

Downtime for Run 2004-1

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File #	Start	End	Length	Loss Reason	DIN #	Audit	Start	End	User Length	System Length	Cause	System	Group	Type	Description
1	01/29/04 08:00	01/29/04 13:01	5.02	30ID Radmon failure[Oth	104678		01/29/04 13:01	01/29/04 13:38	0.62	0.62	OTHER	OTHER	OTHER	Store Lost	Contractor damaged monitor, puppet installed
2	01/29/04 13:38	02/02/04 09:33	91.92	Power Sag to 90% [PFS]	104682		02/02/04 09:33	02/02/04 11:17	1.73	1.73	PFS/elect-APS	Electrical-APS	PFS	Store Lost	PFS energized transformer, sag resulted
11	02/02/04 11:17	02/02/04 15:59	4.70	Int Dump: End of Period			02/02/04 16:00	02/02/04 16:00	0.00	0.00	Scheduled				
			101.63						2.37	2.37					
12	02/03/04 08:00	02/04/04 11:43	27.72	Power sag 89% [Other]	104683		02/04/04 11:43	02/04/04 12:06	0.38	0.38	OTHER	OTHER	OTHER	Store Lost	Com-Ed Power Sag [Other]
13	02/04/04 12:06	02/09/04 07:59	115.88	Int Dump: End of Period			02/09/04 08:00	02/09/04 08:00	0.00	0.00	Scheduled				
			143.60						0.40	0.40					
14	02/11/04 08:00	02/14/04 00:38	64.63	S33 BM FE-EPS(VAC)	104692		02/14/04 00:38	02/14/04 01:31	0.88	0.88	FE-EPS	Vacuum	Vacuum	Store Lost	MPS first fault latch was S33 BM FE-EPS.
15	02/14/04 01:31	02/15/04 14:31	37.00	Gate valve closure [CTL]	104694		02/15/04 14:31	02/15/04 15:00	0.48	0.48	CTL	CTL	CTL	Store Lost	Store was lost due to VM-17-VV02 closing.
16	02/15/04 15:00	02/16/04 11:26	20.43	Zone C MPEOB [PS]	104695		02/16/04 11:26	02/16/04 12:56	1.50	1.50	PS	PS	PS	Store Lost	Safety strobes inside the tunnel in sectors 20 and 21 tripped MPEOB
17	02/16/04 12:56	02/17/04 07:59	19.05	Int Dump: End of Period			02/17/04 08:00	02/17/04 08:00	0.00	0.00	Scheduled				
			141.12						2.88	2.88					
18	02/17/04 16:00	02/18/04 09:58	17.97	LLR2 Trip [RF]	104696		02/18/04 09:58	02/18/04 10:12	0.23	0.23	RF	RF	RF	Store Lost	LLR2 Trip [RF]
19	02/18/04 10:12	02/19/04 11:09	24.95	LLR2 Interlock Trip [RF]	104698		02/19/04 11:09	02/19/04 11:41	0.53	0.53	RF	RF	RF	Store Lost	LLR2 Interlock Trip [RF]
20	02/19/04 11:41	02/20/04 07:58	20.28	S37C3 Coupler Trip [RF]	104699		02/20/04 07:58	02/20/04 09:13	1.25	1.25	RF	RF	RF	Store Lost	S37C3 Coupler Trip [RF]
21	02/20/04 09:13	02/23/04 07:59	70.77	Int Dump: End of Period			02/24/04 08:00	02/24/04 08:00	0.00	0.00	Scheduled				
			133.97						2.02	2.02					
22	02/25/04 08:00	02/29/04 21:31	109.52	S20DBPLD trip [DIA]			02/29/04 21:31	03/01/04 04:52	7.35						
					104704		02/29/04 21:31	03/01/04 01:20		3.82	DIA	DIA	DIA	Store Lost	20-ID DBPLD trip; investigation ongoing [DIA]
					104705		03/01/04 01:20	03/01/04 04:52		3.53	DIA	DIA	DIA	Inhibits Beam to User	Real Time FeedBack operational issues [DIA]
24	03/01/04 04:52	03/01/04 08:05	3.22	RTFB problem [DIA]			03/01/04 08:05	03/01/04 16:00	7.92						
					104706		03/01/04 08:05	03/01/04 09:45		1.67	DIA	DIA	DIA	Store Lost	20-ID DBPLD trip; S23/25 Reflective memory card swapped [DIA]
					104706		03/01/04 09:45	03/01/04 16:00		6.25	DIA	DIA	DIA	Inhibits Beam to User	Booster vertical and horizontal scrapers caused a Vacuum Leak [DIA]
			112.73						15.27	15.27					
25	03/02/04 08:00	03/02/04 13:52	5.87	S29 DSP Hung Up [DIA]	104708		03/02/04 13:52	03/02/04 14:41	0.82	0.82	DIA	DIA	DIA	Store Lost	Beam loss upon initialization of RTFB, refill
35	3/2/2004 14:41	03/07/04 02:50	108.15	SR-RF3 Trip [ComEd]	104712		03/07/04 02:50	03/07/04 03:15	0.42	0.42	COM-ED	OTHER	OTHER	Store Lost	11% power sag at time of RF trip, reset, refill
36	03/07/04 03:15	03/08/04 08:00	28.75	Int Dump: End of Period			03/08/04 08:00	03/08/04 08:00	0.00	0.00	Scheduled				
			142.77						1.23	1.23					
40	03/10/04 08:00	03/10/04 22:05	14.08	15-ID DPBLD Trip [DIAG]	104718		03/10/04 22:05	3/10/2004 22:55	0.83						
					104718		03/10/04 22:05	3/10/2004 22:35		0.50	DIA	DIA	DIA	Store Lost	15-ID DPBLD Trip [DIAG]
					104718		03/10/04 22:35	3/10/2004 22:55		0.33	CTL	CTL	CTL	Inhibits Beam to User	20 min. delay due to 3-ID gap encoder, fill, resume top-up
41	3/10/2004 22:55	03/11/04 09:42	10.78	SR-RF4 trip [RF]	104719		03/11/04 09:42	03/11/04 10:30	0.80	0.80	RF	RF	RF	Store Lost	Chain C trip when RF test stand opened for access, tripped off RF-4
42	03/11/04 10:30	03/16/04 08:00	117.50	Int Dump: End of Period			03/16/04 08:00	03/16/04 08:00	0.00	0.00	Scheduled				
			142.37						1.63	1.63					
43	03/16/04 16:00	03/20/04 10:01	90.02	Power Sag [ComEd]	104726		03/20/04 10:01	3/20/2004 10:18	0.28	0.28	COM-ED	OTHER	OTHER	Store Lost	power event on SG-U3, CB-S1 and CB-S2
44	3/20/2004 10:18	03/22/04 08:00	45.70	Int Dump: End of Period			03/22/04 08:00	03/22/04 08:00	0.00	0.00	Scheduled				
			135.72						0.28	0.28					
50	03/24/04 08:00	03/24/04 14:55	6.92	4-ID BPLD Trip [Other]	104731		03/24/04 14:55	3/24/2004 15:17	0.37	0.37	OTHER	OTHER	XOR	Store Lost	CPU Mode changed accidentally by User, refill.
51	3/24/2004 15:17	03/25/04 11:24	20.12	14-ID BPLD Trip [DIA]			03/25/04 11:24	03/25/04 14:27	3.05						
					104734		03/25/04 11:24	03/25/04 11:54		0.50	DIA	DIA	DIA	Store Lost	14-ID DPBLD Trip [DIAG]
					104734		03/25/04 11:54	3/25/2004 13:56		2.03	XFE	XFE	XFE	Inhibits Beam to User	XFD-FE 3-ID switch
					104735		03/25/04 13:56	3/25/2004 14:27		0.52	ME	ME	ME	Inhibits Beam to User	MPS flow
54	03/25/04 14:27	03/27/04 16:40	50.22	S3B:H1 PS trip [PS]	104737		03/27/04 16:40	3/27/2004 17:30	0.83	0.83	PS	PS	PS	Store Lost	S3B:H1 PS trip
55	3/27/2004 17:30	03/30/04 07:59	62.48	Int Dump: End of Period			03/30/04 08:00	03/30/04 08:00	0.00	0.00	Scheduled				
			139.73						4.27	4.27					
59	03/30/04 16:00	03/31/04 06:50	14.83	S25B:H1 trip [ME]	104739		03/31/04 06:50	3/31/2004 7:56	1.10	1.10	ME	ME	ME	Store Lost	Klixon jumpered out
60	3/31/2004 7:56	04/05/04 02:52	114.93	15-ID BPLD Trip [DIA]	104744		04/05/04 02:52	04/05/04 03:07	0.25	0.25	DIA	DIA	DIA	Store Lost	Unknown beam motion
62	04/05/04 03:07	04/05/04 08:00	4.88	Int Dump: End of Period			04/05/04 08:00	04/05/04 08:00	0.00	0.00	Scheduled				
			133.65						1.35	1.35					
68	04/07/04 08:00	04/07/04 10:07	2.12	18-ID Rad Trip [UES]	104747		04/07/04 10:07	4/7/2004 10:57	0.83	0.83	UES	UES	UES	Store Lost	Spurious trip, not real
69	4/7/2004 10:57	04/07/04 16:14	5.28	IOCS25FB Hung Task [DIA]	104751		04/07/04 16:14	04/07/04 16:39	0.42	0.42	DIA	DIA	DIA	Store Lost	Beam lost after IOC reboot
70	04/07/04 16:39	04/09/04 12:46	44.12	S15 ID DBPLD trip [DIA]	104753		04/09/04 12:46	4/9/2004 13:41	0.92	0.92	DIA	DIA	DIA	Store Lost	15-ID DPBLD Trip Suspect board problem[DIAG]

Downtime for Run 2004-1

Fill #	Start	End	Length	Loss Reason	DIN #	Audit	Start	End	User Length	System Length	Cause	System	Group	Type	Description
71	4/9/2004 13:41	04/11/04 01:02	35.35	S15 ID DBPLD trip [DIA]	104756		04/11/04 01:02	04/11/04 01:23	0.35	0.35	DIA	DIA	DIA	Store Lost	15-ID DPBLD Trip Suspect board problem[DIAG]
72	04/11/04 01:23	04/12/04 07:21	29.97	S15 ID DBPLD trip [DIA]	104757		04/12/04 07:21	4/12/2004 7:48	0.45	0.45	DIA	DIA	DIA	Store Lost	15-ID DPBLD Trip Suspect board problem[DIAG]
73	4/12/2004 7:48	4/12/2004 10:35	2.78	Septum bottom rad monitor [UES]	104758		4/12/2004 10:35	4/12/2004 11:23	0.80						
							04/12/04 10:35	04/12/04 11:05		0.50	UES	UES	UES	Store Lost	SR-RF4 Trip [RF]
							04/12/04 11:05	4/12/2004 11:22		0.28	PS	PS	PS	Inhibits Beam to User	(LTP:B1)
74	04/12/04 11:23	04/12/04 15:59	4.60	Int Dump: End of Period			04/12/04 16:00	04/12/04 16:00	0.00	0.00	Scheduled				
			124.22						3.78	3.78					
75	04/13/04 08:00	04/19/04 07:12	143.20	14-ID FEEPS Trip [SI]	104759		04/19/04 07:12	4/19/2004 8:41	1.48						
							04/19/04 07:12	04/19/04 07:26		0.22	SI	SI	SI	Store Lost	14-ID EPS Trip [SI]
							04/19/04 07:26	4/19/2004 7:46		0.33	RF	RF	RF	Inhibits Beam to User	RF-4 troubleshooting [RF]
							04/19/04 07:46	4/19/2004 8:03		0.28	SI	SI	SI	Inhibits Beam to User	Continuing the original downtime (0.5hrs. Total) [SI]
							04/19/04 08:03	4/19/2004 8:41		0.64	DIA	DIA	DIA	Inhibits Beam to User	SR orbit [DIAG]
76	4/19/2004 8:41	04/20/04 00:00	15.32	Int Dump: End of Period			04/20/04 00:00	04/20/04 00:00	0.00		Scheduled				
			158.52						1.48	1.48					

Number of Lost Fills 28
 Number of Intentional Dumps 12
 Number of Fills 40

Downtime
 User System
36.93 36.93

Total User Beam 1609.98 67.1 User Beam days
 Total User Downtime 36.93 <-- This downtime includes Gaps Open
 Total Schedule Run Length 1646.91

Mean Time Between Faults 57.50
 Faults/Day of Delivered Beam 0.42
 X-ray Availability 97.76%