

## Listing of Statistics for Run3-2017 (Created Wed Dec 20 10:05:26 CST 2017)

### User periods in this interval

10/03/2017 08:00 To 10/09/2017 08:00 144.00 Hours, Delivered Beam: 141.57 Hours, 1 Fault(s), 141.57 MTBF, 98.31% of Sched. Time  
 10/10/2017 08:00 To 10/16/2017 08:00 144.00 Hours, Delivered Beam: 136.51 Hours, 3 Fault(s), 45.50 MTBF, 94.80% of Sched. Time  
 10/17/2017 08:01 To 10/23/2017 08:01 144.00 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s), 143.98 MTBF, 99.99% of Sched. Time  
 10/24/2017 08:01 To 10/30/2017 08:01 144.00 Hours, Delivered Beam: 142.89 Hours, 2 Fault(s), 71.44 MTBF, 99.23% of Sched. Time  
 11/01/2017 08:01 To 11/06/2017 08:00 120.98 Hours, Delivered Beam: 118.35 Hours, 3 Fault(s), 39.45 MTBF, 97.82% of Sched. Time  
 11/07/2017 08:01 To 11/13/2017 08:01 144.00 Hours, Delivered Beam: 139.59 Hours, 1 Fault(s), 139.59 MTBF, 96.93% of Sched. Time  
 11/14/2017 08:01 To 11/22/2017 08:01 192.00 Hours, Delivered Beam: 191.98 Hours, 0 Fault(s), 191.98 MTBF, 99.99% of Sched. Time  
 11/24/2017 08:00 To 12/04/2017 08:01 240.02 Hours, Delivered Beam: 238.97 Hours, 2 Fault(s), 119.48 MTBF, 99.56% of Sched. Time  
 12/05/2017 08:01 To 12/11/2017 08:00 143.98 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s), 143.98 MTBF, 100.00% of Sched. Time  
 12/12/2017 08:00 To 12/17/2017 24:00 136.00 Hours, Delivered Beam: 134.03 Hours, 2 Fault(s), 67.01 MTBF, 98.55% of Sched. Time

**Total Amount of User Time in this interval**                      **1552.94 Hours**    Delivered Beam    1531.84 Hours  
**Percentage of Scheduled Time** [\(\\*\)](#)                                      **98.64 %**  
**Mean Time Between Faults (MTBF)**                                      **109.42 Hours**  
 Downtime During Period    21.11 Hours  
 Total integrated Current During This Period                                      153.68 A-hr  
 Mean Fill Duration in Period    102.12 Hours  
 Faults per Day of Delivered Beam    0.22  
 Total Number of Faults    14

### Valid fills Beginning in this Time Interval

Fill #	Start	End	Duration (min: 1.0)	Reason for Fill Termination	Length of Downtime	Downtime is associated with the end of a fill. The first fill of a period will have any downtime before the fill on the line above.
# 1	10/03 08:00	To 10/03 21:44	13.74	30B:Q5 p.s. fault[PS]	2.42	P.S. Group called in for repair, conditioned.
# 2	10/04 00:10	To 10/09 07:59	127.83	Int Dump: End of Period	0.00	
# 3	10/10 08:00	To 10/14 14:59	102.98	2ID EPS faults[SI]	0.49	Investigation, refill
# 4	10/14 15:28	To 10/15 06:37	15.16	2ID EPS faults [SI]	3.94	Replaced 24V ps for EPS chassis, refilled.
# 5	10/15 10:34	To 10/15 12:03	1.49	1B:H3 p.s. glitch [PS]	3.06	Investigation [PS-1.6hr], Abs.flow trip[MOM-1.46hr]
# 6	10/15 15:06	To 10/16 07:59	16.89	Int Dump: End of Period	0.00	
# 7	10/17 08:01	To 10/23 07:59	143.98	Int Dump: End of Period	0.02	

# 8	10/24 08:01	To	10/25 10:01	26.01	APS power event[OTH]	0.53	0.00	Reset RF system, refilled.
# 9	10/25 10:33	To	10/25 14:53	4.33	APS power event[OTH]	0.56		
# 10	10/25 15:26	To	10/30 07:59	112.55	Int Dump: End of Period	0.02		
# 11	11/01 08:01	To	11/01 17:29	9.47	Unknwn vert. motion[UNK]	0.81	0.00	Investigation & refill
# 12	11/01 18:17	To	11/05 08:38	87.35	Com-Ed Power event[OTH]	0.92		Investigation and recovery, refilled
# 13	11/05 09:34	To	11/05 20:26	10.87	Unknown [UNK]	0.91		Recovery from prev. power event,0.5[UNK],0.41[OTH]
# 14	11/05 21:20	To	11/06 07:59	10.65	Int Dump: End of Period	0.00		
# 15	11/07 08:01	To	11/09 14:29	54.48	9BM PS2 water leak [MOM]	4.40	0.00	Access to repair water leak, recover SR, refill
# 16	11/09 18:53	To	11/13 08:00	85.11	Int Dump: End of Period	0.02		
# 17	11/14 08:01	To	11/22 07:59	191.98	Int Dump: End of Period	0.02	0.00	
# 18	11/24 08:00	To	11/26 09:21	49.35	22A:P2 malfunction[DIAG]	0.56	0.00	Removed from orbit control, refilled
# 19	11/26 09:55	To	12/02 11:22	145.45	SRRF3 anode I trip[RF]	0.47		Reset system, refilled ring
# 20	12/02 11:50	To	12/04 07:59	44.16	Int Dump: End of Period	0.02		
# 21	12/05 08:01	To	12/11 08:00	143.98	Int Dump: End of Period	0.00	0.00	
# 22	12/12 08:00	To	12/12 12:00	4.00	SRRF3 anode I trip[RF]	1.46	0.00	Waveguide switch, refilled ring
# 23	12/12 13:27	To	12/12 19:42	6.25	RTFB reboot [AOP]	0.51		Refilled
# 24	12/12 20:13	To	12/18 00:00	123.77	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	97.30 %
Current in Range during Delivered Beam Time	98.79 %
Injector Availability	98.69 %

Period Beginning 10/03/2017 08:00

Current in Range 99.78 %  
Injector Availability 99.60 %

Out of Range at: 10/05/2017 22:05:44 to 10/05/2017 22:18:32 : 12.80 minutes  
Injector downtime: 10/05/2017 22:00:48 to 10/05/2017 22:18:28 : 17.67 minutes  
Out of Range at: 10/06/2017 00:36:32 to 10/06/2017 00:36:32 : 0.00 minutes  
Injector downtime: 10/06/2017 00:28:32 to 10/06/2017 00:36:32 : ~ 8.00 minutes  
Out of Range at: 10/06/2017 04:31:12 to 10/06/2017 04:36:56 : 5.73 minutes  
Injector downtime: 10/06/2017 04:23:12 to 10/06/2017 04:31:12 : ~ 8.00 minutes

Period Beginning 10/10/2017 08:00

Current in Range 99.93 %  
Injector Availability 99.90 %

Out of Range at: 10/15/2017 15:06:56 to 10/15/2017 15:12:32 : 5.60 minutes  
Injector downtime: 10/15/2017 14:58:56 to 10/15/2017 15:06:56 : ~ 8.00 minutes

Period Beginning 10/17/2017 08:01

Current in Range 98.07 %  
Injector Availability 97.98 %

Out of Range at: 10/18/2017 09:51:20 to 10/18/2017 09:55:44 : 4.40 minutes  
Injector downtime: 10/18/2017 09:43:20 to 10/18/2017 09:51:20 : ~ 8.00 minutes  
Out of Range at: 10/19/2017 02:18:00 to 10/19/2017 05:00:16 : 162.27 minutes  
Injector downtime: 10/19/2017 02:13:04 to 10/19/2017 04:59:36 : 166.53 minutes

Period Beginning 10/24/2017 08:01

Current in Range 100.00 %  
Injector Availability 100.00 %

Period Beginning 11/01/2017 08:01

Current in Range 99.15 %  
Injector Availability 98.98 %

Out of Range at: 11/01/2017 18:35:28 to 11/01/2017 18:50:00 : 14.53 minutes

Injector downtime:	11/01/2017 18:30:32	to	11/01/2017 18:49:56 :	19.40 minutes
Out of Range at:	11/01/2017 20:14:56	to	11/01/2017 20:55:04 :	40.13 minutes
Injector downtime:	11/01/2017 20:10:00	to	11/01/2017 20:55:00 :	45.00 minutes
Out of Range at:	11/02/2017 18:23:44	to	11/02/2017 18:29:20 :	5.60 minutes
Injector downtime:	11/02/2017 18:15:44	to	11/02/2017 18:23:44 :	~ 8.00 minutes

Period Beginning 11/07/2017 08:01

Current in Range	97.38 %
Injector Availability	97.34 %

Out of Range at:	11/11/2017 20:12:56	to	11/11/2017 23:52:16 :	219.33 minutes
Injector downtime:	11/11/2017 20:08:00	to	11/11/2017 23:50:40 :	222.67 minutes

Period Beginning 11/14/2017 08:01

Current in Range	97.29 %
Injector Availability	97.14 %

Out of Range at:	11/16/2017 05:08:08	to	11/16/2017 05:30:24 :	22.27 minutes
Injector downtime:	11/16/2017 05:03:12	to	11/16/2017 05:28:16 :	25.07 minutes
Out of Range at:	11/17/2017 18:55:36	to	11/17/2017 23:40:40 :	285.07 minutes
Injector downtime:	11/17/2017 18:50:40	to	11/17/2017 23:39:36 :	288.93 minutes
Out of Range at:	11/18/2017 08:26:56	to	11/18/2017 08:26:56 :	0.00 minutes
Injector downtime:	11/18/2017 08:18:56	to	11/18/2017 08:26:56 :	~ 8.00 minutes
Out of Range at:	11/19/2017 08:28:24	to	11/19/2017 08:33:04 :	4.67 minutes
Injector downtime:	11/19/2017 08:20:24	to	11/19/2017 08:28:24 :	~ 8.00 minutes

Period Beginning 11/24/2017 08:00

Current in Range	99.11 %
Injector Availability	98.98 %

Out of Range at:	11/27/2017 16:17:04	to	11/27/2017 16:19:04 :	2.00 minutes
Injector downtime:	11/27/2017 16:09:04	to	11/27/2017 16:17:04 :	~ 8.00 minutes
Out of Range at:	11/30/2017 08:08:00	to	11/30/2017 10:13:36 :	125.60 minutes
Injector downtime:	11/30/2017 08:03:04	to	11/30/2017 10:13:32 :	130.47 minutes
Out of Range at:	12/03/2017 04:53:28	to	12/03/2017 04:54:08 :	0.67 minutes
Injector downtime:	12/03/2017 04:45:28	to	12/03/2017 04:53:28 :	~ 8.00 minutes

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An official operations statistics page will be posted at the end of each user period.