

Listing of Statistics for Run4-2001 (Created Fri Feb 08 17:03:42 CST 2002)

Total Amount of User Time in this interval 1119.95 Hours

User periods in this interval

10/31/2001 08:00	To	11/06/2001 08:00	143.99	Hours, Delivered Beam: 140.88 Hours, 4 Fault(s), 35.22 MTBF, 9'
11/06/2001 16:00	To	11/12/2001 08:00	136.00	Hours, Delivered Beam: 124.18 Hours, 13 Fault(s), 9.55 MTBF, 9'
11/14/2001 08:00	To	11/21/2001 24:00	183.99	Hours, Delivered Beam: 181.67 Hours, 5 Fault(s), 36.33 MTBF, 9'
11/23/2001 08:00	To	11/26/2001 24:00	87.99	Hours, Delivered Beam: 84.92 Hours, 2 Fault(s), 42.46 MTBF, 9'
11/27/2001 16:00	To	12/03/2001 08:00	135.99	Hours, Delivered Beam: 131.49 Hours, 7 Fault(s), 18.78 MTBF, 9'
12/05/2001 08:00	To	12/11/2001 08:00	144.00	Hours, Delivered Beam: 142.81 Hours, 3 Fault(s), 47.60 MTBF, 9'
12/11/2001 16:00	To	12/18/2001 08:00	159.99	Hours, Delivered Beam: 156.04 Hours, 3 Fault(s), 52.01 MTBF, 9'
12/18/2001 16:00	To	12/23/2001 24:00	127.99	Hours, Delivered Beam: 119.38 Hours, 9 Fault(s), 13.26 MTBF, 9'

Delivered Beam 1081.38 Hours
 Percentage of Scheduled Time 96.56 %
 Downtime During Period 38.58 Hours
 Percentage of scheduled time SR current > 10 ma 97.73 %
 Average Delivered Current During This Period 93.71 ma
 Total integrated Current During This Period 101.34 A-hr

Mean Fill Duration in Period 23.01 Hours
 Mean Fill Duration from Poisson Fit 30.49 Hours
 Mean Time Between Faults (MTBF) 23.51 Hours
 Faults per Day of Delivered Beam 1.02

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			
# 1 10/31 08:03 To 10/31 08:33 0.51	3ID FE EPS trip [BO]	0.05	
# 2 10/31 08:53 To 11/04 09:58 97.08	RF2 modAnode trip [PFS]	0.33 refill	
# 11 11/04 10:27 To 11/04 22:08 11.68	RF2 modAnode trip [PFS]	0.48 Refill	
# 13 11/04 22:26 To 11/05 11:20 12.90	RF2 Cir.Flow trip [ME]	0.31 refill	
# 16 11/05 13:16 To 11/06 07:59 18.72	Int Dump: End of Period	1.94 Investigate, refill	
# 18 11/06 17:48 To 11/06 20:15 2.46	Rad.Mon.trip [OPS]	0.00	1.80 Complete lattice changeover
# 19 11/06 20:42 To 11/07 00:20 3.63	RF2 LLRF loss [PFS]	0.45 Refill	
# 20 11/07 01:11 To 11/07 05:22 4.18	Unknown trip @inj. [UKN]	0.86 Rad.Mon.alarm, refill	
# 21 11/07 05:55 To 11/07 20:40 14.75	Unknown RF trip [PFS]	0.55 RG2 trip, Rad.Mon.alarm,refill	
# 22 11/07 21:05 To 11/08 08:34 11.47	Unknown RF trip [PFS]	0.42 Refill	
# 24 11/08 09:06 To 11/08 18:30 9.39	Unknown BPLD trip [UKN]	0.54 Refill	
# 25 11/08 21:29 To 11/09 12:03 14.56	Unknown BPLD trip [UKN]	2.99 RG2 HVPS Investigation	
# 28 11/09 12:25 To 11/09 13:12 0.79	S5AS3 trip [PS]	0.37 refill	
# 29 11/09 14:53 To 11/10 13:23 22.51	RF2 HVPS trip [PFS]	1.67 RF2 drive fix, refill	
# 30 11/10 13:45 To 11/11 01:06 11.35	RF2 LLRF loss [PFS]	0.36 refill	
# 31 11/11 01:28 To 11/11 03:31 2.05	S21AQ2 glitch [PS]	0.37 refill	
# 32 11/11 03:52 To 11/11 05:57 2.07	S21AQ2 glitch [PS]	0.36 refill	
# 33 11/11 06:22 To 11/11 19:34 13.20	RF2 PM fault [PFS]	0.42 Refill	
# 34 11/11 20:13 To 11/12 07:59 11.77	RF2 modAnode trip [PFS]	0.65 refill	
# 35 11/14 08:03 To 11/14 20:57 12.89	Int Dump: End of Period	0.00	
# 36 11/14 21:34 To 11/15 04:47 7.22	13ID Rad.Mon. trip [HP]	0.06	
# 37 11/15 04:58 To 11/15 10:23 5.41	Unknown BPLD trip [UKN]	0.62 refill	
# 38 11/15 11:04 To 11/19 09:03 93.98	S5B:S3 trip [PS]	0.18 refill	
# 41 11/19 09:26 To 11/20 11:34 26.13	Unknown RF trip [RF]	0.69 refill, RF phase investigation	
# 42 11/20 11:57 To 11/21 23:59 36.04	Int.dump,BPM fault[Diag]	0.39 refill	
# 44 11/23 08:00 To 11/23 11:09 3.15	Int Dump: End of Period	0.38 refill	
# 45 11/23 13:20 To 11/26 13:16 71.94	22ID PSS Trip [ISI]	0.00	
# 46 11/26 14:09 To 11/26 23:59 9.84	Loss of RF source [RF]	2.19 Investigation, recover, refill	
# 51 11/27 16:00 To 11/28 16:18 24.30	Int Dump: End of Period	0.88 Repair, Refill	
# 53 11/28 17:13 To 11/29 05:32 12.31	S38 valve closure [CTL]	0.01	
# 54 11/29 06:09 To 11/29 12:42 6.55	S37 Valve closure [CTL]	0.91 IOCSRMON reboot, refill	
# 55 11/29 13:42 To 11/29 17:12 3.49	14ID Rad Mon. trip [HP]	0.61 15ID BPLD trip, refill	
# 56 11/29 17:58 To 12/01 03:14 33.26	14ID Rad.Mon.trip [HP]	1.01 refill, Orbit correction problem	
# 57 12/01 03:27 To 12/02 01:33 22.10	RF2 mod.Anode trip [RF]	0.77 Repair, refill	
# 58 12/02 01:48 To 12/02 11:55 10.12	RF2 cav.vac trip [RF]	0.23 refill	
# 59 12/02 12:38 To 12/03 07:59 19.36	IK2 lost setpoint [PS]	0.24 refill	
# 67 12/05 08:00 To 12/06 13:55 29.93	Int Dump: End of Period	0.72 IK2 problem, refill	
# 68 12/06 14:16 To 12/06 20:48 6.53	RF4 cir. load flow [ME]	0.00	
	31ID steering err [OAG]	0.34 Repair, refill	
		0.39 refill	

# 69	12/06 21:12	To 12/08 04:41	31.48	S37 Cav.Vac trip [RF]	0.45 Refill
# 70	12/08 05:08	To 12/11 07:59	74.86	Int Dump: End of Period	0.00

# 73	12/11 16:54	To 12/14 15:24	70.50	S36Cav.Hyb.flow Trip[ME]	0.90 31ID EPS trip [ISI], BPLD limits
# 77	12/14 16:09	To 12/17 07:47	63.62	S37 Cav. Vac. trip [RF]	0.76 Refill, 31ID BPLD trip
# 80	12/17 08:46	To 12/17 14:21	5.57	31ID PSS trip [ISI]	0.99 delay in availability of PC gun,
# 82	12/17 15:39	To 12/18 07:59	16.34	Int Dump: End of Period	1.30 Investigate, standardize magnets

# 84	12/18 16:34	To 12/18 17:18	0.74	RF2 disconnect [RF]	0.57 S36 Cav. load flowmtr repair[ME]
# 85	12/18 17:33	To 12/19 08:55	15.38	RF2 disconnect [RF]	0.24 refill
# 87	12/19 09:14	To 12/19 10:47	1.55	RF2 disconnect [RF]	0.32 refill
# 89	12/19 11:22	To 12/20 16:44	29.37	RF PSS trip [RF]	0.57 Investigation, refill
# 92	12/20 17:09	To 12/21 17:43	24.57	33BM EPS trip [ISI]	0.43 refill
# 93	12/21 18:42	To 12/21 19:24	0.71	S38 Cav.Vac [RF]	0.97 33BM PS1 shutter problem
# 94	12/21 19:58	To 12/22 07:45	11.78	Beam loss at inj. [UKN]	0.57 L4 mod, Booster Pulsed mag. prob.
# 95	12/22 08:53	To 12/23 01:01	16.13	S5 Gespac problem [PS]	1.13 E-Gun swap, refill
# 96	12/23 01:59	To 12/23 06:15	4.26	Dump 4 Gespac rep. [OPS]	0.98 34 ID gap, injection difficulty,
# 97	12/23 09:05	To 12/23 23:59	14.90	Int Dump: End of Period	2.84 S4/5 Gespac repair, conditioning

Top-Up Mode Statistics

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

Total

Scheduled Topup Time 680.0 Hours
Injector Availability 91.9 %