

Listing of Statistics for Run 1999-1

Total Amount of User Time in this interval 976.60 Hours

User periods in this interval

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01/21/1999 08:01 To 01/26/1999 07:59 119.98 Hours
01/26/1999 16:01 To 02/01/1999 07:59 135.97 Hours
02/03/1999 08:01 To 02/09/1999 08:00 143.98 Hours
02/09/1999 16:01 To 02/15/1999 08:01 136.00 Hours
02/17/1999 08:00 To 02/23/1999 08:00 143.99 Hours
02/23/1999 15:20 To 03/01/1999 07:59 136.66 Hours
03/03/1999 08:01 To 03/10/1999 00:00 160.00 Hours
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Delivered Beam                923.46 Hours
Percentage of Scheduled Time   94.56 %
Downtime During Period        53.13 Hours
Percentage of scheduled time SR current > 10 ma 96.38 %
Average Delivered Current During This Period 81.50 ma
Total integrated Current During This Period 75.26 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      25.65 Hours
Mean Fill Duration from Poisson Fit 26.96 Hours
Mean Time Between Faults (MTBF)   26.38 Hours
Faults per Day of Delivered Beam   0.91
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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 | The first fill of a period will have any |
| | | | | | Downtime | downtime before the fill on the line above. |
| # 1 | 01/21 08:15 | To 01/21 11:40 | 3.42 | rack power trip [OTH] | 0.24 | delay while putting beamlines on line |
| # 2 | 01/21 12:48 | To 01/22 07:46 | 18.97 | Int Refill: Low Current | 1.13 | recovery, erratic injection efficiency |
| # 3 | 01/22 08:02 | To 01/22 22:57 | 14.91 | S9BV3 Power Supply [PS] | 0.27 | |
| # 4 | 01/23 00:51 | To 01/23 07:45 | 6.90 | Int Refill: Low Current | 1.90 | recovery, ring standardization |
| # 5 | 01/23 07:50 | To 01/24 07:45 | 23.90 | Int Refill: Low Current | 0.09 | |
| # 6 | 01/23 07:50 | To 01/24 07:45 | 23.90 | Int Refill: Low Current | 0.27 | |
| # 7 | 01/24 08:01 | To 01/25 07:45 | 23.73 | Int Refill: Low Current | 0.11 | |
| # 7 | 01/25 07:52 | To 01/26 07:59 | 24.13 | Int Dump: End of Period | 0.00 | |
| ----- | | | | | 0.00 | |
| # 11 | 01/26 16:01 | To 01/26 17:11 | 1.17 | SR RF-1 Trip [RF] | 0.53 | |
| # 12 | 01/26 17:43 | To 01/27 07:45 | 14.03 | Int Refill: Low Current | 0.40 | Injection efficiency |
| # 13 | 01/27 08:08 | To 01/27 16:19 | 8.18 | P0 Timing Lost [CTL] | 0.73 | |
| # 14 | 01/27 17:03 | To 01/28 07:45 | 14.70 | Int Refill: Low Current | 0.08 | |
| # 15 | 01/28 07:49 | To 01/28 13:00 | 5.19 | S10B:Q1 went to 0 [PS] | 0.47 | |

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|-------|-------------|----------------|-------|--------------------------|----------------------------------------------------|
| # 16 | 01/28 13:29 | To 01/29 07:47 | 18.31 | Int Refill: Low Current | 0.07 |
| # 17 | 01/29 07:51 | To 01/30 07:44 | 23.88 | Int Refill: Low Current | 0.18 |
| # 18 | 01/30 07:55 | To 01/30 12:40 | 4.76 | rf2, S37 IG Fault [RF] | 0.25 |
| # 19 | 01/30 12:55 | To 01/31 07:44 | 18.82 | Int Refill: Low Current | 0.17 |
| # 20 | 01/31 07:54 | To 01/31 12:29 | 4.58 | Communications prob[CTL] | 0.34 |
| # 21 | 01/31 12:50 | To 02/01 07:59 | 19.16 | Int Dump: End of Period | 0.00 |
| ----- | | | | | |
| # 24 | 02/03 09:09 | To 02/03 12:34 | 3.43 | S39A:V2 trip [PS] | 1.13 S12A:Q2, rf#2 trips, injection efficiency low |
| # 25 | 02/03 14:34 | To 02/04 01:15 | 10.68 | RF1 Kly Out Arc [RF] | 2.00 replaced converter bad, 2nd swap needed |
| # 26 | 02/04 03:08 | To 02/04 07:48 | 4.66 | Int Refill: Low Current | 1.89 trouble injecting due to BTS problems |
| # 27 | 02/04 08:55 | To 02/05 07:45 | 22.84 | Int Refill: Low Current | 1.12 rad mon trip while inj, rf2 IG fault |
| # 28 | 02/05 07:51 | To 02/05 13:41 | 5.83 | RF1 Kly Out Arc [RF] | 0.11 |
| # 29 | 02/05 14:02 | To 02/05 17:48 | 3.75 | S31 Gespac [PS] | 0.35 delay during inj |
| # 30 | 02/05 19:35 | To 02/05 20:11 | 0.60 | RF1 Kly Out Arc [RF] | 1.80 repair of Gespac problem |
| # 32 | 02/05 21:28 | To 02/06 02:23 | 4.92 | RF1 Kly Out Arc [RF] | 1.28 Subsequent RF1 Kly Out Arc |
| # 33 | 02/06 03:25 | To 02/06 07:45 | 4.33 | Int Refill: Low Current | 1.03 swap rfl waveguide to rf4 |
| # 34 | 02/06 07:49 | To 02/07 07:44 | 23.92 | Int Refill: Low Current | 0.08 |
| # 35 | 02/07 11:58 | To 02/08 07:45 | 19.78 | Int Refill: Low Current | 4.23 power supply replacement, prob |
| # 36 | 02/08 07:51 | To 02/09 08:00 | 24.14 | Int Dump: End of Period | 0.11 |
| ----- | | | | | |
| # 37 | 02/09 16:06 | To 02/10 07:44 | 15.64 | Int Refill: Low Current | 0.08 studies concluding |
| # 38 | 02/10 07:49 | To 02/10 16:59 | 9.18 | BPM group low I [OPS] | 0.08 |
| # 39 | 02/10 17:08 | To 02/10 20:15 | 3.12 | VM40VV02 closed [CTL] | 0.14 |
| # 40 | 02/10 20:32 | To 02/10 22:08 | 1.61 | RF4, S38 IG trip. [RF] | 0.28 |
| # 41 | 02/10 22:28 | To 02/11 07:45 | 9.28 | Int Refill: Low Current | 0.33 |
| # 42 | 02/11 07:49 | To 02/11 21:23 | 13.58 | RF4 collector int. [RF] | 0.06 |
| # 43 | 02/11 22:09 | To 02/12 07:45 | 9.59 | Int Refill: Low Current | 0.77 recovery |
| # 44 | 02/12 07:49 | To 02/12 18:34 | 10.75 | bad timing cable [CTL] | 0.07 |
| # 45 | 02/12 22:20 | To 02/13 07:45 | 9.42 | Int Refill: Low Current | 3.75 PAR timing problems and investigation |
| # 46 | 02/13 07:51 | To 02/14 07:45 | 23.90 | Int Refill: Low Current | 0.10 |
| # 47 | 02/14 07:50 | To 02/15 08:01 | 24.18 | Int Dump: End of Period | 0.08 |
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| # 48 | 02/17 08:00 | To 02/18 07:45 | 23.74 | Int Refill: Low Current | 0.00 |
| # 49 | 02/18 07:59 | To 02/18 12:42 | 4.73 | S1BQ4 Set Pnt [PS] | 0.24 |
| # 50 | 02/18 13:15 | To 02/19 07:45 | 18.50 | Int Refill: Low Current | 0.54 phasing problems |
| # 51 | 02/19 09:24 | To 02/20 07:44 | 22.34 | Int Refill: Low Current | 1.65 phasing problem, S34A:S3 trip |
| # 52 | 02/20 08:03 | To 02/20 12:34 | 4.52 | S21A:Q5 no current [PS] | 0.30 BTS tuning problems |
| # 53 | 02/20 13:45 | To 02/20 22:47 | 9.03 | S32B:V3 chg currnet [PS] | 1.19 converter replacement |
| # 54 | 02/20 23:04 | To 02/21 07:45 | 8.68 | Int Refill: Low Current | 0.27 recovery |
| # 55 | 02/21 07:50 | To 02/22 07:45 | 23.91 | Int Refill: Low Current | 0.09 |
| # 56 | 02/22 08:16 | To 02/22 12:36 | 4.33 | BPLD Trip [UNKNOWN] | 0.53 |
| # 57 | 02/22 13:14 | To 02/22 14:56 | 1.70 | S31B:Q4 trip [PS] | 0.62 rad monitor reset, lost timing group |
| # 58 | 02/22 15:46 | To 02/23 08:00 | 16.24 | Int Dump: End of Period | 0.84 replace converter |
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|-------|-------------|----------------|-------|--------------------------|--------------------------------------------------------|
| # 61 | 02/23 15:20 | To 02/23 19:57 | 4.61 | raw PS trip [H2O] | 0.01 |
| # 62 | 02/23 21:24 | To 02/24 07:55 | 10.52 | Int Refill: Low Current | 1.44 problems injection, problems from standardization |
| # 63 | 02/24 08:14 | To 02/25 07:45 | 23.51 | Int Refill: Low Current | 0.32 two cycles of standardization |
| # 64 | 02/25 08:17 | To 02/26 07:45 | 23.46 | Int Refill: Low Current | 0.54 unlock SR llrf loop |
| # 65 | 02/26 07:50 | To 02/26 08:53 | 1.05 | water pressure dip [H2O] | 0.08 |
| # 66 | 02/26 10:28 | To 02/26 12:07 | 1.65 | S31B:Q4 glitch [PS] | 1.58 recovery |
| # 67 | 02/26 12:24 | To 02/27 04:07 | 15.72 | S31B:Q4 glitch [PS] | 0.27 recovery |
| # 68 | 02/27 07:46 | To 02/27 17:49 | 10.05 | 18ID EPS Fault [XFD] | 3.66 Problems with replacement |
| # 69 | 02/27 18:20 | To 02/28 06:57 | 12.62 | rf2 crowbar [RF] | 0.50 recovery |
| # 70 | 02/28 07:29 | To 03/01 07:09 | 23.67 | rf2 crowbar [RF] | 0.54 recovery |
| # 71 | 03/01 07:26 | To 03/01 07:59 | 0.56 | Int Dump: End of Period | 0.28 recovery |
| ----- | | | | | |
| # 72 | 03/03 09:48 | To 03/03 19:45 | 9.95 | Int Refill: Low Current | 0.00 |
| # 73 | 03/03 20:05 | To 03/04 07:34 | 11.48 | IOC reboot [CTL] | 1.78 set up problems due to shutter mode, inj eff. |
| # 74 | 03/04 07:57 | To 03/04 19:44 | 11.80 | Int Refill: Low Current | 0.34 |
| # 75 | 03/04 19:54 | To 03/05 07:44 | 11.83 | Int Refill: Low Current | 0.38 |
| # 76 | 03/05 08:39 | To 03/05 11:10 | 2.51 | rf#4 h20 flow [H2O] | 0.17 |
| # 77 | 03/05 12:24 | To 03/05 19:45 | 7.35 | Int Refill: Low Current | 0.91 converter swap (S11B:S1) |
| # 78 | 03/05 19:54 | To 03/05 23:35 | 3.69 | unknown beam motion[OTH] | 1.24 par related problems, prf1, Q4, LTP:B1 |
| # 79 | 03/06 00:03 | To 03/06 08:14 | 8.19 | Int Refill: Low Current | 0.14 |
| # 80 | 03/06 08:32 | To 03/06 19:45 | 11.22 | Int Refill: Low Current | 0.46 reset rad monitor |
| # 81 | 03/06 19:52 | To 03/07 07:45 | 11.89 | Int Refill: Low Current | 0.29 linac prob? |
| # 82 | 03/07 07:52 | To 03/07 19:45 | 11.89 | Int Refill: Low Current | 0.11 |
| # 84 | 03/07 20:17 | To 03/08 07:44 | 11.45 | Int Refill: Low Current | 0.11 |
| # 85 | 03/08 07:55 | To 03/08 18:02 | 10.11 | VM-18-VV01 closed [CTL] | 0.54 subsequent rf3 pwr mon trip, cav#3 reflect power |
| # 86 | 03/08 19:06 | To 03/09 00:41 | 5.59 | VM-12-VV02 closed [CTL] | 0.18 |
| # 87 | 03/09 01:08 | To 03/09 07:45 | 6.60 | Int Refill: Low Current | 1.07 linac set-up time |
| # 89 | 03/09 08:43 | To 03/09 19:45 | 11.03 | Int Refill: Low Current | 0.46 recovery |
| # 90 | 03/09 20:06 | To 03/09 24:00 | 3.90 | Int Dump: End of Period | 0.97 Subsequent SR RF3 HVPS trip |
| | | | | | 0.35 |
| | | | | | 0.00 |