

Surry 1

4Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2184.0	1646.0	2208.0	2189.6	2160.0	2145.9	2208.0	943.6
Indicator value	0	0	0	0.9	0.9	0.8	0.8	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



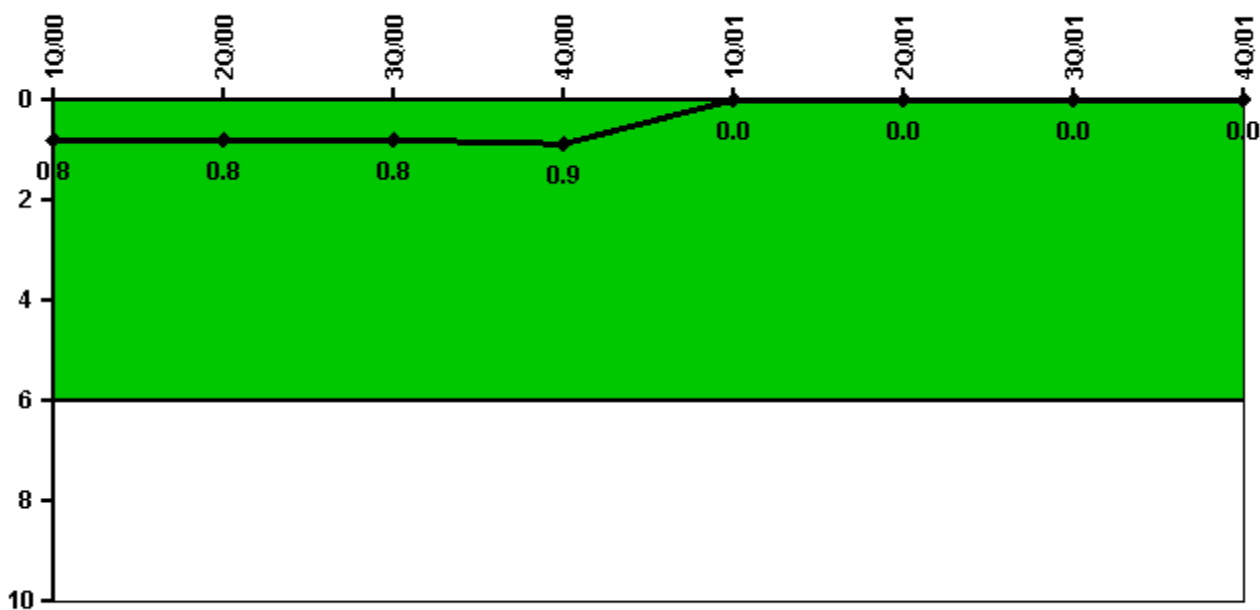
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/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



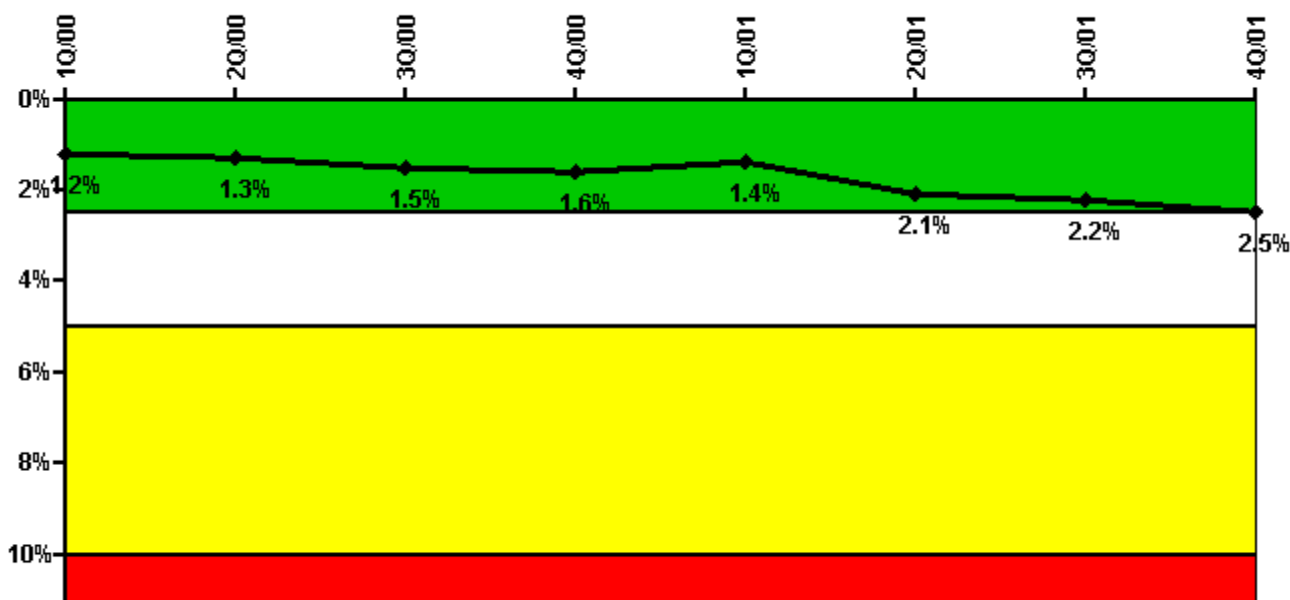
Thresholds: White > 6.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2184.0	1646.0	2208.0	2189.6	2160.0	2145.9	2208.0	943.6
Indicator value	0.8	0.8	0.8	0.9	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



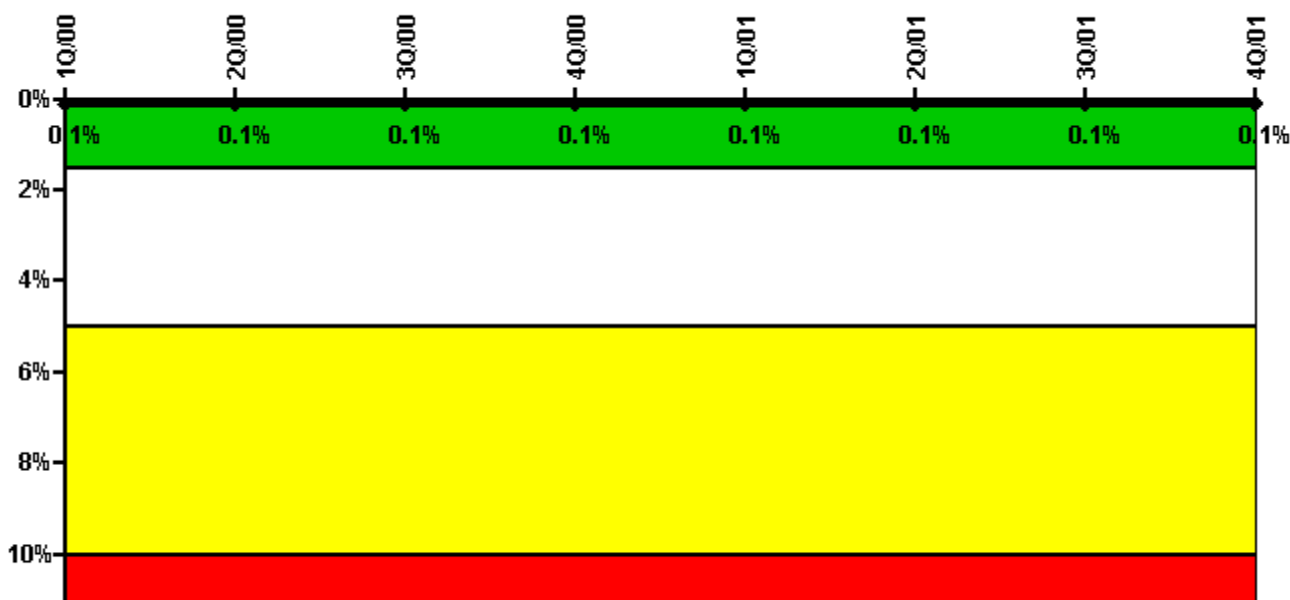
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	13.40	26.60	17.39	11.50	14.05	5.97	86.35	1.35
Unplanned unavailable hours	0	0	83.68	0	0	0	13.13	0
Fault exposure hours	0	0	0	0	0	0	0	237.77
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00	1008.45
Train 2								
Planned unavailable hours	26.08	16.86	33.78	19.74	26.29	15.55	16.18	1.95
Unplanned unavailable hours	0	50.20	0	10.30	0	131.35	0.33	0
Fault exposure hours	0	0	0	0	0	192.03	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	1008.45
Indicator value	1.2%	1.3%	1.5%	1.6%	1.4%	2.1%	2.2%	2.5%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

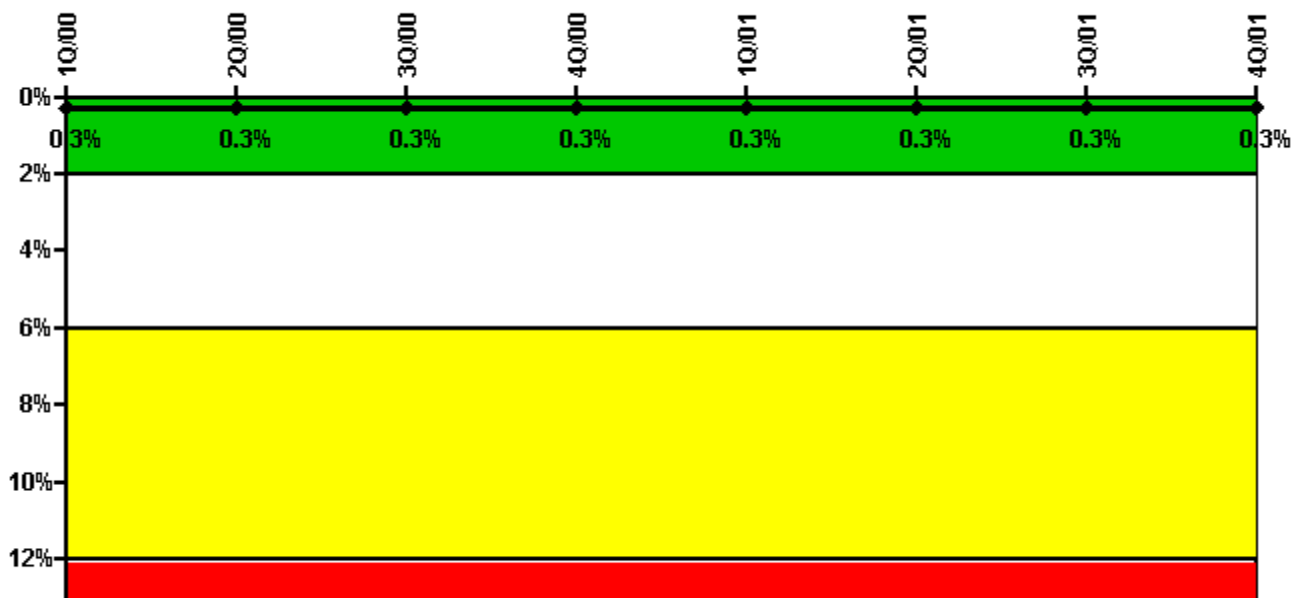
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	5.20	0	0	0	3.60	0	0	0
Unplanned unavailable hours	0	1.20	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	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70
Train 2								
Planned unavailable hours	10.00	9.70	0	1.00	0.70	0.50	2.50	0.70
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	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments:

4Q/01: An audit of data required correcting planned unavailability hours for Train 2 for November, 2000 and August, 2001. Data was corrected with no change in color.

Safety System Unavailability, Heat Removal System (AFW)



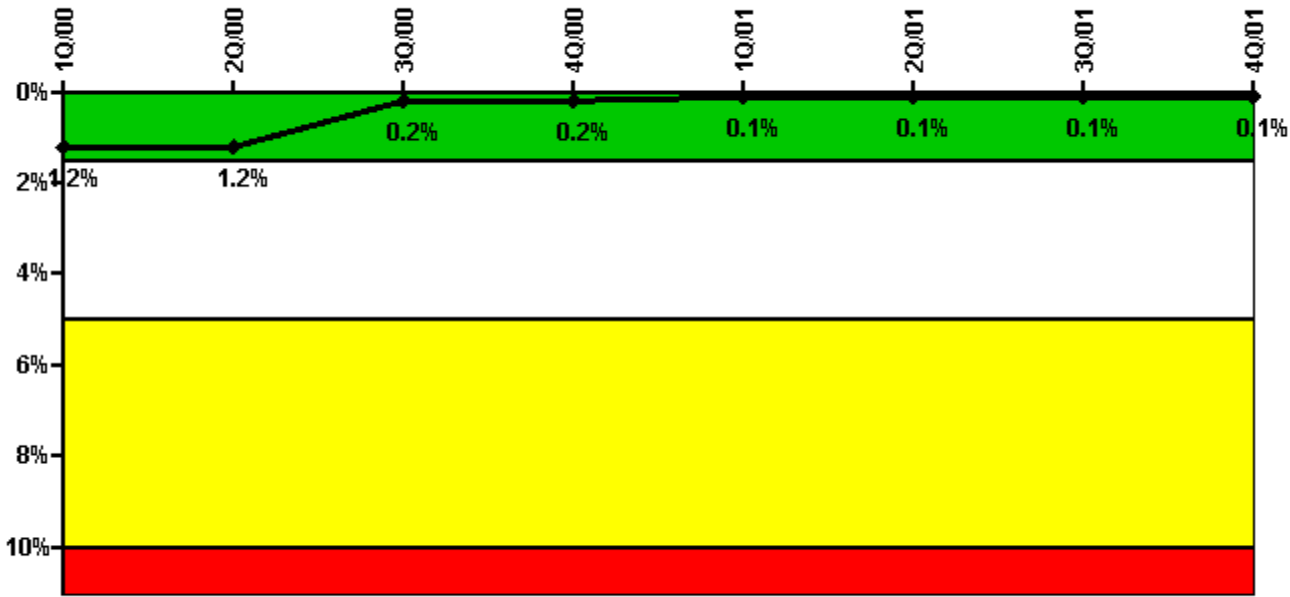
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	2.90	0.60	3.19	15.57	12.40	1.80	12.20	0.20
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	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70
Train 2								
Planned unavailable hours	1.50	1.20	0.92	2.23	0	1.90	1.60	1.00
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	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70
Train 3								
Planned unavailable hours	19.90	11.30	2.48	18.20	11.30	3.50	1.40	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	1699.00	2197.00	2209.00	2160.00	2183.00	2208.00	994.70
Indicator value	0.3%	0.3%	0.3%	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

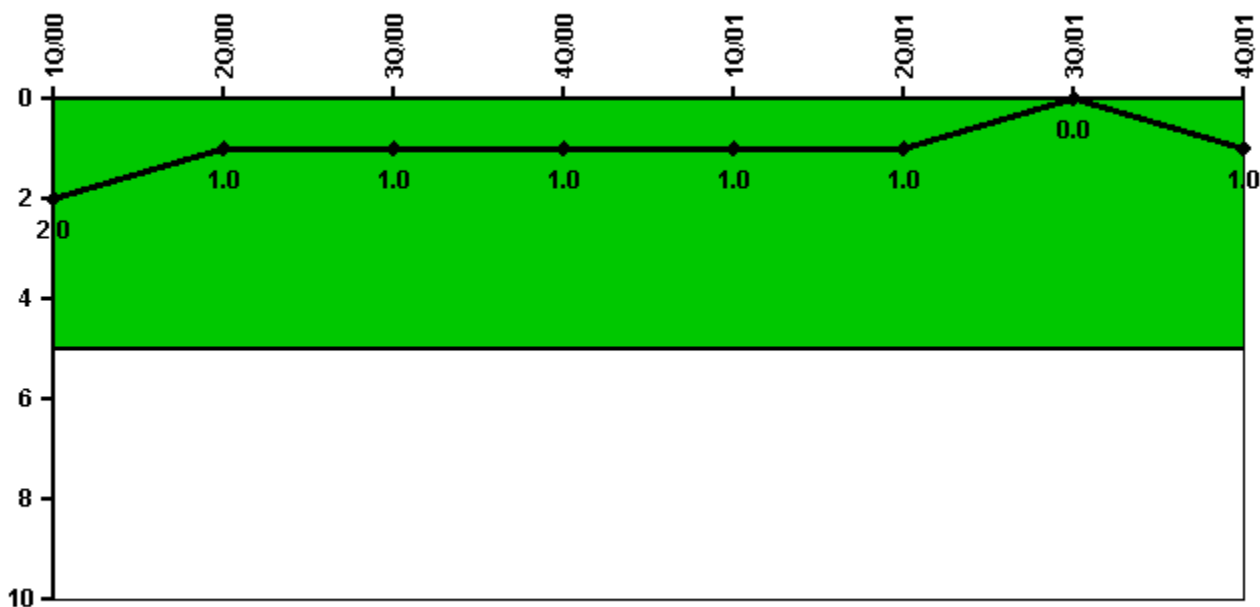
Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	10.00	0.40	0.58	0	1.10	0.20	11.50	0.20
Unplanned unavailable hours	0	1.50	0	0	2.10	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	1771.80
Train 2								
Planned unavailable hours	0.10	0.40	13.15	0	0.10	0.10	0.50	0.20
Unplanned unavailable hours	0	0	0	0	2.10	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	1015.00	0	0	0	0	0
Required hours	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	1771.80
Train 3								
Planned unavailable hours	0	10.40	0	0	0	0	0	9.40
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	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00	1963.30
Train 4								
Planned unavailable hours	0	10.50	0	0	0	0	0	9.40
Unplanned unavailable hours	0	6.80	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	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00	1963.30
Indicator value	1.2%	1.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

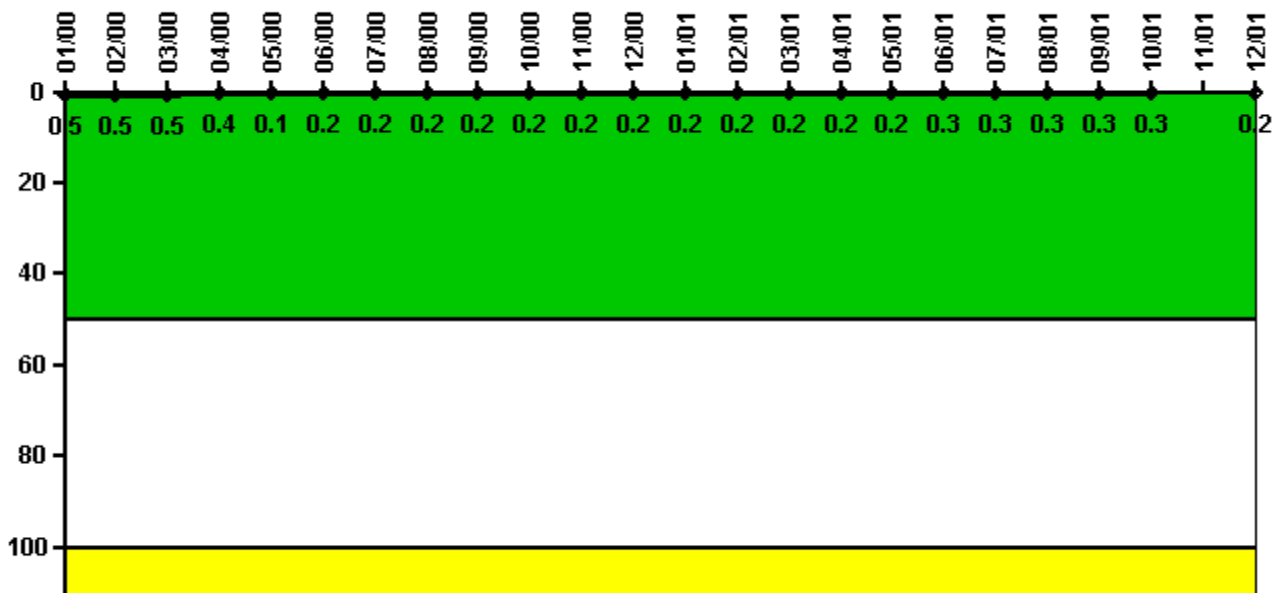
Notes

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	1	0	0	0	0	1
Indicator value	2	1	1	1	1	1	0	1

Licensee Comments:

4Q/01: Refer to Licensing Event Report 50-280, 281/01002-00

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

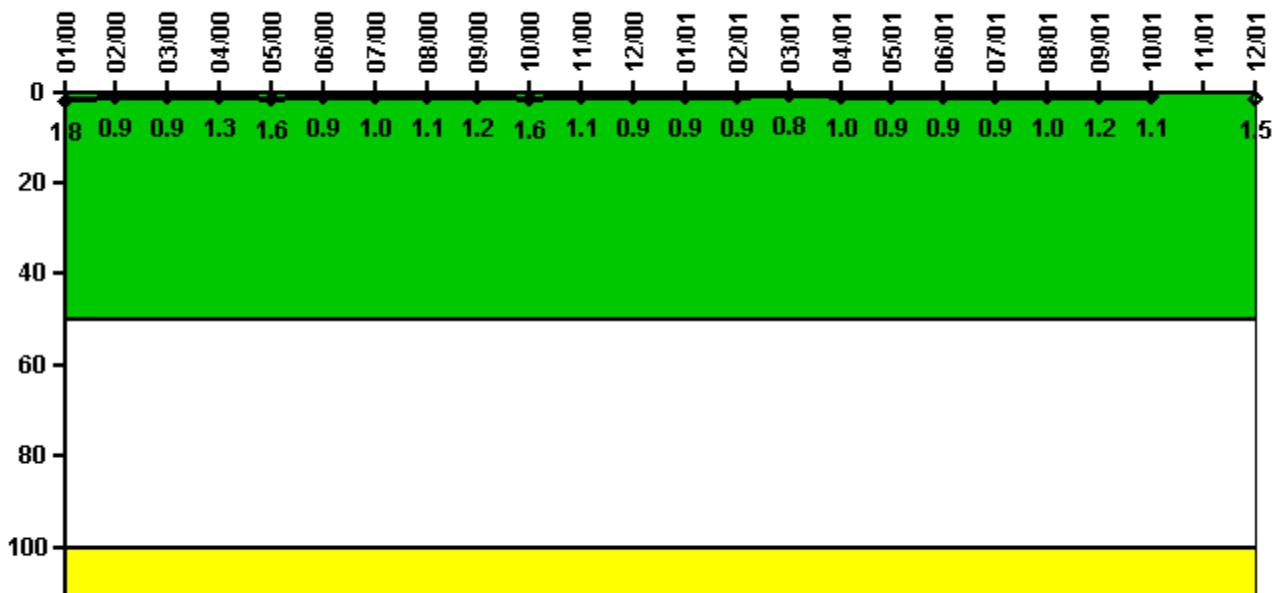
Notes

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	0.004500	0.004660	0.005130	0.003910	0.001360	0.001720	0.001550	0.001770	0.002050	0.002060	0.002060	0.002000
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.5	0.5	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2

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	0.002240	0.002240	0.002270	0.002450	0.002450	0.002500	0.002630	0.002840	0.003020	0.002670	N/A	0.001550
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	N/A	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

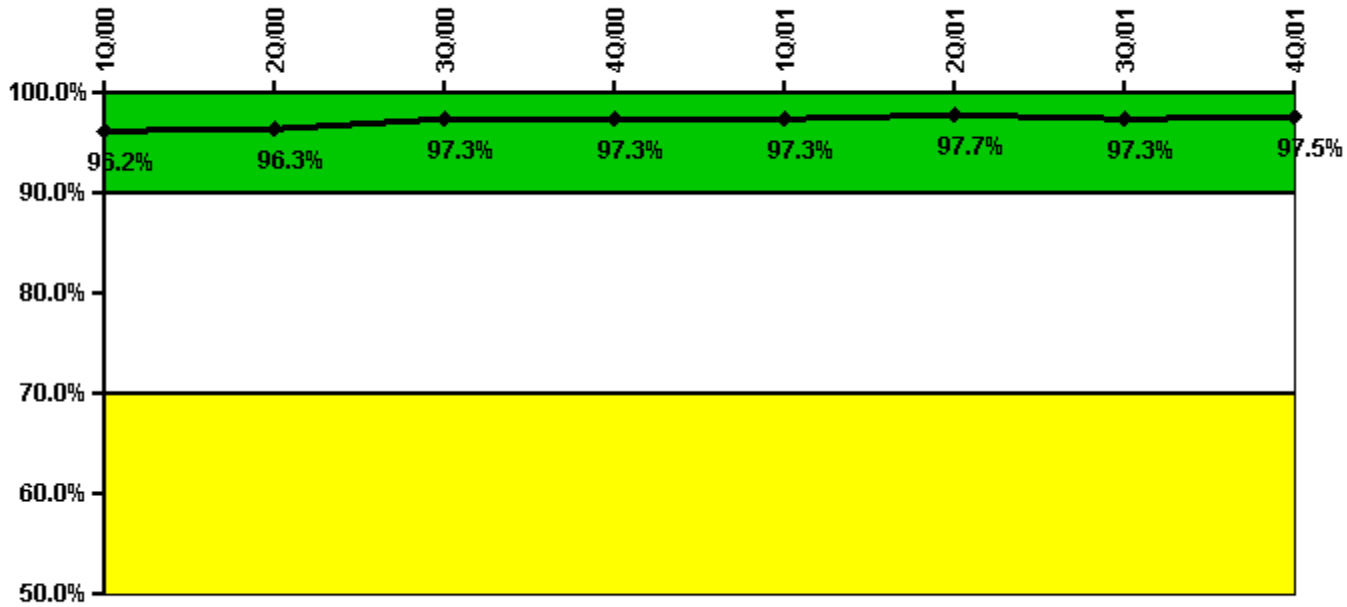
Notes

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	0.180	0.090	0.090	0.130	0.160	0.090	0.100	0.110	0.120	0.160	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	1.8	0.9	0.9	1.3	1.6	0.9	1.0	1.1	1.2	1.6	1.1	0.9

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	0.090	0.090	0.080	0.100	0.090	0.090	0.090	0.100	0.120	0.110	N/A	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	0.9	0.9	0.8	1.0	0.9	0.9	0.9	1.0	1.2	1.1	N/A	1.5

Licensee Comments: none

Drill/Exercise Performance



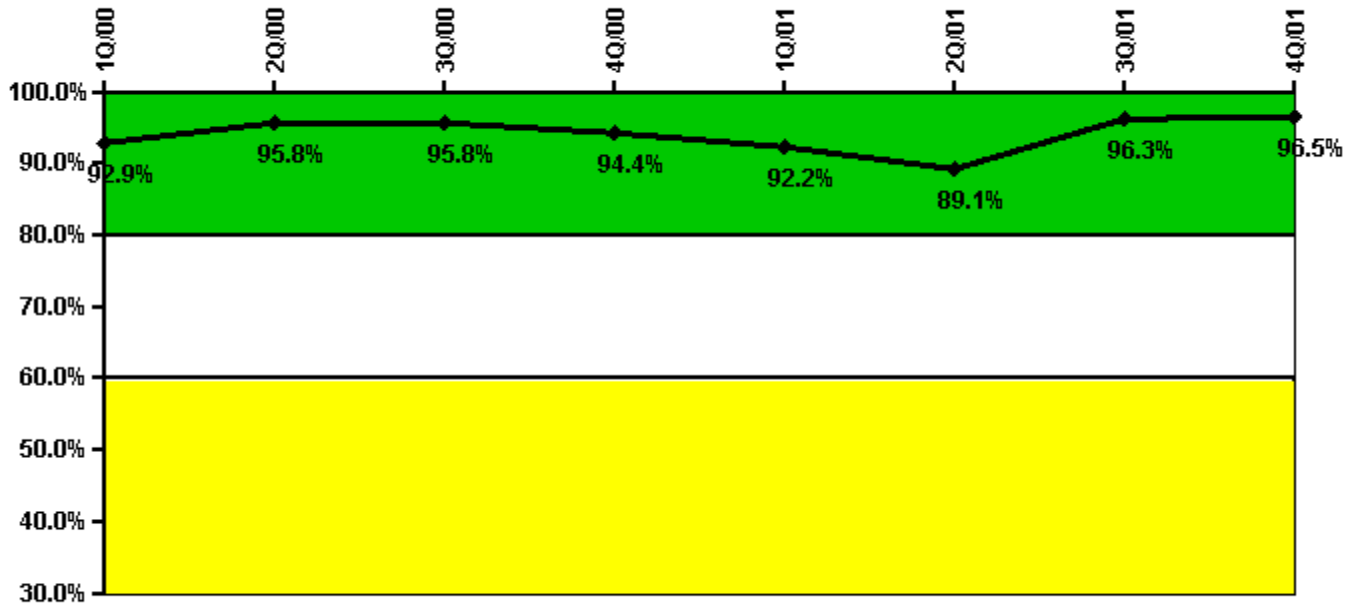
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	44.0	7.0	72.0	0	0	49.0	39.0	27.0
Total opportunities	45.0	7.0	72.0	0	0	51.0	41.0	28.0
Indicator value	96.2%	96.3%	97.3%	97.3%	97.3%	97.7%	97.3%	97.5%

Licensee Comments: none

ERO Drill Participation



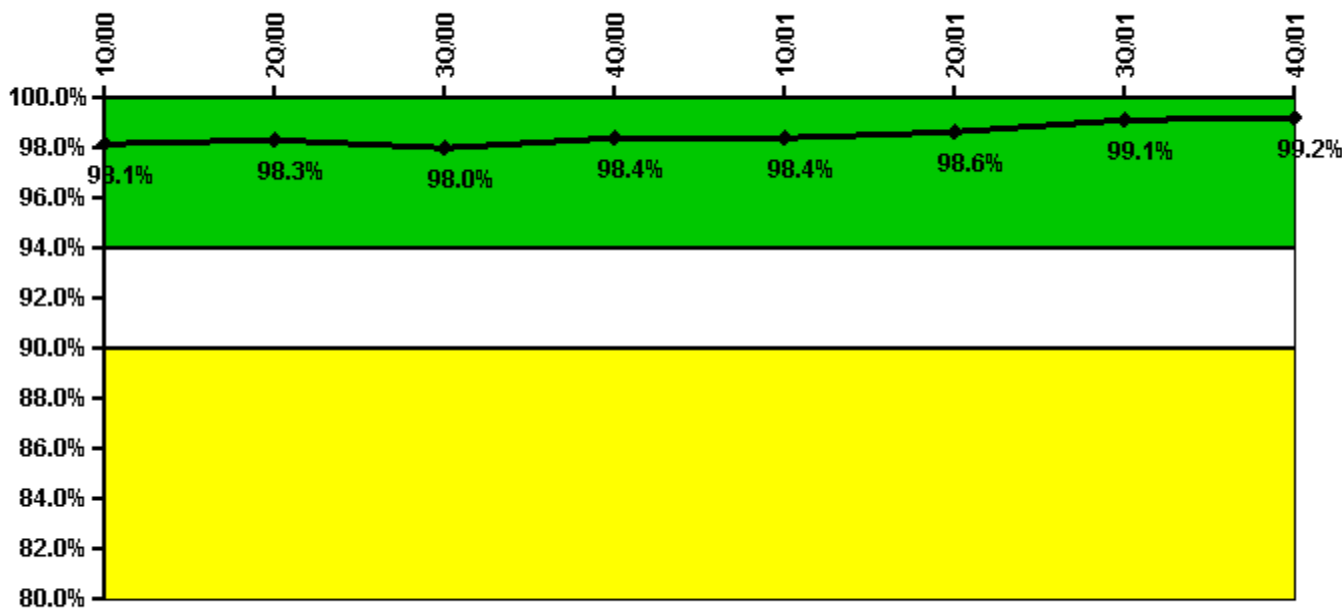
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	157.0	158.0	161.0	136.0	119.0	123.0	129.0	137.0
Total Key personnel	169.0	165.0	168.0	144.0	129.0	138.0	134.0	142.0
Indicator value	92.9%	95.8%	95.8%	94.4%	92.2%	89.1%	96.3%	96.5%

Licensee Comments: none

Alert & Notification System



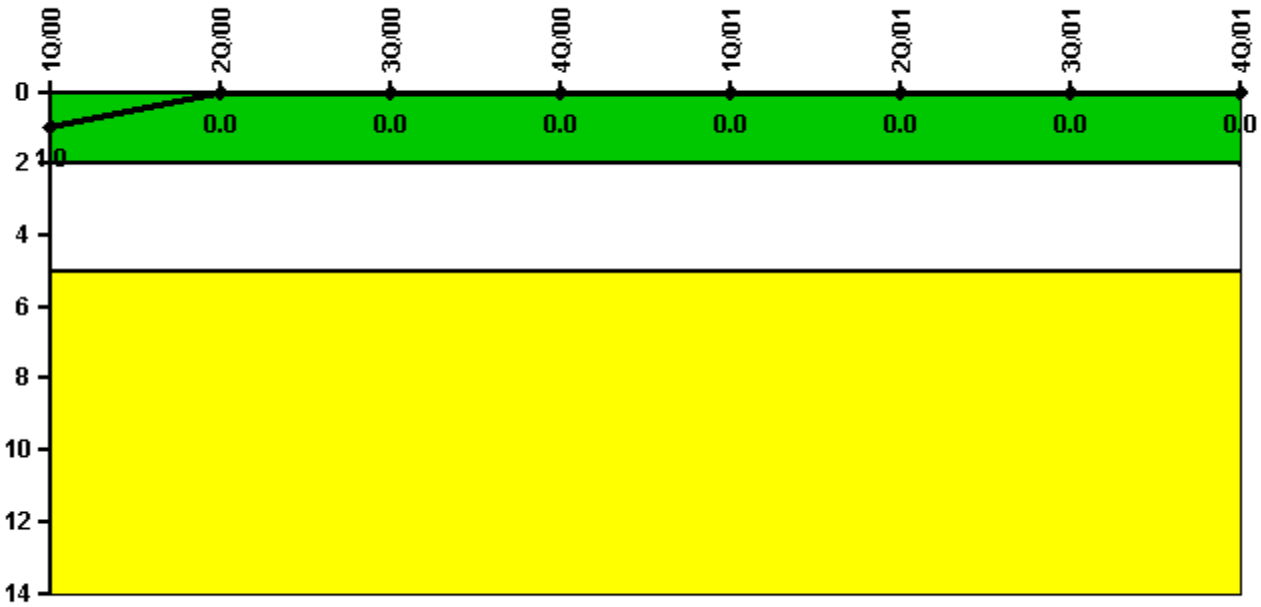
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful siren-tests	498	441	437	444	442	507	447	508
Total sirens-tests	506	448	448	448	448	512	448	512
Indicator value	98.1%	98.3%	98.0%	98.4%	98.4%	98.6%	99.1%	99.2%

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	1	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



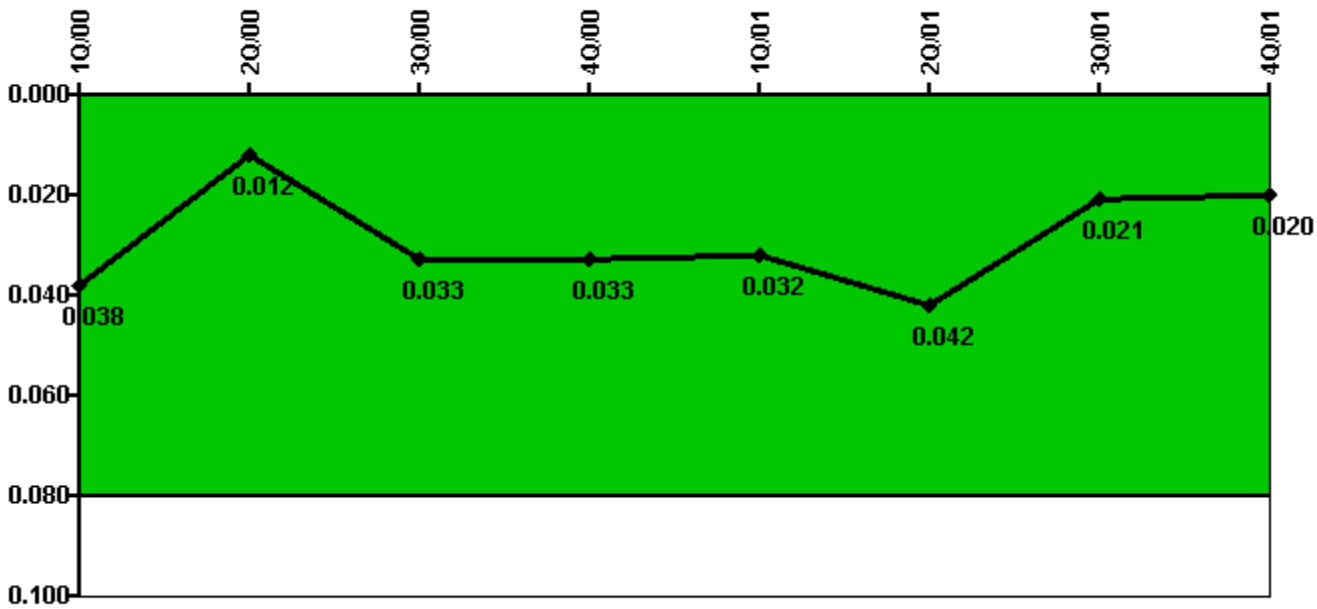
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/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	26.05	59.40	513.85	16.10	0	246.48	117.92	0
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.038	0.012	0.033	0.033	0.032	0.042	0.021	0.020

Licensee Comments:

4Q/01: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

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

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Last Modified: March 15, 2002