

# Downtime for Run 2017-2

Fill #	Start	End	Length	Loss Reason	DIN #	Audit	Start	End	User Length	System Length	Cause	System	Group	Type	Description
			0.00		106673		05/31/17 08:00	06/01/17 08:29	24.48						Vacuum leak and L2 recovery
							05/31/17 08:00	06/01/17 02:36		18.60	VAC	VAC	VAC	Inhibits Beam to User	
							06/01/17 02:36	06/01/17 08:12		5.60	OTH	OTH	OTH	Inhibits Beam to User	
							06/01/17 08:12	06/01/17 08:29		0.28	AOP	AOP	AOP	Inhibits Beam to User	
1	06/01/17 08:29	06/05/17 08:00	95.52	Int Dump: End of Period					0.00	0.00				Scheduled	
			95.52						24.48	24.48					
2	06/06/17 08:00	06/12/17 08:00	144.00	Int Dump: End of Period					0.00	0.00				Scheduled	
			144.00						0.00	0.00					
3	06/13/17 08:00	06/13/17 20:14	12.23	ComEd Volt. Sag [OTH]	106675		06/13/17 20:14	06/13/17 20:45	0.52	0.52	ComEd	ComEd	ComEd	Store Lost	
4	06/13/17 20:45	06/19/17 08:00	131.25	Int Dump: End of Period					0.00	0.00				Scheduled	
			143.48						0.52	0.52					
5	06/20/17 08:00	06/22/17 18:57	58.95	S8A:Q4 P.S. fault[PS]	106678		06/22/17 18:57	06/22/17 21:01	2.07	2.07	PS	PS	PS	Store Lost	2 p.s. swapped, conditioned, refilled
6	06/22/17 21:01	06/26/17 08:00	82.98	Int Dump: End of Period					0.00	0.00				Scheduled	
			141.93						2.07	2.07					
7	06/28/17 08:00	07/01/17 17:53	81.88	RF4 klystron Mag flt[RF]	106680		07/01/17 17:53	07/01/17 20:23	2.50	2.50	RF	RF	RF	Store Lost	Investigation, waveguide switch, refill
8	07/01/17 20:23	07/04/17 08:00	59.62	Int Dump: End of Period					0.00	0.00				Scheduled	
			141.50						2.50	2.50					
			0.00	S38 RF cavity #3 tuner card	106682		07/05/17 08:00	07/05/17 08:15	0.25	0.25	RF	RF	RF	Inhibits Beam to User	
9	07/05/17 08:15	07/06/17 04:57	20.70	S38 RF Cav3 tuner[RF]	106683		07/06/17 04:57	07/06/17 07:18	2.35	2.35	RF	RF	RF	Store Lost	
10	07/06/17 07:18	07/10/17 08:00	96.70	Int Dump: End of Period					0.00	0.00				Scheduled	
			117.40						2.60	2.60					
11	07/11/17 08:00	07/15/17 22:09	110.15	Water flow flt [MOM]	106687		07/15/17 22:09	07/15/17 22:47	0.63	0.63	MOM	MOM	MOM	Store Lost	
12	07/15/17 22:47	07/17/17 04:03	29.27	Under Investigation	106688		07/17/17 04:03	07/17/17 04:43	0.67	0.67	UNK	UNK	UNK	Store Lost	
13	07/17/17 04:43	07/17/17 08:00	3.28	Int Dump: End of Period					0.00	0.00				Scheduled	
			142.70						1.30	1.30					
14	07/18/17 08:00	07/24/17 00:48	136.80	S37 hybrid Id. flt. [MOM]	106690		07/24/17 00:48	07/24/17 01:25	0.62	0.62	MOM	MOM	MOM	Store Lost	
15	07/24/17 01:25	07/24/17 08:00	6.58	Int Dump: End of Period					0.00	0.00				Scheduled	
			143.38						0.62	0.62					
16	07/25/17 08:00	07/25/17 09:10	1.17	S2A:V3 P.S. glitch[PS]	106692		07/25/17 09:10	07/25/17 09:43	0.55	0.55	PS	PS	PS	Store Lost	
17	07/25/17 09:43	07/25/17 16:02	6.32	Admin. stand-down[OTH]	106693		07/25/17 16:02	07/28/17 18:06	74.07	74.07	OTH	OTH	OTH	Intentional Dump	
18	07/28/17 18:06	07/29/17 23:53	29.78	S38 IG fault [RF]	106694		07/29/17 23:53	07/30/17 00:16	0.38	0.38	RF	RF	RF	Store Lost	
19	07/30/17 00:16	07/31/17 08:00	31.73	Starting Supplemental					0.00	0.00				Scheduled	
			69.00						75.00	75.00					
20	8/1/2017 8:00	8/7/2017 8:00	144.00	Starting Supplemental					0.00	0.00				Scheduled	
			144.00						0.00	0.00					
22	8/8/2017 8:00	08/14/17 08:00	144.00	Int Dump: End of Period					0.00	0.00				Scheduled	
			144.00						0.00	0.00					
23	8/15/2017 8:00	08/23/17 00:00	184.00	Starting Supplemental					0.00	0.00				Scheduled	
			184.00						0.00	0.00					

Number of Lost Fills      10  
 Number of Intentional Dumps      12  
 Number of Fills      22

**Downtime**  
 User System  
 109.08    109.08

Total User Beam      1610.92      67.1 User Beam days  
 Total User Downtime      109.08      <-- This downtime includes Gaps Open  
 Total Schedule Run Length      1720  
 Mean Time Between Faults      161.09  
 Faults/Day of Delivered Beam      0.15  
 X-ray Availability      93.66%