

Listing of Statistics for Run3-2002 (Created Tue May 27 09:50:45 CDT 2003)

Total Amount of User Time in this interval 1448.95 Hours

User periods in this interval

10/09/2002 08:00	To	10/14/2002 16:00	128.00	Hours, Delivered Beam:	125.78	Hours,	3	Fault(s),	41.93	MTBF,	98
10/15/2002 08:00	To	10/21/2002 08:00	144.00	Hours, Delivered Beam:	143.15	Hours,	1	Fault(s),	143.15	MTBF,	98
10/23/2002 08:00	To	10/29/2002 08:00	145.00	Hours, Delivered Beam:	141.89	Hours,	5	Fault(s),	28.38	MTBF,	97
10/29/2002 16:00	To	11/04/2002 08:00	136.00	Hours, Delivered Beam:	134.26	Hours,	4	Fault(s),	33.57	MTBF,	98
11/06/2002 08:00	To	11/11/2002 16:00	128.00	Hours, Delivered Beam:	127.58	Hours,	1	Fault(s),	127.58	MTBF,	98
11/12/2002 08:00	To	11/18/2002 08:00	144.00	Hours, Delivered Beam:	141.71	Hours,	1	Fault(s),	141.71	MTBF,	98
11/20/2002 08:00	To	11/27/2002 24:00	184.00	Hours, Delivered Beam:	181.79	Hours,	3	Fault(s),	60.60	MTBF,	98
11/29/2002 08:00	To	12/03/2002 08:00	96.00	Hours, Delivered Beam:	94.92	Hours,	1	Fault(s),	94.92	MTBF,	98
12/03/2002 16:00	To	12/09/2002 08:00	136.00	Hours, Delivered Beam:	135.99	Hours,	0	Fault(s),	135.99	MTBF,	100
12/11/2002 08:00	To	12/19/2002 24:00	208.00	Hours, Delivered Beam:	207.51	Hours,	1	Fault(s),	207.51	MTBF,	98

Delivered Beam 1434.59 Hours
 Percentage of Scheduled Time 99.01 %
 Downtime During Period 14.36 Hours
 Percentage of scheduled time SR current > 10 ma 99.34 %
 Average Delivered Current During This Period 94.94 ma
 Total integrated Current During This Period 136.20 A-hr

Mean Fill Duration in Period 68.31 Hours
 Mean Fill Duration from Poisson Fit 88.83 Hours
 Mean Time Between Faults (MTBF) 71.73 Hours
 Faults per Day of Delivered Beam 0.33

Valid fills Beginning in this Time Interval	Reason for	Length	Downtime is associated with
Fill# Start End Duration (min: 1.0)	Fill Termination	of Downtime	The first fill of a period downtime before the fill
# 1 10/09 08:00 To 10/09 09:44 1.73	turning off Pinger [OPS]	0.00	
# 2 10/09 09:58 To 10/10 06:49 20.85	S34 BPLD trip [DIAG]	0.25 refill	
# 4 10/10 07:06 To 10/14 14:18 103.20	S31AV2 problem [DIAG]	0.27 refill	
		1.70 Beam loss again [OPS], refill	
# 15 10/15 08:00 To 10/18 10:40 74.67	Beam instability [OAG]	0.00	
# 17 10/18 11:30 To 10/21 07:59 68.48	Int Dump: End of Period	0.84 Lost again, refill	
		0.00	
# 19 10/23 08:22 To 10/24 08:01 23.65	Vac Valve close [CTL]	0.37 Lost beam due to instability [OAG]	
# 20 10/24 08:59 To 10/26 17:48 56.82	Corrector19BH1 trip [PS]	0.97 BTS problem [OAG], refill	
# 21 10/26 18:00 To 10/27 10:22 17.37	Corrector19BH1 trip [PS]	0.21 Refill	
# 22 10/27 10:30 To 10/27 23:52 13.37	S13A:Q5 trip [PS]	0.14 Refill	
# 23 10/28 00:48 To 10/28 16:17 15.49	RF2 crowbar trip [RF]	0.93 Converter swap, refill	
# 24 10/28 16:47 To 10/29 07:59 15.20	Int Dump: End of Period	0.49 Refill	
		0.00	
# 25 10/29 16:00 To 10/31 04:29 36.49	iocs21fb lost comm. [CTL]	0.01	
# 26 10/31 04:41 To 10/31 08:50 4.15	Raw supply trip [PS]	0.20 Refill	
# 27 10/31 09:11 To 11/03 13:39 76.47	S20B:MT lost DAC [PS]	0.35 Refill	
# 28 11/03 14:30 To 11/03 16:37 2.12	Earth quake in AK [OTHER]	0.85 Troubleshooting S20B:MT	
# 29 11/03 16:57 To 11/04 07:59 15.04	Int Dump: End of Period	0.34 Refill	
		0.00	
# 30 11/06 08:00 To 11/11 13:02 125.03	24BV1 failure [PS]	0.41 refill	
# 32 11/11 13:27 To 11/11 15:59 2.55	Int Dump: End of Period	0.00	
		0.00	
# 33 11/12 08:00 To 11/13 07:46 23.76	Rad.Mon.trip @inj. [OPS]	2.29 RG-2 kicker problem [PS], refill	
# 35 11/13 10:03 To 11/18 07:59 117.95	Int Dump: End of Period	0.00	
		0.01	
# 45 11/20 08:00 To 11/21 09:59 25.98	IK3 Dac error [OTHER]	0.30 Refill [PS]	
# 46 11/21 10:17 To 11/22 09:44 23.46	2ID PSS trip [ES]	0.99 2 more beam losses after inj. [UKI]	
# 48 11/22 10:44 To 11/23 11:01 24.29	S39A:Q4 trip [PS]	0.91 Converter swap, refill	
# 49 11/23 11:56 To 11/27 23:59 108.06	Int Dump: End of Period	0.00	
		0.00	
# 50 11/29 08:00 To 11/30 16:14 32.23	RF2 HVPS trip [RF]	1.07 Trip again, refill	
# 51 11/30 17:18 To 12/03 07:59 62.69	Int Dump: End of Period	0.00	
		0.00	
# 52 12/03 16:00 To 12/09 07:59 135.99	Int Dump: End of Period	0.00	
		0.15 Beam loss due to closing RTFB lo	

55 12/11 08:08 To 12/18 14:04 173.93 | Power supply [PS] | 0.34 Refill
70 12/18 14:25 To 12/19 23:59 33.58 | 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

Scheduled Topup Time	969.0 Hours
Injector Availability	99.3%