

Listing of Statistics for Run4-2000

Total Amount of User Time in this interval 1000.14 Hours

User periods in this interval

11/02/2000 08:01 To 11/07/2000 08:00	119.99 Hours, Delivered Beam: 115.97 Hours, 6 Fault(s), 19.33 MTBF, 9
11/07/2000 16:00 To 11/13/2000 08:01	136.02 Hours, Delivered Beam: 132.58 Hours, 5 Fault(s), 26.52 MTBF, 9
11/15/2000 08:02 To 11/23/2000 00:01	183.99 Hours, Delivered Beam: 171.53 Hours, 9 Fault(s), 19.06 MTBF, 9
11/24/2000 08:01 To 11/27/2000 07:59	71.98 Hours, Delivered Beam: 71.21 Hours, 2 Fault(s), 35.61 MTBF, 9
11/29/2000 08:01 To 12/05/2000 08:10	144.15 Hours, Delivered Beam: 141.07 Hours, 4 Fault(s), 35.27 MTBF, 9
12/05/2000 16:00 To 12/11/2000 08:00	135.99 Hours, Delivered Beam: 129.46 Hours, 8 Fault(s), 16.18 MTBF, 9
12/13/2000 08:01 To 12/21/2000 24:00	207.98 Hours, Delivered Beam: 191.14 Hours, 11 Fault(s), 17.38 MTBF, 9

Delivered Beam 952.95 Hours
 Percentage of Scheduled Time 95.29 %
 Downtime During Period 47.15 Hours
 Percentage of scheduled time SR current > 10 ma 96.34 %
 Average Delivered Current During This Period 83.11 ma
 Total integrated Current During This Period 79.20 A-hr

Mean Fill Duration in Period 20.72 Hours
 Mean Fill Duration from Poisson Fit 17.17 Hours
 Mean Time Between Faults (MTBF) 21.18 Hours
 Faults per Day of Delivered Beam 1.13

Valid fills Beginning in this Time Interval	Reason for Fill Termination	Length of Downtime	Downtime is associated with The first fill of a period downtime before the fi
Fill# Start End Duration			
# 2 11/02 08:02 To 11/03 19:45 35.71	Cav.40 IG fault [RF]	0.03	
# 4 11/03 20:19 To 11/04 07:52 11.54	Rad. Mon. trip [OPS]	0.58 recover	
# 5 11/04 08:13 To 11/04 19:44 11.52	Dump for purity [RF]	0.35 recover	
# 7 11/04 20:04 To 11/05 19:45 23.68	Dump for purity [RF]	0.33 recover	
# 8 11/05 20:06 To 11/06 01:19 5.21	Cav.40 IG fault [RF]	0.35 recover	
# 10 11/06 01:58 To 11/06 15:48 13.84	RF1 water temp trip [RF]	0.66 Recover	
# 11 11/06 17:31 To 11/07 07:59 14.46	Int Dump: End of Period	1.72 investigate, RF sys. swap	
# 12 11/07 15:59 To 11/08 19:48 27.81	Rad. mon. trip [OPS]	0.01	
# 15 11/08 20:09 To 11/10 07:46 35.61	Rad.mon. trip [UKN]	0.35 Recover	
# 17 11/10 08:09 To 11/10 19:44 11.58	Dump for purity [RF]	0.40 Recover	
# 20 11/10 20:07 To 11/12 23:26 51.32	13ID BPLD & Rad.Mon[UKN]	0.38 Recover	
# 23 11/12 23:51 To 11/13 03:10 3.32	S24AQ2 lost curr. [PS]	0.41 recover	
# 24 11/13 05:04 To 11/13 08:00 2.93	Int Dump: End of Period	1.89 PS swap, recover	
# 25 11/15 08:01 To 11/16 01:27 17.44	RF PS sys trip [RF]	0.02	
# 28 11/16 03:53 To 11/17 11:58 32.08	Zone-F ACIS trip [CTL]	2.42 Monitor replacement, recover	
# 30 11/17 13:51 To 11/17 15:16 1.42	S37Cav.Vac. Fault [RF]	1.90 Recover, investigation	
# 32 11/17 15:53 To 11/18 23:41 31.81	unknown bpld trip [UKN]	0.60 Recover, orbit correction problem	
# 36 11/19 00:09 To 11/19 16:40 16.51	S16/17 Raw PS trip [PS]	0.46 Recover	
# 39 11/19 20:04 To 11/20 18:02 21.97	S16/17 Raw PS trip [PS]	3.40 Conditioning, S9BPLD trip...	
# 41 11/20 19:00 To 11/21 13:18 18.30	S15B:H3 lost curr. [PS]	0.97 Recover	
# 44 11/21 14:34 To 11/22 07:46 17.20	S40 cav 2 ip trip [RF]	1.26 Recover, convertor swap, S16/17 :	
# 45 11/22 08:03 To 11/22 14:21 6.30	rf PSS trp cell ph [OTH]	0.28 refill	
# 46 11/22 15:31 To 11/23 00:00 8.49	Int Dump: End of Period	1.17 problems reestablishing injector	
# 49 11/24 08:00 To 11/26 01:02 41.03	Unknown RadMon trp [UKN]	0.00	
# 53 11/26 01:31 To 11/26 19:50 18.31	S40 cav 2 ip trip [RF]	0.49 refill	
# 54 11/26 20:06 To 11/27 07:59 11.88	Int Dump: End of Period	0.27 refill	
# 55 11/29 08:00 To 11/29 21:56 13.93	Unkown BPLD/RadMon [UKN]	0.00	
# 58 11/29 22:26 To 12/01 03:32 29.11	RF1 arc detect.trip [RF]	0.50 refill	
# 60 12/01 04:03 To 12/02 07:52 27.81	s40 IG trips [RF]	0.52 4ID opening, refill	
# 65 12/02 09:03 To 12/04 09:38 48.57	Pump PSR 38A trip [H2O]	1.19 9ID BPLD trips, refill	
# 69 12/04 10:30 To 12/05 08:09 21.66	Int Dump: End of Period	0.87 recovery	
# 71 12/05 16:01 To 12/05 18:26 2.41	S33:VV01 closed [CTL]	0.01	
# 72 12/05 18:40 To 12/06 08:50 14.16	Pump PSR34A trip [H2O]	0.24 refill	
# 73 12/06 09:50 To 12/06 10:48 0.95	RF2 HVPS trip [RF]	1.01 Gap opening, Standardize magnet,	
# 74 12/06 11:06 To 12/07 13:30 26.39	S15A:Q3 trip [PS]	0.31 refill	
# 75 12/07 16:22 To 12/07 21:09 4.77	S14/15 Q/S trip [PS]	2.87 PS swap, refill	
# 76 12/07 22:16 To 12/07 23:21 1.08	ID6 rad mon. trip [UKN]	1.13 investigation, refill	
# 77 12/07 23:42 To 12/09 07:14 31.54	RF1 S40 Cav.IG trip [RF]	0.34 refill	
# 78 12/09 07:31 To 12/10 15:41 32.17	S24 gate Valve [CTL]	0.29 refill	

# 79	12/10 16:00	To 12/11 07:59	15.98	Int Dump: End of Period	0.00

# 80	12/13 08:01	To 12/13 09:12	1.20	RF4 HVPS trip [RF]	0.79 Rad Mon. trip, refill
# 81	12/13 10:00	To 12/13 22:17	12.29	RF4 HVPS trip [RF]	0.74 refill
# 82	12/13 23:02	To 12/14 03:40	4.63	Pwr breaker trip [PS]	2.72 Investigation, Recover, refill
# 83	12/14 06:23	To 12/15 11:19	28.93	unknown BPLD Trip [UKN]	0.85 RF3 HVPS trip, refill
# 85	12/15 12:10	To 12/15 14:25	2.25	site wide power [OTH]	7.90 recovery
# 86	12/15 22:19	To 12/16 00:57	2.63	beam dropout [UKN]	0.66 Dump & refill
# 87	12/16 01:37	To 12/16 04:08	2.52	rf4 HVPS [RF]	0.37
# 88	12/16 04:30	To 12/16 13:57	9.44	unknown BPLD trip [UKN]	0.96 ID gap not opening, injector reac
# 90	12/16 14:54	To 12/18 07:47	40.87	S40 Cav IG Fault [RF]	0.31
# 93	12/18 08:05	To 12/21 00:10	64.07	Dump for P0 Err. [CTL]	0.56 Refill
# 96	12/21 00:43	To 12/21 16:36	15.87	Raw supply trip [PS]	0.95 Standardize, linac tuning, RF3 t
# 97	12/21 17:33	To 12/21 23:59	6.44	Int Dump: End of Period	0.00

Top-Up Mode Statistics

 Target Current = 102.0, Range +/- 1.0, Minimum Injector Downtime = 8.0 minutes

Total

Scheduled Topup Time	136.0 Hours
Injector Availability	90.2%