

Listing of Statistics for Run1-2016 (Created Wed May 11 08:05:10 CDT 2016)

User periods in this interval

02/02/2016 08:00 To 02/09/2016 08:00 168.00 Hours, Delivered Beam: 167.33 Hours, 1 Fault(s),167.33 MTBF, 99.60% of Sched. Time
 02/10/2016 08:01 To 02/16/2016 08:01 144.00 Hours, Delivered Beam: 142.05 Hours, 2 Fault(s), 71.02 MTBF, 98.65% of Sched. Time
 02/17/2016 08:01 To 02/23/2016 08:01 144.00 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s),143.98 MTBF, 99.99% of Sched. Time
 02/24/2016 08:01 To 02/29/2016 08:00 119.98 Hours, Delivered Beam: 119.98 Hours, 0 Fault(s),119.98 MTBF,100.00% of Sched. Time
 03/02/2016 08:01 To 03/08/2016 08:00 143.98 Hours, Delivered Beam: 138.12 Hours, 3 Fault(s), 46.04 MTBF, 95.93% of Sched. Time
 03/09/2016 08:01 To 03/15/2016 08:01 143.00 Hours, Delivered Beam: 142.98 Hours, 0 Fault(s),142.98 MTBF, 99.99% of Sched. Time
 03/16/2016 08:01 To 03/22/2016 08:01 144.00 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s),143.98 MTBF, 99.99% of Sched. Time
 03/23/2016 08:01 To 03/29/2016 08:01 144.00 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s),143.98 MTBF, 99.99% of Sched. Time
 03/30/2016 08:00 To 04/05/2016 08:01 144.02 Hours, Delivered Beam: 142.43 Hours, 3 Fault(s), 47.48 MTBF, 98.90% of Sched. Time
 04/06/2016 08:00 To 04/12/2016 08:03 144.05 Hours, Delivered Beam: 137.78 Hours, 5 Fault(s), 27.56 MTBF, 95.65% of Sched. Time
 04/13/2016 08:01 To 04/19/2016 08:01 144.00 Hours, Delivered Beam: 142.36 Hours, 1 Fault(s),142.36 MTBF, 98.86% of Sched. Time
 04/20/2016 08:01 To 04/27/2016 00:01 160.00 Hours, Delivered Beam: 158.54 Hours, 2 Fault(s), 79.27 MTBF, 99.09% of Sched. Time

Total Amount of User Time in this interval **1742.98 Hours** Delivered Beam 1723.51 Hours
Percentage of Scheduled Time (*) **98.88 %**
Mean Time Between Faults (MTBF) **101.38 Hours**
 Downtime During Period 19.47 Hours
 Total integrated Current During This Period 171.44 A-hr
 Mean Fill Duration in Period 95.75 Hours
 Faults per Day of Delivered Beam 0.24
 Total Number of Faults 17

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	02/02 08:00	To 02/04 08:49	48.82	False 33ID BPLD flt[DIA]	0.01	
# 2	02/04 09:29	To 02/09 07:59	118.51	Int Dump: End of Period	0.66	Investigation and refill
# 3	02/10 08:01	To 02/11 08:47	24.78	RF2 instability [RF]	0.00	
# 4	02/11 09:14	To 02/13 17:19	56.10	False 33ID BPLD flt[DIA]	0.44	Investigation refill
# 7	02/13 18:49	To 02/16 07:59	61.17	Int Dump: End of Period	1.49	Second fault on S33BM shutter flt 0.5hr ?; 1hr SI
# 8	02/17 08:01	To 02/23 08:00	143.98	Int Dump: End of Period	0.02	
# 9	02/24 08:01	To 02/29 07:59	119.98	Int Dump: End of Period	0.00	

# 10	03/02 08:01	To	03/04 13:29	53.47	S19/20 PW PLC [MOM]	0.00	2.31	Recovered tripped P.S., conditioned, stored beam
# 11	03/04 15:48	To	03/07 16:34	72.76	S35A:Q4 P.S. trip[PS]	0.00	2.15	Swapped out supply and conditioned
# 12	03/07 18:43	To	03/08 02:50	8.12	21-ID PSS fault [SI]	0.00	1.40	Beamline offline, recovered tripped systems
# 13	03/08 04:14	To	03/08 07:59	3.76	Int Dump: End of Period	0.00	0.00	
# 14	03/09 08:01	To	03/15 07:59	142.98	Int Dump: End of Period	0.00	0.02	
# 15	03/16 08:01	To	03/22 08:00	143.98	Int Dump: End of Period	0.00	0.02	
# 16	03/23 08:01	To	03/29 08:00	143.98	Int Dump: End of Period	0.00	0.02	
# 17	03/30 08:00	To	03/31 01:46	17.77	SR Dipole flt [PS]	0.00	0.62	Investigation, reset, conditioned dipole
# 18	03/31 02:23	To	04/02 11:10	56.79	S31MPS module flt[DIAG]	0.00	0.27	Investigation, refill
# 19	04/02 11:26	To	04/02 18:08	6.70	S30ds BPLD [DIAG]	0.00	0.68	Investigation and refill
# 20	04/02 18:49	To	04/05 08:00	61.17	Int Dump: End of Period	0.00	0.02	
# 21	04/06 08:00	To	04/07 21:28	37.47	P0 fdbk problem [AOP]	0.00	0.28	Investigation, refill
# 22	04/07 21:45	To	04/08 00:48	3.05	RF2 regulation[RF]	0.00	2.17	Investigation, waveguide switch
# 23	04/08 02:58	To	04/08 19:05	16.11	S15A:Q5 P.S. trip[PS]	0.00	1.84	Swapped supply, conditioned and refilled
# 24	04/08 20:55	To	04/09 02:55	6.00	30-IDds bpld trip[Diag]	0.00	1.46	Problem with P0 fdbk 0.5hr[DIA],0.96hr[AOP]
# 25	04/09 04:22	To	04/09 06:20	1.97	30-IDds BPLD trip[DIA]	0.00	0.47	Investigation and refill
# 26	04/09 06:48	To	04/12 07:59	73.18	Int Dump: End of Period	0.00	0.05	
# 27	04/13 08:01	To	04/14 18:57	34.94	IK4 trigger card[PS]	0.00	1.62	Replaced card,pump switch,condition,.93hrPS,.69hr
# 28	04/14 20:35	To	04/19 07:59	107.41	Int Dump: End of Period	0.00	0.02	
# 29	04/20 08:01	To	04/24 19:24	107.39	Under Investigation	0.00	0.41	
# 30	04/24 19:49	To	04/26 07:42	35.89	RF4 SCR H2O fault[RF]	0.00	1.03	Investigation, bypass flow meter, refill
# 31	04/26 08:44	To	04/26 23:59	15.26	Int Dump: End of Period	0.00	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	96.69 %
Current in Range during Delivered Beam Time	98.05 %
Injector Availability	97.94 %

Period Beginning 02/02/2016 08:00

Current in Range	100.00 %
Injector Availability	100.00 %

Period Beginning 02/10/2016 08:01

Current in Range	99.37 %
Injector Availability	99.13 %

Out of Range at:	02/10/2016 08:42:08	to	02/10/2016 08:55:52 :	13.73 minutes
Injector downtime:	02/10/2016 08:37:12	to	02/10/2016 08:53:36 :	16.40 minutes
Out of Range at:	02/11/2016 09:17:12	to	02/11/2016 09:31:28 :	14.27 minutes
Injector downtime:	02/11/2016 09:12:16	to	02/11/2016 09:31:24 :	19.13 minutes
Out of Range at:	02/12/2016 08:44:08	to	02/12/2016 08:51:28 :	7.33 minutes
Injector downtime:	02/12/2016 08:36:08	to	02/12/2016 08:44:08 :	~ 8.00 minutes
Out of Range at:	02/13/2016 13:18:32	to	02/13/2016 13:19:28 :	0.93 minutes
Injector downtime:	02/13/2016 13:10:32	to	02/13/2016 13:18:32 :	~ 8.00 minutes
Out of Range at:	02/15/2016 14:17:36	to	02/15/2016 14:35:04 :	17.47 minutes
Injector downtime:	02/15/2016 14:12:40	to	02/15/2016 14:35:00 :	22.33 minutes

Period Beginning 02/17/2016 08:01

Current in Range	97.65 %
Injector Availability	97.51 %

Out of Range at:	02/17/2016 08:13:28	to	02/17/2016 08:19:28 :	6.00 minutes
Injector downtime:	02/17/2016 08:05:28	to	02/17/2016 08:13:28 :	~ 8.00 minutes
Out of Range at:	02/19/2016 16:02:16	to	02/19/2016 16:23:36 :	21.33 minutes
Injector downtime:	02/19/2016 15:57:20	to	02/19/2016 16:21:20 :	24.00 minutes
Out of Range at:	02/20/2016 20:51:28	to	02/20/2016 23:11:36 :	140.13 minutes
Injector downtime:	02/20/2016 20:46:32	to	02/20/2016 23:11:04 :	144.53 minutes
Out of Range at:	02/21/2016 05:40:48	to	02/21/2016 06:16:24 :	35.60 minutes
Injector downtime:	02/21/2016 05:35:52	to	02/21/2016 06:14:08 :	38.27 minutes

Period Beginning 02/24/2016 08:01

Current in Range	100.00 %
Injector Availability	100.00 %

Period Beginning 03/02/2016 08:01

Current in Range 99.46 %
Injector Availability 99.26 %

Out of Range at: 03/03/2016 01:36:16 to 03/03/2016 02:08:24 : 32.13 minutes
Injector downtime: 03/03/2016 01:31:20 to 03/03/2016 02:07:12 : 35.87 minutes
Out of Range at: 03/03/2016 09:22:08 to 03/03/2016 09:22:32 : 0.40 minutes
Injector downtime: 03/03/2016 09:14:08 to 03/03/2016 09:22:08 : ~ 8.00 minutes
Out of Range at: 03/08/2016 07:08:08 to 03/08/2016 07:20:32 : 12.40 minutes
Injector downtime: 03/08/2016 07:03:12 to 03/08/2016 07:20:28 : 17.27 minutes

Period Beginning 03/09/2016 08:01

Current in Range 99.62 %
Injector Availability 99.56 %

Out of Range at: 03/13/2016 15:41:04 to 03/13/2016 16:13:44 : 32.67 minutes
Injector downtime: 03/13/2016 15:36:08 to 03/13/2016 16:13:40 : 37.53 minutes

Period Beginning 03/30/2016 08:00

Current in Range 96.56 %
Injector Availability 96.46 %

Out of Range at: 04/03/2016 08:07:28 to 04/03/2016 10:20:16 : 132.80 minutes
Injector downtime: 04/03/2016 08:02:32 to 04/03/2016 10:19:44 : 137.20 minutes
Out of Range at: 04/05/2016 01:39:04 to 04/05/2016 04:20:24 : 161.33 minutes
Injector downtime: 04/05/2016 01:34:08 to 04/05/2016 04:19:52 : 165.73 minutes

Period Beginning 04/06/2016 08:00

Current in Range 97.12 %
Injector Availability 96.99 %

Out of Range at: 04/07/2016 21:45:28 to 04/07/2016 22:50:16 : 64.80 minutes
Injector downtime: 04/07/2016 21:41:40 to 04/07/2016 22:49:20 : 67.67 minutes
Out of Range at: 04/07/2016 23:05:12 to 04/08/2016 00:48:32 : 103.33 minutes
Injector downtime: 04/07/2016 23:00:16 to 04/08/2016 00:48:28 : 108.20 minutes
Out of Range at: 04/08/2016 03:10:32 to 04/08/2016 04:20:08 : 69.60 minutes
Injector downtime: 04/08/2016 03:05:36 to 04/08/2016 04:18:56 : 73.33 minutes

Period Beginning 04/13/2016 08:01

Current in Range	92.67 %
Injector Availability	92.54 %

Out of Range at:	04/14/2016 16:16:24	to	04/14/2016 18:57:28 :	161.07 minutes
Injector downtime:	04/14/2016 16:11:28	to	04/14/2016 18:57:24 :	165.93 minutes
Out of Range at:	04/14/2016 20:47:12	to	04/15/2016 02:20:40 :	333.47 minutes
Injector downtime:	04/14/2016 20:42:16	to	04/15/2016 02:19:44 :	337.47 minutes
Out of Range at:	04/16/2016 05:21:20	to	04/16/2016 07:32:40 :	131.33 minutes
Injector downtime:	04/16/2016 05:16:24	to	04/16/2016 07:30:24 :	134.00 minutes

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