

## Listing of Statistics for Run3-2014 (Created Tue Dec 16 10:31:52 CST 2014)

User periods in this interval

10/01/2014 08:00 To 10/07/2014 08:00 144.00 Hours, Delivered Beam: 134.50 Hours, 6 Fault(s), 22.42 MTBF, 93.40% of Sched. Time  
 10/08/2014 08:00 To 10/14/2014 08:00 144.00 Hours, Delivered Beam: 143.31 Hours, 1 Fault(s),143.31 MTBF, 99.52% of Sched. Time  
 10/15/2014 08:00 To 10/20/2014 08:00 120.00 Hours, Delivered Beam: 120.00 Hours, 0 Fault(s),120.00 MTBF,100.00% of Sched. Time  
 10/22/2014 08:00 To 10/28/2014 08:00 144.00 Hours, Delivered Beam: 141.96 Hours, 2 Fault(s), 70.98 MTBF, 98.58% of Sched. Time  
 10/29/2014 08:00 To 11/04/2014 08:00 145.00 Hours, Delivered Beam: 144.62 Hours, 1 Fault(s),144.62 MTBF, 99.74% of Sched. Time  
 11/05/2014 08:00 To 11/11/2014 08:00 144.00 Hours, Delivered Beam: 141.78 Hours, 1 Fault(s),141.78 MTBF, 98.46% of Sched. Time  
 11/12/2014 08:00 To 11/18/2014 08:00 144.00 Hours, Delivered Beam: 142.72 Hours, 1 Fault(s),142.72 MTBF, 99.11% of Sched. Time  
 11/19/2014 08:00 To 11/26/2014 24:00 184.00 Hours, Delivered Beam: 183.99 Hours, 0 Fault(s),183.99 MTBF,100.00% of Sched. Time  
 11/28/2014 08:01 To 12/02/2014 08:01 96.00 Hours, Delivered Beam: 95.99 Hours, 0 Fault(s), 95.99 MTBF, 99.99% of Sched. Time  
 12/03/2014 08:00 To 12/09/2014 08:00 144.00 Hours, Delivered Beam: 143.99 Hours, 0 Fault(s),143.99 MTBF,100.00% of Sched. Time  
 12/10/2014 08:00 To 12/16/2014 08:00 144.00 Hours, Delivered Beam: 144.00 Hours, 0 Fault(s),144.00 MTBF,100.00% of Sched. Time

**Total Amount of User Time in this interval**      **1552.96 Hours**    Delivered Beam    1536.84 Hours  
**Percentage of Scheduled Time** (↔)            **98.96 %**  
**Mean Time Between Faults (MTBF)**            **128.07 Hours**  
 Downtime During Period                            16.12 Hours  
 Total integrated Current During This Period    152.21 A-hr  
 Mean Fill Duration in Period                    118.22 Hours  
 Faults per Day of Delivered Beam              0.19  
 Total Number of Faults                          12

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	10/01 11:36	To 10/01 23:39	12.05	19 VV MPS trip[CTL]	3.60	BPLD cable replaced, validated DIAG
# 2	10/02 01:39	To 10/02 14:34	12.92	S19 VV MPS trip[CTL]	2.01	reboot FB IOC, stored beam
# 3	10/02 15:30	To 10/02 21:16	5.76	S5/6 DSP glitch {CTL}	0.94	Re-terminate connections, stored beam
# 4	10/02 22:00	To 10/03 17:15	19.25	Steering restore[AOP]	0.74	Reboot IOC, initialize FB, store beam
# 5	10/03 17:50	To 10/06 17:34	71.73	26-ID PSS trip[SI]	0.59	Investigation and refill
# 6	10/06 18:37	To 10/07 05:01	10.39	S6B:Q3 trip {PS}	1.06	Investigation,beamline off-line,standardize,refill
# 7	10/07 05:35	To 10/07 07:59	2.40	Int Dump: End of Period	0.58	reset, conditioned, stored beam
# 8	10/08 08:00	To 10/13 02:34	114.56	S38 Cab 1 Gespac [PS]	0.00	
# 9	10/13 03:15	To 10/14 07:59	28.74	Int Dump: End of Period	0.69	Reset, conditioned and refilled
# 10	10/15 08:00	To 10/20 07:59	120.00	Int Dump: End of Period	0.00	
# 11	10/22 08:00	To 10/23 14:51	30.85	RF2 Kly Out Arc [RF]	0.00	
# 12	10/23 15:40	To 10/26 03:22	59.70	26ID PSS trip [SI]	0.82	2nd trip, investigation, reset & stored beam
# 13	10/26 04:35	To 10/28 07:59	51.41	Int Dump: End of Period	1.22	Conditioned, P0 feedback problem[.3hr AOP,.92hr SI]

# 14	10/29 08:00	To	10/31 15:59	55.99	<50mA P0 feedback[AOP]	0.00	
# 15	10/31 16:22	To	11/04 07:59	88.62	Int Dump: End of Period	0.38	Restored bunch pattern to P0 feedback, fill-on-fill
# 16	11/05 08:00	To	11/10 13:37	125.63	IOCS25BPM P.S.fail[CTL]	2.22	P.S.,RF4 problem,Bunch0, 1.2hr.CTL,.72hr.RF,.3hr
# 17	11/10 15:51	To	11/11 07:59	16.15	Int Dump: End of Period	0.00	
# 18	11/12 08:00	To	11/17 11:33	123.55	RF4 door switch[RF]	1.28	Investigation by RF group, repair, refilled
# 19	11/17 12:50	To	11/18 07:59	19.17	Int Dump: End of Period	0.00	
# 20	11/19 08:00	To	11/26 23:59	183.99	Int Dump: End of Period	0.00	
# 21	11/28 08:00	To	12/02 08:00	95.99	Int Dump: End of Period	-0.01	
# 22	12/03 08:00	To	12/09 08:00	143.99	Int Dump: End of Period	0.01	
# 23	12/10 08:00	To	12/16 07:59	144.00	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	98.00 %
Current in Range during Delivered Beam Time	99.23 %
Injector Availability	99.10 %

#### Period Beginning 10/01/2014 08:00

Current in Range	97.77 %
Injector Availability	97.22 %

Out of Range at:	10/02/2014 11:42:56	to	10/02/2014 12:02:16 :	19.33 minutes
Injector downtime:	10/02/2014 11:38:00	to	10/02/2014 12:00:08 :	22.13 minutes
Out of Range at:	10/03/2014 04:59:20	to	10/03/2014 05:20:24 :	21.07 minutes
Injector downtime:	10/03/2014 04:54:24	to	10/03/2014 05:18:08 :	23.73 minutes
Out of Range at:	10/04/2014 16:07:12	to	10/04/2014 16:10:08 :	2.93 minutes
Injector downtime:	10/04/2014 15:59:12	to	10/04/2014 16:07:12 :	~ 8.00 minutes
Out of Range at:	10/05/2014 10:41:52	to	10/05/2014 10:46:32 :	4.67 minutes
Injector downtime:	10/05/2014 10:33:52	to	10/05/2014 10:41:52 :	~ 8.00 minutes
Out of Range at:	10/05/2014 13:29:04	to	10/05/2014 13:52:32 :	23.47 minutes
Injector downtime:	10/05/2014 13:24:08	to	10/05/2014 13:50:08 :	26.00 minutes
Out of Range at:	10/06/2014 04:59:36	to	10/06/2014 05:04:48 :	5.20 minutes

Injector downtime:	10/06/2014 04:51:36	to	10/06/2014 04:59:36 :	~ 8.00 minutes
Out of Range at:	10/06/2014 12:42:40	to	10/06/2014 12:55:20 :	12.67 minutes
Injector downtime:	10/06/2014 12:37:44	to	10/06/2014 12:53:04 :	15.33 minutes
Out of Range at:	10/06/2014 20:12:48	to	10/06/2014 20:16:48 :	4.00 minutes
Injector downtime:	10/06/2014 20:04:48	to	10/06/2014 20:12:48 :	~ 8.00 minutes
Out of Range at:	10/07/2014 00:08:56	to	10/07/2014 00:10:40 :	1.73 minutes
Injector downtime:	10/07/2014 00:00:56	to	10/07/2014 00:08:56 :	~ 8.00 minutes
Out of Range at:	10/07/2014 03:37:04	to	10/07/2014 05:01:04 :	84.00 minutes
Injector downtime:	10/07/2014 03:32:08	to	10/07/2014 05:01:00 :	88.87 minutes
Out of Range at:	10/07/2014 06:14:00	to	10/07/2014 06:15:04 :	1.07 minutes
Injector downtime:	10/07/2014 06:06:00	to	10/07/2014 06:14:00 :	~ 8.00 minutes

Period Beginning 10/08/2014 08:00

Current in Range	100.00 %
Injector Availability	100.00 %

Period Beginning 10/15/2014 08:00

Current in Range	99.85 %
Injector Availability	99.79 %

Out of Range at:	10/19/2014 11:59:44	to	10/19/2014 12:10:16 :	10.53 minutes
Injector downtime:	10/19/2014 11:54:48	to	10/19/2014 12:10:12 :	15.40 minutes

Period Beginning 10/22/2014 08:00

Current in Range	96.88 %
Injector Availability	96.77 %

Out of Range at:	10/23/2014 19:56:40	to	10/23/2014 20:38:32 :	41.87 minutes
Injector downtime:	10/23/2014 19:51:44	to	10/23/2014 20:38:28 :	46.73 minutes
Out of Range at:	10/25/2014 10:32:40	to	10/25/2014 10:41:36 :	8.93 minutes
Injector downtime:	10/25/2014 10:24:40	to	10/25/2014 10:32:40 :	~ 8.00 minutes
Out of Range at:	10/25/2014 21:01:44	to	10/26/2014 00:36:56 :	215.20 minutes
Injector downtime:	10/25/2014 20:56:48	to	10/26/2014 00:36:52 :	220.07 minutes

Period Beginning 10/29/2014 08:00

Current in Range	99.86 %
Injector Availability	99.75 %

Out of Range at:	10/31/2014 15:51:12	to	10/31/2014 15:59:44 :	8.53 minutes
Injector downtime:	10/31/2014 15:46:16	to	10/31/2014 15:59:40 :	13.40 minutes
Out of Range at:	10/31/2014 21:51:12	to	10/31/2014 21:54:48 :	3.60 minutes
Injector downtime:	10/31/2014 21:43:12	to	10/31/2014 21:51:12 :	~ 8.00 minutes

Period Beginning 11/12/2014 08:00

Current in Range	100.00 %
Injector Availability	100.00 %

Period Beginning 11/19/2014 08:00

Current in Range	99.61 %
Injector Availability	99.50 %

Out of Range at:	11/23/2014 02:58:08	to	11/23/2014 03:24:48 :	26.67 minutes
Injector downtime:	11/23/2014 02:53:12	to	11/23/2014 03:24:44 :	31.53 minutes
Out of Range at:	11/23/2014 14:46:08	to	11/23/2014 14:56:56 :	10.80 minutes
Injector downtime:	11/23/2014 14:41:12	to	11/23/2014 14:56:52 :	15.67 minutes
Out of Range at:	11/25/2014 05:41:28	to	11/25/2014 05:46:56 :	5.47 minutes
Injector downtime:	11/25/2014 05:33:28	to	11/25/2014 05:41:28 :	~ 8.00 minutes

Period Beginning 11/28/2014 08:01

Current in Range	99.99 %
Injector Availability	99.86 %

Out of Range at:	11/28/2014 11:38:08	to	11/28/2014 11:38:56 :	0.80 minutes
Injector downtime:	11/28/2014 11:30:08	to	11/28/2014 11:38:08 :	~ 8.00 minutes

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