

Listing of Statistics for Run1-2006 (Created Mon May 08 09:04:27 CDT 2006)

Total Amount of User Time in this interval 1654.94 Hours

User periods in this interval

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01/31/2006 08:00 To 02/07/2006 08:00 168.00 Hours, Delivered Beam:
166.72 Hours, 2 Fault(s), 83.36 MTBF, 99.24% of Sched. Time
02/08/2006 08:00 To 02/14/2006 08:00 144.00 Hours, Delivered Beam:
143.47 Hours, 1 Fault(s), 143.47 MTBF, 99.63% of Sched. Time
02/15/2006 08:00 To 02/20/2006 08:00 120.00 Hours, Delivered Beam:
119.51 Hours, 1 Fault(s), 119.51 MTBF, 99.59% of Sched. Time
02/22/2006 08:00 To 02/28/2006 08:00 144.00 Hours, Delivered Beam:
144.00 Hours, 0 Fault(s), 144.00 MTBF, 100.00% of Sched. Time
03/01/2006 08:00 To 03/07/2006 08:00 144.00 Hours, Delivered Beam:
141.57 Hours, 1 Fault(s), 141.57 MTBF, 98.31% of Sched. Time
03/08/2006 08:00 To 03/13/2006 08:00 120.00 Hours, Delivered Beam:
115.23 Hours, 4 Fault(s), 28.81 MTBF, 96.03% of Sched. Time
03/15/2006 08:00 To 03/21/2006 08:00 144.00 Hours, Delivered Beam:
144.00 Hours, 0 Fault(s), 144.00 MTBF, 100.00% of Sched. Time
03/22/2006 08:00 To 03/28/2006 08:00 144.00 Hours, Delivered Beam:
143.99 Hours, 0 Fault(s), 143.99 MTBF, 100.00% of Sched. Time
03/29/2006 08:00 To 04/03/2006 08:00 119.00 Hours, Delivered Beam:
119.00 Hours, 0 Fault(s), 119.00 MTBF, 100.00% of Sched. Time
04/05/2006 08:00 To 04/11/2006 08:00 144.00 Hours, Delivered Beam:
143.99 Hours, 0 Fault(s), 143.99 MTBF, 99.99% of Sched. Time
04/12/2006 08:00 To 04/18/2006 08:00 144.00 Hours, Delivered Beam:
139.29 Hours, 3 Fault(s), 46.43 MTBF, 96.73% of Sched. Time
04/19/2006 08:00 To 04/24/2006 08:00 120.00 Hours, Delivered Beam:
106.66 Hours, 1 Fault(s), 106.66 MTBF, 88.88% of Sched. Time

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Delivered Beam                1627.43 Hours
Percentage of Scheduled Time   98.34 %
Downtime During Period        27.51 Hours
Percentage of scheduled time SR current > 10 ma 98.51 %
Average Delivered Current During This Period    100.15 mA
Total integrated Current During This Period     162.99 A-hr

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Mean Fill Duration in Period    116.25 Hours
Mean Fill Duration from Poisson Fit 174.05 Hours
Mean Time Between Faults (MTBF) 125.19 Hours
Faults per Day of Delivered Beam 0.19
Total Number of Faults         13
Scheduled Topup Time           1271.00 Hours

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Length      Downtime is associated with the end of a fill.
Valid fills Beginning in this Time Interval| Reason for
| of The first fill of a period will have any
Fill# Start End Duration | Fill Termination
| Downtime downtime before the fill on the line above.
| (min: 1.0) |
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| 0.03 SR orbit controllaw problem [DIAG]
# 1 01/31 08:01 To 01/31 15:26 7.41 | CPU PS & IOC reboot[CTL]
| 0.53 refill [CTL]
# 2 01/31 15:58 To 02/02 11:05 43.11 | Steering Software [OAG]
| 0.71 Refill [OAG]
# 3 02/02 11:48 To 02/07 07:59 116.20 | Int Dump: End of Period
| 0.00
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| 0.00
# 4 02/08 08:00 To 02/13 07:31 119.53 | RTFB problem [CTL]
| 0.52 Investigation, refill
# 5 02/13 08:03 To 02/14 07:59 23.95 | Int Dump: End of Period
| 0.00
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| 0.00
# 6 02/15 08:00 To 02/17 06:26 46.44 | SR RF AGC disengaged[RF]
| 0.48 Investigation, refill [RF]
# 7 02/17 06:55 To 02/20 07:59 73.07 | Int Dump: End of Period
| 0.00
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| 0.00
# 8 02/22 08:00 To 02/28 07:59 144.00 | Int Dump: End of Period
| 0.00
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| 0.00
# 9 03/01 08:00 To 03/05 21:45 109.76 | S:BM:PS current loss[PS]
| 2.42 SR Dipole glitch 0.92[PS],TM alarm limits 1.5[OPS]
# 10 03/06 00:11 To 03/07 08:00 31.81 | Int Dump: End of Period
| -0.00
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| 0.00
# 11 03/08 08:00 To 03/09 16:00 32.00 | 11-ID PSS trip [EOS]
| 0.72 Recovery from trip to CA, refill
# 12 03/09 16:43 To 03/11 09:04 40.34 | RF4 Cathode V drop [RF]
| 3.10 RF4 0.7hr[RF], problems storing beam 2.4hr[Unknown]
# 13 03/11 12:10 To 03/12 06:34 18.40 | RF4 Cathode V drop [RF]
| 0.40 Investigation, refill
# 14 03/12 06:58 To 03/12 23:43 16.75 | RF4 Cathode V drop [RF]
| 0.54 Investigation, refill
# 15 03/13 00:15 To 03/13 07:59 7.73 | Int Dump: End of Period
| 0.00
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| 0.00
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16 03/15 08:00 To 03/21 08:00 144.00 | Int Dump: End of Period
| -0.00

| 0.00
17 03/22 08:00 To 03/28 07:59 143.99 | Int Dump: End of Period
| 0.00

| 0.00
18 03/29 08:00 To 04/03 07:59 119.00 | Int Dump: End of Period
| 0.00

| 0.01
19 04/05 08:00 To 04/11 07:59 143.99 | Int Dump: End of Period
| 0.00

| 0.00
20 04/12 08:00 To 04/14 21:44 61.74 | Booster ACIS problem[SI]
| 0.68 Dropped below 60mA, replaced processor, filled [SI]
21 04/14 22:24 To 04/16 14:18 39.89 | Weather-Related [Other]
| 0.53 Reset RF4 and B:IS:PS, refilled
22 04/16 14:50 To 04/17 13:18 22.47 | Power disturbance[ComEd]
| 3.49 PS condition error, OC error; 1hr[Other], 2.5hr [OA]
23 04/17 16:47 To 04/18 07:59 15.20 | Int Dump: End of Period
| 0.00

| 0.00
24 04/19 08:00 To 04/21 23:47 63.79 | ACIS UPS failure [IT]
| 13.33 4.52hr[IT]2.4hr[SI]2.07hr[RF]2.5hr[PS]3.3hr[OA]2.85h
25 04/22 13:07 To 04/24 07:59 42.87 | Int Dump: End of Period
| 0.00

Top-Up Mode Statistics

Target Current Range 2.0, Minimum Injector Downtime = 8.0 minutes

Total

Current in Range during Scheduled Topup Time	97.04 %
Current in Range during Delivered Beam Time	97.58 %
Injector Availability	97.44 %

Period Beginning 01/31/2006 08:00

Current in Range 88.74 %

Injector Availability 88.17 %

Out of Range at: 01/31/2006 10:28:43 to 01/31/2006 11:01:03 :
32.33 minutes

Injector downtime: 01/31/2006 10:23:48 to 01/31/2006 11:00:58 :
37.17 minutes

Out of Range at: 01/31/2006 12:21:25 to 01/31/2006 12:44:25 :
23.00 minutes
Injector downtime: 01/31/2006 12:16:30 to 01/31/2006 12:44:20 :
27.83 minutes
Out of Range at: 01/31/2006 15:22:55 to 01/31/2006 15:26:25 :
3.50 minutes
Injector downtime: 01/31/2006 15:14:55 to 01/31/2006 15:22:55 :
8.00 minutes (est)
Out of Range at: 01/31/2006 20:23:06 to 01/31/2006 21:31:45 :
68.65 minutes
Injector downtime: 01/31/2006 20:18:11 to 01/31/2006 21:19:35 :
61.40 minutes
Out of Range at: 01/31/2006 21:35:45 to 01/31/2006 23:59:55 :
144.17 minutes
Injector downtime: 01/31/2006 21:36:30 to 01/31/2006 23:59:25 :
142.92 minutes
Out of Range at: 02/01/2006 00:04:55 to 02/01/2006 03:13:25 :
188.50 minutes
Injector downtime: 02/01/2006 00:00:00 to 02/01/2006 03:13:20 :
193.33 minutes
Out of Range at: 02/01/2006 04:05:35 to 02/01/2006 06:40:15 :
154.67 minutes
Injector downtime: 02/01/2006 04:00:40 to 02/01/2006 06:40:10 :
159.50 minutes
Out of Range at: 02/01/2006 07:18:25 to 02/01/2006 10:38:35 :
200.17 minutes
Injector downtime: 02/01/2006 07:13:30 to 02/01/2006 10:36:25 :
202.92 minutes
Out of Range at: 02/01/2006 12:15:35 to 02/01/2006 12:17:45 :
2.17 minutes
Injector downtime: 02/01/2006 12:07:35 to 02/01/2006 12:15:35 :
8.00 minutes (est)
Out of Range at: 02/01/2006 12:23:35 to 02/01/2006 12:27:45 :
4.17 minutes
Injector downtime: 02/01/2006 12:15:35 to 02/01/2006 12:23:35 :
8.00 minutes (est)
Out of Range at: 02/01/2006 16:28:05 to 02/01/2006 17:15:55 :
47.83 minutes
Injector downtime: 02/01/2006 16:23:10 to 02/01/2006 17:13:45 :
50.58 minutes
Out of Range at: 02/01/2006 17:26:05 to 02/01/2006 17:41:55 :
15.83 minutes
Injector downtime: 02/01/2006 17:21:10 to 02/01/2006 17:41:50 :
20.67 minutes
Out of Range at: 02/02/2006 12:22:45 to 02/02/2006 12:44:25 :
21.67 minutes
Injector downtime: 02/02/2006 12:17:50 to 02/02/2006 12:42:15 :
24.42 minutes
Out of Range at: 02/02/2006 13:02:35 to 02/02/2006 14:11:35 :
69.00 minutes
Injector downtime: 02/02/2006 12:57:40 to 02/02/2006 14:09:25 :
71.75 minutes
Out of Range at: 02/05/2006 09:03:15 to 02/05/2006 09:53:35 :
50.33 minutes
Injector downtime: 02/05/2006 08:58:20 to 02/05/2006 09:47:15 :
48.92 minutes

Out of Range at: 02/05/2006 11:54:06 to 02/05/2006 13:16:25 :
82.32 minutes
Injector downtime: 02/05/2006 11:49:11 to 02/05/2006 13:16:20 :
87.15 minutes
Out of Range at: 02/06/2006 07:14:25 to 02/06/2006 07:14:25 :
0.00 minutes
Injector downtime: 02/06/2006 07:06:25 to 02/06/2006 07:14:25 :
8.00 minutes (est)
Out of Range at: 02/07/2006 05:32:05 to 02/07/2006 05:50:25 :
18.33 minutes
Injector downtime: 02/07/2006 05:27:10 to 02/07/2006 05:50:20 :
23.17 minutes

Period Beginning 02/08/2006 08:00
Current in Range 100.00 %
Injector Availability 100.00 %

Period Beginning 02/15/2006 08:00
Current in Range 98.81 %
Injector Availability 98.62 %
Out of Range at: 02/16/2006 00:16:35 to 02/16/2006 00:16:35 :
0.00 minutes
Injector downtime: 02/16/2006 00:08:35 to 02/16/2006 00:16:35 :
8.00 minutes (est)
Out of Range at: 02/16/2006 00:46:05 to 02/16/2006 00:50:35 :
4.50 minutes
Injector downtime: 02/16/2006 00:38:05 to 02/16/2006 00:46:05 :
8.00 minutes (est)
Out of Range at: 02/16/2006 01:25:55 to 02/16/2006 01:36:35 :
10.67 minutes
Injector downtime: 02/16/2006 01:17:55 to 02/16/2006 01:25:55 :
8.00 minutes (est)
Out of Range at: 02/16/2006 03:31:25 to 02/16/2006 03:40:36 :
9.18 minutes
Injector downtime: 02/16/2006 03:23:25 to 02/16/2006 03:31:25 :
8.00 minutes (est)
Out of Range at: 02/16/2006 03:44:26 to 02/16/2006 03:44:36 :
0.17 minutes
Out of Range at: 02/16/2006 04:14:06 to 02/16/2006 04:16:36 :
2.50 minutes
Injector downtime: 02/16/2006 04:06:06 to 02/16/2006 04:14:06 :
8.00 minutes (est)
Out of Range at: 02/20/2006 03:15:45 to 02/20/2006 04:14:15 :
58.50 minutes
Injector downtime: 02/20/2006 03:10:50 to 02/20/2006 04:09:55 :
59.08 minutes

Period Beginning 02/22/2006 08:00
Current in Range 99.15 %
Injector Availability 99.12 %
Out of Range at: 02/22/2006 08:00:14 to 02/22/2006 09:13:54 :
73.67 minutes
Injector downtime: 02/22/2006 07:55:19 to 02/22/2006 09:11:34 :
76.25 minutes

Period Beginning 03/15/2006 08:00
Current in Range 97.54 %

Injector Availability	97.28 %
Out of Range at:	03/15/2006 11:50:22 to 03/15/2006 12:07:22 :
17.00 minutes	
Injector downtime:	03/15/2006 11:45:27 to 03/15/2006 12:07:17 :
21.83 minutes	
Out of Range at:	03/15/2006 12:30:42 to 03/15/2006 12:30:42 :
0.00 minutes	
Injector downtime:	03/15/2006 12:22:42 to 03/15/2006 12:30:42 :
8.00 minutes (est)	
Out of Range at:	03/18/2006 04:39:42 to 03/18/2006 04:43:42 :
4.00 minutes	
Injector downtime:	03/18/2006 04:31:42 to 03/18/2006 04:39:42 :
8.00 minutes (est)	
Out of Range at:	03/18/2006 05:18:52 to 03/18/2006 05:55:42 :
36.83 minutes	
Injector downtime:	03/18/2006 05:13:57 to 03/18/2006 05:49:32 :
35.58 minutes	
Out of Range at:	03/20/2006 02:44:22 to 03/20/2006 03:29:33 :
45.18 minutes	
Injector downtime:	03/20/2006 02:39:27 to 03/20/2006 02:57:12 :
17.75 minutes	
Injector downtime:	03/20/2006 03:01:42 to 03/20/2006 03:29:28 :
27.77 minutes	
Out of Range at:	03/20/2006 18:44:52 to 03/20/2006 19:19:42 :
34.83 minutes	
Injector downtime:	03/20/2006 18:39:57 to 03/20/2006 19:17:22 :
37.42 minutes	
Out of Range at:	03/21/2006 06:45:32 to 03/21/2006 07:59:52 :
74.33 minutes	
Injector downtime:	03/21/2006 06:40:37 to 03/21/2006 07:59:22 :
78.75 minutes	
Period Beginning 03/22/2006 08:00	
Current in Range	100.00 %
Injector Availability	100.00 %
Period Beginning 03/29/2006 08:00	
Current in Range	100.00 %
Injector Availability	100.00 %
Period Beginning 04/05/2006 08:00	
Current in Range	99.88 %
Injector Availability	99.91 %
Out of Range at:	04/07/2006 17:08:45 to 04/07/2006 17:18:46 :
10.02 minutes	
Injector downtime:	04/07/2006 17:00:45 to 04/07/2006 17:08:45 :
8.00 minutes (est)	
Period Beginning 04/12/2006 08:00	
Current in Range	96.13 %
Injector Availability	95.98 %
Out of Range at:	04/14/2006 16:29:04 to 04/14/2006 21:44:14 :
315.17 minutes	
Injector downtime:	04/14/2006 16:24:09 to 04/14/2006 21:44:09 :
320.00 minutes	
Out of Range at:	04/14/2006 22:25:04 to 04/14/2006 22:27:44 :
2.67 minutes	

Injector downtime: 04/14/2006 22:17:04 to 04/14/2006 22:25:04 :
8.00 minutes (est)
Out of Range at: 04/17/2006 19:54:45 to 04/17/2006 20:00:45 :
6.00 minutes
Injector downtime: 04/17/2006 19:46:45 to 04/17/2006 19:54:45 :
8.00 minutes (est)