

Listing of Statistics for Run1-2002 (Created Wed Jun 04 16:39:20 CDT 2003)

Total Amount of User Time in this interval 1926.95 Hours

User periods in this interval

01/23/2002 08:00	To	01/29/2002 08:00	144.00	Hours, Delivered Beam:	131.93	Hours,	7	Fault(s),	18.85	MTBF,	9:
01/29/2002 16:00	To	02/04/2002 08:00	136.00	Hours, Delivered Beam:	130.20	Hours,	7	Fault(s),	18.60	MTBF,	9:
02/06/2002 08:00	To	02/11/2002 24:00	136.00	Hours, Delivered Beam:	133.86	Hours,	4	Fault(s),	33.47	MTBF,	9:
02/12/2002 16:00	To	02/18/2002 08:00	136.00	Hours, Delivered Beam:	133.60	Hours,	4	Fault(s),	33.40	MTBF,	9:
02/20/2002 08:00	To	02/25/2002 24:00	136.00	Hours, Delivered Beam:	134.18	Hours,	4	Fault(s),	33.54	MTBF,	9:
02/26/2002 16:00	To	03/04/2002 08:00	136.00	Hours, Delivered Beam:	133.61	Hours,	4	Fault(s),	33.40	MTBF,	9:
03/06/2002 08:00	To	03/12/2002 08:00	144.00	Hours, Delivered Beam:	142.90	Hours,	2	Fault(s),	71.45	MTBF,	9:
03/12/2002 16:00	To	03/18/2002 08:00	136.00	Hours, Delivered Beam:	130.66	Hours,	3	Fault(s),	43.55	MTBF,	9:
03/20/2002 08:00	To	03/26/2002 08:00	144.00	Hours, Delivered Beam:	137.78	Hours,	5	Fault(s),	27.56	MTBF,	9:
03/26/2002 16:00	To	04/01/2002 08:01	136.02	Hours, Delivered Beam:	134.13	Hours,	5	Fault(s),	26.83	MTBF,	9:
04/03/2002 08:00	To	04/08/2002 24:00	135.00	Hours, Delivered Beam:	133.86	Hours,	2	Fault(s),	66.93	MTBF,	9:
04/09/2002 16:00	To	04/15/2002 08:00	136.00	Hours, Delivered Beam:	127.52	Hours,	5	Fault(s),	25.50	MTBF,	9:
04/17/2002 08:00	To	04/23/2002 08:00	144.00	Hours, Delivered Beam:	143.49	Hours,	1	Fault(s),	143.49	MTBF,	9:
04/23/2002 16:00	To	04/28/2002 24:00	128.00	Hours, Delivered Beam:	125.64	Hours,	3	Fault(s),	41.88	MTBF,	9:

Delivered Beam 1873.37 Hours
 Percentage of Scheduled Time 97.22 %
 Downtime During Period 53.58 Hours
 Percentage of scheduled time SR current > 10 ma 98.13 %
 Average Delivered Current During This Period 97.27 ma
 Total integrated Current During This Period 182.23 A-hr

Mean Fill Duration in Period 32.87 Hours
 Mean Fill Duration from Poisson Fit 29.55 Hours
 Mean Time Between Faults (MTBF) 33.45 Hours
 Faults per Day of Delivered Beam 0.72
 Scheduled Topup Time 1511.00 Hours

Valid fills Beginning in this Time Interval	Reason for	Length	Downtime is associated with
Fill# Start End Duration (min: 0.5)	Fill Termination	of Downtime	The first fill of a period downtime before the fill
# 2 01/23 08:50 To 01/23 10:18 1.46	34ID BPLD trip [DIAG]	0.84	SR setup error [OAG], S37 cav vac
# 4 01/23 11:12 To 01/25 04:59 41.80	13ID SS repair [BLO]	0.90	Refill, lost again same flt[DIAG]
# 9 01/25 11:45 To 01/25 17:36 5.85	P0 error [CTL]	6.75	MPEOB problem, S14/15 PS trip, refill
# 10 01/25 18:14 To 01/26 05:04 10.84	RTFB ioc reboot [DIA]	0.63	refill
# 11 01/26 06:00 To 01/26 09:19 3.31	RF4 trip [RF]	0.93	refill, RTFB problem
# 12 01/26 10:39 To 01/28 09:09 46.49	RF1 modAnode trip [RF]	1.34	waveguide switch, refill
# 17 01/28 09:30 To 01/29 06:42 21.22	P0 error [CTL]	0.35	refill
# 19 01/29 07:01 To 01/29 07:59 0.97	Int Dump: End of Period	0.31	refill
# 20 01/29 16:00 To 01/29 19:11 3.18	RF4HVPS crowbar [RF]	0.00	
# 21 01/29 19:53 To 01/30 16:25 20.54	RTFB ioc reboot [DIA]	0.01	
# 22 01/30 16:43 To 02/01 19:13 50.49	RF3 power monitor [RF]	0.69	refill
# 23 02/01 19:35 To 02/01 20:17 0.70	RF4 HVPS trip [RF]	0.31	refill
# 26 02/01 22:46 To 02/02 17:38 18.87	RF3 HVPS trip [RF]	0.37	refill
# 27 02/02 17:58 To 02/03 06:22 12.41	S8AQ4 failure [PS]	2.49	Waveguide switch; refill
# 28 02/03 07:44 To 02/03 22:47 15.04	Gate valve closure [CTL]	0.32	refill
# 29 02/03 23:01 To 02/04 07:59 8.98	Int Dump: End of Period	1.36	Converter swap; refill
# 31 02/06 08:00 To 02/08 05:12 45.21	IK2 set/dac diff. [PS]	0.24	refill
# 32 02/08 05:37 To 02/09 08:28 26.84	15ID Rad.Mon. [OTHER]	0.42	Refill
# 33 02/09 09:20 To 02/11 13:35 52.25	Ukn beam motion [UKN]	0.87	Investigate and reset, refill
# 34 02/11 14:13 To 02/11 23:47 9.56	RF3 LLRF [RF]	0.64	ACIS trip investigation, refill
# 35 02/12 16:00 To 02/13 09:22 17.37	Ukn beam motion [UKN]	0.21	end of period
# 36 02/13 10:12 To 02/13 15:19 5.12	33BM EPS trip [BLO]	0.00	
# 37 02/13 16:06 To 02/15 23:40 55.56	5ID Rad.Mon.Trip [OTHER]	0.83	Orbit correction problem [DIAG],
# 38 02/16 00:04 To 02/17 16:29 40.42	P0 timing loss [CTL]	0.78	investigation, refill
# 39 02/17 16:52 To 02/18 07:59 15.13	Int Dump: End of Period	0.40	refill
# 40 02/20 08:00 To 02/22 23:25 63.43	ID5 Rad.Mon. Trip [OTHER]	0.38	refill
# 41 02/22 23:41 To 02/23 09:51 10.16	S37 Cav IG flt [RF]	0.00	
# 42 02/23 10:01 To 02/24 07:52 21.85	35BM EPS flt [BLO]	0.26	refill
# 43 02/24 09:00 To 02/25 12:21 27.34	Fast beam motion [UNK]	0.17	refill
# 44 02/25 12:35 To 02/25 23:59 11.40	Int Dump: End of Period	1.14	Investigation, refill
		0.24	refill
		0.00	
		0.00	

# 45	02/26 16:00	To 02/26 20:25	4.43	13ID BPLD PS fail.[DIAG]	0.61 investigate, refill
# 47	02/26 21:02	To 02/26 22:26	1.39	BPLD repairs [DIAG]	0.56 refill
# 48	02/26 22:59	To 02/27 10:44	11.76	int dump,PAR kicker [PS]	0.21 refill
# 49	02/27 10:57	To 03/03 06:33	91.61	Unknown horz motion[UNK]	1.01 Orbit problems; refill
# 51	03/03 07:34	To 03/04 07:59	24.43	Int Dump: End of Period	0.00

# 52	03/06 08:00	To 03/07 08:17	24.29	S40 cavity vac fault[RF]	0.26 Refill
# 55	03/07 08:32	To 03/10 04:55	68.38	Gate Valve Closure [CTL]	0.83 IOCS13VP reboot problems, refill
# 61	03/10 05:45	To 03/12 07:59	50.23	Int Dump: End of Period	0.00

# 65	03/12 16:37	To 03/13 02:15	9.65	RF2 orphan load trip[RF]	0.62
# 66	03/13 05:30	To 03/14 15:43	34.22	RTFB ioc reboot [CTL]	3.25 Par IK1 repair, refill
# 67	03/14 16:52	To 03/14 20:08	3.27	RF2 circulator arc [RF]	1.14 Investigate, refill
# 68	03/14 20:27	To 03/18 07:59	83.53	Int Dump: End of Period	0.32 refill

# 70	03/20 08:00	To 03/20 20:46	12.77	S37 Cav.Vac.IG flt [RF]	0.00
# 71	03/20 21:08	To 03/21 16:03	18.91	S37Cav.Vac.IG flt [RF]	0.38 refill
# 72	03/21 16:15	To 03/22 02:54	10.66	S37Cav.Vac.IG flt [RF]	0.20 refill
# 74	03/22 03:10	To 03/22 20:01	16.85	S37 Cav.Vac IG flt [RF]	0.26 refill
# 75	03/22 20:32	To 03/24 21:09	48.62	PFN cable P2:IK [PS]	0.52 detune cavity, refill
# 76	03/25 02:02	To 03/26 07:59	29.97	Int Dump: End of Period	4.87 cable replacement

# 77	03/26 16:00	To 03/28 01:02	33.03	Orbit corr.problem [OAG]	0.00
# 78	03/28 01:16	To 03/29 15:42	38.44	S34,35 P.S. trip [PS]	0.24 refill
# 79	03/29 16:37	To 03/30 04:12	11.59	S39 Valve closure [CTL]	0.91 IOC reboot problems, refill
# 80	03/30 04:27	To 03/30 15:33	11.09	S38 vac.valve flt [CTL]	0.25 refill
# 81	03/30 15:51	To 03/30 22:07	6.26	VPioc reboot err [DIAG]	0.30 refill
# 82	03/30 22:18	To 04/01 08:01	33.71	Int Dump: End of Period	0.19 refill

# 87	04/03 08:00	To 04/05 15:32	55.54	Ukn beam motion [UKN]	0.01
# 88	04/05 16:14	To 04/08 15:52	70.65	Ukn beam motion [UKN]	0.69 investigation, refill
# 89	04/08 16:19	To 04/08 23:59	7.67	Int Dump: End of Period	0.44 refill

# 90	04/09 16:02	To 04/10 20:43	28.68	S37Cav.Vac flt [RF]	0.04
# 91	04/10 21:36	To 04/13 18:40	69.07	Rad Mon ID9 [OTHER]	0.89 Refill, lost beam again
# 93	04/13 18:58	To 04/14 07:34	12.61	S22B:H1 converter [PS]	0.29 refill
# 94	04/14 09:27	To 04/14 11:00	1.55	Ukn rad.mon trip [UKN]	1.88 rad monitor trip
# 96	04/14 15:34	To 04/15 07:11	15.61	Ukn beam loss [UKN]	4.58 rad monitor problems, PS problems

# 97	04/17 08:00	To 04/22 14:33	126.55	S12AH1 PS trip [PS]	0.01
#101	04/22 15:02	To 04/23 07:59	16.95	Int Dump: End of Period	0.50 refill, lost again, S22BV2 noise

#102	04/23 16:00	To 04/25 06:29	38.50	RF source glitch [RF]	0.00
#106	04/25 07:22	To 04/27 20:21	60.98	RF4 Klystron arc [RF]	0.87 refill, lost beam again
#113	04/27 21:06	To 04/28 07:52	10.77	BTS BPM problem [DIAG]	0.75 Refill
#114	04/28 08:36	To 04/28 23:59	15.40	Int Dump: End of Period	0.73 refill, lost beam during injecti

Top-Up Mode Statistics

Target Current = 102.0, Range +/- 2.0, Minimum Injector Downtime = 8.0 minutes

Total

Scheduled Topup Time 1504.0 Hours
Injector Availability 95.6 %