

Listing of Statistics for Run1-2018 (Created Fri Apr 27 08:05:15 CDT 2018)

User periods in this interval

01/30/2018 08:01	To	02/05/2018 08:01	144.00 Hours,	Delivered Beam: 139.62 Hours,	4 Fault(s),	34.90 MTBF,	96.96% of Sched. Time
02/06/2018 08:01	To	02/12/2018 08:00	143.98 Hours,	Delivered Beam: 141.78 Hours,	0 Fault(s),	141.78 MTBF,	98.47% of Sched. Time
02/13/2018 08:00	To	02/19/2018 08:01	144.02 Hours,	Delivered Beam: 139.54 Hours,	2 Fault(s),	69.77 MTBF,	96.89% of Sched. Time
02/20/2018 08:01	To	02/26/2018 08:01	144.00 Hours,	Delivered Beam: 143.29 Hours,	2 Fault(s),	71.64 MTBF,	99.51% of Sched. Time
02/28/2018 08:00	To	03/05/2018 08:00	120.00 Hours,	Delivered Beam: 115.16 Hours,	2 Fault(s),	57.58 MTBF,	95.96% of Sched. Time
03/06/2018 08:00	To	03/12/2018 08:00	143.00 Hours,	Delivered Beam: 136.69 Hours,	3 Fault(s),	45.56 MTBF,	95.59% of Sched. Time
03/13/2018 08:00	To	03/19/2018 08:00	144.00 Hours,	Delivered Beam: 143.99 Hours,	1 Fault(s),	143.99 MTBF,	99.99% of Sched. Time
03/20/2018 08:00	To	03/26/2018 08:00	144.00 Hours,	Delivered Beam: 138.92 Hours,	4 Fault(s),	34.73 MTBF,	96.48% of Sched. Time
03/27/2018 08:00	To	04/02/2018 08:00	144.00 Hours,	Delivered Beam: 144.00 Hours,	0 Fault(s),	144.00 MTBF,	100.00% of Sched. Time
04/03/2018 08:00	To	04/09/2018 08:00	144.00 Hours,	Delivered Beam: 144.00 Hours,	0 Fault(s),	144.00 MTBF,	100.00% of Sched. Time
04/10/2018 08:00	To	04/16/2018 08:00	144.00 Hours,	Delivered Beam: 141.08 Hours,	3 Fault(s),	47.03 MTBF,	97.97% of Sched. Time
04/17/2018 08:00	To	04/24/2018 24:00	184.00 Hours,	Delivered Beam: 181.95 Hours,	2 Fault(s),	90.97 MTBF,	98.88% of Sched. Time

Total Amount of User Time in this interval **1742.97 Hours** Delivered Beam 1710.01 Hours

Percentage of Scheduled Time (*) **98.11 %**

Mean Time Between Faults (MTBF) **74.35 Hours**

Downtime During Period 32.96 Hours

Total integrated Current During This Period 170.08 A-hr

Mean Fill Duration in Period 71.25 Hours

Faults per Day of Delivered Beam 0.32

Total Number of Faults 23

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.
					0.00	
# 1	01/30 08:01	To 01/30 09:37	1.60	33ID PSS trip[SI]	1.13	Recovery, refill
# 2	01/30 10:45	To 01/30 17:40	6.93	S39FB IOC glitch [CTL]	1.83	Investigation, reboot IOCs, recovery, refill
# 3	01/30 19:30	To 01/31 19:50	24.33	Human error [AOP]	0.64	Refill
# 4	01/31 20:28	To 01/31 22:28	2.00	RF3 Crowbar trip[RF]	0.77	Recovered system, refilled

# 5	01/31 23:14	To	02/05 07:59	104.76	Int Dump: End of Period	0.02	
						2.21	S33ID PSS trip, investigation, recovery [SI]
# 7	02/06 10:13	To	02/12 07:59	141.78	Int Dump: End of Period	0.00	
						3.18	P0 feedback,1.21hr AOP;38B:P5 problem,1.97hr Diag
# 10	02/13 11:10	To	02/13 14:24	3.23	RF2 HVPS trip[RF]	0.79	Investigation, refill
# 11	02/13 15:11	To	02/18 04:08	108.95	RF2 HVPS trip[RF]	0.48	Investigation, refill
# 12	02/18 04:37	To	02/19 08:00	27.37	Int Dump: End of Period	0.02	
						0.00	
# 13	02/20 08:01	To	02/24 03:27	91.44	12C:BM P.S. glitch[PS]	0.36	Recovery, refill
# 14	02/24 03:48	To	02/25 09:59	30.18	Unknown [UNK]	0.33	Investigation, refill
# 15	02/25 10:19	To	02/26 07:59	21.67	Int Dump: End of Period	0.02	
						1.88	2 RF2 trips, waveguide switch, refill [RF]
# 16	02/28 09:52	To	03/02 08:57	47.09	RTFB IOC glitch[CTL]	0.66	Investigation, refill
# 17	03/02 09:37	To	03/02 21:32	11.92	23A:Q3 P.S. trip[PS]	2.31	Swapped converter, recovered, refilled
# 18	03/02 23:50	To	03/05 07:59	56.15	Int Dump: End of Period	0.00	
						0.00	
# 19	03/06 08:00	To	03/07 00:07	16.12	HSCU communication[CTL]	1.61	Recovery and refill 0.5hr-CTL, 1.11hr-AOP

# 20	03/07 01:43	To	03/10 18:06	88.39	Rad mon. [OTH]	0.89	Recovery, refill
# 21	03/10 19:00	To	03/12 04:11	32.19	S23A:S1 P.S. [PS]	3.81	swap, trouble with P0 fdbck, 2.45hr-PS,1.37hr-AOP
						0.00	
# 22	03/13 08:00	To	03/19 07:59	143.99	!6-BM PSS trip[SI]	0.01	
						0.00	
# 23	03/20 08:00	To	03/22 07:41	47.69	S37 Hyb 3 H20 trip[RF]	0.81	Reset RF2 refilled ring
# 24	03/22 08:30	To	03/22 22:25	13.93	11ID PSS trip [SI]	1.45	Investigation, conditioned, refilled
# 25	03/22 23:52	To	03/24 20:20	44.46	S21B:V1 glitch[PS]	1.92	2nd beam loss, investigation, refill
# 27	03/24 22:15	To	03/25 20:33	22.30	11-ID PSS faults[SI]	0.88	Beamline off-line, conditioned, refilled
# 28	03/25 21:26	To	03/26 07:59	10.55	Int Dump: End of Period	0.00	
						0.00	
# 29	03/27 08:00	To	04/02 07:59	144.00	Int Dump: End of Period	0.00	
						0.00	
# 30	04/03 08:00	To	04/09 07:59	144.00	Int Dump: End of Period	0.00	
						0.00	
# 31	04/10 08:00	To	04/11 01:16	17.27	RF2 HVPS trip [RF]	1.61	Second trip, waveguide switch
# 32	04/11 02:52	To	04/12 04:32	25.66	RF3 crowbar trip [RF]	0.42	Recovered RF3, refilled
# 33	04/12 04:57	To	04/12 20:46	15.82	S40 RF Cav.IG trip[RF]	0.88	Addressed tuner issues, refilled

# 34	04/12 21:39	To	04/16 07:59	82.34	Int Dump: End of Period	0.00	
						0.36	RF2 trip recovery[.26 RF] iocsbpmdp reboot[.1hr CTL]
# 35	04/17 08:21	To	04/17 09:55	1.57	RF2 crowbar trip[RF]	0.89	Waveguide switch, recover RF systems, refilled
# 36	04/17 10:48	To	04/22 17:38	126.83	S37 Hybd#3 trip [RF]	0.80	Reset hybrid trip, recovered RF and refilled
# 37	04/22 18:26	To	04/24 23:59	53.55	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 96.02 %

Current in Range during Delivered Beam Time 98.01 %

Injector Availability 97.83 %

Period Beginning 01/30/2018 08:01

Current in Range 93.68 %

Injector Availability 93.20 %

Out of Range at: 01/30/2018 17:24:56 to 01/30/2018 17:25:20 : 0.40 minutes

Injector downtime: 01/30/2018 17:16:56 to 01/30/2018 17:24:56 : ~ 8.00 minutes

Out of Range at: 01/30/2018 23:54:56 to 01/31/2018 00:18:16 : 23.33 minutes

Injector downtime: 01/30/2018 23:50:00 to 01/31/2018 00:16:00 : 26.00 minutes

Out of Range at: 01/31/2018 03:36:56 to 01/31/2018 04:26:08 : 49.20 minutes

Injector downtime: 01/31/2018 03:32:00 to 01/31/2018 04:26:04 : 54.07 minutes

Out of Range at: 01/31/2018 06:40:16 to 01/31/2018 06:42:08 : 1.87 minutes

Injector downtime: 01/31/2018 06:32:16 to 01/31/2018 06:40:16 : ~ 8.00 minutes

Out of Range at: 01/31/2018 19:30:48 to 01/31/2018 19:50:08 : 19.33 minutes

Injector downtime:	01/31/2018 19:25:52	to 01/31/2018 19:50:04 :	24.20 minutes
Out of Range at:	02/01/2018 22:19:36	to 02/01/2018 22:21:04 :	1.47 minutes
Injector downtime:	02/01/2018 22:11:36	to 02/01/2018 22:19:36 :	~ 8.00 minutes
Out of Range at:	02/02/2018 15:13:44	to 02/02/2018 18:17:12 :	183.47 minutes
Injector downtime:	02/02/2018 15:08:48	to 02/02/2018 18:16:16 :	187.47 minutes
Out of Range at:	02/02/2018 19:30:32	to 02/02/2018 23:40:32 :	250.00 minutes
Injector downtime:	02/02/2018 19:25:36	to 02/02/2018 23:39:44 :	254.13 minutes

Period Beginning 02/06/2018 08:01

Current in Range			93.91 %
Injector Availability			93.83 %
Out of Range at:	02/06/2018 13:27:44	to 02/06/2018 15:23:20 :	115.60 minutes
Injector downtime:	02/06/2018 13:22:48	to 02/06/2018 15:20:56 :	118.13 minutes
Out of Range at:	02/08/2018 14:38:08	to 02/08/2018 21:20:40 :	402.53 minutes
Injector downtime:	02/08/2018 14:33:12	to 02/08/2018 21:19:52 :	406.67 minutes

Period Beginning 02/13/2018 08:00

Current in Range			99.68 %
Injector Availability			99.62 %
Out of Range at:	02/15/2018 07:57:20	to 02/15/2018 08:24:16 :	26.93 minutes
Injector downtime:	02/15/2018 07:52:24	to 02/15/2018 08:24:12 :	31.80 minutes

Period Beginning 02/20/2018 08:01

Current in Range			99.86 %
Injector Availability			99.74 %
Out of Range at:	02/20/2018 10:20:56	to 02/20/2018 10:30:32 :	9.60 minutes

Injector downtime:	02/20/2018 10:16:00	to 02/20/2018 10:30:28 :	14.47 minutes
Out of Range at:	02/22/2018 10:54:08	to 02/22/2018 10:56:48 :	2.67 minutes
Injector downtime:	02/22/2018 10:46:08	to 02/22/2018 10:54:08 :	~ 8.00 minutes

Period Beginning 02/28/2018 08:00

Current in Range		99.82 %	
Injector Availability		99.55 %	
Out of Range at:	02/28/2018 16:12:56	to 02/28/2018 16:23:20 :	10.40 minutes
Injector downtime:	02/28/2018 16:08:00	to 02/28/2018 16:23:16 :	15.27 minutes
Out of Range at:	02/28/2018 17:46:24	to 02/28/2018 17:47:36 :	1.20 minutes
Injector downtime:	02/28/2018 17:38:24	to 02/28/2018 17:46:24 :	~ 8.00 minutes
Out of Range at:	03/02/2018 14:47:12	to 03/02/2018 14:48:08 :	0.93 minutes
Injector downtime:	03/02/2018 14:39:12	to 03/02/2018 14:47:12 :	~ 8.00 minutes

Period Beginning 03/06/2018 08:00

Current in Range		99.21 %	
Injector Availability		98.92 %	
Out of Range at:	03/06/2018 08:00:16	to 03/06/2018 08:04:24 :	4.13 minutes
Injector downtime:	03/06/2018 07:52:16	to 03/06/2018 08:00:16 :	~ 8.00 minutes
Out of Range at:	03/06/2018 13:12:48	to 03/06/2018 13:46:00 :	33.20 minutes
Injector downtime:	03/06/2018 13:07:52	to 03/06/2018 13:45:56 :	38.07 minutes
Out of Range at:	03/07/2018 17:11:20	to 03/07/2018 17:32:48 :	21.47 minutes
Injector downtime:	03/07/2018 17:06:24	to 03/07/2018 17:32:44 :	26.33 minutes
Out of Range at:	03/10/2018 17:22:48	to 03/10/2018 17:25:28 :	2.67 minutes
Injector downtime:	03/10/2018 17:14:48	to 03/10/2018 17:22:48 :	~ 8.00 minutes

Out of Range at: 03/11/2018 20:31:12 to 03/11/2018 20:34:16 : 3.07 minutes

Injector downtime: 03/11/2018 20:23:12 to 03/11/2018 20:31:12 : ~ 8.00 minutes

Period Beginning 03/27/2018 08:00

Current in Range 99.80 %

Injector Availability 99.74 %

Out of Range at: 03/31/2018 18:17:28 to 03/31/2018 18:34:48 : 17.33 minutes

Injector downtime: 03/31/2018 18:12:32 to 03/31/2018 18:34:44 : 22.20 minutes

Period Beginning 04/03/2018 08:00

Current in Range 97.64 %

Injector Availability 97.51 %

Out of Range at: 04/03/2018 09:49:36 to 04/03/2018 10:39:04 : 49.47 minutes

Injector downtime: 04/03/2018 09:44:40 to 04/03/2018 10:36:48 : 52.13 minutes

Out of Range at: 04/04/2018 14:29:04 to 04/04/2018 16:59:52 : 150.80 minutes

Injector downtime: 04/04/2018 14:24:08 to 04/04/2018 16:59:12 : 155.07 minutes

Out of Range at: 04/07/2018 08:25:44 to 04/07/2018 08:29:04 : 3.33 minutes

Injector downtime: 04/07/2018 08:17:44 to 04/07/2018 08:25:44 : ~ 8.00 minutes

Period Beginning 04/10/2018 08:00

Current in Range 98.79 %

Injector Availability 98.60 %

Out of Range at: 04/11/2018 00:45:04 to 04/11/2018 01:16:16 : 31.20 minutes

Injector downtime: 04/11/2018 00:40:08 to 04/11/2018 01:16:12 : 36.07 minutes

Out of Range at: 04/12/2018 18:17:28 to 04/12/2018 19:27:04 : 69.60 minutes

Injector downtime: 04/12/2018 18:12:32 to 04/12/2018 19:27:00 : 74.47 minutes

Out of Range at: 04/13/2018 18:29:52 to 04/13/2018 18:31:52 : 2.00 minutes

Injector downtime: 04/13/2018 18:21:52 to 04/13/2018 18:29:52 : ~ 8.00 minutes

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