

Listing of Statistics for Run2-1998

Total Amount of User Time in this interval 714.47 Hours

User periods in this interval

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03/09/1998 16:00 To 03/16/1998 08:03 160.04 Hours
03/17/1998 11:20 To 03/23/1998 07:59 140.66 Hours
03/24/1998 16:00 To 03/30/1998 08:01 136.01 Hours
03/31/1998 08:00 To 04/06/1998 08:00 143.00 Hours
04/07/1998 09:23 To 04/13/1998 00:08 134.75 Hours
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Delivered Beam                656.44 Hours
Percentage of Scheduled Time   91.88 %
Downtime During Period         58.03 Hours
Percentage of scheduled time SR current > 10 ma 95.63 %
Average Delivered Current During This Period 76.60 ma
Total integrated Current During This Period 50.28 A-hr
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Data from an on going fill (if one exists) is not used in Fill length calculations.

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Mean Fill Duration in Period      23.44 Hours
Mean Fill Duration from Poisson Fit 33.79 Hours
Mean Time Between Faults (MTBF)   24.31 Hours
Faults per Day of Delivered Beam   0.99
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Valid fills Beginning in this Time Interval	Reason for	Length	Downtime is associated with the end of a fill.
Fill# Start End Duration	Fill Termination	of Downtime	The first fill of a period will have any downtime before the fill on the line above.
# 1 03/09 17:14 To 03/10 08:00 14.77	Int Refill: Low Current	1.22	Replace kicker chamber, Power Line bumps from storm
# 2 03/10 09:07 To 03/10 09:50 0.72	rf trip hybrid ld [H2O]	1.11	Booster problems
# 3 03/10 10:26 To 03/11 01:37 15.19	Absorber flow trip [XFD]	0.60	recovery
# 4 03/11 02:27 To 03/11 02:33 0.09	Absorber flow trip [XFD]	0.83	recovery
# 5 03/11 08:29 To 03/11 08:39 0.17	BPLD trip at ID1 [DIA]	5.94	Repair of flow problem, rf5, injection problems
# 6 03/11 11:35 To 03/12 08:03 20.46	Int Refill: Low Current	2.94	repair, recovery
# 7 03/12 08:48 To 03/12 12:27 3.64	PS trip on flow [H2O]	0.76	orbit control
# 8 03/12 13:25 To 03/13 07:45 18.32	Int Refill: Low Current	0.98	recovery
# 9 03/13 10:36 To 03/13 11:28 0.87	rf2 kly mag trip [RF]	2.86	replace four PS converters
# 10 03/13 12:09 To 03/13 13:23 1.23	rf2 kly mag trip [RF]	0.68	recovery
# 11 03/13 14:19 To 03/13 14:53 0.56	rf#3 trip,flow [RF]	0.94	switch rf2 to rf3
# 12 03/13 17:02 To 03/14 07:44 14.70	Int Refill: Low Current	2.16	investigation, recovery
# 13 03/14 08:02 To 03/15 01:12 17.15	S7B:Q5 trip/flow [H2O]	0.31	.....
# 14 03/15 01:45 To 03/15 02:01 0.28	S7B:Q5 trip/flow [H2O]	0.55	recovery
# 15 03/15 03:58 To 03/15 04:43 0.75	rf3 trip [RF]	1.95	repair, recovery
# 16 03/15 05:08 To 03/15 06:56 1.80	rf3 trip [RF]	0.41	recovery
# 17 03/15 07:19 To 03/15 08:17 0.97	rf3 trip [RF]	0.38	recovery
# 18 03/15 09:45 To 03/16 08:00 22.25	Int Dump: End of Period	1.46	switch to rf2
		0.05	.....
		0.00	

# 20	03/17 11:20	To 03/18 07:45	20.42	Int Refill: Low Current	0.48	.....
# 21	03/18 08:14	To 03/18 11:50	3.61	UnknownBeamMotion [OTH]	0.82	recovery, orbit smoothing
# 22	03/18 12:39	To 03/18 16:56	4.28	S36A:Q1 OI [PS]	1.54	Converter replacement
# 23	03/18 18:28	To 03/19 00:23	5.91	S34A:V2 [PS]	0.50	.....
# 24	03/19 00:53	To 03/19 07:45	6.86	Int Refill: Low Current	0.34	.....
# 25	03/19 08:05	To 03/19 09:54	1.82	15ID Gap closed [XFD]	0.78	recovery
# 26	03/19 10:41	To 03/20 05:47	19.10	Beam loss [OTH]	0.41	.....
# 27	03/20 06:12	To 03/20 15:59	9.80	S5A:S4 replacement [PS]	0.93	.....
# 28	03/20 16:55	To 03/20 17:45	0.82	5ID vacuum problem [XFD]	0.68	.....
# 29	03/20 18:25	To 03/21 07:52	13.45	Int Refill: Low Current	0.47	.....
# 30	03/21 08:21	To 03/22 07:44	23.39	Int Refill: Low Current	0.79	.....
# 31	03/22 08:31	To 03/23 07:59	23.47	Int Dump: End of Period	0.00	.....

# 34	03/24 16:44	To 03/25 08:19	15.57	Int Refill: Low Current	0.73	orbit smoothing
# 35	03/25 08:43	To 03/26 07:46	23.04	Int Refill: Low Current	0.41	.....
# 36	03/26 08:22	To 03/26 18:53	10.52	S34A:V2:PS trip [PS]	0.60	beam lost while refilling
# 37	03/26 19:17	To 03/27 07:47	12.50	Int Refill: Low Current	0.39	.....
# 38	03/27 09:32	To 03/28 05:23	19.85	EPS trip [XFD]	1.77	rf communication problems
# 39	03/28 06:08	To 03/28 23:06	16.95	Beam Motion [PS]	0.75	recovery
# 40	03/28 23:42	To 03/29 07:47	8.08	Int Refill: Low Current	0.61	recovery
# 41	03/29 08:16	To 03/30 08:01	23.74	Int Dump: End of Period	0.49	.....

# 42	03/31 08:04	To 03/31 09:53	1.81	Int Dump: End of Period	0.06	
# 43	03/31 11:48	To 04/01 07:45	19.95	Int Refill: Low Current	1.92	communication problems, rf problem, EPS problem
# 44	04/01 08:04	To 04/01 23:46	15.71	BPLD trip [PS]	0.31	.....
# 45	04/02 00:40	To 04/02 07:44	7.07	Int Refill: Low Current	0.90	rf2 Booster extraction septum
# 46	04/02 08:01	To 04/02 14:43	6.70	S30:AQ3 [PS]	0.28	.....
# 47	04/02 16:17	To 04/02 16:59	0.70	S30:AQ3 DAC card [PS]	1.57	converter swap
# 48	04/02 20:59	To 04/03 07:45	10.77	Int Refill: Low Current	4.00	replacement of card, problems tuning linac
# 49	04/03 08:07	To 04/04 07:44	23.63	Int Refill: Low Current	0.37	.....
# 50	04/04 08:13	To 04/05 07:45	22.52	Int Refill: Low Current	0.48	.....
# 51	04/05 08:20	To 04/06 07:58	23.65	Int Dump: End of Period	0.58	.....

# 59	04/07 09:25	To 04/07 11:28	2.06	Int Dump: End of Period	0.02	
# 60	04/07 12:40	To 04/07 18:35	5.92	rf2 trip - storm [RF]	1.20	rf problems
# 61	04/07 19:01	To 04/08 07:48	12.79	Int Refill: Low Current	0.44	.....
# 62	04/08 09:44	To 04/08 19:44	10.00	Int Refill: Low Current	1.93	power supply work
# 63	04/08 20:16	To 04/09 07:45	11.48	Int Refill: Low Current	0.54	.....
# 64	04/09 08:12	To 04/09 19:45	11.54	Int Refill: Low Current	0.45	.....
# 65	04/09 20:21	To 04/10 07:44	11.39	Int Refill: Low Current	0.60	.....
# 66	04/10 08:13	To 04/10 19:45	11.53	Int Refill: Low Current	0.48	.....
# 67	04/10 20:20	To 04/11 07:44	11.40	Int Refill: Low Current	0.59	.....
# 68	04/11 08:18	To 04/11 20:10	11.86	Int Refill: Low Current	0.57	.....
# 69	04/11 20:47	To 04/12 07:44	10.95	Int Refill: Low Current	0.62	.....
# 70	04/12 08:11	To 04/13 00:08	15.95	Int Dump: End of Period	0.45	.....
