

Listing of Statistics for Run3-2001 (Created Tue Oct 16 12:04:49 CDT 2001)

Total Amount of User Time in this interval 1232.0 Hours

User periods in this interval

08/01/2001 08:01	To	08/07/2001 07:59	143.98	Hours, Delivered Beam:	133.91	Hours, 9	Fault(s),	14.88	MTBF,	9:
08/07/2001 16:00	To	08/13/2001 08:00	135.99	Hours, Delivered Beam:	129.26	Hours, 5	Fault(s),	25.85	MTBF,	9:
08/15/2001 08:01	To	08/21/2001 08:00	143.98	Hours, Delivered Beam:	137.10	Hours, 8	Fault(s),	17.14	MTBF,	9:
08/21/2001 16:00	To	08/27/2001 07:59	135.99	Hours, Delivered Beam:	127.68	Hours, 15	Fault(s),	8.51	MTBF,	9:
08/29/2001 08:01	To	09/03/2001 07:59	119.98	Hours, Delivered Beam:	109.62	Hours, 6	Fault(s),	18.27	MTBF,	9:
09/04/2001 08:00	To	09/10/2001 08:00	143.99	Hours, Delivered Beam:	136.18	Hours, 3	Fault(s),	45.39	MTBF,	9:
09/12/2001 08:01	To	09/18/2001 08:00	143.98	Hours, Delivered Beam:	142.73	Hours, 2	Fault(s),	71.37	MTBF,	9:
09/18/2001 16:00	To	09/25/2001 08:00	159.99	Hours, Delivered Beam:	158.41	Hours, 4	Fault(s),	39.60	MTBF,	9:
09/25/2001 16:00	To	09/29/2001 24:00	104.00	Hours, Delivered Beam:	101.20	Hours, 4	Fault(s),	25.30	MTBF,	9:

Delivered Beam	1176.20	Hours
Percentage of Scheduled Time	95.50	%
Downtime During Period	55.80	Hours
Percentage of scheduled time SR current > 10 ma	96.38	%
Average Delivered Current During This Period	88.56	ma
Total integrated Current During This Period	104.15	A-hr

Mean Fill Duration in Period	20.63	Hours
Mean Fill Duration from Poisson Fit	23.91	Hours
Mean Time Between Faults (MTBF)	21.00	Hours
Faults per Day of Delivered Beam	1.14	

Valid fills Beginning in this Time Interval	Reason for	Length	Downtime is associated with
Fill# Start End Duration	Fill Termination	of Downtime	The first fill of a period downtime before the fill
# 1 08/01 08:00 To 08/02 08:44 24.73	Tornado warning [OTHER]	0.00	
# 4 08/02 08:56 To 08/03 17:52 32.94	S4A:Q3 trip [PS]	0.20	Beam not lost
# 7 08/03 18:15 To 08/04 07:45 13.49	IOCS1VP reboot [CTL]	0.39	refill
# 8 08/04 08:10 To 08/04 19:40 11.50	MPS trip on flow [ME]	0.43	refill
# 9 08/04 20:52 To 08/05 07:39 10.78	P0 timing error [CTL]	1.20	Replaced love controller, refill
# 10 08/05 08:25 To 08/05 15:58 7.55	RF2 HVPS fault [RF]	0.76	P0 timing problems
# 11 08/05 19:58 To 08/06 13:00 17.04	S15BQ1 trip on OI [PS]	4.01	3ID gap repair, IOCRF5HVPS probl
# 13 08/06 14:48 To 08/06 21:39 6.84	P0 timing error [CTL]	1.80	converter swap, problems with R
# 15 08/06 22:01 To 08/06 23:05 1.08	P0 timing error [CTL]	0.36	problem cleared, refill
# 16 08/07 00:00 To 08/07 07:59 7.97	Int Dump: End of Period	0.92	recovery, refill
# 17 08/07 16:03 To 08/07 20:52 4.81	RF2 HVPS trip [RF]	0.00	
# 19 08/07 21:09 To 08/08 04:40 7.51	S40 cavity vacuum [VAC]	0.29	refill
# 20 08/08 05:01 To 08/08 07:44 2.73	S32A:Q1 PS fault [PS]	0.35	refill
# 22 08/08 12:58 To 08/11 07:46 66.80	Reboot iocsrmon [CTL]	5.23	cavity vac, PAR RF, PSS trip, 4A
# 28 08/11 08:05 To 08/11 17:30 9.41	S40 Cavity Vacuum [VAC]	0.33	refill
# 29 08/11 17:59 To 08/13 07:59 37.99	Int Dump: End of Period	0.49	refill
# 32 08/15 08:00 To 08/15 15:34 7.56	6ID EPS trip [ISI]	0.00	
# 33 08/15 16:46 To 08/16 18:43 25.95	S32B:Q5 setpt to 0 [PS]	1.20	Investigate, UPS swap, refill
# 35 08/16 19:17 To 08/17 08:43 13.43	S32B:Q5 setpt to 0 [PS]	0.57	Refill
# 37 08/17 09:06 To 08/17 19:44 10.63	Int. dump,PS repair [PS]	0.39	Refill
# 38 08/17 20:28 To 08/19 14:56 42.47	S27BQ4 trip [PS]	0.73	Repair, standardize, refill
# 42 08/19 15:36 To 08/19 18:07 2.52	S27BQ4 trip [PS]	0.66	Standardize,Refill
# 43 08/19 18:34 To 08/19 19:06 0.55	S27BQ4 trip [PS]	0.44	Standardize, refill
# 44 08/19 20:21 To 08/20 00:21 4.00	S27BQ4 trip [PS]	1.24	convertor swap, standardize, ref:
# 45 08/20 02:00 To 08/21 07:59 29.99	Int Dump: End of Period	1.65	convertor swap, standardize, ref:
# 48 08/21 16:00 To 08/21 19:01 3.02	RF4 HVPS trip [RF]	0.00	
# 49 08/21 19:30 To 08/21 23:08 3.63	S39BQ2 IGBT/Cap OT [PS]	0.49	refill
# 50 08/21 23:28 To 08/22 00:34 1.09	S39BQ2 IGBT/Cap OT [PS]	0.33	refill
# 51 08/22 00:54 To 08/22 04:09 3.26	S39BQ2 IGBT/Cap OT [PS]	1.01	convertor swap, refill
# 52 08/22 05:10 To 08/22 05:54 0.73	S39BQ2 Mag OT trip [PS]	1.23	trip again, convertor swap, refi
# 54 08/22 07:07 To 08/22 11:08 4.01	S40 Cav. Vac trip [VAC]	0.23	refill
# 55 08/22 11:22 To 08/22 20:56 9.57	4ID EPS trip [ISI]	0.65	reset EPS, refill
# 57 08/22 21:35 To 08/23 19:45 22.17	Rad.mon.trip 3ID [OPS]	0.32	refill
# 59 08/23 20:05 To 08/23 20:42 0.62	S40 Cavity Vac [VAC]	0.41	refill
# 60 08/23 21:06 To 08/24 07:45 10.64	iocsrmon reboot [CTL]	0.34	refill
# 61 08/24 08:05 To 08/24 12:32 4.44	22ID PSS trip [ISI]	1.36	investigate, PS swap, ID gap clos
# 62 08/24 13:53 To 08/26 11:03 45.16	S40 Cav. Arc [RF]	0.31	refill
# 67 08/26 11:21 To 08/26 13:36 2.25	ID9 Rad.Mon trip [OTHER]	0.27	refill
# 68 08/26 13:53 To 08/26 15:53 2.01	S40 Cav. Arc [RF]	0.28	refill
# 69 08/26 16:10 To 08/26 19:27 3.28	22ID PSS Trip [ISI]	0.74	recovery, refill
# 70 08/26 20:12 To 08/27 07:59 11.79	Int Dump: End of Period	0.00	

# 72	08/29 08:00	To 08/30 05:08	21.13	RF2 HVPS trip [RF]	0.01
# 74	08/30 07:51	To 08/31 02:50	18.98	RF4 Coax relay trip [RF]	2.71 investigation, waveguide switch, 0.41 Refill
# 76	08/31 03:15	To 08/31 07:07	3.87	Unknown beam trip [UKN]	2.77 Rad. mon. and RF3/RF4 investigat:
# 77	08/31 09:53	To 08/31 19:48	9.92	RF trip [RF]	0.28 Refill
# 78	08/31 20:05	To 09/02 14:55	42.83	S8BH2 fault [PS]	0.40 refill
# 82	09/02 15:19	To 09/02 19:46	4.46	S8/9 Quad problem [PS]	3.77 PS swap, IOC reboot, refill
# 83	09/02 23:33	To 09/03 07:59	8.44	Int Dump: End of Period	0.00
# 84	09/04 08:21	To 09/04 11:03	2.70	RF4 relay trip [RF]	0.36 S8AQ5 repair, S8AH4 water leak r 0.53 Investigation, refill
# 85	09/04 11:35	To 09/08 01:16	85.67	S19 flag problem [Diag]	3.75 Repair, refill
# 93	09/08 05:01	To 09/08 14:38	9.62	19ID EPS trip [ISI]	3.18 Repair, refill
# 94	09/08 17:49	To 09/10 07:59	38.18	Int Dump: End of Period	0.00
# 97	09/12 08:00	To 09/14 13:58	53.96	RF3 trip [RF]	0.00 0.76 Convertor swapping, refill
# 98	09/14 14:43	To 09/16 12:12	45.47	6ID Rad.Mon trip [OTHER]	0.49 Refill
# 99	09/16 12:42	To 09/18 07:59	43.29	Int Dump: End of Period	0.00
#100	09/18 16:00	To 09/19 10:53	18.88	S6 water pump off [ME]	0.00 0.34 refill
#101	09/19 11:13	To 09/20 17:44	30.51	Rad.mon.RM08 trip[Other]	0.47 refill
#102	09/20 18:12	To 09/21 05:45	11.54	Ukn Rad.mon. trip [UKN]	0.49 refill
#103	09/21 06:14	To 09/24 18:59	84.75	Unknown BPLD trip [UKN]	0.28 refill
#104	09/24 19:15	To 09/25 07:59	12.73	Int Dump: End of Period	0.00
#105	09/25 16:00	To 09/26 07:54	15.90	RF2 AnodeOV trip [RF]	0.00 0.33 refill
#106	09/26 08:14	To 09/26 14:26	6.20	RF2 AnodeOI trip [RF]	1.17 refill, subsequent EPS trip and :
#108	09/26 15:36	To 09/26 23:58	8.37	RF2 anodeOI trip [RF]	0.38 refill
#109	09/27 00:21	To 09/28 03:37	27.27	RF2 HHVPS trip [RF]	0.91
#110	09/28 04:31	To 09/29 23:59	43.47	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	264.0 Hours
Injector Availability	98.5 %