

Downtime for Run 2022-2

Fill #	Start	End	Length	Loss Reason	Start	End	User Length	System Length	Cause	System	Group	Type	Description	Store Lost	Intention. Du	
1	05/31/22 08:00	05/31/22 16:50	8.83	RF-4 arc [RF]	05/31/22 16:50	05/31/22 17:22	0.53	0.53	RF	RF	RF	Store Lost		1		
2	05/31/22 17:22	06/01/22 10:54	17.53	Unknown beam motion [AOP]	06/01/22 10:54	06/01/22 11:08	0.23	0.23	AOP	AOP	AOP	Store Lost		1		
3	06/01/22 11:08	06/02/22 13:15	26.12	29ID BPLD [AOP]	06/02/22 13:15	06/02/22 14:19	1.07	1.07	AOP	AOP	AOP	Store Lost		1		
4	06/02/22 14:19	06/03/22 13:39	23.33	S26-29 H2O flow [MOM]	06/03/22 13:39	06/03/22 15:00	1.35	1.35	MOM	MOM	MOM	Store Lost		1		
5	06/03/22 15:00	06/03/22 18:01	3.02	S26-29 H2O flow [MOM]	06/03/22 18:01	06/03/22 21:24	3.38		MOM	MOM	MOM	Store Lost		1		
					06/03/22 18:01	06/03/22 20:13		2.20	MOM	MOM	MOM	Store Lost		1		
					06/03/22 20:13	06/03/22 21:24		1.18	PS	PS	PS	Inhibits beam to user	Swap S27A:S3		1	
6	06/03/22 21:24	06/03/22 23:10	1.77	RF-4 instability [RF]	06/03/22 23:10	06/03/22 23:44	0.57	0.57	RF	RF	RF	Store Lost		1		
7	06/03/22 23:44	06/04/22 08:01	8.28	RF-4 instability [RF]	06/04/22 08:01	06/04/22 18:05	10.07					Store Lost		1		
					06/04/22 08:01	06/04/22 16:29		8.47	RF	RF	RF	Store Lost		1		
					06/04/22 16:29	06/04/22 18:05		1.60	MOM	MOM	MOM	Inhibits beam to user			1	
10	06/04/22 18:05	06/04/22 20:15	2.17	RF-1 cathode OI [RF]	06/04/22 20:15	06/04/22 20:50	0.58	0.58	RF	RF	RF	Store Lost		1		
11	06/04/22 20:50	06/06/22 08:00	35.17	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			126.22				17.78	17.78								
					06/07/22 08:00	06/07/22 09:16	1.27	1.27	MOM	MOM	MOM	Inhibits beam to user	Pump switch			
12	06/07/22 09:16	06/10/22 00:16	63.00	S26-29 H2O flow [MOM]	06/10/22 00:16	06/10/22 01:01	0.75	0.75	MOM	MOM	MOM	Store Lost		1		
13	06/10/22 01:01	06/10/22 17:32	16.52	29ID BPLD [DIA]	06/10/22 17:32	06/10/22 18:01	0.48	0.48	DIA	DIA	DIA	Store Lost		1		
14	06/10/22 18:01	06/10/22 22:29	4.47	29ID BPLD [DIA]	06/10/22 22:29	06/10/22 22:55	0.43	0.43	DIA	DIA	DIA	Store Lost		1		
15	06/10/22 22:55	06/12/22 09:15	34.33	29ID BPLD [DIA]	06/12/22 09:15	06/12/22 09:42	0.45	0.45	DIA	DIA	DIA	Store Lost		1		
16	06/12/22 09:42	06/13/22 08:00	22.30	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			140.62				3.38	3.38								
17	06/14/22 08:00	06/16/22 22:18	62.30	13.2kV line failure [OTH]	06/16/22 22:18	06/17/22 09:28	11.17	11.17	ComEd	ComEd	ComEd	Store Lost		1		
18	06/17/22 09:28	06/17/22 11:41	2.22	1ID BPLD error [DIA]	06/17/22 11:41	06/17/22 12:57	1.27	1.27	DIA	DIA	DIA	Store Lost		1		
19	06/17/22 12:57	06/17/22 14:17	1.33	BLDG 420 breaker [FAC]	06/17/22 14:17	06/17/22 17:07	2.83	2.83	FAC	FAC	FAC	Store Lost		1		
20	06/17/22 17:07	06/20/22 08:00	62.88	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			126.74				15.27	15.27								
21	06/21/22 08:00	06/22/22 13:12	29.20	RF-1 kalmus trip [RF]	06/22/22 13:12	06/22/22 14:47	1.58	1.58	RF	RF	RF	Store Lost		1		
22	06/22/22 14:47	06/23/22 16:03	25.22	S36/37 raw PS trip [PS]	06/23/22 16:03	06/23/22 22:25	6.37	6.37	PS	PS	PS	Store Lost		1		
23	06/23/22 22:25	06/26/22 21:46	71.35	RF-1 kalmus trip [RF]	06/26/22 21:46	06/26/22 22:44	0.97	0.97	RF	RF	RF	Store Lost		1		
24	06/26/22 22:44	06/27/22 08:00	9.27	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			135.08				8.92	8.92								
25	06/29/22 08:00	06/30/22 11:43	27.72	RF-1 kalmus trip [RF]	06/30/22 11:43	06/30/22 13:36	1.88					Store Lost		1		
					06/30/22 11:43	06/30/22 12:13		0.50	RF	RF	RF	Store Lost		1		
					06/30/22 12:13	06/30/22 13:36		1.38	DIA	DIA	DIA	Inhibits beam to user	Tunnel search for B:ICT		1	
26	06/30/22 13:36	07/02/22 01:52	36.27	RF-1 cathode OI [RF]	07/02/22 01:52	07/02/22 02:31	0.65	0.65	RF	RF	RF	Store Lost		1		
27	07/02/22 02:31	07/04/22 08:00	53.48	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			117.47				2.53	2.53								
28	07/05/22 08:00	07/06/22 17:49	33.82	RF-1 cathode OI [RF]	07/06/22 17:49	07/06/22 20:07	2.30					Store Lost		1		
					07/06/22 17:49	07/06/22 19:07		1.30	RF	RF	RF	Store Lost		1		
					07/06/22 19:07	07/06/22 20:07		1.00	AOP	AOP	AOP	Inhibits beam to user			1	
29	07/06/22 20:07	07/07/22 07:44	11.62	34ID BPLD trip [DIA]	07/07/22 07:44	07/07/22 08:19	0.58	0.58	DIA	DIA	DIA	Store Lost		1		
30	07/07/22 08:19	07/09/22 15:28	55.15	BPM IOC card [CTL]	07/09/22 15:28	07/09/22 19:51	4.38	4.38	CTL	CTL	CTL	Store Lost		1		
31	07/09/22 19:51	07/11/22 08:00	36.15	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			136.73				7.27	7.27								
32	07/13/22 08:00	07/16/22 19:59	83.98	S17 H2O leak [MOM]	07/16/22 19:59	07/17/22 05:25	9.43					Store Lost		1		
					07/16/22 19:59	07/17/22 03:10		7.18	MOM	MOM	MOM	Store Lost		1		
					07/17/22 03:10	07/17/22 05:25		2.25	PS	PS	PS	Inhibits beam to user			1	
33	07/17/22 05:25	07/18/22 08:00	26.58	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			110.57				9.43	9.43								
34	07/19/22 08:00	07/22/22 09:47	73.78		07/22/22 09:47	07/22/22 10:23	0.60	0.60	RF	RF	RF	Store Lost		1		
35	07/22/22 10:23	07/25/22 08:00	69.62	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			143.40				0.60	0.60								
36	07/26/22 08:00	07/27/22 07:45	23.75	S27ID BPLD trip [DIA]	07/27/22 07:45	07/27/22 08:21	0.60	0.60	DIA	DIA	DIA	Store Lost		1		
37	07/27/22 08:21	07/27/22 19:44	11.38	11ID BPLD trip [DIA]	07/27/22 19:44	07/27/22 21:07	1.38					Store Lost		1		
					07/27/22 19:44	07/27/22 20:22		0.63	DIA	DIA	DIA	Store Lost		1		
					07/27/22 20:22	07/27/22 21:07		0.75	MCR	MCR	MCR	Inhibits beam to user			1	
38	07/27/22 21:07	07/28/22 07:45	11.63	11ID BPLD trip [DIA]	07/28/22 07:45	07/28/22 08:17	0.53	0.53	DIA	DIA	DIA	Store Lost		1		
39	07/28/22 08:17	07/30/22 03:43	43.43	RF1 collector power intlk [RF]	07/30/22 03:43	07/30/22 04:29	0.77	0.77	RF	RF	RF	Store Lost		1		
40	07/30/22 04:29	07/30/22 21:38	17.15	S40 cavity blower failed [MOM]	07/30/22 21:38	07/31/22 02:20	4.70	4.70	MOM	MOM	MOM	Store Lost		1		
41	07/31/22 02:20	07/31/22 07:45	5.42	28ID BPLD trip [DIA]	07/31/22 07:45	07/31/22 08:16	0.52	0.52	DIA	DIA	DIA	Store Lost		1		
42	07/31/22 08:16	08/02/22 00:00	39.73	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			152.50				8.50	8.50								
43	09/13/22 08:00	09/13/22 12:33	4.55	S29ID BPLD [DIA]	09/13/22 12:33	09/13/22 13:08	0.58	0.58	DIA	DIA	DIA	Store Lost		1		
44	09/13/22 13:08	09/13/22 21:39	8.52	ACIS IO Fault [SI]	09/13/22 21:39	09/14/22 04:15	6.60	6.60	SI	SI	SI	Store Lost		1		
45	09/14/22 04:15	09/14/22 11:53	7.63	S29B-Q4 trip [PS]	09/14/22 11:53	09/14/22 12:55	1.03	1.03	PS	PS	PS	Store Lost		1		
46	09/14/22 12:55	09/14/22 16:15	3.33	DIA rack lost power [DIA]	09/14/22 16:15	09/14/22 17:25	1.17	1.17	DIA	DIA	DIA	Store Lost		1		
47	09/14/22 17:25	09/19/22 08:00	110.58	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			134.62				9.38	9.38								
48	09/20/22 08:00	09/27/22 15:51	175.85	Unknown beam motion [AOP]	09/27/22 15:51	09/27/22 17:00	1.15	1.15	AOP	AOP	AOP	Store Lost		1		
49	09/27/22 17:00	09/29/22 02:05	33.08	ComEd power sag [OTH]	09/29/22 02:05	09/29/22 08:56	6.85	6.85	ComEd	ComEd	ComEd	Store Lost		1		
51	09/29/22 08:56	09/30/22 08:00	23.07	Int. Dump: End of Period			0.00	0.00				Scheduled			1	
			232.00				8.00	8.00								

Number of Lost Fills	37	
Number of Intentional Dumps	11	
Number of Fills	<u>48</u>	
Total User Beam	1557.93	64.9 User Beam days
Total User Downtime	91.07	-- This downtime includes Gaps Open
Total Schedule Run Length	<u>1649</u>	
Mean Time Between Faults	42.11	
Faults/Day of Delivered Beam	0.57	
X-ray Availability	94.48%	

Downtime	
User	System
<u>91.07</u>	<u>91.07</u>

<u>37</u>	<u>11</u>
Schedule	