

Listing of Statistics for Run3-2016 (Created Tue Dec 20 09:05:16 CST 2016)

User periods in this interval

10/04/2016 08:00 To 10/10/2016 08:00 144.00 Hours, Delivered Beam: 136.53 Hours, 3 Fault(s), 45.51 MTBF, 94.82% of Sched. Time
 10/11/2016 08:01 To 10/17/2016 08:01 144.00 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s), 143.98 MTBF, 99.99% of Sched. Time
 10/18/2016 08:01 To 10/24/2016 08:01 144.00 Hours, Delivered Beam: 141.00 Hours, 3 Fault(s), 47.00 MTBF, 97.91% of Sched. Time
 10/25/2016 08:01 To 10/31/2016 08:01 144.00 Hours, Delivered Beam: 142.53 Hours, 0 Fault(s), 142.53 MTBF, 98.98% of Sched. Time
 11/02/2016 08:01 To 11/07/2016 08:00 120.98 Hours, Delivered Beam: 116.54 Hours, 3 Fault(s), 38.85 MTBF, 96.33% of Sched. Time
 11/08/2016 08:00 To 11/14/2016 08:01 144.02 Hours, Delivered Beam: 144.00 Hours, 0 Fault(s), 144.00 MTBF, 99.99% of Sched. Time
 11/15/2016 08:01 To 11/23/2016 08:01 192.00 Hours, Delivered Beam: 188.48 Hours, 4 Fault(s), 47.12 MTBF, 98.17% of Sched. Time
 11/25/2016 08:01 To 12/05/2016 08:01 240.00 Hours, Delivered Beam: 238.22 Hours, 1 Fault(s), 238.22 MTBF, 99.26% of Sched. Time
 12/06/2016 08:01 To 12/12/2016 08:00 143.98 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s), 143.98 MTBF, 100.00% of Sched. Time
 12/13/2016 08:01 To 12/19/2016 08:01 144.00 Hours, Delivered Beam: 143.98 Hours, 0 Fault(s), 143.98 MTBF, 99.99% of Sched. Time

Total Amount of User Time in this interval **1560.94 Hours** Delivered Beam 1539.24 Hours
Percentage of Scheduled Time [\(*\)](#) **98.61 %**
Mean Time Between Faults (MTBF) **109.95 Hours**
 Downtime During Period 21.69 Hours
 Total integrated Current During This Period 154.64 A-hr
 Mean Fill Duration in Period 102.62 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	10/04 08:00	To 10/08 10:45	98.76	40B:V4 P.S. Glitch [PS]	4.72	[0.5hr,PS], RF2 wg swtch[3.72hr,RF], Gaps[0.5hr,
# 2	10/08 15:29	To 10/09 13:34	22.09	S40B:V4 PS glitch [PS]	0.42	Recovery refill
# 3	10/09 13:59	To 10/10 01:17	11.30	S40B:V4 PS glitch [PS]	2.32	S36 RF cavity press issues [0.5hr,PS][1.82hr,RF]
# 4	10/10 03:36	To 10/10 07:59	4.39	Int Dump: End of Period	0.00	
# 5	10/11 08:01	To 10/17 07:59	143.98	Int Dump: End of Period	0.02	
# 6	10/18 08:01	To 10/18 11:13	3.21	RF1/4 H2O load trip[MOM]	2.08	Investigation, refilled [0.5 hr.,MOM][1.58hr.,RF]
# 7	10/18 13:18	To 10/20 05:09	39.85	S40B:V4 glitch [PS]	0.48	Investigation, refill
# 8	10/20 05:38	To 10/20 23:32	17.90	S40B:V4 PS glitch[PS]	0.42	Investigation, refill

# 9	10/20 23:58	To	10/24 07:59	80.03	Int Dump: End of Period	0.02	
# 11	10/25 09:28	To	10/31 07:59	142.53	Int Dump: End of Period	0.02	RF3 trip (1.16 hr.-RF) inj. eff.loss(.29hr.-AOP)
# 12	11/02 09:06	To	11/02 10:22	1.25	12ID PSS trip [SI]	1.10	Incomplete fill, difficult inj. 1.10-AOP
# 13	11/02 11:29	To	11/04 01:20	37.85	RF2 crowbar [RF]	1.12	12-ID taken offline, recover systems, refilled.
# 14	11/04 02:05	To	11/06 18:39	65.58	S17/18 Ref.Mem. [CTL]	0.75	Recovered system, refilled.
# 15	11/06 20:08	To	11/07 07:59	11.86	Int Dump: End of Period	1.48	Investigation, reboot IOCs, refilled
# 16	11/08 08:00	To	11/14 07:59	144.00	Int Dump: End of Period	0.00	
# 17	11/15 08:01	To	11/15 09:20	1.32	22BM PSS trip[SI]	0.02	
# 18	11/15 10:10	To	11/16 10:16	24.11	RF3 Cath.V sag [RF]	0.83	Recovered systems, refilled
# 19	11/16 10:45	To	11/17 05:30	18.76	RF1 Crowbar [RF]	0.47	Investigation, refill
# 20	11/17 05:56	To	11/17 07:43	1.79	RF1 Crwobar [RF]	0.42	Reset system, refilled
# 22	11/17 09:29	To	11/23 07:59	142.50	Int Dump: End of Period	1.77	Investigation, waveguide switch, refill
# 23	11/25 08:01	To	12/02 14:17	174.28	19B:Q3 P.S. fault[PS]	0.02	
# 24	12/02 16:03	To	12/05 07:59	63.94	Int Dump: End of Period	1.76	Swapped supply, conditioned, refilled
# 25	12/06 08:01	To	12/12 07:59	143.98	Int Dump: End of Period	0.00	
# 26	12/13 08:01	To	12/19 07:59	143.98	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	97.04 %
Current in Range during Delivered Beam Time	98.35 %
Injector Availability	98.21 %

Period Beginning 10/04/2016 08:00

Current in Range 90.42 %
Injector Availability 90.00 %

Out of Range at:	10/05/2016 14:00:00	to	10/05/2016 14:31:04 :	31.07 minutes
Injector downtime:	10/05/2016 13:55:04	to	10/05/2016 14:28:48 :	33.73 minutes
Out of Range at:	10/05/2016 22:11:12	to	10/06/2016 02:50:48 :	279.60 minutes
Injector downtime:	10/05/2016 22:06:16	to	10/06/2016 02:49:20 :	283.07 minutes
Out of Range at:	10/06/2016 09:48:08	to	10/06/2016 10:02:48 :	14.67 minutes
Injector downtime:	10/06/2016 09:43:12	to	10/06/2016 10:02:44 :	19.53 minutes
Out of Range at:	10/06/2016 19:43:52	to	10/06/2016 19:56:24 :	12.53 minutes
Injector downtime:	10/06/2016 19:38:56	to	10/06/2016 19:56:20 :	17.40 minutes
Out of Range at:	10/06/2016 19:59:52	to	10/06/2016 20:04:24 :	4.53 minutes
Out of Range at:	10/07/2016 01:08:40	to	10/07/2016 02:23:12 :	74.53 minutes
Injector downtime:	10/07/2016 01:03:44	to	10/07/2016 02:23:08 :	79.40 minutes
Out of Range at:	10/07/2016 15:55:36	to	10/07/2016 21:10:24 :	314.80 minutes
Injector downtime:	10/07/2016 15:50:40	to	10/07/2016 21:09:04 :	318.40 minutes
Out of Range at:	10/09/2016 07:04:40	to	10/09/2016 07:09:44 :	5.07 minutes
Injector downtime:	10/09/2016 06:56:40	to	10/09/2016 07:04:40 :	~ 8.00 minutes
Out of Range at:	10/09/2016 08:55:52	to	10/09/2016 09:05:36 :	9.73 minutes
Injector downtime:	10/09/2016 08:50:56	to	10/09/2016 09:05:32 :	14.60 minutes
Out of Range at:	10/09/2016 19:26:40	to	10/09/2016 19:40:40 :	14.00 minutes
Injector downtime:	10/09/2016 19:21:44	to	10/09/2016 19:40:36 :	18.87 minutes
Out of Range at:	10/09/2016 20:11:44	to	10/09/2016 20:35:36 :	23.87 minutes
Injector downtime:	10/09/2016 20:06:48	to	10/09/2016 20:33:20 :	26.53 minutes

Period Beginning 10/11/2016 08:01

Current in Range 97.01 %
Injector Availability 96.77 %

Out of Range at:	10/11/2016 17:38:00	to	10/11/2016 17:50:00 :	12.00 minutes
Injector downtime:	10/11/2016 17:33:04	to	10/11/2016 17:47:44 :	14.67 minutes
Out of Range at:	10/14/2016 04:27:44	to	10/14/2016 04:36:16 :	8.53 minutes
Injector downtime:	10/14/2016 04:19:44	to	10/14/2016 04:27:44 :	~ 8.00 minutes
Out of Range at:	10/14/2016 05:14:56	to	10/14/2016 06:16:40 :	61.73 minutes
Injector downtime:	10/14/2016 05:10:00	to	10/14/2016 06:16:36 :	66.60 minutes
Out of Range at:	10/14/2016 07:22:48	to	10/14/2016 08:13:28 :	50.67 minutes

Injector downtime:	10/14/2016 07:17:52	to	10/14/2016 08:13:24 :	55.53 minutes
Out of Range at:	10/15/2016 12:17:28	to	10/15/2016 13:40:16 :	82.80 minutes
Injector downtime:	10/15/2016 12:12:32	to	10/15/2016 13:40:12 :	87.67 minutes
Out of Range at:	10/15/2016 17:12:24	to	10/15/2016 17:30:32 :	18.13 minutes
Injector downtime:	10/15/2016 17:07:28	to	10/15/2016 17:24:24 :	16.93 minutes
Out of Range at:	10/15/2016 23:32:48	to	10/15/2016 23:44:48 :	12.00 minutes
Injector downtime:	10/15/2016 23:27:52	to	10/15/2016 23:42:32 :	14.67 minutes
Out of Range at:	10/17/2016 04:10:24	to	10/17/2016 04:23:12 :	12.80 minutes
Injector downtime:	10/17/2016 04:05:28	to	10/17/2016 04:20:48 :	15.33 minutes

Period Beginning 10/18/2016 08:01

Current in Range	99.84 %
Injector Availability	99.81 %

Out of Range at:	10/20/2016 14:02:16	to	10/20/2016 14:15:28 :	13.20 minutes
Injector downtime:	10/20/2016 13:57:20	to	10/20/2016 14:13:12 :	15.87 minutes

Period Beginning 10/25/2016 08:01

Current in Range	98.39 %
Injector Availability	98.06 %

Out of Range at:	10/28/2016 07:55:12	to	10/28/2016 08:05:44 :	10.53 minutes
Injector downtime:	10/28/2016 07:50:16	to	10/28/2016 08:05:40 :	15.40 minutes
Out of Range at:	10/28/2016 14:52:56	to	10/28/2016 15:39:28 :	46.53 minutes
Injector downtime:	10/28/2016 14:48:00	to	10/28/2016 15:39:24 :	51.40 minutes
Out of Range at:	10/28/2016 18:10:16	to	10/28/2016 19:03:36 :	53.33 minutes
Injector downtime:	10/28/2016 18:05:20	to	10/28/2016 19:02:56 :	57.60 minutes
Out of Range at:	10/28/2016 20:28:00	to	10/28/2016 20:32:08 :	4.13 minutes
Injector downtime:	10/28/2016 20:20:00	to	10/28/2016 20:28:00 :	~ 8.00 minutes
Out of Range at:	10/28/2016 20:35:52	to	10/28/2016 20:36:08 :	0.27 minutes
Out of Range at:	10/30/2016 08:10:40	to	10/30/2016 08:31:04 :	20.40 minutes
Injector downtime:	10/30/2016 08:05:44	to	10/30/2016 08:31:00 :	25.27 minutes
Out of Range at:	10/30/2016 18:38:32	to	10/30/2016 18:41:12 :	2.67 minutes
Injector downtime:	10/30/2016 18:30:32	to	10/30/2016 18:38:32 :	~ 8.00 minutes

Period Beginning 11/02/2016 08:01

Current in Range 98.44 %
Injector Availability 98.19 %

Out of Range at:	11/02/2016 13:39:36	to	11/02/2016 14:12:24 :	32.80 minutes
Injector downtime:	11/02/2016 13:34:40	to	11/02/2016 14:10:08 :	35.47 minutes
Out of Range at:	11/03/2016 14:20:48	to	11/03/2016 14:43:52 :	23.07 minutes
Injector downtime:	11/03/2016 14:15:52	to	11/03/2016 14:42:32 :	26.67 minutes
Out of Range at:	11/04/2016 09:43:12	to	11/04/2016 10:04:24 :	21.20 minutes
Injector downtime:	11/04/2016 09:38:16	to	11/04/2016 10:03:04 :	24.80 minutes
Out of Range at:	11/05/2016 19:57:52	to	11/05/2016 20:14:00 :	16.13 minutes
Injector downtime:	11/05/2016 19:52:56	to	11/05/2016 20:12:48 :	19.87 minutes
Out of Range at:	11/06/2016 04:42:16	to	11/06/2016 04:58:16 :	16.00 minutes
Injector downtime:	11/06/2016 04:37:20	to	11/06/2016 04:57:04 :	19.73 minutes

Period Beginning 11/08/2016 08:00

Current in Range 99.76 %
Injector Availability 99.72 %

Out of Range at:	11/11/2016 04:42:48	to	11/11/2016 05:03:36 :	20.80 minutes
Injector downtime:	11/11/2016 04:37:52	to	11/11/2016 05:02:24 :	24.53 minutes

Period Beginning 11/25/2016 08:01

Current in Range 99.92 %
Injector Availability 99.85 %

Out of Range at:	11/26/2016 07:54:48	to	11/26/2016 08:05:44 :	10.93 minutes
Injector downtime:	11/26/2016 07:49:52	to	11/26/2016 08:03:28 :	13.60 minutes
Out of Range at:	12/02/2016 14:17:52	to	12/02/2016 14:17:52 :	0.00 minutes
Injector downtime:	12/02/2016 14:09:52	to	12/02/2016 14:17:52 :	~ 8.00 minutes

Period Beginning 12/06/2016 08:01

Current in Range 100.00 %
Injector Availability 100.00 %

Period Beginning 12/13/2016 08:01

Current in Range 100.00 %

Injector Availability

100.00 %

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