **-7.80E-09** | **-7.80E-09** | **-7.90E-09** | **-1.20E-09** | **-1.20E-09** | **-6.00E-09** | **-6.00E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** | **4Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.94E-08 | 2.94E-08 | 2.93E-08 | 2.92E-08 | 1.21E-08 | -1.33E-09 | -1.33E-09 | -1.33E-09 |
| URI (ΔCDF) | -1.79E-09 | -1.79E-09 | -1.79E-09 | -1.79E-09 | -7.16E-10 | -1.22E-09 | -1.22E-09 | -1.22E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **2.80E-08** | **2.80E-08** | **2.80E-08** | **2.70E-08** | **1.10E-08** | **-2.60E-09** | **-2.60E-09** | **-2.60E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** | **4Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.19E-08 | -1.20E-08 | -1.05E-08 | -9.89E-09 | -1.60E-08 | -1.73E-08 | -1.73E-08 | -1.73E-08 |
| URI (ΔCDF) | -2.61E-08 | -2.61E-08 | -2.61E-08 | -2.61E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-3.80E-08** | **-3.80E-08** | **-3.70E-08** | **-3.60E-08** | **-5.00E-08** | **-5.20E-08** | **-5.20E-08** | **-5.20E-08** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** | **4Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.00E-09 | -1.48E-09 | -1.88E-09 | -1.76E-09 | -1.45E-09 | -1.69E-09 | -1.69E-09 | -1.69E-09 |
| URI (ΔCDF) | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.90E-09** | **-3.40E-09** | **-3.80E-09** | **-3.70E-09** | **-3.10E-09** | **-3.30E-09** | **-3.30E-09** | **-3.30E-09** |

Licensee Comments:

1Q/16: Changed PRA Parameter(s).

## 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/15** | **2Q/15** | **3Q/15** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** | **4Q/16** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.72E-09 | -1.34E-10 | -3.71E-10 | -3.71E-10 | -1.67E-10 | -1.67E-10 | -1.95E-10 | -1.95E-10 |
| URI (ΔCDF) | -4.14E-09 | -4.14E-09 | -4.14E-09 | -4.14E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | | | | | | |
| **Indicator value** | **-2.40E-09** | **-4.30E-09** | **-4.50E-09** | **-4.50E-09** | **-1.90E-09** | **-1.90E-09** | **-2.00E-09** | **-2.00E-09** |

Licensee Comments:

2Q/16: Previously reported value for Segment "F" 2016-05 was in error. The change has no impact on GREEN status. Reference Condition Report 2016-09566

1Q/16: Changed PRA Parameter(s).

## Reactor Coolant System Activity

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Activity** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** | **7/15** | **8/15** | **9/15** | **10/15** | **11/15** | **12/15** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000097 | 0.000100 | 0.000107 | 0.000103 | 0.000105 | 0.000116 | 0.000117 | 0.000118 | 0.000149 | 0.000017 | 0.000068 | 0.000080 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Reactor Coolant System Activity** | **1/16** | **2/16** | **3/16** | **4/16** | **5/16** | **6/16** | **7/16** | **8/16** | **9/16** | **10/16** | **11/16** | **12/16** |
| Maximum activity | 0.000085 | 0.000087 | 0.000087 | 0.000090 | 0.000090 | 0.000091 | 0.000090 | 0.000091 | 0.000100 | 0.000105 | 0.000111 | 0.000107 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | | | | | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

| **Reactor Coolant System Leakage** | **1/15** | **2/15** | **3/15** | **4/15** | **5/15** | **6/15** | **7/15** | **8/15** | **9/15** | **10/15** | **11/15** | **12/15** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.100 | 0.090 | 0.100 | 0.100 | 0.100 | 0.090 | 0.110 | 0.110 | 0.120 | N/A | 0.090 | 0.090 |
| 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** | **1.0** | **0.9** | **1.0** | **1.0** | **1.0** | **0.9** | **1.1** | **1.1** | **1.2** | **N/A** | **0.9** | **0.9** |
| **Reactor Coolant System Leakage** | **1/16** | **2/16** | **3/16** | **4/16** | **5/16** | **6/16** | **7/16** | **8/16** | **9/16** | **10/16** | **11/16** | **12/16** |
| Maximum leakage | 0.090 | 0.090 | 0.100 | 0.100 | 0.110 | 0.090 | 0.100 | 0.100 | 0.100 | 0.110 | 0.100 | 0.110 |
| 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** | **0.9** | **0.9** | **1.0** | **1.0** | **1.1** | **0.9** | **1.0** | **1.0** | **1.0** | **1.1** | **1.0** | **1.1** |

Licensee Comments: none

**Thresholds: White < 90.0% Yellow < 70.0%**

## Notes

| Drill/Exercise Performance | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 58.0 | 36.0 | 106.0 | 17.0 | 62.0 | 68.0 | 39.0 | 42.0 |
| Total opportunities | 60.0 | 36.0 | 108.0 | 18.0 | 62.0 | 71.0 | 40.0 | 43.0 |
| | | | | | | | | |
| **Indicator value** | **97.8%** | **97.8%** | **97.8%** | **97.7%** | **98.1%** | **98.0%** | **97.8%** | **97.7%** |

Licensee Comments: none

**Thresholds: White < 80.0% Yellow < 60.0%**

## Notes

| ERO Drill Participation | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 175.0 | 173.0 | 165.0 | 161.0 | 168.0 | 170.0 | 166.0 | 170.0 |
| Total Key personnel | 175.0 | 173.0 | 165.0 | 161.0 | 168.0 | 170.0 | 166.0 | 170.0 |
| | | | | | | | | |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Licensee Comments: none

**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

| Alert & Notification System | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1558 | 1560 | 1560 | 1559 | 1558 | 1559 | 1560 | 1560 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| | | | | | | | | |
| **Indicator value** | **99.9%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **99.9%** | **99.9%** | **100.0%** |

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Occupational Exposure Control Effectiveness | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 |
|---|---|---|---|---|---|---|---|---|
| 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** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

## Notes

| RETS/ODCM Radiological Effluent | 1Q/15 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Licensee Comments: none

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Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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Action Matrix Summary | Inspection Findings Summary | PI Summary | Reactor Oversight Process

*Last Modified: January 24, 2017*

United States Nuclear Regulatory Commission
*Protecting People and the Environment*



# Beaver Valley 2 – Quarterly Performance Indicators

## 1Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:


- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

## Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

| Unplanned Scrams per 7000 Critical Hrs | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2184.0 | 2088.4 | 1523.1 | 1987.2 | 2184.0 | 2208.0 | 2209.0 | 2159.0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 1.0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 |
| Critical hours | 2184.0 | 2088.4 | 1523.1 | 1987.2 | 2184.0 | 2208.0 | 2209.0 | 2159.0 |
| **Indicator value** | **0.8** | **0.8** | **0.9** | **0.9** | **0** | **0.9** | **0.8** | **0.8** |

TOP

Licensee Comments: none

Thresholds: White > 1.0

## Notes

| Unplanned Scrams with Complications | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| 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** |

TOP

Licensee Comments: none

## Safety System Functional Failures (PWR)

Thresholds: White > 5.0

### Notes

| Safety System Functional Failures (PWR) | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **1** | **1** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

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 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -8.58E-09 | -8.64E-09 | -8.71E-09 | -1.62E-09 | -1.70E-09 | -6.47E-09 | -6.47E-09 | -6.47E-09 |
| URI (ΔCDF) | 8.17E-10 | 8.17E-10 | 8.17E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-7.80E-09** | **-7.80E-09** | **-7.90E-09** | **-1.20E-09** | **-1.20E-09** | **-6.00E-09** | **-6.00E-09** | **-6.00E-09** |

TOP

Licensee Comments:
1Q/16: Changed PRA Parameter(s).

### 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 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.94E-08 | 2.93E-08 | 2.92E-08 | 1.21E-08 | -1.33E-09 | -1.33E-09 | -1.33E-09 | -1.33E-09 |
| URI (ΔCDF) | -1.79E-09 | -1.79E-09 | -1.79E-09 | -7.16E-10 | -1.22E-09 | -1.22E-09 | -1.22E-09 | -1.22E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **2.80E-08** | **2.80E-08** | **2.70E-08** | **1.10E-08** | **-2.60E-09** | **-2.60E-09** | **-2.60E-09** | **-2.60E-09** |

TOP

Licensee Comments:
1Q/16: Changed PRA Parameter(s).

## 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 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.20E-08 | -1.05E-08 | -9.89E-09 | -1.60E-08 | -1.73E-08 | -1.73E-08 | -1.73E-08 | -1.73E-08 |
| URI (ΔCDF) | -2.61E-08 | -2.61E-08 | -2.61E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-3.80E-08** | **-3.70E-08** | **-3.60E-08** | **-5.00E-08** | **-5.20E-08** | **-5.20E-08** | **-5.20E-08** | **-5.20E-08** |

TOP

Licensee Comments:
1Q/16: Changed PRA Parameter(s).

## 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 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.48E-09 | -1.88E-09 | -1.76E-09 | -1.45E-09 | -1.69E-09 | -1.69E-09 | -1.69E-09 | -1.53E-09 |
| URI (ΔCDF) | -1.90E-09 | -1.90E-09 | -1.90E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-3.40E-09** | **-3.80E-09** | **-3.70E-09** | **-3.10E-09** | **-3.30E-09** | **-3.30E-09** | **-3.30E-09** | **-3.20E-09** |

TOP

Licensee Comments:
1Q/16: Changed PRA Parameter(s).

## 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 | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.34E-10 | -3.71E-10 | -3.71E-10 | -1.67E-10 | -1.67E-10 | -1.95E-10 | -1.95E-10 | -7.18E-11 |
| URI (ΔCDF) | -4.14E-09 | -4.14E-09 | -4.14E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-4.30E-09** | **-4.50E-09** | **-4.50E-09** | **-1.90E-09** | **-1.90E-09** | **-2.00E-09** | **-2.00E-09** | **-1.90E-09** |

TOP

Licensee Comments:
2Q/16: Previously reported value for Segment "F" 2016-05 was in error. The change has no impact on GREEN status. Reference Condition Report 2016-09566
1Q/16: Changed PRA Parameter(s).

## Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

### Notes

| Reactor Coolant System Activity | 4/15 | 5/15 | 6/15 | 7/15 | 8/15 | 9/15 | 10/15 | 11/15 | 12/15 | 1/16 | 2/16 | 3/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000103 | 0.000105 | 0.000116 | 0.000117 | 0.000118 | 0.000149 | 0.000017 | 0.000068 | 0.000080 | 0.000085 | 0.000087 | 0.000087 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| Reactor Coolant System Activity | 4/16 | 5/16 | 6/16 | 7/16 | 8/16 | 9/16 | 10/16 | 11/16 | 12/16 | 1/17 | 2/17 | 3/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000090 | 0.000090 | 0.000091 | 0.000090 | 0.000091 | 0.000100 | 0.000105 | 0.000111 | 0.000107 | 0.000116 | 0.000110 | 0.000143 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

Licensee Comments: none

## Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

### Notes

| Reactor Coolant System Leakage | 4/15 | 5/15 | 6/15 | 7/15 | 8/15 | 9/15 | 10/15 | 11/15 | 12/15 | 1/16 | 2/16 | 3/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.100 | 0.100 | 0.090 | 0.110 | 0.110 | 0.120 | N/A | 0.090 | 0.090 | 0.090 | 0.090 | 0.100 |
| 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** | **1.0** | **1.0** | **0.9** | **1.1** | **1.1** | **1.2** | **N/A** | **0.9** | **0.9** | **0.9** | **0.9** | **1.0** |

| Reactor Coolant System Leakage | 4/16 | 5/16 | 6/16 | 7/16 | 8/16 | 9/16 | 10/16 | 11/16 | 12/16 | 1/17 | 2/17 | 3/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.100 | 0.110 | 0.090 | 0.100 | 0.100 | 0.100 | 0.110 | 0.100 | 0.110 | 0.100 | 0.100 | 0.110 |
| 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** | **1.0** | **1.1** | **0.9** | **1.0** | **1.0** | **1.0** | **1.1** | **1.0** | **1.1** | **1.0** | **1.0** | **1.1** |

TOP

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

## Notes

| Drill/Exercise Performance | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 36.0 | 106.0 | 17.0 | 62.0 | 68.0 | 39.0 | 42.0 | 92.0 |
| Total opportunities | 36.0 | 108.0 | 18.0 | 62.0 | 71.0 | 40.0 | 43.0 | 92.0 |
| **Indicator value** | **97.8%** | **97.8%** | **97.7%** | **98.1%** | **98.0%** | **97.8%** | **97.7%** | **98.3%** |

TOP

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 173.0 | 165.0 | 161.0 | 168.0 | 170.0 | 166.0 | 170.0 | 179.0 |
| Total Key personnel | 173.0 | 165.0 | 161.0 | 168.0 | 170.0 | 166.0 | 170.0 | 179.0 |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

TOP

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

## Notes

| Alert & Notification System | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1560 | 1560 | 1559 | 1558 | 1559 | 1560 | 1560 | 1560 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| **Indicator value** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** |

TOP

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Occupational Exposure Control Effectiveness | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| 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** |

TOP

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

## Notes

| RETS/ODCM Radiological Effluent | 2Q/15 | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

*Current data as of: May 5, 2017*

*Page Last Reviewed/Updated Wednesday, June 07, 2017*

United States Nuclear Regulatory Commission
*Protecting People and the Environment*



# Beaver Valley 2 – Quarterly Performance Indicators

## 2Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:


- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 2088.4 | 1523.1 | 1987.2 | 2184.0 | 2208.0 | 2209.0 | 2159.0 | 1507.8 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

Licensee Comments: none

Thresholds: White > 6.0

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 2088.4 | 1523.1 | 1987.2 | 2184.0 | 2208.0 | 2209.0 | 2159.0 | 1507.8 |
| **Indicator value** | **0.8** | **0.9** | **0.9** | **0** | **0.9** | **0.8** | **0.8** | **0.9** |

TOP

Licensee Comments: none

Thresholds: White > 1.0

## Notes

| Unplanned Scrams with Complications | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| 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** |

TOP

Licensee Comments: none

## Safety System Functional Failures (PWR)

Thresholds: White > 5.0

### Notes

| Safety System Functional Failures (PWR) | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| **Indicator value** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **2** |

TOP

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/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -8.64E-09 | -8.71E-09 | -1.62E-09 | -1.70E-09 | -6.47E-09 | -6.47E-09 | -6.47E-09 | -5.69E-09 |
| URI (ΔCDF) | 8.17E-10 | 8.17E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-7.80E-09** | **-7.90E-09** | **-1.20E-09** | **-1.20E-09** | **-6.00E-09** | **-6.00E-09** | **-6.00E-09** | **-5.20E-09** |

TOP

Licensee Comments:
1Q/16: Changed PRA Parameter(s).

### 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/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.93E-08 | 2.92E-08 | 1.21E-08 | -1.33E-09 | -1.33E-09 | -1.33E-09 | -1.33E-09 | -1.33E-09 |
| URI (ΔCDF) | -1.79E-09 | -1.79E-09 | -7.16E-10 | -1.22E-09 | -1.22E-09 | -1.22E-09 | -1.22E-09 | -1.22E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **2.80E-08** | **2.70E-08** | **1.10E-08** | **-2.60E-09** | **-2.60E-09** | **-2.60E-09** | **-2.60E-09** | **-2.60E-09** |

TOP

Licensee Comments:
1Q/16: Changed PRA Parameter(s).

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

## Notes

| Mitigating Systems Performance Index, Heat Removal System | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.05E-08 | -9.89E-09 | -1.60E-08 | -1.73E-08 | -1.73E-08 | -1.73E-08 | -1.73E-08 | -1.73E-08 |
| URI (ΔCDF) | -2.61E-08 | -2.61E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-3.70E-08** | **-3.60E-08** | **-5.00E-08** | **-5.20E-08** | **-5.20E-08** | **-5.20E-08** | **-5.20E-08** | **-5.20E-08** |

TOP

Licensee Comments:
1Q/16: Changed PRA Parameter(s).

## 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/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.88E-09 | -1.76E-09 | -1.45E-09 | -1.69E-09 | -1.69E-09 | -1.69E-09 | -1.53E-09 | -4.62E-10 |
| URI (ΔCDF) | -1.90E-09 | -1.90E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-3.80E-09** | **-3.70E-09** | **-3.10E-09** | **-3.30E-09** | **-3.30E-09** | **-3.30E-09** | **-3.20E-09** | **-2.10E-09** |

TOP

Licensee Comments:
1Q/16: Changed PRA Parameter(s).

## 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/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.71E-10 | -3.71E-10 | -1.67E-10 | -1.67E-10 | -1.95E-10 | -1.95E-10 | -7.18E-11 | -5.51E-11 |
| URI (ΔCDF) | -4.14E-09 | -4.14E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-4.50E-09** | **-4.50E-09** | **-1.90E-09** | **-1.90E-09** | **-2.00E-09** | **-2.00E-09** | **-1.90E-09** | **-1.80E-09** |

TOP

Licensee Comments:
2Q/16: Previously reported value for Segment "F" 2016-05 was in error. The change has no impact on GREEN status. Reference Condition Report 2016-09566
1Q/16: Changed PRA Parameter(s).

Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Activity | 7/15 | 8/15 | 9/15 | 10/15 | 11/15 | 12/15 | 1/16 | 2/16 | 3/16 | 4/16 | 5/16 | 6/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000117 | 0.000118 | 0.000149 | 0.000017 | 0.000068 | 0.000080 | 0.000085 | 0.000087 | 0.000087 | 0.000090 | 0.000090 | 0.000091 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| Reactor Coolant System Activity | 7/16 | 8/16 | 9/16 | 10/16 | 11/16 | 12/16 | 1/17 | 2/17 | 3/17 | 4/17 | 5/17 | 6/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000090 | 0.000091 | 0.000100 | 0.000105 | 0.000111 | 0.000107 | 0.000116 | 0.000110 | 0.000143 | 0.000100 | 0.000063 | 0.000059 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Leakage | 7/15 | 8/15 | 9/15 | 10/15 | 11/15 | 12/15 | 1/16 | 2/16 | 3/16 | 4/16 | 5/16 | 6/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.110 | 0.110 | 0.120 | N/A | 0.090 | 0.090 | 0.090 | 0.090 | 0.100 | 0.100 | 0.110 | 0.090 |
| 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** | **1.1** | **1.1** | **1.2** | **N/A** | **0.9** | **0.9** | **0.9** | **0.9** | **1.0** | **1.0** | **1.1** | **0.9** |

| Reactor Coolant System Leakage | 7/16 | 8/16 | 9/16 | 10/16 | 11/16 | 12/16 | 1/17 | 2/17 | 3/17 | 4/17 | 5/17 | 6/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.100 | 0.100 | 0.100 | 0.110 | 0.100 | 0.110 | 0.100 | 0.100 | 0.110 | 0.100 | 0.210 | 0.310 |
| 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** | **1.0** | **1.0** | **1.0** | **1.1** | **1.0** | **1.1** | **1.0** | **1.0** | **1.1** | **1.0** | **2.1** | **3.1** |

TOP

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

## Notes

| Drill/Exercise Performance | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 106.0 | 17.0 | 62.0 | 68.0 | 39.0 | 42.0 | 92.0 | 35.0 |
| Total opportunities | 108.0 | 18.0 | 62.0 | 71.0 | 40.0 | 43.0 | 92.0 | 36.0 |
| **Indicator value** | **97.8%** | **97.7%** | **98.1%** | **98.0%** | **97.8%** | **97.7%** | **98.3%** | **98.1%** |

TOP

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 165.0 | 161.0 | 168.0 | 170.0 | 166.0 | 170.0 | 179.0 | 183.0 |
| Total Key personnel | 165.0 | 161.0 | 168.0 | 170.0 | 166.0 | 170.0 | 179.0 | 183.0 |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

TOP

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

## Notes

| Alert & Notification System | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1560 | 1559 | 1558 | 1559 | 1560 | 1560 | 1560 | 1533 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1534 |
| **Indicator value** | **99.9%** | **100.0%** | **100.0%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **100.0%** |

TOP

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Occupational Exposure Control Effectiveness | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| 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** |

TOP

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

## Notes

| RETS/ODCM Radiological Effluent | 3Q/15 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

*Current data as of: July 26, 2017*

*Page Last Reviewed/Updated Wednesday, June 07, 2017*

United States Nuclear Regulatory Commission
*Protecting People and the Environment*



# Beaver Valley 2 – Quarterly Performance Indicators

## 3Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:


- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
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- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1523.1 | 1987.2 | 2184.0 | 2208.0 | 2209.0 | 2159.0 | 1507.8 | 2208.0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

Licensee Comments: none

Thresholds: White > 6.0

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 |
| Critical hours | 1523.1 | 1987.2 | 2184.0 | 2208.0 | 2209.0 | 2159.0 | 1507.8 | 2208.0 |
| **Indicator value** | **0.9** | **0.9** | **0** | **0.9** | **0.8** | **0.8** | **0.9** | **0** |

TOP

Licensee Comments: none

Thresholds: White > 1.0

## Notes

| Unplanned Scrams with Complications | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| 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** |

TOP

Licensee Comments: none

## Notes

| Safety System Functional Failures (PWR) | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **2** | **2** |

TOP

Licensee Comments: none

## Notes

| Mitigating Systems Performance Index, Emergency AC Power System | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -8.71E-09 | -1.62E-09 | -1.70E-09 | -6.47E-09 | -6.47E-09 | -6.47E-09 | -6.75E-09 | -6.75E-09 |
| URI (ΔCDF) | 8.17E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 3.72E-09 | 3.72E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-7.90E-09** | **-1.20E-09** | **-1.20E-09** | **-6.00E-09** | **-6.00E-09** | **-6.00E-09** | **-3.00E-09** | **-3.00E-09** |

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
2Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
1Q/16: Changed PRA Parameter(s).

### 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 | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 2.92E-08 | 1.21E-08 | -1.33E-09 | -1.33E-09 | -1.33E-09 | -1.33E-09 | -1.63E-08 | -1.63E-08 |
| URI (ΔCDF) | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -1.79E-09 | -7.16E-10 | -1.22E-09 | -1.22E-09 | -1.22E-09 | -1.22E-09 | -1.65E-09 | -1.65E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **2.70E-08** | **1.10E-08** | **-2.60E-09** | **-2.60E-09** | **-2.60E-09** | **-2.60E-09** | **-1.80E-08** | **-1.80E-08** |

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
2Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
1Q/16: Changed PRA Parameter(s).

## 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** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** | **4Q/16** | **1Q/17** | **2Q/17** | **3Q/17** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -9.89E-09 | -1.60E-08 | -1.73E-08 | -1.73E-08 | -1.73E-08 | -1.73E-08 | -1.88E-08 | -1.88E-08 |
| URI (ΔCDF) | -2.61E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -2.91E-08 | -2.91E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **-3.60E-08** | **-5.00E-08** | **-5.20E-08** | **-5.20E-08** | **-5.20E-08** | **-5.20E-08** | **-4.80E-08** | **-4.80E-08** |

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
2Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
1Q/16: Changed PRA Parameter(s).

## 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** | **4Q/15** | **1Q/16** | **2Q/16** | **3Q/16** | **4Q/16** | **1Q/17** | **2Q/17** | **3Q/17** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.76E-09 | -1.45E-09 | -1.69E-09 | -1.69E-09 | -1.69E-09 | -1.53E-09 | -4.54E-10 | -1.51E-10 |
| URI (ΔCDF) | -1.90E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.61E-09 | -1.61E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-3.70E-09** | **-3.10E-09** | **-3.30E-09** | **-3.30E-09** | **-3.30E-09** | **-3.20E-09** | **-2.10E-09** | **-1.80E-09** |

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI

Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
2Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
1Q/16: Changed PRA Parameter(s).

## Notes

| Mitigating Systems Performance Index, Cooling Water Systems | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -3.71E-10 | -1.67E-10 | -1.67E-10 | -1.95E-10 | -1.95E-10 | -7.18E-11 | -2.65E-10 | 8.15E-10 |
| URI (ΔCDF) | -4.14E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -2.71E-09 | -2.71E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-4.50E-09** | **-1.90E-09** | **-1.90E-09** | **-2.00E-09** | **-2.00E-09** | **-1.90E-09** | **-3.00E-09** | **-1.90E-09** |

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
2Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and

components were revised.
2Q/16: Previously reported value for Segment "F" 2016-05 was in error. The change has no impact on GREEN status. Reference Condition Report 2016-09566
1Q/16: Changed PRA Parameter(s).

Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Activity | 10/15 | 11/15 | 12/15 | 1/16 | 2/16 | 3/16 | 4/16 | 5/16 | 6/16 | 7/16 | 8/16 | 9/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000017 | 0.000068 | 0.000080 | 0.000085 | 0.000087 | 0.000087 | 0.000090 | 0.000090 | 0.000091 | 0.000090 | 0.000091 | 0.000100 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| Reactor Coolant System Activity | 10/16 | 11/16 | 12/16 | 1/17 | 2/17 | 3/17 | 4/17 | 5/17 | 6/17 | 7/17 | 8/17 | 9/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000105 | 0.000111 | 0.000107 | 0.000116 | 0.000110 | 0.000143 | 0.000100 | 0.000063 | 0.000059 | 0.000067 | 0.000071 | 0.000076 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**Indicator value**

TOP

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Leakage | 10/15 | 11/15 | 12/15 | 1/16 | 2/16 | 3/16 | 4/16 | 5/16 | 6/16 | 7/16 | 8/16 | 9/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | N/A | 0.090 | 0.090 | 0.090 | 0.090 | 0.100 | 0.100 | 0.110 | 0.090 | 0.100 | 0.100 | 0.100 |
| 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** | **N/A** | **0.9** | **0.9** | **0.9** | **0.9** | **1.0** | **1.0** | **1.1** | **0.9** | **1.0** | **1.0** | **1.0** |

| Reactor Coolant System Leakage | 10/16 | 11/16 | 12/16 | 1/17 | 2/17 | 3/17 | 4/17 | 5/17 | 6/17 | 7/17 | 8/17 | 9/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.110 | 0.100 | 0.110 | 0.100 | 0.100 | 0.110 | 0.100 | 0.210 | 0.310 | 0.120 | 0.140 | 0.130 |
| 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** | **1.1** | **1.0** | **1.1** | **1.0** | **1.0** | **1.1** | **1.0** | **2.1** | **3.1** | **1.2** | **1.4** | **1.3** |

TOP

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

## Notes

| Drill/Exercise Performance | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 17.0 | 62.0 | 68.0 | 39.0 | 42.0 | 92.0 | 35.0 | 69.0 |
| Total opportunities | 18.0 | 62.0 | 71.0 | 40.0 | 43.0 | 92.0 | 36.0 | 71.0 |
| **Indicator value** | **97.7%** | **98.1%** | **98.0%** | **97.8%** | **97.7%** | **98.3%** | **98.1%** | **97.9%** |

TOP

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 161.0 | 168.0 | 170.0 | 166.0 | 170.0 | 179.0 | 183.0 | 182.0 |
| Total Key personnel | 161.0 | 168.0 | 170.0 | 166.0 | 170.0 | 179.0 | 183.0 | 182.0 |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

TOP

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

## Notes

| Alert & Notification System | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1559 | 1558 | 1559 | 1560 | 1560 | 1560 | 1533 | 1534 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1534 | 1534 |
| **Indicator value** | **100.0%** | **100.0%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

TOP

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Occupational Exposure Control Effectiveness | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| 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** |

TOP

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

## Notes

| RETS/ODCM Radiological Effluent | 4Q/15 | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

*Current data as of: October 31, 2017*

*Page Last Reviewed/Updated Monday, November 06, 2017*

United States Nuclear Regulatory Commission
*Protecting People and the Environment*



# Beaver Valley 2 – Quarterly Performance Indicators

## 4Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:


- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

| Unplanned Scrams per 7000 Critical Hrs | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| Unplanned scrams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1987.2 | 2184.0 | 2208.0 | 2209.0 | 2159.0 | 1507.8 | 2208.0 | 2209.0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

Licensee Comments: none

Thresholds: White > 6.0

## Notes

| Unplanned Power Changes per 7000 Critical Hrs | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| Unplanned power changes | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 |
| Critical hours | 1987.2 | 2184.0 | 2208.0 | 2209.0 | 2159.0 | 1507.8 | 2208.0 | 2209.0 |
| **Indicator value** | **0.9** | **0** | **0.9** | **0.8** | **0.8** | **0.9** | **0** | **0** |

TOP

Licensee Comments: none

Thresholds: White > 1.0

## Notes

| Unplanned Scrams with Complications | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| 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** |

TOP

Licensee Comments: none

## Safety System Functional Failures (PWR)

Thresholds: White > 5.0

### Notes

| Safety System Functional Failures (PWR) | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| Safety System Functional Failures | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **2** | **2** | **2** |

TOP

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/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.62E-09 | -1.70E-09 | -6.47E-09 | -6.47E-09 | -6.47E-09 | -6.75E-09 | -6.75E-09 | -6.75E-09 |
| URI (ΔCDF) | 4.57E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 4.57E-10 | 3.72E-09 | 3.72E-09 | 3.72E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-1.20E-09** | **-1.20E-09** | **-6.00E-09** | **-6.00E-09** | **-6.00E-09** | **-3.00E-09** | **-3.00E-09** | **-3.00E-09** |

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
2Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
1Q/16: Changed PRA Parameter(s).

### 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/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | 1.21E-08 | -1.33E-09 | -1.33E-09 | -1.33E-09 | -1.33E-09 | -1.63E-08 | -1.63E-08 | -1.63E-08 |
| URI (ΔCDF) | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -7.16E-10 | -1.22E-09 | -1.22E-09 | -1.22E-09 | -1.22E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **1.10E-08** | **-2.60E-09** | **-2.60E-09** | **-2.60E-09** | **-2.60E-09** | **-1.80E-08** | **-1.80E-08** | **-1.80E-08** |

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
2Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
1Q/16: Changed PRA Parameter(s).

## 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/16** | **2Q/16** | **3Q/16** | **4Q/16** | **1Q/17** | **2Q/17** | **3Q/17** | **4Q/17** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.60E-08 | -1.73E-08 | -1.73E-08 | -1.73E-08 | -1.73E-08 | -1.88E-08 | -1.88E-08 | -1.88E-08 |
| URI (ΔCDF) | -3.44E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -3.44E-08 | -2.91E-08 | -2.91E-08 | -2.91E-08 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **-5.00E-08** | **-5.20E-08** | **-5.20E-08** | **-5.20E-08** | **-5.20E-08** | **-4.80E-08** | **-4.80E-08** | **-4.80E-08** |

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
2Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
1Q/16: Changed PRA Parameter(s).

## 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/16** | **2Q/16** | **3Q/16** | **4Q/16** | **1Q/17** | **2Q/17** | **3Q/17** | **4Q/17** |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.45E-09 | -1.69E-09 | -1.69E-09 | -1.69E-09 | -1.53E-09 | -4.54E-10 | -1.51E-10 | -1.64E-09 |
| URI (ΔCDF) | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.65E-09 | -1.61E-09 | -1.61E-09 | -1.61E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-3.10E-09** | **-3.30E-09** | **-3.30E-09** | **-3.30E-09** | **-3.20E-09** | **-2.10E-09** | **-1.80E-09** | **-3.20E-09** |

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI

Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
2Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
1Q/16: Changed PRA Parameter(s).

## 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/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| UAI (ΔCDF) | -1.67E-10 | -1.67E-10 | -1.95E-10 | -1.95E-10 | -7.18E-11 | -2.65E-10 | 8.15E-10 | 8.15E-10 |
| URI (ΔCDF) | -1.78E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -1.78E-09 | -2.71E-09 | -2.71E-09 | -2.71E-09 |
| PLE | NO | NO | NO | NO | NO | NO | NO | NO |
| **Indicator value** | **-1.90E-09** | **-1.90E-09** | **-2.00E-09** | **-2.00E-09** | **-1.90E-09** | **-3.00E-09** | **-1.90E-09** | **-1.90E-09** |

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and components were revised.
2Q/17: Changed PRA Parameter(s). The BVPS Unit 2 PRA Model Revision 06a was approved on 4/01/2017 with a corresponding MSPI Document Revision 11 approved on 10/05/2017. The PRA model revision was a periodic update to the model which included a data update. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Events Probabilities for all monitored trains and

components were revised.
2Q/16: Previously reported value for Segment "F" 2016-05 was in error. The change has no impact on GREEN status. Reference Condition Report 2016-09566
1Q/16: Changed PRA Parameter(s).

Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Activity | 1/16 | 2/16 | 3/16 | 4/16 | 5/16 | 6/16 | 7/16 | 8/16 | 9/16 | 10/16 | 11/16 | 12/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000085 | 0.000087 | 0.000087 | 0.000090 | 0.000090 | 0.000091 | 0.000090 | 0.000091 | 0.000100 | 0.000105 | 0.000111 | 0.000107 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| Reactor Coolant System Activity | 1/17 | 2/17 | 3/17 | 4/17 | 5/17 | 6/17 | 7/17 | 8/17 | 9/17 | 10/17 | 11/17 | 12/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum activity | 0.000116 | 0.000110 | 0.000143 | 0.000100 | 0.000063 | 0.000059 | 0.000067 | 0.000071 | 0.000076 | 0.000079 | 0.000085 | 0.000086 |
| Technical specification limit | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**Indicator value**

TOP

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

## Notes

| Reactor Coolant System Leakage | 1/16 | 2/16 | 3/16 | 4/16 | 5/16 | 6/16 | 7/16 | 8/16 | 9/16 | 10/16 | 11/16 | 12/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.090 | 0.090 | 0.100 | 0.100 | 0.110 | 0.090 | 0.100 | 0.100 | 0.100 | 0.110 | 0.100 | 0.110 |
| 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** | **0.9** | **0.9** | **1.0** | **1.0** | **1.1** | **0.9** | **1.0** | **1.0** | **1.0** | **1.1** | **1.0** | **1.1** |

| Reactor Coolant System Leakage | 1/17 | 2/17 | 3/17 | 4/17 | 5/17 | 6/17 | 7/17 | 8/17 | 9/17 | 10/17 | 11/17 | 12/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum leakage | 0.100 | 0.100 | 0.110 | 0.100 | 0.210 | 0.310 | 0.120 | 0.140 | 0.130 | 0.100 | 0.130 | 0.110 |
| 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** | **1.0** | **1.0** | **1.1** | **1.0** | **2.1** | **3.1** | **1.2** | **1.4** | **1.3** | **1.0** | **1.3** | **1.1** |

TOP

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

## Notes

| Drill/Exercise Performance | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| Successful opportunities | 62.0 | 68.0 | 39.0 | 42.0 | 92.0 | 35.0 | 69.0 | 40.0 |
| Total opportunities | 62.0 | 71.0 | 40.0 | 43.0 | 92.0 | 36.0 | 71.0 | 41.0 |
| **Indicator value** | **98.1%** | **98.0%** | **97.8%** | **97.7%** | **98.3%** | **98.1%** | **97.9%** | **98.0%** |

TOP

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

## Notes

| ERO Drill Participation | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| Participating Key personnel | 168.0 | 170.0 | 166.0 | 170.0 | 179.0 | 183.0 | 182.0 | 179.0 |
| Total Key personnel | 168.0 | 170.0 | 166.0 | 170.0 | 179.0 | 183.0 | 182.0 | 179.0 |
| **Indicator value** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

TOP

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

## Notes

| Alert & Notification System | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| Successful siren-tests | 1558 | 1559 | 1560 | 1560 | 1560 | 1533 | 1534 | 1534 |
| Total sirens-tests | 1560 | 1560 | 1560 | 1560 | 1560 | 1534 | 1534 | 1534 |
| **Indicator value** | **100.0%** | **99.9%** | **99.9%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

TOP

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

## Notes

| Occupational Exposure Control Effectiveness | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| 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** |

TOP

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

## Notes

| RETS/ODCM Radiological Effluent | 1Q/16 | 2Q/16 | 3Q/16 | 4Q/16 | 1Q/17 | 2Q/17 | 3Q/17 | 4Q/17 |
|---|---|---|---|---|---|---|---|---|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Indicator value** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

*Current data as of: February 1, 2018*

*Page Last Reviewed/Updated Monday, November 06, 2017*