

# Downtime for Run 2013-3

Fill #	Start	End	Length	Loss Reason	DIN #	Audit	Start	End	User Length	System Length	Cause	System	Group	Type	Description
			0.00		106053		10/01/13 08:00	10/01/13 09:01	1.02	1.02	PS	PS	PS	Inhibits beam to user	S21C:BM P.S. Noise investigation [PS]
1	10/01/13 09:01	10/02/13 05:52	20.85	S37 RF Cav Vacuum [RF]	106054		10/02/13 05:52	10/02/13 06:09	0.28	0.28	MOM	MOM	MOM	Store Lost	
2	10/02/13 06:09	10/06/13 04:42	94.55	S1/2 Pump trip [MOM]	106055		10/06/13 04:42	10/06/13 06:09	1.45	1.45	MOM	MOM	MOM	Store Lost	MOM techs came and started pump, refill
3	10/06/13 06:09	10/06/13 12:38	6.48	S1/2 Pump trip [MOM]	106056		10/06/13 12:38	10/06/13 13:50	1.20	1.20	MOM	MOM	MOM	Store Lost	MOM techs came and started pump, refill
4	10/06/13 13:50	10/06/13 17:35	3.75	S1/2 Pump trip [MOM]	106057		10/06/13 17:35	10/06/13 18:45	1.17	1.17	MOM	MOM	MOM	Store Lost	MOM techs started pump, bypassed UPS, refill
5	10/06/13 18:45	10/07/13 18:40	23.92	RTFB BPM glitch[CTL]	106059		10/07/13 18:40	10/07/13 19:56	1.27	1.27	CTL	CTL	CTL	Store Lost	Investigation, reboot IOCS17FB, refilled
6	10/07/13 19:56	10/08/13 03:26	7.50	Power sag[COM-ED]	106060		10/08/13 03:26	10/08/13 05:53	2.45	2.45	COMED	COMED	COMED	Store Lost	
7	10/08/13 05:53	10/08/13 08:00	2.12	Int Dump: End of Period					0.00	0.00				Scheduled	
			159.17						8.83	8.83					
8	10/09/13 08:00	10/11/13 21:19	61.32	RF3 Crowbar [RF]	106063		10/11/13 21:19	10/11/13 22:48	1.48	1.48	RF	RF	RF	Store Lost	
9	10/11/13 22:48	10/15/13 08:00	81.20	Int Dump: End of Period					0.00	0.00				Scheduled	
			142.52						1.48	1.48					
			0.00		106065		10/16/13 08:00	10/16/13 10:40	2.67						Inj. prob.[1.27hrAOP],FB IOC prob.[1.41.CTL]
							10/16/13 08:00	10/16/13 09:16		1.27	AOP	AOP	AOP	Inhibits beam to user	
							10/16/13 09:16	10/16/13 10:40		1.40	CTL	CTL	CTL	Inhibits beam to user	
11	10/16/13 10:40	10/16/13 15:23	4.72	Human Error (AOP)	106066		10/16/13 15:23	10/16/13 15:25	0.03	0.03	AOP	AOP	AOP	Store Lost	Cycled shutter permit key
12	10/16/13 15:25	10/22/13 00:19	128.90	H2O leak @ S12B:Q4[MOM]	106068		10/22/13 00:19	10/22/13 08:00	7.68						
							10/22/13 00:19	10/22/13 00:49		0.50	MOM	MOM	MOM	Store Lost	
							10/22/13 00:49	10/22/13 01:33		0.73	AOP	AOP	AOP	Inhibits beam to user	PS Swapout
							10/22/13 01:33	10/22/13 08:00		6.45	MOM	MOM	MOM	Inhibits beam to user	Repair leak
			133.62						10.38	10.38					
13	10/23/13 08:00	10/28/13 08:00	120.00	Int Dump: End of Period					0.00	0.00				Scheduled	
			120.00						0.00	0.00					
			0.00		106073		10/30/13 08:00	10/30/13 10:30	2.50	2.50	MOM	MOM	MOM	Inhibits beam to user	L1 water station relay replacement
14	10/30/13 10:30	11/05/13 08:00	142.50	Int Dump: End of Period					0.00	0.00				Scheduled	
			142.50						2.50	2.50					
15	11/06/13 08:00	11/11/13 08:00	120.00	Int Dump: End of Period					0.00	0.00				Scheduled	
			120.00						0.00	0.00					
16	11/13/13 08:00	11/19/13 08:00	144.00	Int Dump: End of Period					0.00	0.00				Scheduled	
			144.00						0.00	0.00					
17	11/20/13 08:00	11/20/13 10:46	2.77	RF4Door Swtch Intlk[RF]	106086		11/20/13 10:46	11/20/13 11:57	1.18	1.18	RF	RF	RF	Store Lost	
18	11/20/13 11:57	11/21/13 01:50	13.88	locrf3hvps reboot[CTL]	106087		11/21/13 01:50	11/21/13 02:14	0.40	0.40	CTL	CTL	CTL	Store Lost	
19	11/21/13 02:14	11/22/13 12:56	34.70	420 RF TS rad mon [ESH]	106090		11/22/13 12:56	11/22/13 13:23	0.45	0.45	RAD	RAD	RAD	Store Lost	Spurious rad monitor trip, reset RF3, refill
20	11/22/13 13:23	11/24/13 05:25	40.03	MPS VV interlock[MOM]	106091		11/24/13 05:25	11/24/13 10:18	4.88	4.88	MOM	MOM	MOM	Store Lost	
21	11/24/13 10:18	11/28/13 00:00	85.70	Int Dump: End of Period					0.00	0.00				Scheduled	
			177.08						6.92	6.92					
22	11/29/13 08:00	12/03/13 08:00	96.00	Int Dump: End of Period					0.00	0.00				Scheduled	
			96.00						0.00	0.00					
23	12/04/13 08:00	12/10/13 01:17	137.28	Bad OC config [AOP]	106101		12/10/13 01:17	12/10/13 02:02	0.75	0.75	AOP	AOP	AOP	Store Lost	
24	12/10/13 02:02	12/10/13 08:00	5.97	Int Dump: End of Period					0.00	0.00				Scheduled	
			143.25						0.75	0.75					
25	12/11/13 08:00	12/13/13 14:33	54.55	BPLD trip[UNK]			12/13/13 14:33	12/13/13 17:12	2.65						
					106103		12/13/13 14:33	12/13/13 15:03		0.50	UNK	UNK	UNK	Store Lost	
							12/13/13 15:03	12/13/13 16:21		1.30	PS	PS	PS	Inhibits beam to user	
					106104		12/13/13 16:21	12/13/13 16:51		0.50	RF	RF	RF	Inhibits beam to user	
							12/13/13 16:51	12/13/13 17:12		0.35	AOP	AOP	AOP	Inhibits beam to user	
27	12/13/13 17:12	12/16/13 23:59	78.78	Int Dump: End of Period					0.00	0.00				Scheduled	
			133.33						2.65	2.65					

Number of Lost Fills 15  
 Number of Intentional Dumps 10  
 Number of Fills 25

Downtime  
 User System  
 33.52 33.52

Total User Beam 1511.47  
 Total User Downtime 33.52 <-- This downtime includes Gaps Open  
 Total Schedule Run Length 1545

Mean Time Between Faults 100.76  
 Faults/Day of Delivered Beam 0.24

Fill #	Start	End	Length	Loss Reason	DIN #	Audit	Start	End	User Length	System Length	Cause	System	Group	Type	Description
		X-ray Availability	97.8%												