

Listing of Statistics for Run2-2003 (Created Tue Sep 30 11:10:37 CDT 2003)

Total Amount of User Time in this interval 1815.93 Hours

User periods in this interval

05/28/2003 08:00	To	06/02/2003 16:00	128.00	Hours, Delivered Beam: 120.59 Hours, 7 Fault(s), 17.23 MT
06/03/2003 08:00	To	06/09/2003 08:00	144.00	Hours, Delivered Beam: 121.11 Hours, 5 Fault(s), 24.22 MT
06/11/2003 08:00	To	06/17/2003 08:00	144.00	Hours, Delivered Beam: 142.34 Hours, 2 Fault(s), 71.17 MT
06/17/2003 16:00	To	06/23/2003 08:00	136.00	Hours, Delivered Beam: 131.85 Hours, 3 Fault(s), 43.95 MT
06/25/2003 08:00	To	07/04/2003 08:00	216.00	Hours, Delivered Beam: 203.74 Hours, 5 Fault(s), 40.75 MT
07/05/2003 08:00	To	07/07/2003 16:00	56.00	Hours, Delivered Beam: 54.06 Hours, 1 Fault(s), 54.06 MT
07/08/2003 08:00	To	07/14/2003 08:00	144.00	Hours, Delivered Beam: 140.93 Hours, 2 Fault(s), 70.46 MT
07/16/2003 08:00	To	07/22/2003 08:00	144.00	Hours, Delivered Beam: 132.29 Hours, 8 Fault(s), 16.54 MT
07/22/2003 16:00	To	07/28/2003 08:00	136.00	Hours, Delivered Beam: 135.73 Hours, 1 Fault(s), 135.73 MT
07/30/2003 08:00	To	08/05/2003 08:00	144.00	Hours, Delivered Beam: 136.18 Hours, 2 Fault(s), 68.09 MT
08/05/2003 16:00	To	08/11/2003 08:00	136.00	Hours, Delivered Beam: 135.84 Hours, 1 Fault(s), 135.84 MT
08/13/2003 08:00	To	08/18/2003 16:00	128.00	Hours, Delivered Beam: 127.14 Hours, 2 Fault(s), 63.57 MT
08/19/2003 08:00	To	08/25/2003 24:00	160.00	Hours, Delivered Beam: 156.68 Hours, 3 Fault(s), 52.23 MT

Delivered Beam 1738.48 Hours
Percentage of Scheduled Time (*) 95.74 %
 Downtime During Period 77.45 Hours
 Percentage of scheduled time SR current > 10 ma 96.50 %
 Average Delivered Current During This Period 100.09 ma
 Total integrated Current During This Period 174.02 A-hr

Mean Fill Duration in Period 40.43 Hours
 Mean Fill Duration from Poisson Fit 47.48 Hours
Mean Time Between Faults (MTBF) 41.39 Hours
 Faults per Day of Delivered Beam 0.58
 Scheduled Topup Time 1384.00 Hours

Valid fills Beginning in this Time Interval	Reason for	Length	Downtime is associa
Fill# Start End Duration (min: 1.0)	Fill Termination	of Downtime	The first fill o downtime before
# 1 05/28 08:00 To 05/28 16:16 8.27	lightning strike [OTHER]	0.00	
# 2 05/28 17:24 To 05/29 23:38 30.24	S39B:Q2 trip [ES]	1.12	booster IS investigation,
# 5 05/30 00:39 To 05/30 11:06 10.46	RF4 trip [RF]	1.02	Convertor swap, magnet con
# 7 05/30 11:45 To 05/30 14:25 2.67	RF2 trip [RF]	0.64	e-gun switch, refill
# 8 05/30 14:56 To 05/31 07:32 16.60	RF2 trip [RF]	0.52	Injector tuning, refill
# 10 05/31 09:32 To 05/31 19:45 10.21	ACIS io trip [ES]	2.00	Reset, magnet conditioning
# 11 05/31 20:17 To 06/01 01:26 5.16	16IDBPLD trip@inj[OTHER]	0.54	refill
# 12 06/01 03:01 To 06/02 15:59 36.98	SI6B:Q3 fault [ES]	1.57	Convertor swap, magnet con
# 12 06/01 03:01 To 06/02 15:59 36.98	Int Dump: End of Period	0.00	
# 15 06/03 08:00 To 06/04 09:55 25.74	RF4 lost power [RF]	0.01	
* Interruption of delivered beam between 06/03 08:00 To 06/03 08:11 Gaps not returned to user values			
# 16 06/04 10:19 To 06/06 21:58 59.64	Rad.Mon. fault [HP]	0.58	Refill
# 17 06/06 22:30 To 06/07 04:34 6.06	Netwk storm [ISS]	0.55	IOC reboot, refill
# 18 06/07 12:02 To 06/07 18:10 6.13	RTFB problem [DIA]	7.47	Recover network, injector
# 19 06/07 18:34 To 06/07 20:32 1.96	RTFB problem [DIA]	0.41	Refill
# 20 06/08 10:24 To 06/09 07:59 21.58	Int Dump: End of Period	13.87	Par IK4 repair[ES],injecto
# 20 06/08 10:24 To 06/09 07:59 21.58	Int Dump: End of Period	0.00	
# 19 06/11 08:00 To 06/11 17:40 9.67		0.00	
# 22 06/11 18:52 To 06/15 12:24 89.55	RF2 PwrMon. trip [RF]	1.20	
# 23 06/15 12:52 To 06/17 07:59 43.13	Int Dump: End of Period	0.46	Reset, Refill
# 23 06/15 12:52 To 06/17 07:59 43.13	Int Dump: End of Period	0.00	
# 24 06/17 16:28 To 06/17 18:43 2.26	Rad.mon. fault [HP]	0.47	Converter swap,conditionin
# 25 06/17 19:05 To 06/18 01:22 6.29	20BM EPS fault [ES]	0.36	Refill
# 26 06/18 04:20 To 06/18 17:57 13.61	RTFB problem [DIA]	2.98	Investigation, repair and
# 27 06/18 18:18 To 06/23 08:00 109.70	Int Dump: End of Period	0.34	Refill
# 27 06/18 18:18 To 06/23 08:00 109.70	Int Dump: End of Period	-0.00	
# 28 06/25 08:28 To 06/25 20:47 12.32	S40BQ1 failure [ES]	0.47	RF4 drive problem
# 29 06/25 21:24 To 06/30 10:49 109.42	S32AV3 glitch [DIA]	0.62	converter swap, conditioni
# 30 06/30 11:08 To 06/30 19:28 8.34	RTFB problem [DIA]	0.31	Refill
# 31 06/30 19:45 To 07/01 15:56 20.20	S32AV3 glitch [DIA]	0.27	Refill
# 32 07/01 16:08 To 07/03 21:36 53.47	Rad.mon. fault [HP]	0.19	Refill
# 32 07/01 16:08 To 07/03 21:36 53.47	Rad.mon. fault [HP]	10.39	Investigation, refill,lost
# 34 07/05 08:00 To 07/05 09:51 1.86	Power bump [OTHER]	0.00	
# 36 07/05 11:48 To 07/07 15:59 52.20	Int Dump: End of Period	1.94	Refill, lost again due to
# 36 07/05 11:48 To 07/07 15:59 52.20	Int Dump: End of Period	0.00	
# 37 07/08 08:00 To 07/08 21:36 13.61	Ukn beam motion [UKN]	0.00	
# 37 07/08 08:00 To 07/08 21:36 13.61	Ukn beam motion [UKN]	2.46	Inj. tuning,convertor swap

# 40	07/09 00:04	To	07/13 11:55	107.85	Rad. mon. fault [HP]	0.61 Refill
# 50	07/13 12:31	To	07/14 07:59	19.47	Int Dump: End of Period	0.00

# 55	07/16 08:00	To	07/16 11:46	3.78	13 BM PSS trip [ES]	0.51 Refill
# 56	07/16 12:17	To	07/17 15:49	27.54	S23AV3/RTFB [DIA]	3.83 Lost again due to pwr bump
# 58	07/17 19:39	To	07/19 02:36	30.95	MPS card failure [CTL]	2.88 Diagnose, Refill
# 59	07/19 05:28	To	07/19 12:24	6.93	S22:23 Raw Supply [ES]	0.54 Reset, Refill
# 60	07/19 12:57	To	07/19 21:23	8.43	Network storm [ISS]	1.00 Diagnose, Refill
# 61	07/19 22:23	To	07/20 20:57	22.56	S17FBIOC reboot [OPS]	0.30 Refill
# 62	07/20 21:14	To	07/21 02:45	5.50	Lightning strike [OTHER]	0.50 Refill
# 63	07/21 03:15	To	07/21 10:27	7.20	MPEOB intlk problem [ES]	2.15 Repair, magnet conditionin
# 64	07/21 12:35	To	07/22 08:00	19.40	Int Dump: End of Period	-0.00

# 65	07/22 16:00	To	07/23 04:47	12.79	RF-4 Pwr.Mon.trip [RF]	0.26 Refill
# 66	07/23 05:03	To	07/28 07:59	122.94	Int Dump: End of Period	0.00

# 67	07/30 08:00	To	08/02 18:39	82.66	RF2 hybrid flow flt [ME]	1.35 Valve solenoid reset, refi
# 68	08/02 20:00	To	08/03 17:52	21.86	RF2 Xformer Flt [OTHER]	6.46 Switched 13.2kv feed & pro
# 69	08/04 00:19	To	08/05 07:59	31.67	Int Dump: End of Period	0.00

# 70	08/05 16:00	To	08/06 06:23	14.38	33ID rad.mon.fault [HP]	0.16 reset - refill
# 71	08/06 06:32	To	08/11 08:00	121.45	Int Dump: End of Period	-0.00

# 72	08/13 08:00	To	08/14 20:32	36.54	IOCS23FB reboot [CTL]	0.54 Reboot, lost again[OAG], r
# 73	08/14 21:05	To	08/15 14:12	17.12	S38 tuner temp flt [RF]	0.31 Reset - Refill
# 74	08/15 14:30	To	08/18 15:59	73.48	Int Dump: End of Period	0.00

# 75	08/19 08:00	To	08/21 07:51	47.86	S38 C1 Temp trip [RF]	1.89 Investigation, lost again,
# 81	08/21 09:45	To	08/21 14:06	4.35	IOC S25FB [OPS/CTL]	0.52 Refill
# 82	08/21 14:37	To	08/21 22:16	7.65	Pwr sag ComEd [other]	0.90 systems recovered - refill
# 84	08/21 23:10	To	08/25 23:59	96.82	Int Dump: End of Period	0.00

Top-Up Mode Statistics

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

Total
 Current in Range during Scheduled Topup Time 77.01 %
 Current in Range during Delivered Beam Time 98.90 %
 Injector Availability 98.77 %