

# Duane Arnold

## 3Q/2006 Performance Indicators

Licensee's General Comments: Per an NRC request, the comments fields associated with MSPI values have been cleaned up in order to remove unrelated characters (i.e., question marks) within the text file. When the original comment was submitted, question marks were incorporated into the text in lieu of unrecognizable characters within the text file. This interjection of question marks occurred when the comment was migrated from one software platform to another.

### Unplanned Scrams per 7000 Critical Hrs



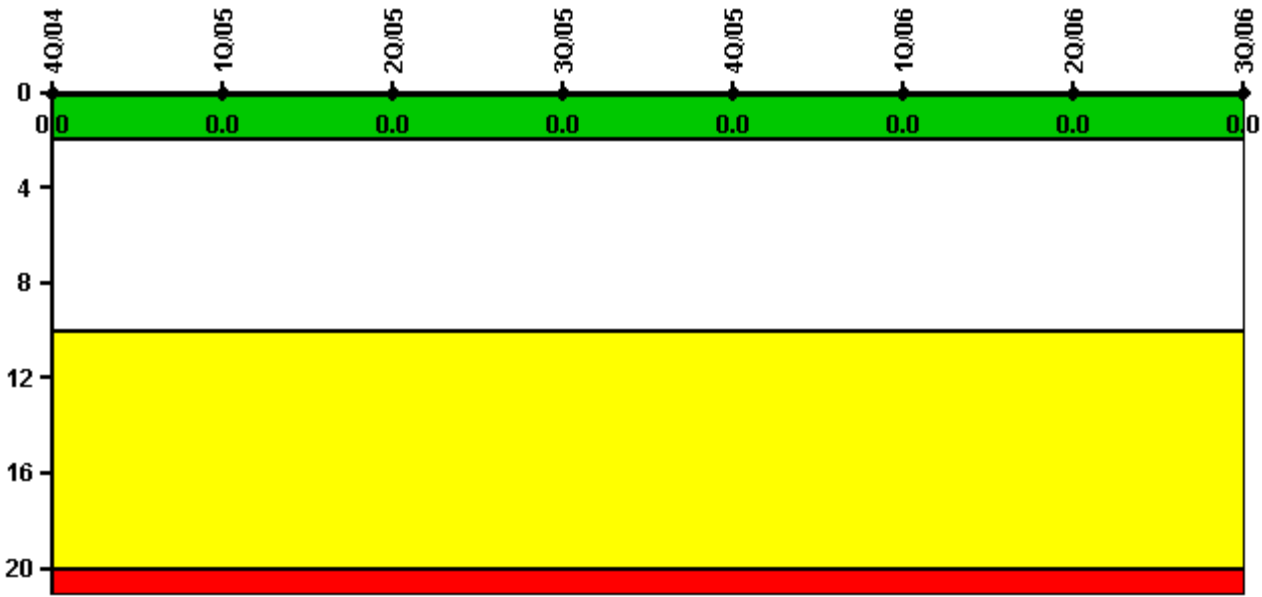
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	0	0
Critical hours	2133.5	2069.4	1438.1	2208.0	2209.0	2160.0	2183.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



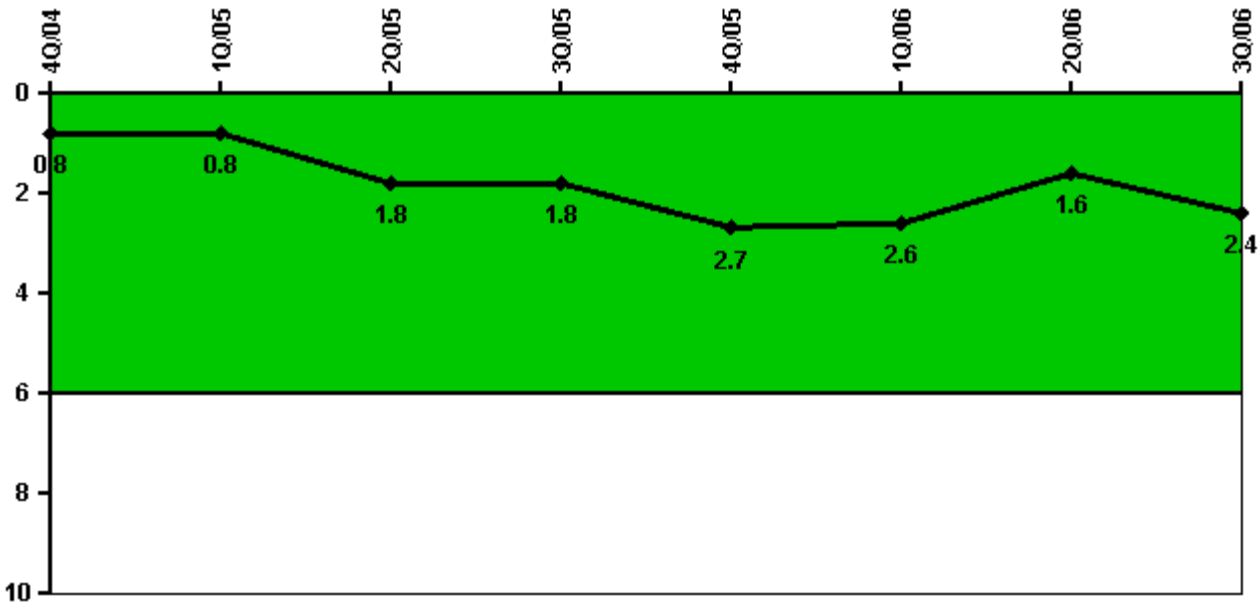
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	4Q/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

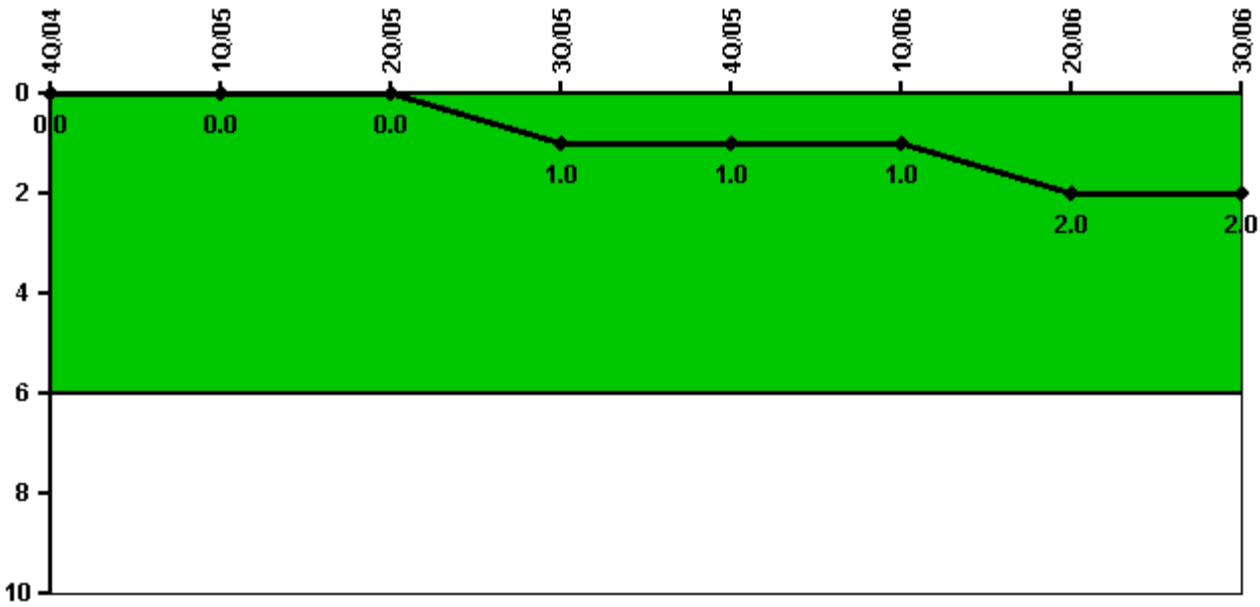
#### Notes

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	0	2.0	0	1.0	0	1.0	1.0
Critical hours	2133.5	2069.4	1438.1	2208.0	2209.0	2160.0	2183.0	2208.0
Indicator value	0.8	0.8	1.8	1.8	2.7	2.6	1.6	2.4

Licensee Comments:

3Q/06: Downpower due to blown fuse on the "B" Recirc MG Set, 09/23/2006 @ 1346 until 09/26/2006 @ 0700.

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

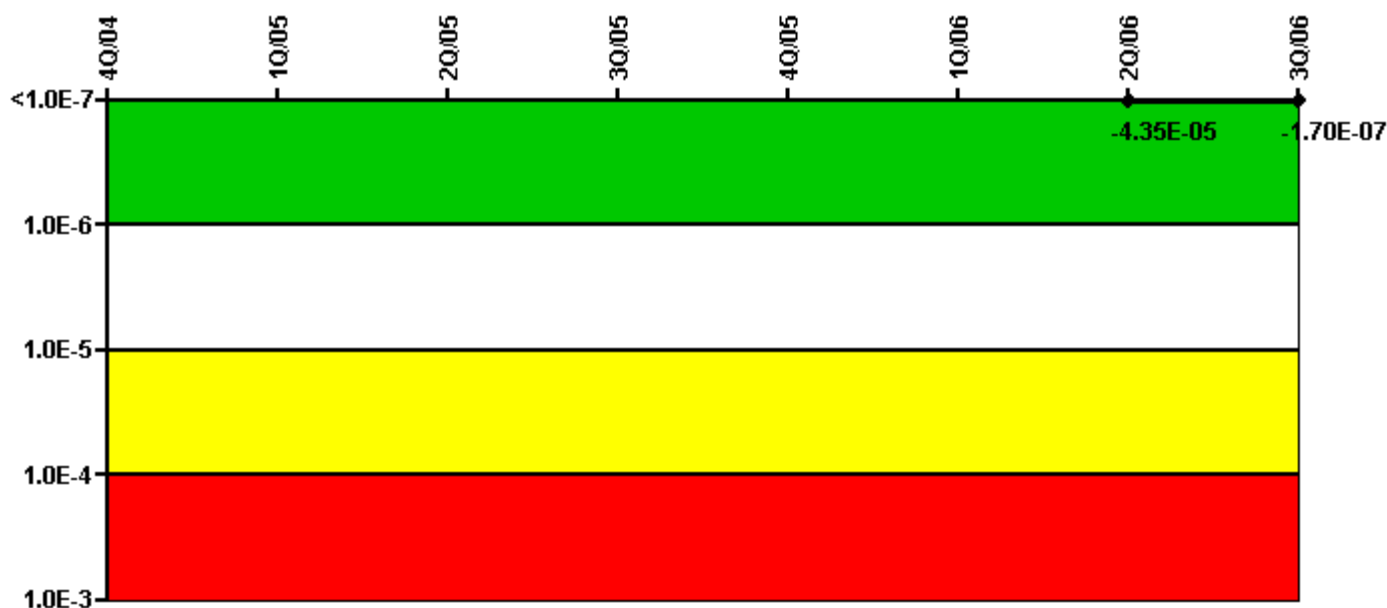
#### Notes

Safety System Functional Failures (BWR)	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Safety System Functional Failures	0	0	0	1	0	0	1	1
Indicator value	0	0	0	1	1	1	2	2

Licensee Comments:

3Q/06: LER 2006-03 - RHRSW Pump inoperability due to Motor Cooler Failures, dated 08/30/2006

### Mitigating Systems Performance Index, Emergency AC Power System



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

#### Notes

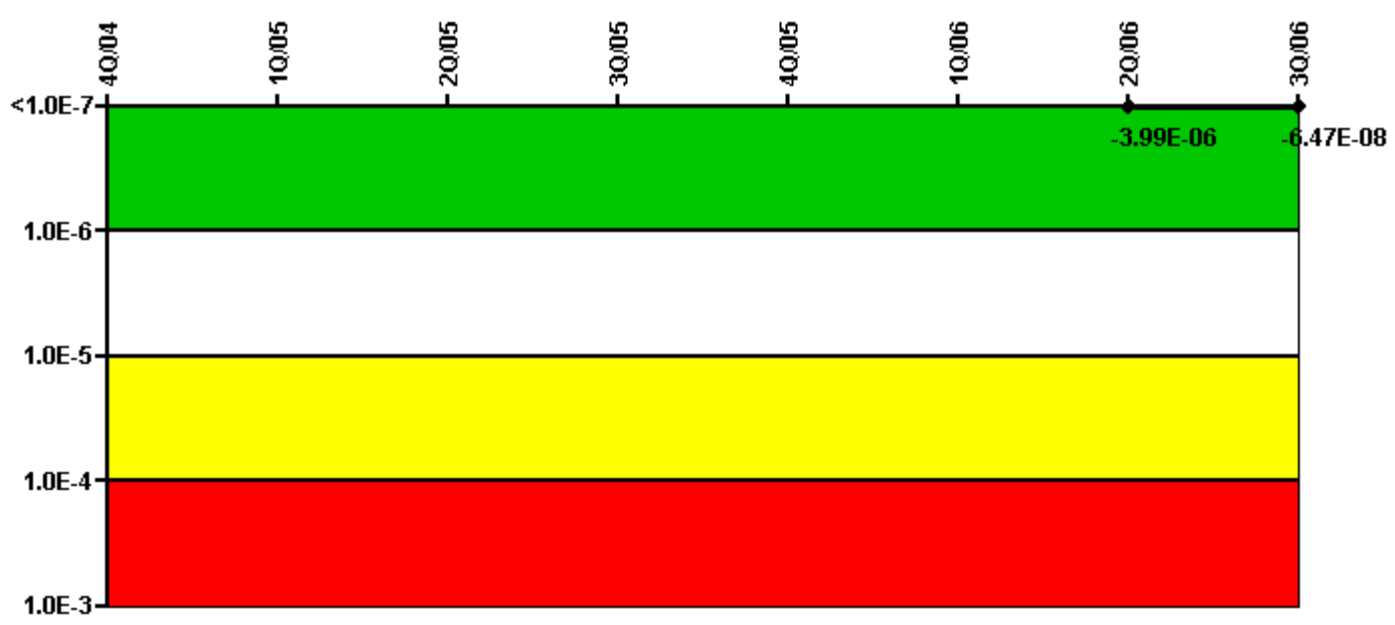
Mitigating Systems Performance Index, Emergency AC Power System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							4.60E-07	4.40E-07
URI (ΔCDF)							-4.40E-05	-6.10E-07
PLE							NO	NO
Indicator value							-4.35E-05	-1.70E-07

#### Licensee Comments:

3Q/06: Corrections were made to PRA related parameters during the reporting period for 3rd Quarter 2006. Originally entered values for component unreliability in accordance with Fussell-Vesely (FVURC) variables in the Device record tables of the Consolidated Data Entry (CDE) systems and Equipment Performance section system baseline unavailability variables (UABLP and UABLU) in the CDE systems Function record tables were discovered to be incorrect. Discovery of the incorrect values and completion of related corrective actions are documented within the DAEC Corrective Action Program (CAP043403 and CAP043543). The changes did not have any effect on MSPI colors or substantially affect margin to any green-to-white action level.

3Q/06: Changed PRA Parameter(s). Corrections were made to PRA related parameters during the reporting period for 3rd Quarter 2006. Originally entered values for component unreliability Fussell-Vesely (FVURC) variables in the ??? Device??? record tables of the Consolidated Data Entry (CDE) system???'s Equipment Performance section system baseline unavailability variables (UABLP and UABLU) in the CDE system???'s ???Function??? record tables were discovered to be incorrect. Discovery of the incorrect values and completion of related corrective actions are documented within the DAEC Corrective Action Program (CAP043403 and CAP043543). The changes did not have any effect on MSPI colors or substantially affect margin to any green-to-white action level.

### Mitigating Systems Performance Index, High Pressure Injection System



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

**Notes**

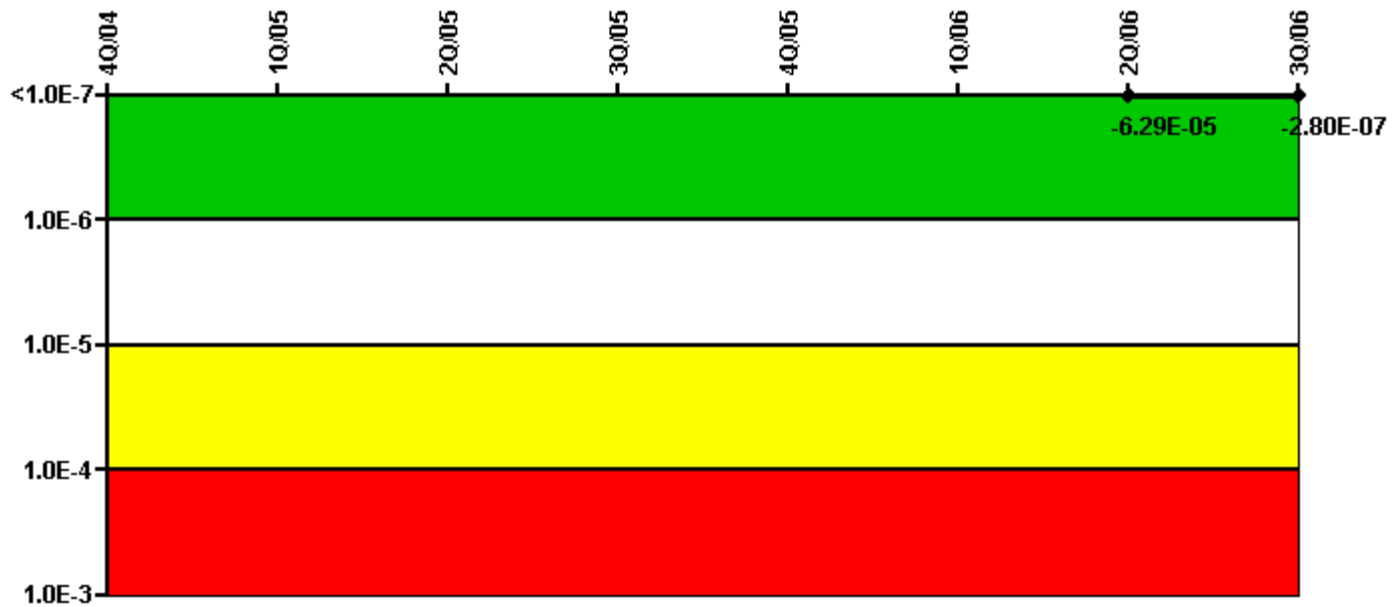
Mitigating Systems Performance Index, High Pressure Injection System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							1.30E-08	6.30E-09
URI (ΔCDF)							-4.00E-06	-7.10E-08
PLE							NO	NO
Indicator value							-3.99E-06	-6.47E-08

Licensee Comments:

3Q/06: Corrections were made to PRA related parameters during the reporting period for 3rd Quarter 2006. Originally entered values for component unreliability in accordance with Fussell-Vesely (FVURC) variables in the Device record tables of the Consolidated Data Entry (CDE) systems and Equipment Performance section system baseline unavailability variables (UABLP and UABLU) in the CDE systems Function record tables were discovered to be incorrect. Discovery of the incorrect values and completion of related corrective actions are documented within the DAEC Corrective Action Program (CAP043403 and CAP043543). The changes did not have any effect on MSPI colors or substantially affect margin to any green-to-white action level.

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### Mitigating Systems Performance Index, Heat Removal System



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

#### Notes

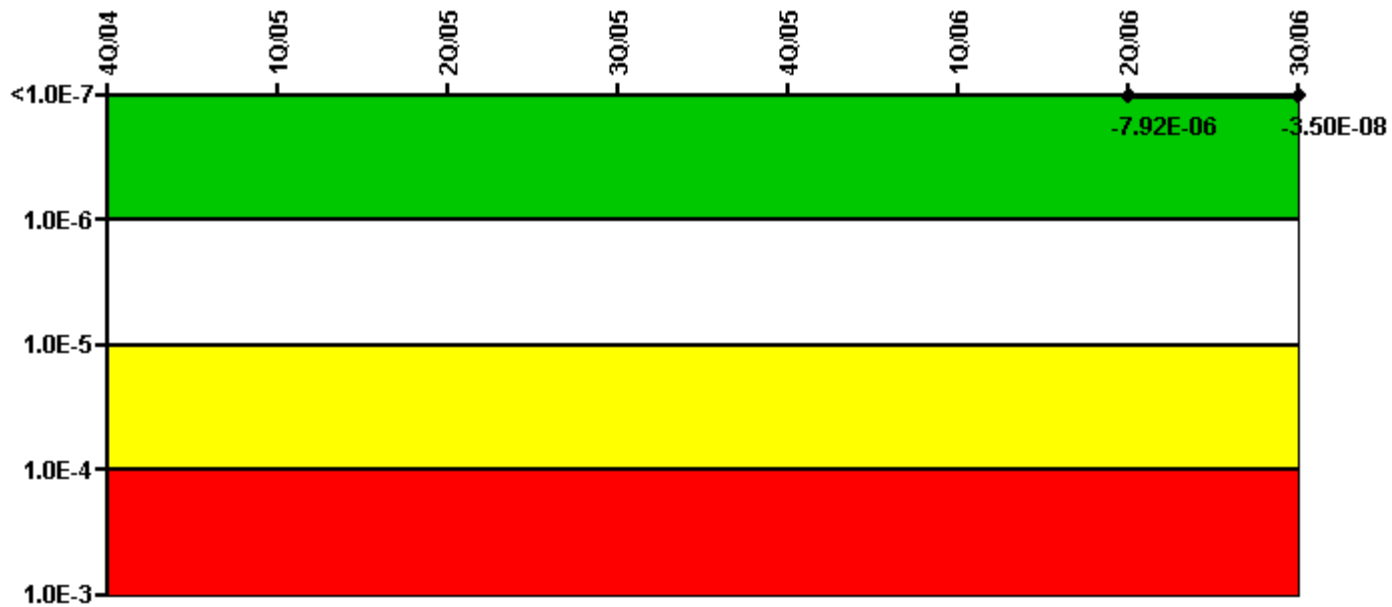
Mitigating Systems Performance Index, Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							6.40E-08	-1.30E-07
URI (ΔCDF)							-6.30E-05	-1.50E-07
PLE							NO	NO
Indicator value							-6.29E-05	-2.80E-07

#### Licensee Comments:

3Q/06: Corrections were made to PRA related parameters during the reporting period for 3rd Quarter 2006. Originally entered values for component unreliability in accordance with Fussell-Vesely (FVURC) variables in the Device record tables of the Consolidated Data Entry (CDE) systems and Equipment Performance section system baseline unavailability variables (UABLP and UABLU) in the CDE systems Function record tables were discovered to be incorrect. Discovery of the incorrect values and completion of related corrective actions are documented within the DAEC Corrective Action Program (CAP043403 and CAP043543). The changes did not have any effect on MSPI colors or substantially affect margin to any green-to-white action level.

3Q/06: Changed PRA Parameter(s). Corrections were made to PRA related parameters during the reporting period for 3rd Quarter 2006. Originally entered values for component unreliability Fussell-Vesely (FVURC) variables in the ??? Device??? record tables of the Consolidated Data Entry (CDE) system???'s Equipment Performance section system baseline unavailability variables (UABLP and UABLU) in the CDE system???'s ???Function??? record tables were discovered to be incorrect. Discovery of the incorrect values and completion of related corrective actions are documented within the DAEC Corrective Action Program (CAP043403 and CAP043543). The changes did not have any effect on MSPI colors or substantially affect margin to any green-to-white action level.

### 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)							-2.00E-08	0.00E+00
URI (ΔCDF)							-7.90E-06	-3.50E-08
PLE							NO	NO
Indicator value							-7.92E-06	-3.50E-08

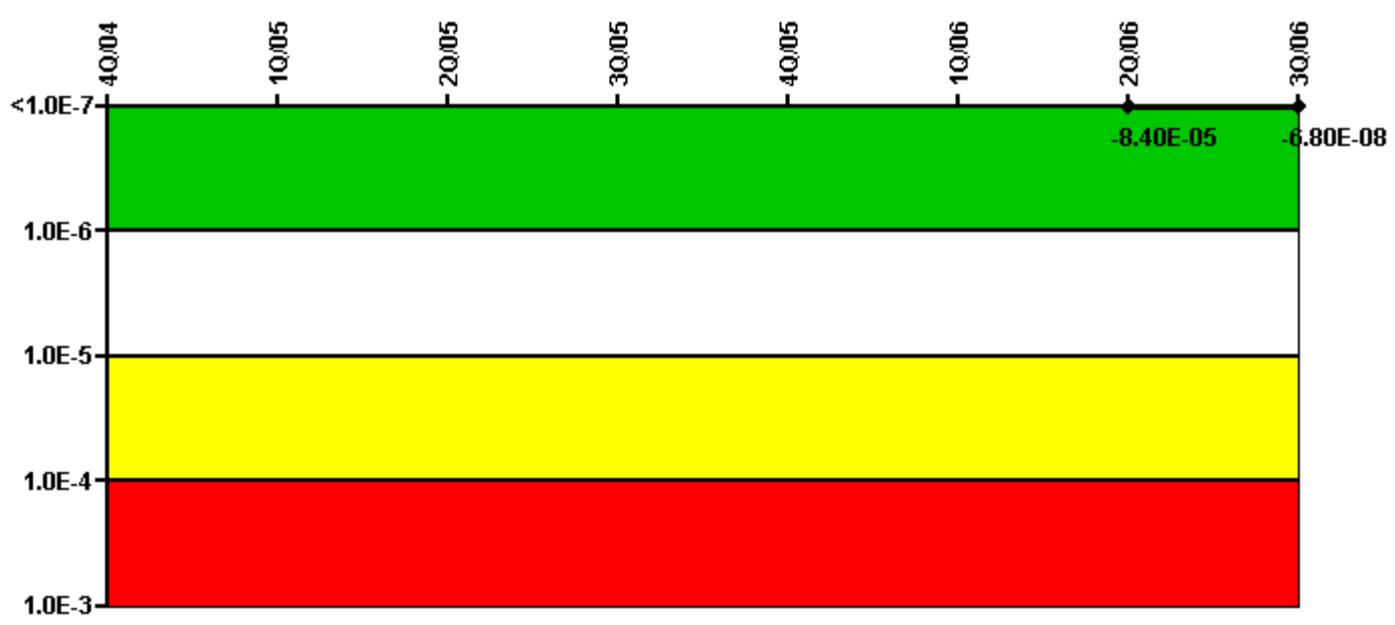
#### Licensee Comments:

3Q/06: Corrections were made to PRA related parameters during the reporting period for 3rd Quarter 2006. Originally entered values for component unreliability in accordance with Fussell-Vesely (FVURC) variables in the Device record tables of the Consolidated Data Entry (CDE) systems and Equipment Performance section system baseline unavailability variables (UABLP and UABLU) in the CDE systems Function record tables were discovered to be incorrect. Discovery of the incorrect values and completion of related corrective actions are documented within the DAEC Corrective Action Program (CAP043403 and CAP043543). The changes did not have any effect on MSPI colors or substantially affect margin to any green-to-white action level.

3Q/06: Changed PRA Parameter(s). Corrections were made to PRA related parameters during the reporting period for 3rd Quarter 2006. Originally entered values for component unreliability Fussell-Vesely (FVURC) variables in the ??? Device??? record tables of the Consolidated Data Entry (CDE) system???'s Equipment Performance section system baseline unavailability variables (UABLP and UABLU) in the CDE system???'s ???Function??? record tables were discovered to be incorrect. Discovery of the incorrect values and completion of related corrective actions are documented within the DAEC Corrective Action Program (CAP043403 and CAP043543). The changes did not have any effect on MSPI colors or substantially affect margin to any green-to-white action level.



### Mitigating Systems Performance Index, Cooling Water Systems



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

**Notes**

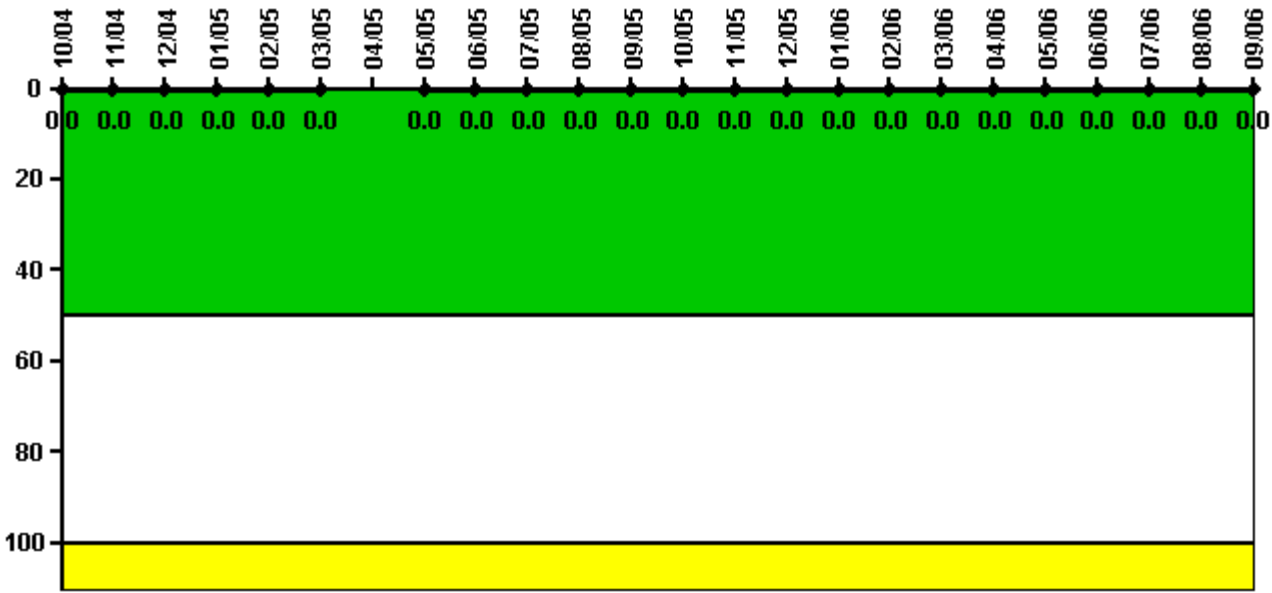
Mitigating Systems Performance Index, Cooling Water Systems	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							8.50E-09	1.30E-08
URI (ΔCDF)							-8.40E-05	-8.10E-08
PLE							NO	NO
Indicator value							-8.40E-05	-6.80E-08

Licensee Comments:

3Q/06: Corrections were made to PRA related parameters during the reporting period for 3rd Quarter 2006. Originally entered values for component unreliability in accordance with Fussell-Vesely (FVURC) variables in the Device record tables of the Consolidated Data Entry (CDE) systems and Equipment Performance section system baseline unavailability variables (UABLP and UABLU) in the CDE systems Function record tables were discovered to be incorrect. Discovery of the incorrect values and completion of related corrective actions are documented within the DAEC Corrective Action Program (CAP043403 and CAP043543). The changes did not have any effect on MSPI colors or substantially affect margin to any green-to-white action level.

3Q/06: Changed PRA Parameter(s). Corrections were made to PRA related parameters during the reporting period for 3rd Quarter 2006. Originally entered values for component unreliability Fussell-Vesely (FVURC) variables in the ??? Device??? record tables of the Consolidated Data Entry (CDE) system???s Equipment Performance section system baseline unavailability variables (UABLP and UABLU) in the CDE system???s ???Function??? record tables were discovered to be incorrect. Discovery of the incorrect values and completion of related corrective actions are documented within the DAEC Corrective Action Program (CAP043403 and CAP043543). The changes did not have any effect on MSPI colors or substantially affect margin to any green-to-white action level.

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

**Notes**

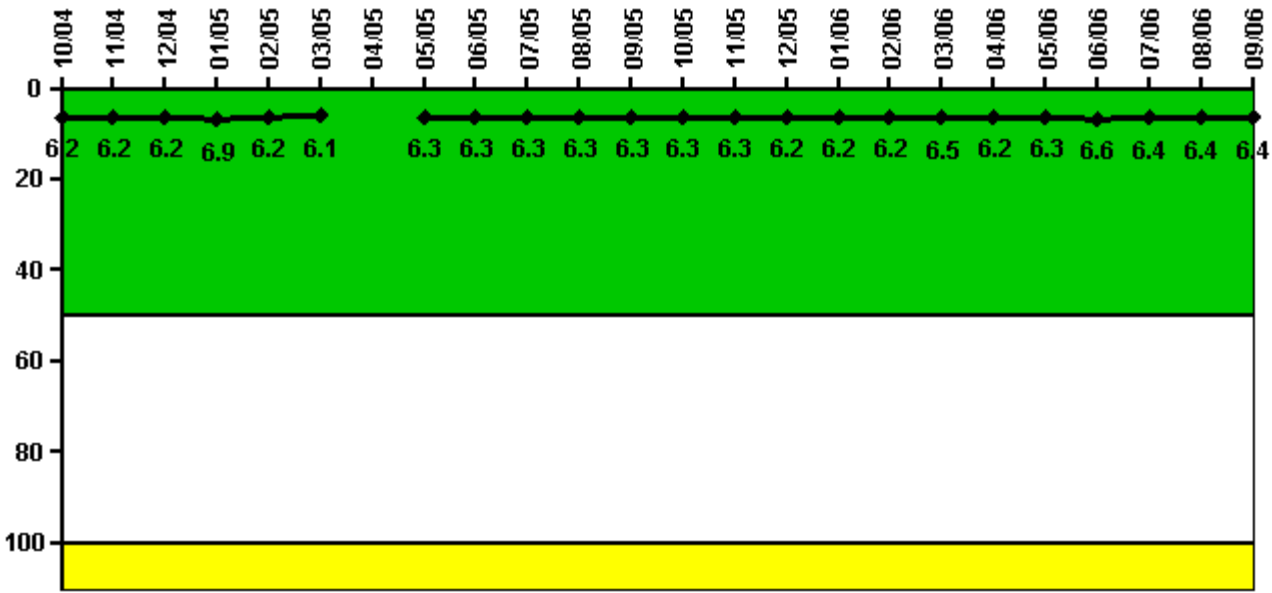
Reactor Coolant System Activity	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum activity	0.000003	0.000002	0	0.000009	0.000003	0.000003	N/A	0	0	0	0	0.000006
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	N/A	0	0	0	0	0

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	0	0.000003	0	0	0	0	0	0	0	0	0
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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

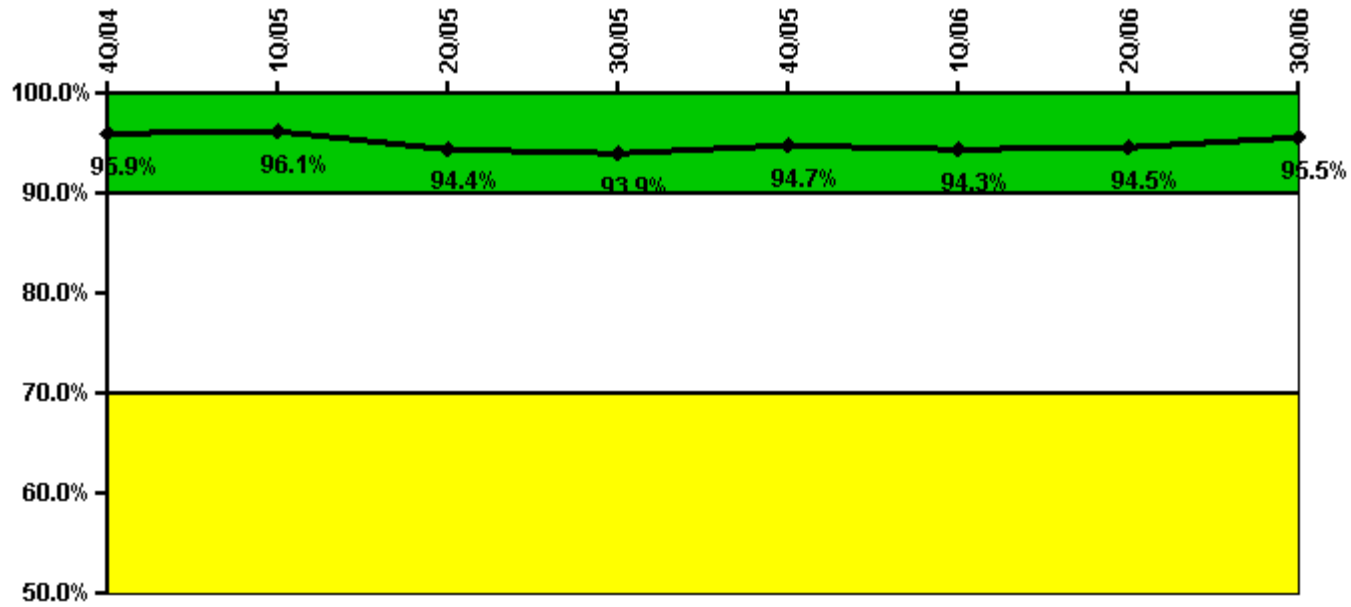
Reactor Coolant System Leakage	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum leakage	1.560	1.540	1.560	1.730	1.540	1.520	N/A	1.570	1.580	1.570	1.570	1.580
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.2	6.2	6.2	6.9	6.2	6.1	N/A	6.3	6.3	6.3	6.3	6.3

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	1.580	1.570	1.550	1.550	1.550	1.620	1.560	1.570	1.650	1.600	1.590	1.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.3	6.3	6.2	6.2	6.2	6.5	6.2	6.3	6.6	6.4	6.4	6.4

Licensee Comments: none

### Drill/Exercise Performance



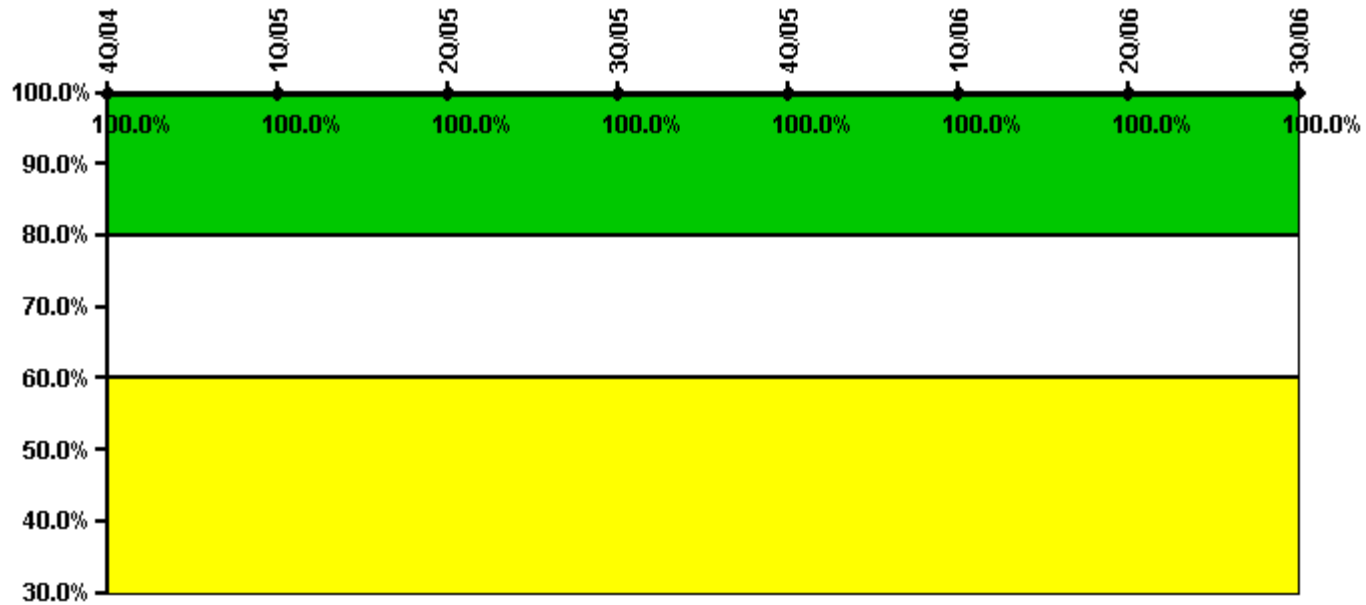
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	24.0	30.0	27.0	22.0	48.0	33.0	51.0	62.0
Total opportunities	26.0	30.0	31.0	24.0	48.0	35.0	55.0	62.0
Indicator value	95.9%	96.1%	94.4%	93.9%	94.7%	94.3%	94.5%	95.5%

Licensee Comments: none

### ERO Drill Participation



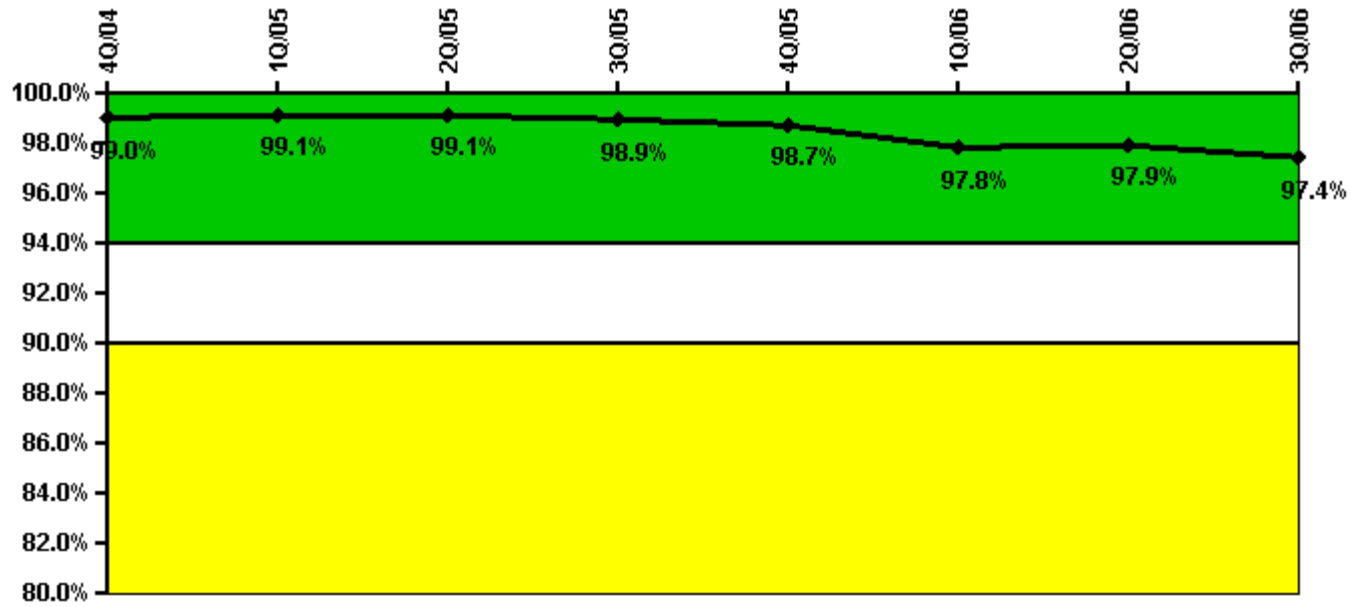
Thresholds: White < 80.0% Yellow < 60.0%

**Notes**

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	68.0	68.0	90.0	88.0	86.0	88.0	90.0	88.0
Total Key personnel	68.0	68.0	90.0	88.0	86.0	88.0	90.0	88.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



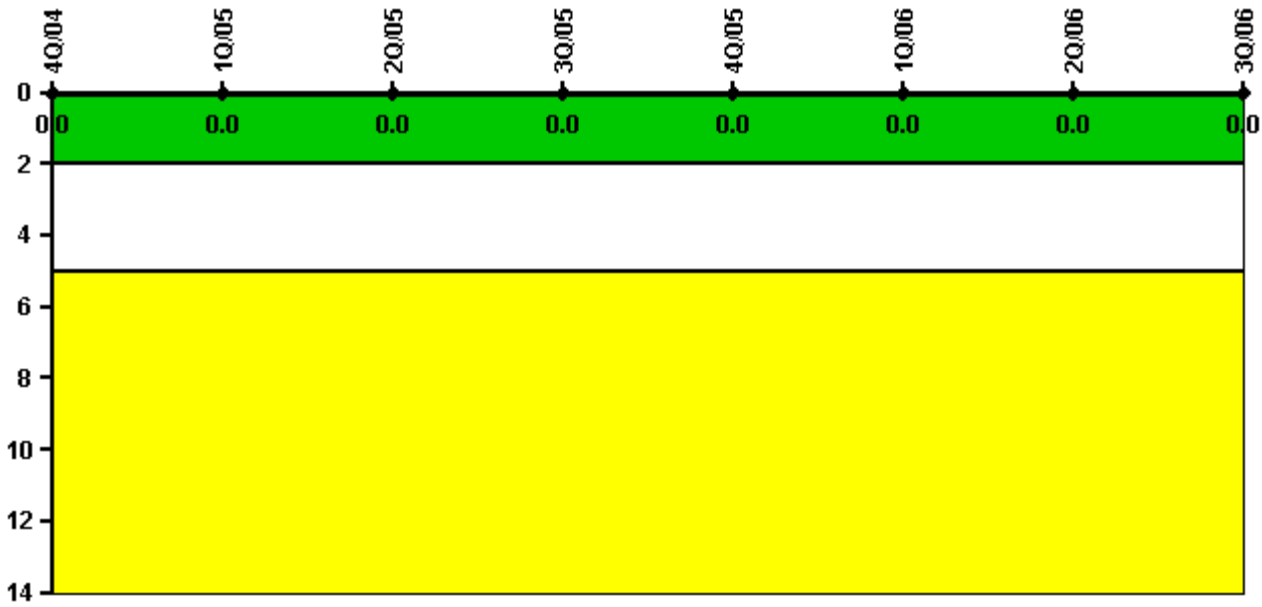
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	421	427	427	422	418	412	428	414
Total sirens-tests	429	429	429	429	429	429	429	429
Indicator value	99.0%	99.1%	99.1%	98.9%	98.7%	97.8%	97.9%	97.4%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



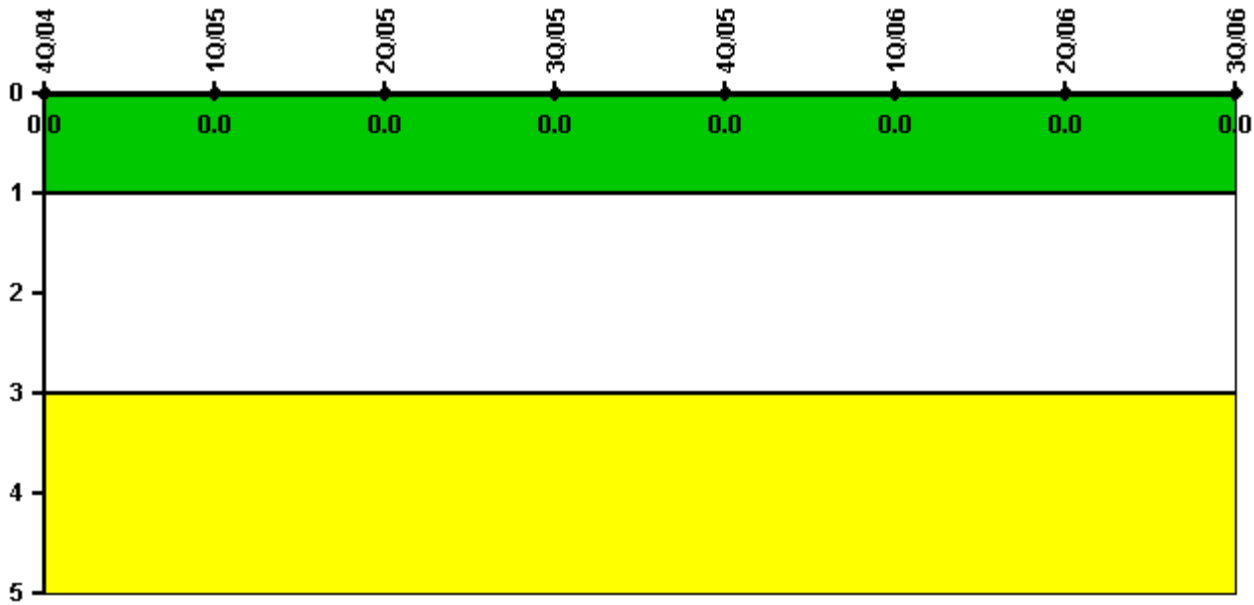
Thresholds: White > 2.0 Yellow > 5.0

**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
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	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

[Physical Protection](#) information not publicly available.