



| 0.01  
# 1 06/01 08:00 To 06/01 15:52 7.88 | S19 DPBLD Trip [OAG]  
| 0.33 Steering PEM loaded wrong S23 Cant PS setpoints  
# 2 06/01 16:12 To 06/01 23:59 7.78 | SR-RF4 Trip (RF)  
| 0.47 RF4 trip on S40 vacuum, restored RF, refill.  
# 3 06/02 00:27 To 06/05 01:44 73.29 | SR PS GESPAC [PS]  
| 0.91 Intentional dump to replace GESPAC PS, refill.  
# 4 06/05 02:39 To 06/06 07:59 29.34 | Int Dump: End of Period  
| 0.00

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| 0.37 S19 MPS Trip Delayed User Operations (ME)  
# 5 06/07 08:21 To 06/08 03:30 19.14 | S5 MPS Trip [ME]  
| 1.24 H2O flow trip, S5 love controller replaced.  
# 6 06/08 04:44 To 06/11 19:17 86.54 | SR-RF2 Trip [RF]  
| 6.38 UVC Display Failure, switch problems, etc.  
# 7 06/12 01:39 To 06/13 19:30 41.84 | 20-ID DPBLD Trip [Unkwn]  
| 0.53 Under investigation, refill, resume top-up.  
# 8 06/13 20:02 To 06/13 23:59 3.96 | Int Dump: End of Period  
| 0.00

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| 0.00  
# 9 06/14 08:00 To 06/14 20:52 12.86 | RF5 PSS Trip [OPS]  
| 0.77 Cell phone generated the RF PSS trip, refill.  
# 10 06/14 21:38 To 06/20 07:59 130.36 | Int Dump: End of Period  
| 0.00

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| 1.00 Orbit Recovery Delayed due to Human Error [OPS]  
# 11 06/21 09:00 To 06/27 08:46 143.77 | S28 MPS Trip [ME]  
| 0.59 S28 Absorber Flow trip, love controller replaced.  
# 12 06/27 09:21 To 06/28 00:10 14.80 | Int Dump: End of Period  
| 0.00

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| 2.00 Access for Booster water leak. [ME]  
# 13 06/28 09:59 To 07/04 08:00 142.00 | Int Dump: End of Period  
| -0.00

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| 0.00  
# 14 07/06 08:01 To 07/10 01:03 89.03 | SR-RF4 [RF]  
| 0.37 SR-RF4 gap voltage drop out, reset, refill.  
# 15 07/10 01:25 To 07/11 05:59 28.57 | S21A:S4 Trip [PS]  
| 0.92 S21A:S4 trip, swapped out supply, refill.  
# 16 07/11 06:54 To 07/11 15:59 9.08 | Int Dump: End of Period  
| 0.00

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	0.00					
# 17	07/12 08:00	To 07/16 05:35	93.58	S10 DPBLD		[PS]
	0.38 S29B:H1 suspect, supply swapped, will monitor.					
# 18	07/16 05:57	To 07/16 19:34	13.62	S10 DPBLD		[PS]
	0.39 Suspect S29B:H1 as cause, supply swapped.					
# 19	07/16 19:58	To 07/18 00:29	28.52	S10 DPBLD		[PS]
	0.24 S29B:H1 suspect, supply has been swapped out.					
# 20	07/18 00:43	To 07/18 03:07	2.40	SR-RF4 Trip		[RF]
	0.33 LLRF detector trip, reset, refill, resume top-up.					
# 21	07/18 03:27	To 07/18 08:00	4.54	Int Dump: End of Period		
	-0.00					

	0.00					
# 22	07/20 08:00	To 07/22 00:33	40.56	Unknown Beam Motion		[?]
	0.32 Under investigation					
# 23	07/22 00:52	To 07/25 23:59	95.12	Int Dump: End of Period		
	0.00					

	0.01					
# 24	07/26 08:00	To 07/26 13:34	5.57	Unknown Beam Motion		[?]
	0.50 Under investigation					
# 25	07/26 14:04	To 08/01 07:59	137.93	Int Dump: End of Period		
	0.00					

	0.01					
# 26	08/03 08:00	To 08/08 15:59	127.99	Int Dump: End of Period		
	0.00					

	0.01					
# 27	08/09 08:00	To 08/11 21:43	61.71	S15 EPS Trip		[SI]
	4.24 Love Controller was replaced, beam restored.					
# 28	08/12 01:57	To 08/15 08:26	78.48	S11 FE-EPS		[XFD]
	2.17 Low flow for BPM1, possible restriction.					
# 29	08/15 10:36	To 08/15 15:59	5.38	Int Dump: End of Period		
	0.00					

	0.00					
# 30	08/16 08:00	To 08/18 15:26	55.43	S23B:Q5 trip		[PS]
	1.70 Quad power supply was swapped, refill.					
# 31	08/18 17:07	To 08/19 16:54	23.78	S11B:Q2 PS trip		[PS]
	1.28 Quad power supply swapped, refill					
# 32	08/19 18:11	To 08/25 23:59	149.80	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	96.05 %
Current in Range during Delivered Beam Time	97.71 %
Injector Availability	97.60 %

Period Beginning 06/01/2005 08:00

Current in Range	100.00 %
Injector Availability	100.00 %

Period Beginning 06/07/2005 08:00

Current in Range	98.59 %
Injector Availability	98.43 %

Out of Range at: 06/07/2005 19:58:00 to 06/07/2005 21:10:40 :  
72.67 minutes

Injector downtime: 06/07/2005 19:53:05 to 06/07/2005 21:10:00 :  
76.92 minutes

Out of Range at: 06/09/2005 11:05:02 to 06/09/2005 11:23:12 :  
18.17 minutes

Injector downtime: 06/09/2005 11:00:07 to 06/09/2005 11:23:07 :  
23.00 minutes

Out of Range at: 06/11/2005 16:06:52 to 06/11/2005 16:44:22 :  
37.50 minutes

Injector downtime: 06/11/2005 16:01:57 to 06/11/2005 16:44:17 :  
42.33 minutes

Period Beginning 06/14/2005 08:00

Current in Range	95.75 %
Injector Availability	95.62 %

Out of Range at: 06/16/2005 23:47:52 to 06/16/2005 23:59:52 :  
12.00 minutes

Injector downtime: 06/16/2005 23:42:57 to 06/16/2005 23:59:47 :  
16.83 minutes

Out of Range at: 06/17/2005 00:04:52 to 06/17/2005 02:30:42 :  
145.83 minutes

Injector downtime: 06/16/2005 23:59:57 to 06/17/2005 01:58:22 :  
118.42 minutes

Injector downtime: 06/17/2005 02:02:32 to 06/17/2005 02:29:42 :  
27.17 minutes

Out of Range at: 06/17/2005 19:17:02 to 06/17/2005 20:02:12 :  
45.17 minutes

Injector downtime: 06/17/2005 19:12:07 to 06/17/2005 19:59:52 :  
47.75 minutes

Out of Range at: 06/18/2005 09:34:12 to 06/18/2005 12:16:32 :  
162.33 minutes

Injector downtime: 06/18/2005 09:29:17 to 06/18/2005 12:15:12 :  
165.92 minutes

Period Beginning 06/21/2005 08:00

Current in Range	97.63 %
Injector Availability	97.48 %

Out of Range at: 06/21/2005 10:45:22 to 06/21/2005 11:15:02 :  
29.67 minutes

Injector downtime: 06/21/2005 10:40:27 to 06/21/2005 11:12:42 :  
32.25 minutes

Out of Range at: 06/22/2005 18:26:52 to 06/22/2005 19:21:12 :  
54.33 minutes  
Injector downtime: 06/22/2005 18:21:57 to 06/22/2005 19:21:07 :  
59.17 minutes  
Out of Range at: 06/25/2005 15:32:42 to 06/25/2005 17:31:02 :  
118.33 minutes  
Injector downtime: 06/25/2005 15:27:47 to 06/25/2005 17:30:57 :  
123.17 minutes  
Out of Range at: 06/26/2005 12:13:12 to 06/26/2005 12:36:02 :  
22.83 minutes  
Injector downtime: 06/26/2005 12:08:17 to 06/26/2005 12:33:52 :  
25.58 minutes

Period Beginning 06/28/2005 08:00

Current in Range 98.61 %  
Injector Availability 98.50 %  
Out of Range at: 07/01/2005 08:10:32 to 07/01/2005 09:32:42 :  
82.17 minutes  
Injector downtime: 07/01/2005 08:05:37 to 07/01/2005 09:28:32 :  
82.92 minutes  
Out of Range at: 07/01/2005 09:48:32 to 07/01/2005 09:48:42 :  
0.17 minutes  
Injector downtime: 07/01/2005 09:40:32 to 07/01/2005 09:48:32 :  
8.00 minutes (est)  
Out of Range at: 07/02/2005 12:19:42 to 07/02/2005 12:55:52 :  
36.17 minutes  
Injector downtime: 07/02/2005 12:14:47 to 07/02/2005 12:51:42 :  
36.92 minutes

Period Beginning 07/12/2005 08:00

Current in Range 91.29 %  
Injector Availability 90.95 %  
Out of Range at: 07/13/2005 18:06:32 to 07/13/2005 23:59:52 :  
353.33 minutes  
Injector downtime: 07/13/2005 18:01:37 to 07/13/2005 23:59:47 :  
358.17 minutes  
Out of Range at: 07/14/2005 00:04:52 to 07/14/2005 01:51:22 :  
106.50 minutes  
Injector downtime: 07/13/2005 23:59:57 to 07/14/2005 01:50:22 :  
110.42 minutes  
Out of Range at: 07/16/2005 01:54:32 to 07/16/2005 03:19:42 :  
85.17 minutes  
Injector downtime: 07/16/2005 01:49:37 to 07/16/2005 03:19:37 :  
90.00 minutes  
Out of Range at: 07/16/2005 15:26:12 to 07/16/2005 16:35:22 :  
69.17 minutes  
Injector downtime: 07/16/2005 15:21:17 to 07/16/2005 16:35:17 :  
74.00 minutes  
Out of Range at: 07/16/2005 21:48:02 to 07/16/2005 22:19:02 :  
31.00 minutes  
Injector downtime: 07/16/2005 21:43:07 to 07/16/2005 22:18:57 :  
35.83 minutes  
Out of Range at: 07/17/2005 05:07:32 to 07/17/2005 06:09:52 :  
62.33 minutes  
Injector downtime: 07/17/2005 05:02:37 to 07/17/2005 06:07:32 :  
64.92 minutes

Out of Range at: 07/17/2005 11:03:02 to 07/17/2005 11:41:22 :  
38.33 minutes  
Injector downtime: 07/17/2005 10:58:07 to 07/17/2005 11:39:02 :  
40.92 minutes

Period Beginning 07/20/2005 08:00

Current in Range 96.48 %  
Injector Availability 96.35 %  
Out of Range at: 07/21/2005 09:52:23 to 07/21/2005 10:36:33 :  
44.17 minutes  
Injector downtime: 07/21/2005 09:47:28 to 07/21/2005 10:34:23 :  
46.92 minutes  
Out of Range at: 07/21/2005 10:55:23 to 07/21/2005 12:51:42 :  
116.32 minutes  
Injector downtime: 07/21/2005 10:50:28 to 07/21/2005 12:49:22 :  
118.90 minutes  
Out of Range at: 07/22/2005 05:00:13 to 07/22/2005 06:17:43 :  
77.50 minutes  
Injector downtime: 07/22/2005 04:55:18 to 07/22/2005 06:15:33 :  
80.25 minutes  
Out of Range at: 07/24/2005 00:39:43 to 07/24/2005 01:28:23 :  
48.67 minutes  
Injector downtime: 07/24/2005 00:34:48 to 07/24/2005 01:26:13 :  
51.42 minutes

Period Beginning 07/26/2005 08:00

Current in Range 100.00 %  
Injector Availability 100.00 %

Period Beginning 08/09/2005 08:00

Current in Range 97.67 %  
Injector Availability 97.59 %  
Out of Range at: 08/09/2005 15:30:03 to 08/09/2005 16:32:53 :  
62.83 minutes  
Injector downtime: 08/09/2005 15:25:08 to 08/09/2005 16:28:33 :  
63.42 minutes  
Out of Range at: 08/15/2005 10:53:53 to 08/15/2005 11:40:33 :  
46.67 minutes  
Injector downtime: 08/15/2005 10:48:58 to 08/15/2005 11:38:23 :  
49.42 minutes  
Out of Range at: 08/15/2005 12:56:53 to 08/15/2005 14:30:53 :  
94.00 minutes  
Injector downtime: 08/15/2005 12:51:58 to 08/15/2005 14:29:53 :  
97.92 minutes

Period Beginning 08/16/2005 08:00

Current in Range 100.00 %  
Injector Availability 99.94 %  
Out of Range at: 08/24/2005 22:36:03 to 08/24/2005 22:36:33 :  
0.50 minutes  
Injector downtime: 08/24/2005 22:28:03 to 08/24/2005 22:36:03 :  
8.00 minutes (est)