

Listing of Statistics for Run2-2020 (Created Tue Sep 29 12:05:12 CDT 2020)

User periods in this interval

06/16/2020 08:00 To 06/22/2020 08:00 144.00 Hours, Delivered Beam: 132.84 Hours, 3 Fault(s), 44.28 MTBF, 92.25% of Sched. Time
 06/24/2020 08:00 To 07/03/2020 08:00 216.00 Hours, Delivered Beam: 213.73 Hours, 1 Fault(s), 213.73 MTBF, 98.95% of Sched. Time
 07/07/2020 08:00 To 07/13/2020 08:00 144.00 Hours, Delivered Beam: 143.77 Hours, 0 Fault(s), 143.77 MTBF, 99.84% of Sched. Time
 07/14/2020 08:00 To 07/20/2020 08:00 144.00 Hours, Delivered Beam: 143.99 Hours, 0 Fault(s), 143.99 MTBF, 99.99% of Sched. Time
 07/22/2020 08:00 To 07/27/2020 08:00 120.00 Hours, Delivered Beam: 117.02 Hours, 2 Fault(s), 58.51 MTBF, 97.52% of Sched. Time
 07/28/2020 08:00 To 08/03/2020 08:00 144.00 Hours, Delivered Beam: 143.30 Hours, 0 Fault(s), 143.30 MTBF, 99.52% of Sched. Time
 08/04/2020 08:00 To 08/12/2020 24:00 208.00 Hours, Delivered Beam: 205.10 Hours, 1 Fault(s), 205.10 MTBF, 98.61% of Sched. Time
 09/14/2020 08:00 To 09/21/2020 08:00 168.00 Hours, Delivered Beam: 165.59 Hours, 3 Fault(s), 55.20 MTBF, 98.57% of Sched. Time
 09/22/2020 08:00 To 09/28/2020 08:00 144.00 Hours, Delivered Beam: 139.38 Hours, 3 Fault(s), 46.46 MTBF, 96.79% of Sched. Time

Total Amount of User Time in this interval 1431.96 Hours Delivered Beam 1404.72 Hours
Percentage of Scheduled Time (%) 98.10 %
Mean Time Between Faults (MTBF) 108.06 Hours
 Downtime During Period 27.23 Hours
 Total integrated Current During This Period 141.92 A-hr
 Mean Fill Duration in Period 100.34 Hours
 Faults per Day of Delivered Beam 0.22
 Total Number of Faults 13

Valid fills Beginning in this Time Interval

Fill #	Start	End	Duration (min: 1.0)	Reason for Fill Termination	Length of Downtime	Downtime is associated with the end of a fill. The first fill of a period will have any downtime before the fill on the line above.
# 3	06/16 08:00	To 06/18 13:58	53.98	Human error [PS]	2.77	filled, 2nd dump-human error 1.933hr-PS,0.84hr-MCR
# 5	06/18 16:45	To 06/21 05:19	60.58	S1 RTFB glitch [CTL]	1.82	Mult. reboots, Controls help, refilled.
# 6	06/21 07:09	To 06/21 08:32	1.39	Power sag [OTH]	6.56	Multiple system/machine recovery with mult. groups
# 7	06/21 15:06	To 06/22 07:59	16.89	Int Dump: End of Period	0.00	
# 8	06/24 08:00	To 06/25 21:14	37.24	6-ID PSS trip [MOM]	2.27	Recovery, human error MOM 1.14hr; MCR 1.13 hr.
# 9	06/25 23:30	To 07/03 07:59	176.49	Int Dump: End of Period	0.00	
# 10	07/07 08:13	To 07/13 07:59	143.77	Int Dump: End of Period	0.22	Loading BPLD limits [MCR]
# 11	07/14 08:00	To 07/20 07:59	143.99	Int Dump: End of Period	0.01	
# 12	07/22 08:00	To 07/23 13:14	29.24	RF4 HV glitch [RF]	0.69	Recovered, refilled
# 13	07/23 13:55	To 07/26 13:20	71.41	S4B:V3 PS failed [PS]	2.29	Swap supply, conditioned, refilled
# 14	07/26 15:37	To 07/27 07:59	16.38	Int Dump: End of Period	0.00	
# 15	07/28 08:41	To 08/03 07:59	143.30	Int Dump: End of Period	0.70	P0 feedback & RTFB issues [AOP]
# 16	08/04 08:00	To 08/10 13:55	149.92	Human error [RF]	2.89	Shutters closed-Tornado Warn. 0.55hr-RF,2.34hr-OTH
# 18	08/10 16:48	To 08/12 23:59	55.19	Int Dump: End of Period	0.00	
# 19	09/14 08:00	To 09/14 09:13	1.22	Human error [AOP]	0.01	
# 20	09/14 09:46	To 09/16 20:28	58.70	RTFB glitch [??]	0.55	Refilled ring
# 21	09/16 21:04	To 09/18 13:23	40.32	S11A:H1 P.S. failed[PS]	0.61	Investigation, refill
# 22	09/18 14:38	To 09/21 07:59	65.36	Int Dump: End of Period	1.24	Swapped supply, conditioned, refilled
# 23	09/22 08:00	To 09/22 09:36	1.60	S1&2 H2O flow[MOM]	0.00	
# 24	09/22 10:29	To 09/24 22:18	59.82	S39A:H2 P.S. glitch[PS]	0.88	Investigation, standardization of P.S., refill
# 25	09/24 23:20	To 09/25 03:36	4.28	S39A:H2 P.S. glitch[PS]	1.03	2nd loss RF4 crowbar trip 0.52hr.[PS];0.51hr.[RF]
# 26	09/25 06:19	To 09/28 07:59	73.68	Int Dump: End of Period	2.71	Investigation, swap-out, conditioned, refilled

Top-Up Mode Statistics

Target Current Range +/- 2.0, Minimum Injector Downtime = 8.0 minutes

Total
 Current in Range during Scheduled Topup Time 96.86 %
 Current in Range during Delivered Beam Time 98.09 %
 Injector Availability 97.80 %
Period Beginning 06/24/2020 08:00
 Current in Range 98.33 %
 Injector Availability 98.12 %

Out of Range at: 06/24/2020 08:35:04 to 06/24/2020 09:44:16 : 69.20 minutes
 Injector downtime: 06/24/2020 08:30:08 to 06/24/2020 09:44:12 : 74.07 minutes
 Out of Range at: 06/26/2020 18:26:24 to 06/26/2020 18:40:08 : 13.73 minutes
 Injector downtime: 06/26/2020 18:21:28 to 06/26/2020 18:40:04 : 18.60 minutes
 Out of Range at: 06/26/2020 18:51:28 to 06/26/2020 18:52:08 : 0.67 minutes
 Injector downtime: 06/26/2020 18:43:28 to 06/26/2020 18:51:28 : ~ 8.00 minutes
 Out of Range at: 06/27/2020 06:42:32 to 06/27/2020 07:46:24 : 63.87 minutes

Injector downtime:	06/27/2020 06:37:36	to	06/27/2020 07:44:08 :	66.53 minutes
Out of Range at:	06/29/2020 12:38:08	to	06/29/2020 13:25:12 :	47.07 minutes
Injector downtime:	06/29/2020 12:33:12	to	06/29/2020 13:25:08 :	51.93 minutes
Out of Range at:	07/01/2020 06:26:24	to	07/01/2020 06:46:08 :	19.73 minutes
Injector downtime:	07/01/2020 06:21:28	to	07/01/2020 06:43:52 :	22.40 minutes

Period Beginning 07/07/2020 08:00

Current in Range	96.03 %
Injector Availability	95.66 %

Out of Range at:	07/07/2020 19:49:52	to	07/07/2020 19:53:04 :	3.20 minutes
Injector downtime:	07/07/2020 19:41:52	to	07/07/2020 19:49:52 :	~ 8.00 minutes
Out of Range at:	07/07/2020 21:59:20	to	07/07/2020 22:18:08 :	18.80 minutes
Injector downtime:	07/07/2020 21:54:24	to	07/07/2020 22:18:04 :	23.67 minutes
Out of Range at:	07/10/2020 16:04:08	to	07/10/2020 16:45:52 :	41.73 minutes
Injector downtime:	07/10/2020 15:59:12	to	07/10/2020 16:45:48 :	46.60 minutes
Out of Range at:	07/11/2020 02:32:32	to	07/11/2020 04:42:00 :	129.47 minutes
Injector downtime:	07/11/2020 02:27:36	to	07/11/2020 04:41:12 :	133.60 minutes
Out of Range at:	07/11/2020 12:58:32	to	07/11/2020 13:56:16 :	57.73 minutes
Injector downtime:	07/11/2020 12:53:36	to	07/11/2020 13:55:04 :	61.47 minutes
Out of Range at:	07/11/2020 21:14:08	to	07/11/2020 21:44:32 :	30.40 minutes
Injector downtime:	07/11/2020 21:09:12	to	07/11/2020 21:43:20 :	34.13 minutes
Out of Range at:	07/12/2020 00:29:52	to	07/12/2020 00:54:40 :	24.80 minutes
Injector downtime:	07/12/2020 00:24:56	to	07/12/2020 00:52:24 :	27.47 minutes
Out of Range at:	07/12/2020 16:35:20	to	07/12/2020 17:11:28 :	36.13 minutes
Injector downtime:	07/12/2020 16:30:24	to	07/12/2020 17:10:08 :	39.73 minutes

Period Beginning 07/14/2020 08:00

Current in Range	99.53 %
Injector Availability	99.41 %

Out of Range at:	07/18/2020 08:22:48	to	07/18/2020 08:44:48 :	22.00 minutes
Injector downtime:	07/18/2020 08:17:52	to	07/18/2020 08:44:44 :	26.87 minutes
Out of Range at:	07/19/2020 12:35:36	to	07/19/2020 12:42:24 :	6.80 minutes
Injector downtime:	07/19/2020 12:27:36	to	07/19/2020 12:35:36 :	~ 8.00 minutes
Out of Range at:	07/20/2020 06:39:52	to	07/20/2020 06:51:20 :	11.47 minutes
Injector downtime:	07/20/2020 06:34:56	to	07/20/2020 06:51:16 :	16.33 minutes

Period Beginning 07/22/2020 08:00

Current in Range	97.29 %
Injector Availability	96.56 %

Out of Range at:	07/22/2020 08:02:16	to	07/22/2020 09:05:36 :	63.33 minutes
Injector downtime:	07/22/2020 07:57:20	to	07/22/2020 09:05:32 :	68.20 minutes
Out of Range at:	07/22/2020 13:13:04	to	07/22/2020 13:21:36 :	8.53 minutes
Injector downtime:	07/22/2020 13:08:08	to	07/22/2020 13:21:32 :	13.40 minutes
Out of Range at:	07/22/2020 20:29:28	to	07/22/2020 20:29:36 :	0.13 minutes
Injector downtime:	07/22/2020 20:21:28	to	07/22/2020 20:29:28 :	~ 8.00 minutes
Out of Range at:	07/24/2020 16:29:20	to	07/24/2020 16:29:20 :	0.00 minutes
Injector downtime:	07/24/2020 16:21:20	to	07/24/2020 16:29:20 :	~ 8.00 minutes
Out of Range at:	07/24/2020 22:10:40	to	07/24/2020 22:29:20 :	18.67 minutes
Injector downtime:	07/24/2020 22:05:44	to	07/24/2020 22:27:04 :	21.33 minutes
Out of Range at:	07/25/2020 02:18:16	to	07/25/2020 02:29:36 :	11.33 minutes
Injector downtime:	07/25/2020 02:13:20	to	07/25/2020 02:29:32 :	16.20 minutes
Out of Range at:	07/26/2020 03:23:52	to	07/26/2020 03:39:28 :	15.60 minutes
Injector downtime:	07/26/2020 03:18:56	to	07/26/2020 03:39:24 :	20.47 minutes
Out of Range at:	07/26/2020 03:46:40	to	07/26/2020 03:57:12 :	10.53 minutes
Injector downtime:	07/26/2020 03:41:44	to	07/26/2020 03:54:56 :	13.20 minutes
Out of Range at:	07/26/2020 08:48:08	to	07/26/2020 09:08:00 :	19.87 minutes
Injector downtime:	07/26/2020 08:43:12	to	07/26/2020 09:07:56 :	24.73 minutes
Out of Range at:	07/26/2020 17:38:16	to	07/26/2020 18:04:00 :	25.73 minutes
Injector downtime:	07/26/2020 17:33:20	to	07/26/2020 18:01:44 :	28.40 minutes
Out of Range at:	07/27/2020 06:15:36	to	07/27/2020 06:32:24 :	16.80 minutes
Injector downtime:	07/27/2020 06:10:40	to	07/27/2020 06:30:08 :	19.47 minutes

Period Beginning 07/28/2020 08:00

Current in Range	97.05 %
Injector Availability	96.76 %

Out of Range at:	07/29/2020 15:30:16	to	07/29/2020 15:34:16 :	4.00 minutes
Injector downtime:	07/29/2020 15:22:16	to	07/29/2020 15:30:16 :	~ 8.00 minutes
Out of Range at:	07/29/2020 19:59:44	to	07/29/2020 20:08:48 :	9.07 minutes
Injector downtime:	07/29/2020 19:54:48	to	07/29/2020 20:08:44 :	13.93 minutes
Out of Range at:	07/30/2020 14:19:28	to	07/30/2020 14:24:08 :	4.67 minutes
Injector downtime:	07/30/2020 14:11:28	to	07/30/2020 14:19:28 :	~ 8.00 minutes
Out of Range at:	07/31/2020 20:00:24	to	07/31/2020 23:24:16 :	203.87 minutes
Injector downtime:	07/31/2020 19:55:28	to	07/31/2020 23:24:12 :	208.73 minutes
Out of Range at:	08/01/2020 13:00:40	to	08/01/2020 13:20:40 :	20.00 minutes
Injector downtime:	08/01/2020 12:55:44	to	08/01/2020 13:20:36 :	24.87 minutes
Out of Range at:	08/02/2020 10:42:00	to	08/02/2020 10:54:08 :	12.13 minutes
Injector downtime:	08/02/2020 10:37:04	to	08/02/2020 10:52:00 :	14.93 minutes

Period Beginning 08/04/2020 08:00

Current in Range 97.11 %
 Injector Availability 96.78 %

Out of Range at:	08/04/2020 11:03:28	to	08/04/2020 11:12:56 :	9.47 minutes
Injector downtime:	08/04/2020 10:58:32	to	08/04/2020 11:12:52 :	14.33 minutes
Out of Range at:	08/04/2020 22:54:48	to	08/04/2020 23:11:20 :	16.53 minutes
Injector downtime:	08/04/2020 22:49:52	to	08/04/2020 23:11:16 :	21.40 minutes
Out of Range at:	08/05/2020 13:17:04	to	08/05/2020 13:28:24 :	11.33 minutes
Injector downtime:	08/05/2020 13:12:08	to	08/05/2020 13:28:20 :	16.20 minutes
Out of Range at:	08/05/2020 20:02:00	to	08/05/2020 20:26:24 :	24.40 minutes
Injector downtime:	08/05/2020 19:57:04	to	08/05/2020 20:26:20 :	29.27 minutes
Out of Range at:	08/05/2020 22:40:48	to	08/06/2020 02:20:40 :	219.87 minutes
Injector downtime:	08/05/2020 22:35:52	to	08/06/2020 02:19:44 :	223.87 minutes
Out of Range at:	08/06/2020 18:57:12	to	08/06/2020 19:00:40 :	3.47 minutes
Injector downtime:	08/06/2020 18:49:12	to	08/06/2020 18:57:12 :	~ 8.00 minutes
Out of Range at:	08/07/2020 10:33:04	to	08/07/2020 10:40:48 :	7.73 minutes
Injector downtime:	08/07/2020 10:25:04	to	08/07/2020 10:33:04 :	~ 8.00 minutes
Out of Range at:	08/08/2020 11:51:36	to	08/08/2020 11:51:44 :	0.13 minutes
Injector downtime:	08/08/2020 11:43:36	to	08/08/2020 11:51:36 :	~ 8.00 minutes
Out of Range at:	08/09/2020 09:25:04	to	08/09/2020 09:49:28 :	24.40 minutes
Injector downtime:	08/09/2020 09:20:08	to	08/09/2020 09:47:04 :	26.93 minutes
Out of Range at:	08/10/2020 16:48:56	to	08/10/2020 17:27:12 :	38.27 minutes
Injector downtime:	08/10/2020 16:44:00	to	08/10/2020 17:24:48 :	40.80 minutes

Period Beginning 09/14/2020 08:00

Current in Range 99.54 %
 Injector Availability 99.20 %

Out of Range at:	09/15/2020 17:17:36	to	09/15/2020 17:34:56 :	17.33 minutes
Injector downtime:	09/15/2020 17:12:40	to	09/15/2020 17:32:32 :	19.87 minutes
Out of Range at:	09/16/2020 06:52:16	to	09/16/2020 06:52:48 :	0.53 minutes
Injector downtime:	09/16/2020 06:44:16	to	09/16/2020 06:52:16 :	~ 8.00 minutes
Out of Range at:	09/16/2020 13:49:12	to	09/16/2020 13:52:16 :	3.07 minutes
Injector downtime:	09/16/2020 13:41:12	to	09/16/2020 13:49:12 :	~ 8.00 minutes
Out of Range at:	09/17/2020 05:29:28	to	09/17/2020 05:32:40 :	3.20 minutes
Injector downtime:	09/17/2020 05:21:28	to	09/17/2020 05:29:28 :	~ 8.00 minutes
Out of Range at:	09/18/2020 06:56:00	to	09/18/2020 06:56:56 :	0.93 minutes
Injector downtime:	09/18/2020 06:48:00	to	09/18/2020 06:56:00 :	~ 8.00 minutes
Out of Range at:	09/19/2020 12:31:20	to	09/19/2020 12:43:28 :	12.13 minutes
Injector downtime:	09/19/2020 12:26:24	to	09/19/2020 12:41:12 :	14.80 minutes
Out of Range at:	09/21/2020 02:40:24	to	09/21/2020 02:48:48 :	8.40 minutes
Injector downtime:	09/21/2020 02:35:28	to	09/21/2020 02:48:44 :	13.27 minutes

Period Beginning 09/22/2020 08:00

Current in Range 99.81 %
 Injector Availability 99.81 %

Out of Range at:	09/22/2020 20:48:48	to	09/22/2020 20:56:40 :	7.87 minutes
Injector downtime:	09/22/2020 20:40:48	to	09/22/2020 20:48:48 :	~ 8.00 minutes
Out of Range at:	09/26/2020 06:02:48	to	09/26/2020 06:11:12 :	8.40 minutes
Injector downtime:	09/26/2020 05:54:48	to	09/26/2020 06:02:48 :	~ 8.00 minutes

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 An official operations statistics page will be posted at the end of each user period.