

SR Fill History

Listing of Statistics for Run1-2013 (Created Mon Apr 29 07:57:46 CDT 2013)

Total Amount of User Time in this interval 1726.94 Hours

User periods in this interval

01/29/2013 08:00	To	02/05/2013 08:00	168.00 Hours, Delivered Beam: 165.12 Hours, 1 Fault(s), 165.12 MTBF, 98.29% of Sched. Time
02/06/2013 08:00	To	02/12/2013 08:00	144.00 Hours, Delivered Beam: 141.68 Hours, 2 Fault(s), 70.84 MTBF, 98.39% of Sched. Time
02/13/2013 08:00	To	02/19/2013 08:00	144.00 Hours, Delivered Beam: 140.16 Hours, 1 Fault(s), 140.16 MTBF, 97.33% of Sched. Time
02/20/2013 08:00	To	02/25/2013 08:00	120.00 Hours, Delivered Beam: 120.00 Hours, 0 Fault(s), 120.00 MTBF, 100.00% of Sched. Time
02/27/2013 08:00	To	03/05/2013 08:00	144.00 Hours, Delivered Beam: 143.19 Hours, 1 Fault(s), 143.19 MTBF, 99.44% of Sched. Time
03/06/2013 08:00	To	03/11/2013 08:00	119.00 Hours, Delivered Beam: 113.64 Hours, 2 Fault(s), 56.82 MTBF, 95.50% of Sched. Time
03/13/2013 08:00	To	03/19/2013 08:00	144.00 Hours, Delivered Beam: 144.00 Hours, 0 Fault(s), 144.00 MTBF, 100.00% of Sched. Time
03/20/2013 08:00	To	03/26/2013 08:00	144.00 Hours, Delivered Beam: 143.99 Hours, 0 Fault(s), 143.99 MTBF, 100.00% of Sched. Time
03/27/2013 08:00	To	04/02/2013 08:00	144.00 Hours, Delivered Beam: 143.99 Hours, 0 Fault(s), 143.99 MTBF, 100.00% of Sched. Time
04/03/2013 08:00	To	04/09/2013 08:00	144.00 Hours, Delivered Beam: 141.91 Hours, 2 Fault(s), 70.95 MTBF, 98.55% of Sched. Time
04/10/2013 08:00	To	04/16/2013 08:00	144.00 Hours, Delivered Beam: 143.99 Hours, 0 Fault(s), 143.99 MTBF, 100.00% of Sched. Time
04/17/2013 08:00	To	04/24/2013 08:00	168.00 Hours, Delivered Beam: 165.85 Hours, 1 Fault(s), 165.85 MTBF, 98.72% of Sched. Time

Delivered Beam 1707.53 Hours  
 Percentage of Scheduled Time 98.88 %  
 Downtime During Period 19.42 Hours  
 Percentage of scheduled time SR current > 10 ma 99.14 %  
 Average Delivered Current During This Period 100.23 mA  
 Total integrated Current During This Period 171.15 A-hr

Mean Fill Duration in Period 155.23 Hours  
 Mean Fill Duration from Poisson Fit 183.31 Hours  
 Mean Time Between Faults (MTBF) 170.75 Hours  
 Faults per Day of Delivered Beam 0.14  
 Total Number of Faults 10  
 Scheduled Topup Time 1415.00 Hours

Valid fills Beginning in this Time Interval | Reason for | Length | Downtime is associated with the end of a  
 any | of | The first fill of a period will have  
 Fill# Start End Duration | Fill Termination | Downtime | downtime before the fill on the line  
 above. (min: 1.0) |

# 1	01/29 08:00	To	02/01 12:17	76.30	SR VacValve closed[Ctl]	0.00	
# 2	02/01 15:10	To	02/05 07:59	88.83	Int Dump: End of Period	2.87	Investigation, replaced controller
# 3	02/06 08:00	To	02/09 11:24	75.40	IOCRF3HVPS reboot [CTL]	1.56	Dumped for bad Bunch Purity:[CTL]0.5hr
# 5	02/09 12:58	To	02/11 17:56	52.98	23ID PSS trip [SI]	0.75	Investigation, reset systems, refilled
# 6	02/11 18:41	To	02/12 07:59	13.30	Int Dump: End of Period	0.00	
# 7	02/13 08:00	To	02/14 08:04	24.07	UPS bypass failed[SO]	3.83	Bypass failed UPS,searched,reset/condition systems
# 8	02/14 11:54	To	02/19 07:59	116.09	Int Dump: End of Period	0.00	
# 9	02/20 08:00	To	02/25 07:59	120.00	Int Dump: End of Period	0.00	
# 10	02/27 08:00	To	02/28 17:19	33.33	RF2 Crowbar [RF]	0.80	Investigation, refill; 0.5hr[RF], 0.3hr[AOP]
# 11	02/28 18:07	To	03/05 07:59	109.87	Int Dump: End of Period	0.00	
# 12	03/06 08:00	To	03/07 21:17	37.29	RF2 unstable [RF]	4.80	2nd beam loss, waveguide switch, recovery
# 14	03/08 02:05	To	03/08 14:38	12.54	RF2 unstable [OTH]	0.56	Investigation refill
# 15	03/08 15:11	To	03/11 07:59	63.80	Int Dump: End of Period	0.00	
# 16	03/13 08:00	To	03/19 07:59	144.00	Int Dump: End of Period	0.00	
# 17	03/20 08:00	To	03/26 07:59	143.99	Int Dump: End of Period	0.00	
# 18	03/27 08:00	To	04/02 07:59	143.99	Int Dump: End of Period	0.01	
# 19	04/03 08:00	To	04/06 13:58	77.97	20-ID PSS trip [SI]	0.74	SR RF & Dipole recovered, 20-ID offline, refill[SI]
# 20	04/06 14:43	To	04/08 08:28	41.76	S29A:S2 PS trip [PS]	1.34	swapped supply, conditioned, refilled [PS]
# 21	04/08 09:49	To	04/09 07:59	22.18	Int Dump: End of Period	0.00	
# 22	04/10 08:00	To	04/16 07:59	143.99	Int Dump: End of Period	0.01	

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# 23 04/17 08:00 To 04/22 11:59 123.99 | 10BM PSS trip[OTH] | 0.01
1.48hr[OTH],0.9hr[DIAG],0.52[AOP] | 2.15 Multiple issues
# 24 04/22 14:08 To 04/24 07:59 41.86 | Int Dump: End of Period | 0.00
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Top-Up Mode Statistics

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

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Total
Current in Range during Scheduled Topup Time 97.98 %
Current in Range during Delivered Beam Time 99.19 %
Injector Availability 99.13 %

Period Beginning 01/29/2013 08:00
Current in Range 99.11 %
Injector Availability 98.98 %
Out of Range at: 01/29/2013 14:26:40 to 01/29/2013 14:37:12 : 10.53 minutes
Injector downtime: 01/29/2013 14:21:44 to 01/29/2013 14:34:56 : 13.20 minutes
Out of Range at: 01/31/2013 14:54:08 to 01/31/2013 15:26:08 : 32.00 minutes
Injector downtime: 01/31/2013 14:49:12 to 01/31/2013 15:26:04 : 36.87 minutes
Out of Range at: 02/04/2013 07:39:20 to 02/04/2013 08:25:12 : 45.87 minutes
Injector downtime: 02/04/2013 07:34:24 to 02/04/2013 08:25:08 : 50.73 minutes

Period Beginning 02/06/2013 08:00
Current in Range 99.97 %
Injector Availability 99.91 %
Out of Range at: 02/09/2013 00:33:04 to 02/09/2013 00:35:44 : 2.67 minutes
Injector downtime: 02/09/2013 00:25:04 to 02/09/2013 00:33:04 : 8.00 minutes (est)

Period Beginning 02/13/2013 08:00
Current in Range 99.07 %
Injector Availability 99.03 %
Out of Range at: 02/13/2013 09:53:36 to 02/13/2013 11:04:24 : 70.80 minutes
Injector downtime: 02/13/2013 09:48:40 to 02/13/2013 11:02:08 : 73.47 minutes
Out of Range at: 02/17/2013 05:40:48 to 02/17/2013 05:48:08 : 7.33 minutes
Injector downtime: 02/17/2013 05:32:48 to 02/17/2013 05:40:48 : 8.00 minutes (est)

Period Beginning 02/20/2013 08:00
Current in Range 98.05 %
Injector Availability 98.21 %
Out of Range at: 02/20/2013 14:03:12 to 02/20/2013 15:21:44 : 78.53 minutes
Injector downtime: 02/20/2013 13:58:16 to 02/20/2013 15:19:28 : 81.20 minutes
Out of Range at: 02/23/2013 17:19:04 to 02/23/2013 18:20:40 : 61.60 minutes
Injector downtime: 02/23/2013 17:14:36 to 02/23/2013 17:29:44 : 15.13 minutes
Injector downtime: 02/23/2013 17:48:08 to 02/23/2013 18:20:36 : 32.47 minutes

Period Beginning 02/27/2013 08:00
Current in Range 100.00 %
Injector Availability 100.00 %

Period Beginning 03/06/2013 08:00
Current in Range 100.00 %
Injector Availability 100.00 %

Period Beginning 03/13/2013 08:00
Current in Range 99.94 %
Injector Availability 99.91 %
Out of Range at: 03/14/2013 06:05:28 to 03/14/2013 06:10:40 : 5.20 minutes
Injector downtime: 03/14/2013 05:57:28 to 03/14/2013 06:05:28 : 8.00 minutes (est)

Period Beginning 03/20/2013 08:00
Current in Range 97.78 %
Injector Availability 97.67 %
Out of Range at: 03/21/2013 21:46:32 to 03/22/2013 00:43:12 : 176.67 minutes
Injector downtime: 03/21/2013 21:41:36 to 03/22/2013 00:43:08 : 181.53 minutes
Out of Range at: 03/23/2013 21:29:28 to 03/23/2013 21:44:32 : 15.07 minutes
Injector downtime: 03/23/2013 21:24:32 to 03/23/2013 21:44:28 : 19.93 minutes

Period Beginning 03/27/2013 08:00
Current in Range 99.24 %
Injector Availability 99.09 %
Out of Range at: 03/30/2013 04:10:56 to 03/30/2013 04:55:52 : 44.93 minutes
Injector downtime: 03/30/2013 04:06:00 to 03/30/2013 04:53:36 : 47.60 minutes
Out of Range at: 03/30/2013 05:10:00 to 03/30/2013 05:27:52 : 17.87 minutes
Injector downtime: 03/30/2013 05:05:04 to 03/30/2013 05:27:48 : 22.73 minutes
Out of Range at: 03/31/2013 03:29:12 to 03/31/2013 03:32:24 : 3.20 minutes
Injector downtime: 03/31/2013 03:21:12 to 03/31/2013 03:29:12 : 8.00 minutes (est)

Period Beginning 04/03/2013 08:00
Current in Range 98.77 %
Injector Availability 98.54 %
Out of Range at: 04/06/2013 15:59:52 to 04/06/2013 16:16:00 : 16.13 minutes
Injector downtime: 04/06/2013 15:54:56 to 04/06/2013 16:15:56 : 21.00 minutes
Out of Range at: 04/07/2013 14:47:44 to 04/07/2013 15:29:04 : 41.33 minutes
Injector downtime: 04/07/2013 14:42:48 to 04/07/2013 15:29:00 : 46.20 minutes
Out of Range at: 04/07/2013 16:35:36 to 04/07/2013 17:06:00 : 30.40 minutes
Injector downtime: 04/07/2013 16:30:40 to 04/07/2013 17:05:56 : 35.27 minutes
Out of Range at: 04/08/2013 18:53:04 to 04/08/2013 19:10:00 : 16.93 minutes
Injector downtime: 04/08/2013 18:48:08 to 04/08/2013 19:09:56 : 21.80 minutes
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