

Listing of Statistics for Run3-2019 (Created Thu Jan 02 12:38:46 CST 2020)

Total Amount of User Time in this interval 1600.96 Hours

User periods in this interval

10/01/2019 08:00	To	10/07/2019 08:00	144.00	Hours,	Delivered Beam:	144.00	Hours,	0	Fault(s),	144.00	MTBF,	100.00%	of Sched. Time
10/08/2019 08:00	To	10/14/2019 08:00	144.00	Hours,	Delivered Beam:	68.48	Hours,	1	Fault(s),	68.48	MTBF,	47.55%	of Sched. Time
10/15/2019 08:00	To	10/21/2019 08:00	144.00	Hours,	Delivered Beam:	143.40	Hours,	1	Fault(s),	143.40	MTBF,	99.58%	of Sched. Time
10/22/2019 08:00	To	10/28/2019 08:00	144.00	Hours,	Delivered Beam:	142.59	Hours,	1	Fault(s),	142.59	MTBF,	99.02%	of Sched. Time
10/29/2019 08:00	To	11/04/2019 08:00	145.00	Hours,	Delivered Beam:	144.99	Hours,	0	Fault(s),	144.99	MTBF,	100.00%	of Sched. Time
11/06/2019 08:00	To	11/11/2019 08:00	120.00	Hours,	Delivered Beam:	116.71	Hours,	0	Fault(s),	116.71	MTBF,	97.26%	of Sched. Time
11/12/2019 08:00	To	11/18/2019 08:00	144.00	Hours,	Delivered Beam:	142.70	Hours,	1	Fault(s),	142.70	MTBF,	99.09%	of Sched. Time
11/19/2019 08:00	To	11/27/2019 08:00	192.00	Hours,	Delivered Beam:	191.42	Hours,	1	Fault(s),	191.42	MTBF,	99.70%	of Sched. Time
11/29/2019 08:00	To	12/09/2019 08:00	240.00	Hours,	Delivered Beam:	238.43	Hours,	2	Fault(s),	119.22	MTBF,	99.35%	of Sched. Time
12/10/2019 08:00	To	12/17/2019 24:00	184.00	Hours,	Delivered Beam:	183.44	Hours,	1	Fault(s),	183.44	MTBF,	99.70%	of Sched. Time

Delivered Beam 1516.15 Hours
 Percentage of Scheduled Time 94.70 %
 Downtime During Period 84.80 Hours
 Percentage of scheduled time SR current > 10 ma 95.96 %
 Average Delivered Current During This Period 100.09 mA
 Total integrated Current During This Period 151.76 A-hr

Mean Fill Duration in Period 168.46 Hours
 Mean Fill Duration from Poisson Fit 175.64 Hours
 Mean Time Between Faults (MTBF) 189.52 Hours
 Faults per Day of Delivered Beam 0.13
 Total Number of Faults 8
 Scheduled Topup Time 1312.00 Hours

Valid fills Beginning in this Time Interval	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.
Fill# Start End Duration (min: 1.0)			
# 1 10/01 08:00 To 10/07 07:59 144.00	Int Dump: End of Period	0.00	
# 2 10/11 08:00 To 10/13 21:50 61.84	S13A:V3 P.S. DAC flt[PS]	72.00	S:IS1 magnet failure [MOM]
# 3 10/14 01:21 To 10/14 07:59 6.64	Int Dump: End of Period	3.52	Trblsht, shut off PS, BPMs removed, [0.5hr-PS, 3hr-CT]
# 4 10/15 08:00 To 10/19 14:36 102.60	RF rflctd pwr fault[RF]	0.60	Recovered the RF system and refilled
# 5 10/19 15:12 To 10/21 07:59 40.79	Int Dump: End of Period	0.00	
# 6 10/22 08:00 To 10/22 15:32 7.55	S19A:S1 P.S. I out=0[PS]	1.41	Swapped supply, conditioned, filled
# 7 10/22 16:57 To 10/28 07:59 135.04	Int Dump: End of Period	0.00	
# 8 10/29 08:00 To 11/04 07:59 144.99	Int Dump: End of Period	0.00	
# 9 11/06 11:17 To 11/11 07:59 116.71	Int Dump: End of Period	3.28	BESOCM trips[1.78hr, RF]; High coupling[1.5hr, AOP]
# 10 11/12 08:00 To 11/17 08:49 120.81	Rad. Monitor trip [OTH]	1.30	Recovery and refilled ring
# 11 11/17 10:07 To 11/18 07:59 21.88	Int Dump: End of Period	0.00	
# 12 11/19 08:00 To 11/21 06:02 46.03	P0 feedback problem[AOP]	0.57	Investigation, adjusted chromaticity, refill
# 13 11/21 06:36 To 11/27 07:59 145.39	Int Dump: End of Period	0.00	

# 14	11/29 08:00	To	11/30 01:39	17.66		RF3 Crowbar fired[RF]		0.00
# 15	11/30 02:14	To	12/06 22:22	164.12		Stuck mixing valve [MOM]		0.98
# 16	12/06 23:20	To	12/09 07:59	56.65		Int Dump: End of Period		0.00

# 17	12/10 08:00	To	12/16 06:07	142.12		RF2 trip S37 hybrid[RF]		0.55
# 18	12/16 06:40	To	12/17 23:59	41.32		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	92.65 %
Current in Range during Delivered Beam Time	98.95 %
Injector Availability	98.84 %

Period Beginning 10/01/2019 08:00

Current in Range	99.53 %
Injector Availability	99.47 %
Out of Range at:	10/03/2019 07:27:44 to 10/03/2019 08:08:16 : 40.53 minutes
Injector downtime:	10/03/2019 07:22:48 to 10/03/2019 08:08:12 : 45.40 minutes

Period Beginning 10/08/2019 08:00

Current in Range	99.76 %
Injector Availability	99.61 %
Out of Range at:	10/13/2019 01:10:00 to 10/13/2019 01:13:36 : 3.60 minutes
Injector downtime:	10/13/2019 01:02:00 to 10/13/2019 01:10:00 : 8.00 minutes (est)
Out of Range at:	10/13/2019 21:44:08 to 10/13/2019 21:50:16 : 6.13 minutes
Injector downtime:	10/13/2019 21:36:08 to 10/13/2019 21:44:08 : 8.00 minutes (est)

Period Beginning 10/15/2019 08:00

Current in Range	99.11 %
Injector Availability	99.05 %
Out of Range at:	10/15/2019 15:00:48 to 10/15/2019 15:32:16 : 31.47 minutes
Injector downtime:	10/15/2019 14:55:52 to 10/15/2019 15:30:08 : 34.27 minutes
Out of Range at:	10/16/2019 00:31:44 to 10/16/2019 01:16:48 : 45.07 minutes
Injector downtime:	10/16/2019 00:26:48 to 10/16/2019 01:14:32 : 47.73 minutes

Period Beginning 11/06/2019 08:00

Current in Range	97.44 %
Injector Availability	97.22 %
Out of Range at:	11/06/2019 13:19:36 to 11/06/2019 14:03:20 : 43.73 minutes
Injector downtime:	11/06/2019 13:14:40 to 11/06/2019 14:02:00 : 47.33 minutes
Out of Range at:	11/06/2019 14:48:56 to 11/06/2019 15:04:32 : 15.60 minutes
Injector downtime:	11/06/2019 14:44:00 to 11/06/2019 15:04:28 : 20.47 minutes
Out of Range at:	11/08/2019 02:47:44 to 11/08/2019 04:42:56 : 115.20 minutes
Injector downtime:	11/08/2019 02:42:48 to 11/08/2019 04:41:44 : 118.93 minutes
Out of Range at:	11/08/2019 05:40:32 to 11/08/2019 05:45:04 : 4.53 minutes
Injector downtime:	11/08/2019 05:32:32 to 11/08/2019 05:40:32 : 8.00 minutes (est)

Period Beginning 11/12/2019 08:00

Current in Range	99.57 %
Injector Availability	99.43 %
Out of Range at:	11/12/2019 10:58:32 to 11/12/2019 11:08:00 : 9.47 minutes
Injector downtime:	11/12/2019 10:53:36 to 11/12/2019 11:06:48 : 13.20 minutes
Out of Range at:	11/14/2019 18:00:00 to 11/14/2019 18:15:36 : 15.60 minutes
Injector downtime:	11/14/2019 17:55:04 to 11/14/2019 18:14:16 : 19.20 minutes
Out of Range at:	11/15/2019 13:56:24 to 11/15/2019 14:08:00 : 11.60 minutes
Injector downtime:	11/15/2019 13:51:28 to 11/15/2019 14:07:56 : 16.47 minutes

Period Beginning 11/19/2019 08:00

Current in Range	99.26 %
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Injector Availability 99.10 %
Out of Range at: 11/19/2019 08:00:56 to 11/19/2019 08:04:00 : 3.07 minutes
Injector downtime: 11/19/2019 07:52:56 to 11/19/2019 08:00:56 : 8.00 minutes (est)
Out of Range at: 11/19/2019 10:58:24 to 11/19/2019 11:06:16 : 7.87 minutes
Injector downtime: 11/19/2019 10:50:24 to 11/19/2019 10:58:24 : 8.00 minutes (est)
Out of Range at: 11/21/2019 04:57:52 to 11/21/2019 05:06:40 : 8.80 minutes
Injector downtime: 11/21/2019 04:52:56 to 11/21/2019 05:06:36 : 13.67 minutes
Out of Range at: 11/23/2019 06:05:12 to 11/23/2019 06:43:12 : 38.00 minutes
Injector downtime: 11/23/2019 06:00:16 to 11/23/2019 06:40:56 : 40.67 minutes
Out of Range at: 11/25/2019 11:38:48 to 11/25/2019 12:06:32 : 27.73 minutes
Injector downtime: 11/25/2019 11:33:52 to 11/25/2019 12:06:28 : 32.60 minutes

Period Beginning 11/29/2019 08:00

Current in Range 97.70 %
Injector Availability 97.65 %
Out of Range at: 11/29/2019 08:00:16 to 11/29/2019 12:45:44 : 285.47 minutes
Injector downtime: 11/29/2019 07:55:20 to 11/29/2019 12:44:56 : 289.60 minutes
Out of Range at: 12/01/2019 02:49:04 to 12/01/2019 03:32:00 : 42.93 minutes
Injector downtime: 12/01/2019 02:44:08 to 12/01/2019 03:31:00 : 46.87 minutes

Period Beginning 12/10/2019 08:00

Current in Range 99.81 %
Injector Availability 99.77 %
Out of Range at: 12/15/2019 13:13:12 to 12/15/2019 13:33:52 : 20.67 minutes
Injector downtime: 12/15/2019 13:08:16 to 12/15/2019 13:33:48 : 25.53 minutes