

Listing of Statistics for Run3-2003 (Created Thu Feb 05 22:07:58 CST 2004)

Total Amount of User Time in this interval 1666.0 Hours

User periods in this interval

10/01/2003 08:00	To	10/06/2003 16:00	128.00	Hours, Delivered Beam: 119.43 Hours,	7	Fault(s),	17.06	MTBF,	93.31%	of Sched. Time
10/07/2003 08:00	To	10/13/2003 08:00	144.00	Hours, Delivered Beam: 140.92 Hours,	3	Fault(s),	46.97	MTBF,	97.86%	of Sched. Time
10/15/2003 08:00	To	10/21/2003 08:00	144.00	Hours, Delivered Beam: 142.27 Hours,	2	Fault(s),	71.13	MTBF,	98.80%	of Sched. Time
10/21/2003 16:00	To	10/27/2003 08:00	137.00	Hours, Delivered Beam: 135.12 Hours,	1	Fault(s),	135.12	MTBF,	98.63%	of Sched. Time
10/29/2003 08:00	To	11/03/2003 16:00	128.00	Hours, Delivered Beam: 127.57 Hours,	1	Fault(s),	127.57	MTBF,	99.66%	of Sched. Time
11/04/2003 08:00	To	11/10/2003 09:00	145.00	Hours, Delivered Beam: 128.11 Hours,	4	Fault(s),	32.03	MTBF,	88.35%	of Sched. Time
11/12/2003 08:00	To	11/18/2003 08:00	144.00	Hours, Delivered Beam: 142.24 Hours,	3	Fault(s),	47.41	MTBF,	98.78%	of Sched. Time
11/18/2003 16:00	To	11/25/2003 08:00	160.00	Hours, Delivered Beam: 155.58 Hours,	2	Fault(s),	77.79	MTBF,	97.24%	of Sched. Time
11/25/2003 16:00	To	11/26/2003 24:00	32.00	Hours, Delivered Beam: 31.99 Hours,	0	Fault(s),	31.99	MTBF,	99.98%	of Sched. Time
11/28/2003 08:00	To	12/02/2003 16:00	104.00	Hours, Delivered Beam: 103.56 Hours,	1	Fault(s),	103.56	MTBF,	99.58%	of Sched. Time
12/04/2003 08:00	To	12/09/2003 08:00	120.00	Hours, Delivered Beam: 118.04 Hours,	2	Fault(s),	59.02	MTBF,	98.36%	of Sched. Time
12/09/2003 16:00	To	12/15/2003 16:00	144.00	Hours, Delivered Beam: 141.42 Hours,	3	Fault(s),	47.14	MTBF,	98.21%	of Sched. Time
12/16/2003 08:00	To	12/21/2003 24:00	136.00	Hours, Delivered Beam: 135.99 Hours,	0	Fault(s),	135.99	MTBF,	100.00%	of Sched. Time

Delivered Beam	1622.24	Hours
Percentage of Scheduled Time	97.38	%
Downtime During Period	43.69	Hours
Percentage of scheduled time SR current > 10 ma	98.11	%
Average Delivered Current During This Period	100.70	mA
Total integrated Current During This Period	163.40	A-hr

Mean Fill Duration in Period	54.09	Hours
Mean Fill Duration from Poisson Fit	53.26	Hours
Mean Time Between Faults (MTBF)	55.94	Hours
Faults per Day of Delivered Beam	0.43	
Scheduled Topup Time	1258.00	Hours

Valid fills Beginning in this Time Interval	Reason for	Length	Downtime is associated with the end of a fill.
Fill# Start End Duration (min: 1.0)	Fill Termination	of Downtime	The first fill of a period will have any downtime before the fill on the line above.
# 1 10/01 08:03 To 10/01 11:40 3.61	Operator error .5 [OPS]	0.07	SR Orbit Correction, 4 minutes [DIAG]
# 3 10/01 14:50 To 10/02 17:48 26.96	S23 RTFB IOC error [CTL]	3.18	PS 1.27 DIA.45 OAG.96-Beam loss
# 6 10/02 18:19 To 10/02 22:04 3.75	S9 EPS Trip [SI]	0.52	Beam lost during recovery process - refill performed
# 8 10/02 23:59 To 10/03 15:21 15.38	SR-RF3 Off [Unknown]	1.91	Beam restored, S9 EPS Trip again, fill restored
# 9 10/03 15:40 To 10/04 04:28 12.79	S9 EPS Trip [SI]	0.32	RF restored, beam restored
# 11 10/04 05:34 To 10/05 11:40 30.11	Water pump failure [ME]	1.09	Fault cleared, beam restored
# 14 10/05 12:33 To 10/05 22:03 9.50	S9 EPS Trip [SI]	0.88	Switched to back-up pump, beam restored
# 16 10/05 22:39 To 10/06 15:59 17.34	Int Dump: End of Period	0.61	Trip reset, beam restored
		0.00	
# 18 10/07 08:00 To 10/07 11:38 3.64	S9 EPS Trip [SI]	2.38	Repaired EPS system, refill, top-up ongoing
# 19 10/07 14:01 To 10/08 08:34 18.55	Power bump/ComEd [Other]	0.45	Bump induced SR-RF4 power change, refill, top-up.
# 20 10/08 09:01 To 10/11 08:36 71.59	S16:BH1 Glitch [PS]	0.24	BPLD trip due to beam motion,refill, resume top-up
# 21 10/11 08:51 To 10/13 08:00 47.14	Int Dump: End of Period	-0.00	
		0.00	
# 25 10/15 08:00 To 10/16 00:23 16.38	Vac. Valve Closure [CTL]	0.51	Valve opened, refill, resume top-up
# 26 10/16 00:53 To 10/18 22:53 69.59	IOCS25FB .9 [DIAG]	1.22	refill, beam lost OAG .32 , refill, resume top-up
* Interruption of delivered beam between 10/16 02:25 To 10/16 02:49			Gaps not returned to user values
# 27 10/18 23:42 To 10/21 07:59 56.29	Int Dump: End of Period	0.00	
		0.00	
# 29 10/21 16:00 To 10/23 13:48 45.80	S18/19Raw trip 1.06 [PS]	1.87	Repair, MPS problem .81 [CTL], refill
# 30 10/23 15:40 To 10/27 07:59 89.32	Int Dump: End of Period	0.00	
		0.00	
# 31 10/29 08:00 To 10/31 04:25 44.41	SR valve closure [CTL]	0.43	VM-04-VV01 re-opened, ring filled, resumed top-up
# 32 10/31 04:50 To 11/03 15:59 83.15	Int Dump: End of Period	0.00	
		0.00	
# 33 11/04 08:00 To 11/04 16:23 8.40	PEM Steering Error [OAG]	0.29	Refill, resume top-up
# 34 11/04 16:41 To 11/08 23:55 103.23	SR-RF4 Trip [RF]	0.33	Power monitor trip, reset, refill, resume top-up
# 35 11/09 00:15 To 11/09 01:34 1.32	UPS Fault [IT]	9.73	recovery of systems, refill, resume top-up
# 36 11/09 11:18 To 11/10 00:09 12.85	UPS Fault [IT]	6.53	UPS by-passed, recovery, refill, resume top-up
# 37 11/10 06:41 To 11/10 08:59 2.31	Int Dump: End of Period	0.00	
		0.01	
# 39 11/12 08:00 To 11/12 23:15 15.24	IOCS25FB Hung Task [DIA]	0.40	Beam lost during reboot, refilled SR
# 41 11/12 23:38 To 11/13 22:17 22.64	SR Gate Valve [CTL]	0.40	SR Gate Valve VM:02:VV02 closed, refill
# 44 11/13 22:40 To 11/17 13:09 86.48	22ID EPS trip [SI]	0.96	Recover from EPS trip, refill
# 52 11/17 14:07 To 11/18 07:59 17.88	Int Dump: End of Period	0.00	
		0.00	

# 54	11/18 16:00	To 11/24 06:57	134.95	UPS AC breaker trip [IT]	3.74 Recover,RTFB problem 0.3h [Diag],refill
# 55	11/24 10:41	To 11/24 14:37	3.93	S32/33 Raw PS Trip [ES]	0.68 Reset, conditioning, refill
# 56	11/24 15:18	To 11/25 07:59	16.69	Int Dump: End of Period	0.00

# 57	11/25 16:00	To 11/26 23:59	31.99	Int Dump: End of Period	0.01 0.00

# 58	11/28 08:00	To 11/29 04:04	20.07	SR-RF4 pwr mon trip [RF]	0.00 0.43 Reset RF system, refill, resume top-up
# 59	11/29 04:30	To 12/02 15:59	83.49	Int Dump: End of Period	0.00

# 64	12/04 08:00	To 12/05 12:21	28.35	BPLD Trip [Unknown]	0.00 0.46 Still under investigation, refill, resume top-up
# 65	12/05 12:48	To 12/09 06:30	89.69	S22 supplies trip [PS]	1.50 Recover, refill, user period ends

# 67	12/09 16:00	To 12/09 22:34	6.57	Rad.Mon. fault [UES]	0.01 0.59 Investigation, refill, resume top-up
# 68	12/09 23:09	To 12/11 21:34	46.41	34ID PSS trip [SI]	0.70 Reset, investigate, refill
# 69	12/11 22:16	To 12/13 05:19	31.06	S17BQ4 PS fault [PS]	1.29 Supply swap, refill
# 70	12/13 06:36	To 12/15 15:59	57.38	Int Dump: End of Period	0.00

# 72	12/16 08:00	To 12/21 23:59	135.99	Int Dump: End of Period	0.00 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 95.16 %
Current in Range during Delivered Beam Time 97.72 %
Injector Availability 97.59 %