

**Listing of Statistics for Run2-2015 (Created Mon Aug 31 07:05:08 CDT 2015)**

User periods in this interval

06/02/2015 08:01 To 06/09/2015 08:00 167.98 Hours, Delivered Beam: 167.98 Hours, 0 Fault(s),167.98 MTBF,100.00% of Sched. Time  
 06/10/2015 08:01 To 06/16/2015 08:01 144.00 Hours, Delivered Beam: 143.02 Hours, 1 Fault(s),143.02 MTBF, 99.32% of Sched. Time  
 06/17/2015 08:01 To 06/23/2015 08:00 143.98 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s),143.98 MTBF,100.00% of Sched. Time  
 06/24/2015 08:00 To 07/03/2015 08:00 216.00 Hours, Delivered Beam: 215.99 Hours, 0 Fault(s),215.99 MTBF,100.00% of Sched. Time  
 07/07/2015 08:01 To 07/14/2015 08:00 167.98 Hours, Delivered Beam: 162.93 Hours, 2 Fault(s), 81.46 MTBF, 96.99% of Sched. Time  
 07/15/2015 08:01 To 07/21/2015 08:01 144.00 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s),143.98 MTBF, 99.99% of Sched. Time  
 07/22/2015 08:01 To 07/28/2015 08:00 143.98 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s),143.98 MTBF,100.00% of Sched. Time  
 07/29/2015 08:01 To 08/04/2015 08:00 143.98 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s),143.98 MTBF,100.00% of Sched. Time  
 08/05/2015 08:01 To 08/11/2015 08:01 144.00 Hours, Delivered Beam: 143.04 Hours, 2 Fault(s), 71.52 MTBF, 99.33% of Sched. Time  
 08/12/2015 08:01 To 08/18/2015 08:01 144.00 Hours, Delivered Beam: 139.55 Hours, 2 Fault(s), 69.77 MTBF, 96.91% of Sched. Time  
 08/19/2015 08:01 To 08/26/2015 00:01 160.00 Hours, Delivered Beam: 159.98 Hours, 0 Fault(s),159.98 MTBF, 99.99% of Sched. Time

**Total Amount of User Time in this interval**                      **1719.87 Hours**    Delivered Beam    1708.40 Hours  
**Percentage of Scheduled Time** [\(\\*\)](#)                                      **99.33 %**  
**Mean Time Between Faults (MTBF)**                                      **244.06 Hours**  
 Downtime During Period    11.47 Hours  
 Total integrated Current During This Period                                      170.11 A-hr  
 Mean Fill Duration in Period    213.55 Hours  
 Faults per Day of Delivered Beam    0.10  
 Total Number of Faults    7

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 any downtime before the fill on the line above
# 1	06/02 08:01	To 06/09 07:59	167.98	Int Dump: End of Period	0.00	
# 2	06/10 08:01	To 06/11 18:49	34.81	RF3 Circ Load Arc [RF]	0.97	2nd fault, investigation, refill
# 3	06/11 19:47	To 06/16 08:00	108.20	Int Dump: End of Period	0.02	
					0.00	

# 4	06/17 08:01	To	06/23 07:59	143.98	Int Dump: End of Period	0.00	
# 5	06/24 08:00	To	07/03 07:59	215.99	Int Dump: End of Period	0.00	
# 6	07/07 08:01	To	07/10 00:03	64.03	S20B:Q1 P.S. trip[PS]	1.48	Swap out converter, condition, refill
# 7	07/10 01:31	To	07/11 02:36	25.08	Security inc. [OTH]	3.58	Recovered all systems and refilled
# 8	07/11 06:10	To	07/14 07:59	73.82	Int Dump: End of Period	0.00	
# 9	07/15 08:01	To	07/21 07:59	143.98	Int Dump: End of Period	0.02	
# 10	07/22 08:01	To	07/28 07:59	143.98	Int Dump: End of Period	0.00	
# 11	07/29 08:01	To	08/04 07:59	143.98	Int Dump: End of Period	0.00	
# 12	08/05 08:01	To	08/06 16:29	32.46	P0 fdbk polarity[AOP]	0.37	Fill-on-fill to 102mA
# 13	08/06 16:51	To	08/11 04:29	107.63	RF2 crowbar flt[RF]	0.57	Reset RF systems and refilled the ring
# 14	08/11 05:03	To	08/11 07:59	2.94	Int Dump: End of Period	0.02	
# 15	08/12 08:01	To	08/16 10:47	98.78	S38 Cab2 P.S. [PS]	3.58	Repaired S38 Gespac, conditioned & refilled
# 16	08/16 14:22	To	08/17 14:34	24.19	19BM PSS trip [SI]	0.85	Conditioned dipole, refilled
# 17	08/17 15:25	To	08/18 07:59	16.58	Int Dump: End of Period	0.02	
# 18	08/19 08:01	To	08/25 23:59	159.98	Int Dump: End of Period	0.02	

### Top-Up Mode Statistics

Target Current Range +/- 2.0, Minimum Injector Downtime = 8.0 minutes

Total

Current in Range during Scheduled Topup Time	98.93 %
Current in Range during Delivered Beam Time	99.44 %
Injector Availability	99.40 %

Period Beginning 06/02/2015 08:01

Current in Range	100.00 %
Injector Availability	100.00 %

Period Beginning 06/10/2015 08:01

Current in Range	99.42 %
Injector Availability	99.32 %

Out of Range at:	06/10/2015 11:39:28	to	06/10/2015 12:18:00 :	38.53 minutes
Injector downtime:	06/10/2015 11:35:00	to	06/10/2015 12:17:28 :	42.47 minutes
Out of Range at:	06/11/2015 09:30:24	to	06/11/2015 09:41:36 :	11.20 minutes
Injector downtime:	06/11/2015 09:25:28	to	06/11/2015 09:41:32 :	16.07 minutes

Period Beginning 06/17/2015 08:01

Current in Range	100.00 %
Injector Availability	100.00 %

Period Beginning 06/24/2015 08:00

Current in Range	98.69 %
Injector Availability	98.64 %

Out of Range at:	06/25/2015 14:47:04	to	06/25/2015 14:55:20 :	8.27 minutes
Injector downtime:	06/25/2015 14:39:04	to	06/25/2015 14:47:04 :	~ 8.00 minutes
Out of Range at:	06/25/2015 15:06:24	to	06/25/2015 15:42:24 :	36.00 minutes
Injector downtime:	06/25/2015 15:01:28	to	06/25/2015 15:41:04 :	39.60 minutes
Out of Range at:	07/03/2015 03:51:36	to	07/03/2015 05:57:04 :	125.47 minutes
Injector downtime:	07/03/2015 03:46:40	to	07/03/2015 05:55:44 :	129.07 minutes

Period Beginning 07/22/2015 08:01

Current in Range	100.00 %
Injector Availability	100.00 %

Period Beginning 07/29/2015 08:01

Current in Range	100.00 %
Injector Availability	100.00 %

Period Beginning 08/05/2015 08:01

Current in Range	97.72 %
Injector Availability	97.59 %

Out of Range at:	08/06/2015 08:48:16	to	08/06/2015 12:01:52 :	193.60 minutes
Injector downtime:	08/06/2015 08:43:20	to	08/06/2015 12:01:48 :	198.47 minutes
Out of Range at:	08/06/2015 16:51:20	to	08/06/2015 16:53:36 :	2.27 minutes
Injector downtime:	08/06/2015 16:43:20	to	08/06/2015 16:51:20 :	~ 8.00 minutes

Period Beginning 08/12/2015 08:01

Current in Range	100.00 %
Injector Availability	99.90 %

Out of Range at:	08/14/2015 03:49:04	to	08/14/2015 03:49:20 :	0.27 minutes
Injector downtime:	08/14/2015 03:41:04	to	08/14/2015 03:49:04 :	~ 8.00 minutes

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