

Listing of Statistics for Run1-2001

Total Amount of User Time in this interval 1528.10 Hours

User periods in this interval

01/17/2001 08:01	To	01/23/2001 08:01	144.00	Hours, Delivered Beam:	138.05	Hours, 11	Fault(s),	12.55	MTBF,	9!
01/23/2001 16:00	To	01/29/2001 08:01	136.00	Hours, Delivered Beam:	122.27	Hours, 8	Fault(s),	15.28	MTBF,	8!
01/31/2001 08:01	To	02/06/2001 08:10	144.16	Hours, Delivered Beam:	141.47	Hours, 5	Fault(s),	28.29	MTBF,	9!
02/06/2001 16:01	To	02/12/2001 07:59	135.98	Hours, Delivered Beam:	135.26	Hours, 1	Fault(s),	135.26	MTBF,	9!
02/14/2001 08:00	To	02/20/2001 08:01	144.01	Hours, Delivered Beam:	140.99	Hours, 2	Fault(s),	70.49	MTBF,	9!
02/20/2001 16:00	To	02/26/2001 08:00	135.99	Hours, Delivered Beam:	134.20	Hours, 3	Fault(s),	44.73	MTBF,	9!
02/28/2001 08:01	To	03/06/2001 08:00	143.98	Hours, Delivered Beam:	137.94	Hours, 7	Fault(s),	19.71	MTBF,	9!
03/06/2001 16:00	To	03/12/2001 08:00	135.99	Hours, Delivered Beam:	134.44	Hours, 4	Fault(s),	33.61	MTBF,	9!
03/14/2001 08:00	To	03/20/2001 07:59	143.98	Hours, Delivered Beam:	135.32	Hours, 4	Fault(s),	33.83	MTBF,	9!
03/20/2001 16:00	To	03/27/2001 08:00	159.99	Hours, Delivered Beam:	152.64	Hours, 5	Fault(s),	30.53	MTBF,	9!
03/27/2001 16:00	To	03/31/2001 23:59	103.99	Hours, Delivered Beam:	102.59	Hours, 2	Fault(s),	51.30	MTBF,	9!

Delivered Beam 1475.18 Hours
 Percentage of Scheduled Time 96.54 %
 Downtime During Period 52.89 Hours
 Percentage of scheduled time SR current > 10 ma 97.35 %
 Average Delivered Current During This Period 84.64 ma
 Total integrated Current During This Period 124.86 A-hr

Mean Fill Duration in Period 27.83 Hours
 Mean Fill Duration from Poisson Fit 30.50 Hours
 Mean Time Between Faults (MTBF) 28.37 Hours
 Faults per Day of Delivered Beam 0.85

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	01/17 08:00 To 01/17 08:38	0.64	PS communication [DIA]	0.00
# 2	01/17 08:57 To 01/17 19:59	11.04	top-up monitor [DIA]	0.31 refill
# 3	01/17 20:05 To 01/18 06:02	9.94	rf2 s37 cav2 IG flt [RF]	0.10
# 4	01/18 06:33 To 01/18 09:18	2.77	beam motion RTFB [DIA]	0.52 refill
# 5	01/18 09:47 To 01/18 19:44	9.96	Dump for P0 Error [CTL]	0.47 refill, ID04 gap problem
# 6	01/18 21:41 To 01/19 14:13	16.54	S5BQ3 trip [PS]	1.94 S37Cavity IG faults, refill
# 8	01/19 14:47 To 01/20 07:48	17.01	rf4 s40 IG flt [RF]	0.55 Refill
# 10	01/20 08:05 To 01/21 01:51	17.77	S24,25 Raw Trans OT [PS]	0.29 refill
# 12	01/21 02:13 To 01/22 01:49	23.60	S24,25 Raw Trans OT [PS]	0.36 recover, refill
# 15	01/22 02:21 To 01/22 19:56	17.58	rad.mon. trip [OPS]	0.53 recovery, refill
# 17	01/22 20:26 To 01/22 23:40	3.23	Vac. Valve close [CTL]	0.51 refill
# 18	01/23 00:02 To 01/23 08:00	7.97	Int Dump: End of Period	0.36 refill
# 21	01/23 18:46 To 01/25 07:44	36.97	BPLD repairs [DIA]	0.00
# 24	01/25 10:33 To 01/26 19:53	33.33	S40 IG fault [RF]	2.77 6ID BPLD fault, PSS trip, recover
# 28	01/26 20:09 To 01/27 06:21	10.20	S27B:Q5 trip [PS]	2.83 BPLD repairs, rf PSS trip,rf turn
# 29	01/27 07:22 To 01/27 22:53	15.52	33BM EPS trip [BO]	0.26 refill
# 30	01/27 23:22 To 01/28 00:29	1.12	33BM EPS trip [BO]	1.02 recurring problems with S27B:Q5
# 31	01/28 00:53 To 01/28 03:16	2.38	33BM EPS trip [BO]	0.49 reset, recovery
# 32	01/28 04:08 To 01/28 13:34	9.44	33BM EPS trip [BO]	0.40 reset, recovery
# 33	01/28 16:03 To 01/28 22:08	6.09	S37 IG fault [RF]	0.87 reset, adjust water flow, refill
# 34	01/29 00:45 To 01/29 07:59	7.24	Int Dump: End of Period	2.47 replacement of flow transducer,
# 35	01/31 08:00 To 01/31 09:44	1.74	1ID Vac Outgas [BO]	2.62 vacuum problems, hot coupler in c
# 36	01/31 10:49 To 01/31 20:21	9.54	SRRF 4 trip [RF]	0.01
# 38	01/31 20:44 To 01/31 21:53	1.15	unknown beam loss [UNK]	
# 39	01/31 22:11 To 02/05 11:12	109.00	rf3 trip ??? [RF]	
# 49	02/05 11:34 To 02/05 19:35	8.01	Gate Valve Closing [CTL]	
# 50	02/05 20:09 To 02/06 08:10	12.02	Int Dump: End of Period	
# 51	02/06 16:03 To 02/09 19:49	75.78	S40 cav 1 IG fault [RF]	0.04
# 59	02/09 20:30 To 02/12 07:59	59.48	Int Dump: End of Period	0.68 rf3 trip while resetting
# 65	02/14 08:57 To 02/14 13:55	4.96	13ID BPLD trip [UNK]	0.00
# 66	02/14 14:23 To 02/19 14:38	120.25	ACIS rack trip [CTL]	0.95 1ID EPS trip, investigation, ref
# 77	02/19 16:13 To 02/20 07:59	15.78	Int Dump: End of Period	0.47 refill
# 78	02/20 16:00 To 02/21 01:15	9.26	Lost IOC comm. [CTL]	1.58 Investigate, RF cavity IG fault,
# 80	02/21 01:40 To 02/24 08:29	78.81	RF4 IG fault [RF]	0.01
# 88	02/24 08:55 To 02/24 19:48	10.88	S32B:Q2 curr loss [PS]	

# 90	02/24 20:44	To 02/26 07:59	35.26	Int Dump: End of Period	0.00

# 93	02/28 08:00	To 03/01 07:48	23.79	P0 timing fault [CTL]	0.68 Low Inj. efficiency, Refill
# 95	03/01 08:28	To 03/02 00:24	15.92	S21A:Q2 lost st pnt [PS]	0.78 rf4 trip on IG fault, 34ID gap s:
# 97	03/02 01:10	To 03/02 19:44	18.56	P0 timing fault [CTL]	0.31 refill
# 99	03/02 20:02	To 03/03 07:47	11.75	S40 cav1 IG fault [RF]	0.33 refill
#100	03/03 08:07	To 03/03 17:41	9.57	iocrf4hvps reboot [RF]	1.90 problems restoring rf operation
#101	03/03 19:35	To 03/04 17:28	21.89	S25A:Q3 failure [PS]	1.45 replacement of converter
#103	03/04 18:56	To 03/05 09:50	14.90	srrf PSS trip [RF]	0.59 recovery, refill
#105	03/05 10:25	To 03/06 07:59	21.56	Int Dump: End of Period	0.00

#107	03/06 16:00	To 03/06 21:41	5.68	RTFB trip, S13 DSP [CTL]	0.63 Refill
#109	03/06 22:19	To 03/09 19:35	69.27	iocrf4hvps reboot [RF]	0.28 refill
#115	03/09 19:52	To 03/11 01:50	29.97	iocsrmon reboot [CTL]	0.37 refill
#118	03/11 02:12	To 03/11 19:44	17.53	P0 timing fault [CTL]	0.26 refill
#120	03/11 20:00	To 03/12 07:59	11.98	Int Dump: End of Period	0.00

#121	03/14 08:00	To 03/15 10:11	26.18	RF PSS flt at circ 1[RF]	0.46 reset of 420 area rf systems, rei
#122	03/15 10:39	To 03/17 17:25	54.78	RF4 HVPS Trip [RF]	0.40 refill
#123	03/17 17:49	To 03/18 17:00	23.18	RF4 ioc problem [RF]	3.25 power supply converter swaps
#124	03/18 20:15	To 03/20 03:26	31.18	rf4 ioc problem [RF]	4.56 troubleshoot rf4 problem, booste:

#125	03/20 16:08	To 03/21 02:07	9.98	S19A:Q2 trip [PS]	0.14 SCDU triggers left disabled
#126	03/21 03:48	To 03/21 06:04	2.26	iocs33vp reboot [CTL]	1.69 power supply converter swap, ref:
#127	03/21 07:03	To 03/22 17:58	34.92	S28A:Q5 failed [PS]	0.99 problems restoring communication:
#129	03/22 19:06	To 03/23 06:25	11.31	rf3 klyst air flow [RF]	1.13 converter swap, refill
#130	03/23 07:20	To 03/27 05:30	94.18	grnd I, 35BMT [ME]	0.91 reset trip limit, refill

#131	03/27 16:03	To 03/28 03:16	11.22	VM-06-VV02 closed [CTL]	2.48 diagnosis, investigation
#132	03/28 04:02	To 03/29 00:43	20.67	BPLD trip/flt? [DIA]	0.06 recovery from ground fault inves
#133	03/29 01:17	To 03/31 23:59	70.70	Int Dump: End of Period	0.76 recovery

Top-Up Mode Statistics

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

Total
Scheduled Topup Time 304.0 Hours
Injector Availability 97.8%