

# Downtime for Run 2018-1

Fill #	Start	End	Length	Loss Reason	DIN #	Audit	Start	End	User Length	System Length	Cause	System	Group	Type	Description
1	01/30/18 08:00	01/30/18 09:37	1.62	33ID PSS trip[SI]	106742		01/30/18 09:37	01/30/18 10:45	1.13	1.13	SI	SI	SI	Store Lost	
2	01/30/18 10:45	01/30/18 17:40	6.92	S39FB IOC glitch [CTL]	106743		01/30/18 17:40	01/30/18 19:30	1.83	1.83	CTL	CTL	CTL	Store Lost	
3	01/30/18 19:30	01/31/18 19:50	24.33	Human error [AOP]	106747		01/31/18 19:50	01/31/18 20:28	0.63	0.63	AOP	AOP	AOP	Store Lost	
4	01/31/18 20:28	01/31/18 22:28	2.00	RF3 Crowbar trip[RF]	106748		01/31/18 22:28	01/31/18 23:14	0.77	0.77	RF	RF	RF	Store Lost	
5	01/31/18 23:14	02/05/18 08:00	104.77	Int Dump: End of Period					0.00	0.00				Scheduled	
			139.63						4.37	4.37					
					106753		02/06/18 08:00	02/06/18 10:13	2.22	2.22	SI	SI	SI	Inhibits Beam to User	33ID PSS trip
7	02/06/18 10:13	02/12/18 08:00	141.78	Int Dump: End of Period					0.00	0.00				Scheduled	
			141.78						2.22	2.22					
			0.00		106753		02/13/18 08:00	02/13/18 11:10	3.17						
							02/13/18 08:00	02/13/18 09:12		1.20	AOP	AOP	AOP	Inhibits Beam to User	
					106760		02/13/18 09:12	02/13/18 11:10		1.97	DIA	DIA	DIA	Inhibits Beam to User	
10	02/13/18 11:10	02/13/18 14:24	3.23	RF-2 HVPS Trip [RF]	106761		02/13/18 14:24	02/13/18 15:11	0.78	0.78	RF	RF	RF	Store Lost	
11	02/13/18 15:11	02/18/18 04:08	108.95	RF-2 HVPS Trip [RF]	106762		02/18/18 04:08	02/18/18 04:37	0.48	0.48	RF	RF	RF	Store Lost	
12	02/18/18 04:37	02/19/18 08:00	27.38	Int Dump: End of Period					0.00	0.00				Scheduled	
			139.57						4.43	4.43					
13	02/20/18 08:00	02/24/18 03:27	91.45	12C:BM P.S. glitch[PS]	106771		02/24/18 03:27	02/24/18 03:48	0.35	0.35	PS	PS	PS	Store Lost	
14	02/24/18 03:48	2/25/2018 9:59	30.18	Unknown [UNK]	106772		02/25/18 09:59	02/25/18 10:19	0.33	0.33	UNK	UNK	UNK	Store Lost	
15	02/25/18 10:19	02/26/18 08:00	21.68	Int Dump: End of Period					0.00	0.00				Scheduled	
			143.32						0.68	0.68					
					106775		02/28/18 08:00	02/28/18 09:52	1.87	1.87	RF	RF	RF	Inhibits Beam to User	
16	02/28/18 09:52	03/02/18 08:57	47.08	RTFB IOC glitch[CTL]	106777		03/02/18 08:57	03/02/18 09:36	0.65	0.65	CTL	CTL	CTL	Store Lost	
17	03/02/18 09:36	3/2/2018 21:32	11.93	23A:Q3 P.S. trip[PS]	106780		03/02/18 21:32	03/02/18 23:50	2.30	2.30	PS	PS	PS	Store Lost	
18	03/02/18 23:50	03/05/18 08:00	56.17	Int Dump: End of Period					0.00	0.00				Scheduled	
			115.18						4.82	4.82					
19	03/06/18 08:00	03/07/18 00:07	16.12	HSCU communication[CTL]	106782		03/07/18 00:07	03/07/18 01:43	1.60						
							03/07/18 00:07	03/07/18 00:37		0.50	CTL	CTL	CTL	Store Lost	
							03/07/18 00:37	03/07/18 01:43		1.10	AOP	AOP	AOP	Inhibits Beam to User	
20	03/07/18 01:43	3/10/2018 18:06	88.38	Rad mon. [OTH]	106785		03/10/18 18:06	03/10/18 19:00	0.90	0.90	OTH	OTH	OTH	Store Lost	
21	03/10/18 19:00	03/12/18 04:11	32.18	S23A:S1 P.S. [PS]	106787		03/12/18 04:11	03/12/18 08:00	3.82						
							03/12/18 04:11	03/12/18 06:38		2.45	PS	PS	PS	Store Lost	
							03/12/18 06:38	03/12/18 08:00		1.37	AOP	AOP	AOP	Inhibits Beam to User	
			136.68						6.32	6.32					
22	03/13/18 08:00	03/19/18 07:59	143.98	16-BM PSS trip [SI]	106788		03/19/18 07:59	03/19/18 08:00	0.02	0.02	SI	SI	SI	Store Lost	
			143.98						0.02	0.02					
23	03/20/18 08:00	03/22/18 07:41	47.68	S37 Hyb 3 H20 trip[RF]	106791		03/22/18 07:41	03/22/18 08:30	0.82	0.82	RF	RF	RF	Store Lost	
24	03/22/18 08:30	03/22/18 22:25	13.92	11ID PSS trip [SI]	106792		03/22/18 22:25	3/22/18 23:52	1.45	1.45	SI	SI	SI	Store Lost	
25	03/22/18 23:52	03/24/18 20:20	44.47	S21B:V1 glitch[PS]	106793		03/24/18 20:20	03/24/18 22:15	1.92	1.92	PS	PS	PS	Store Lost	
27	03/24/18 22:15	03/25/18 20:33	22.30	11-ID PSS faults[SI]	106794		03/25/18 20:33	3/25/18 21:26	0.88	0.88	SI	SI	SI	Store Lost	
28	3/25/18 21:26	03/26/18 08:00	10.57	Int Dump: End of Period					0.00	0.00				Scheduled	
			138.93						5.07	5.07					
29	03/27/18 08:00	04/02/18 08:00	144.00	Int Dump: End of Period					0.00	0.00				Scheduled	
			144.00						0.00	0.00					
30	04/03/18 08:00	04/09/18 08:00	144.00	Int Dump: End of Period					0.00	0.00				Scheduled	
			144.00						0.00	0.00					
31	04/10/18 08:00	04/11/18 01:16	17.27	RF2 HVPS trip [RF]	106802		04/11/18 01:16	4/11/18 2:52	1.60	1.60	RF	RF	RF	Store Lost	
32	04/11/18 02:52	04/12/18 04:32	25.67	RF3 crowbar trip [RF]	106803		04/12/18 04:32	04/12/18 04:57	0.42	0.42	RF	RF	RF	Store Lost	
33	04/12/18 04:57	04/12/18 20:46	15.82	S40 RF Cav.IG trip[RF]	106805		04/12/18 20:46	4/12/18 21:39	0.88	0.88	RF	RF	RF	Store Lost	
34	4/12/18 21:39	04/16/18 08:00	82.35	Int Dump: End of Period					0.00	0.00				Scheduled	
			141.10						2.90	2.90					
			0.00		106808		04/17/18 08:00	04/17/18 08:21	0.35						RF2 trip recovery[.26 RF] iocsbmdp reboot[.1hr CTL]
							04/17/18 08:00	04/17/18 08:15		0.25	RF	RF	RF	Inhibits Beam to User	
							04/17/18 08:15	04/17/18 08:21		0.10	CTL	CTL	CTL	Inhibits Beam to User	
35	04/17/18 08:21	04/17/18 09:55	1.57	RF2 crowbar trip[RF]	106809		04/17/18 09:55	04/17/18 10:48	0.88	0.88	RF	RF	RF	Store Lost	
36	04/17/18 10:48	04/22/18 17:38	126.83	S37 Hybd#3 trip [RF]	106811		04/22/18 17:38	04/22/18 18:26	0.80	0.80	RF	RF	RF	Store Lost	
37	04/22/18 18:26	04/25/18 00:00	53.57	Int Dump: End of Period					0.00	0.00				Scheduled	
			181.97						2.03	2.03					

Fill #	Start	End	Length	Loss Reason	DIN #	Audit	Start	End	User Length	System Length	Cause	System	Group	Type	Description
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Number of Lost Fills 23  
 Number of Intentional Dumps 10  
 Number of Fills 33

**Downtime**  
 User System  
32.85    32.85

Total User Beam 1710.15    71.3 User Beam days  
 Total User Downtime 32.85 <-- This downtime includes Gaps Open  
 Total Schedule Run Length 1743

Mean Time Between Faults 74.35  
 Faults/Day of Delivered Beam 0.32  
 X-ray Availability 98.12%