Default Storage Ring Refill Time   0.25

Downtime for Run 2000-1

Fill #	Start	End	Length	Loss Reason	Delay Reason	DIN #	Fill #	Audit	Machine	Start	End	User Length	System Length	No Impact	Cause	Type	Description
				power glitch [OTH]	recovery					01/19/00 08:00	01/19/00 11:06	3.09	3.09		Other	Inhibits beam to user	Power glitch, radiation monitor glitch, orbit problems
2	01/19/00 11:06	01/20/00 09:03	21.95	SR Dipole glitch [PS]	recovery, restandardization					01/20/00 09:03	01/20/00 09:58	0.92	0.92		Other	Store Lost	Recovery, restandardization
4	01/20/00 09:58	01/20/00 13:52	3.90	SR Dipole glitch [PS]	recovery					01/20/00 13:52	01/20/00 14:32	0.67	0.67		Other	Store Lost	Recovery
6	01/20/00 14:32	01/21/00 16:04	25.53	PSS trip [ISI]	investigation, recovery, rf system proble					01/21/00 16:04	01/21/00 16:21	2.30	0.28		ISI	Store Lost	Recovery, RF system problem
					recovery					01/21/00 16:21	01/21/00 18:01		1.67		Water	Inhibits beam to user	SRF-1 water flow problem
					recovery					01/21/00 16:21	01/21/00 16:51		0.50		PS	Inhibits beam to user	SR Diplle trip
					recovery					01/21/00 18:01	01/21/00 18:22		0.35		ISI	Inhibits beam to user	Recovery
8	01/21/00 18:22	01/22/00 11:23	17.02	S17B:Q3 trip [PS]	subsequent problems with S17B:Q3, bo					01/22/00 11:23	01/22/00 13:25	2.04	2.04		PS	Store Lost	Subsequent problems with S17B:Q3, booster dipole supply
12	01/22/00 13:25	01/25/00 07:59	66.57	Int Dump: End of Period [OPS]						01/25/00 07:59	01/25/00 08:00	0.01	0.01		Scheduled		.....
			134.97	143.99													
										01/25/00 16:00	01/25/00 16:32	0.54	0.54		RF	Inhibits beam to user	Changing the SRF-2 circulator monitor for personnel safety system
17	01/25/00 16:32	01/26/00 07:44	15.20	WF dump for phase [OPS]	refill					01/26/00 07:44	01/26/00 08:00	0.26	0.26		OPS	Store Intentionally Dumped	PAR RF phase problems
18	01/26/00 08:00	01/27/00 01:55	17.92	S24/25 R2 Raw trip [PS]	recovery					01/27/00 01:55	01/27/00 02:31	0.59	0.59		PS	Store Lost	S24/25 R2 Raw trip on Transf OT
22	01/27/00 02:31	01/28/00 14:54	36.38	h2o glitch trip ps [H2O]	recovery, restandardization					01/28/00 14:54	01/28/00 16:03	1.14	1.14		PS	Store Lost	All PS in SR sectors 4&5 tripped
24	01/28/00 16:03	01/29/00 15:08	23.08	Unknown beam motion [OTH]	recovery					01/29/00 15:08	01/29/00 15:55	0.78	0.78		Other	Store Lost	Unknown beam motion
26	01/29/00 15:55	01/30/00 06:15	14.33	Power glitch [OTH]	recovery					01/30/00 06:15	01/30/00 06:30	1.22	0.25		Other	Store Lost	Power glitch
					repair, recovery					01/30/00 06:30	01/30/00 07:28		0.97		PS	Inhibits beam to user	P:BM:PS repair and standardization
27	01/30/00 07:28	01/30/00 10:12	2.73	power glitch [OTH]	recovery, L1 modulator problems					01/30/00 10:12	01/30/00 11:00	6.78	0.80		Other	Store Lost	Recovery from power glitch
										01/30/00 10:12	01/30/00 17:00		6.78		RF	Inhibits beam to user	L1:MO1 repair
28	01/30/00 17:00	01/31/00 07:59	14.98	Int Dump: End of Period [OPS]						01/31/00 07:59	01/31/00 08:00	0.01	0.01		Scheduled		.....
			124.63	135.96													
32	02/02/00 08:01	02/03/00 14:56	30.92	PSS trip at 2-BM [ISI]	recovery					02/03/00 14:56	02/03/00 16:38	1.70	1.70		ISI	Store Lost	Recovery
34	02/03/00 16:38	02/03/00 17:26	0.80	PSS trip at 20-BM [ISI]	recovery					02/03/00 17:26	02/03/00 18:39	1.23	1.23		ISI	Store Lost	Recovery
38	02/03/00 18:39	02/07/00 11:01	88.37	PS related work [PS]	recovery					02/07/00 11:01	02/07/00 11:30	0.49	0.49		PS	Store Lost	S39A:V3:PS is a suspect for the trip
45	02/07/00 11:29	02/08/00 08:00	20.52	Int Dump: End of period [OPS]								0.00	0.00		Scheduled		.....
			140.60	144.02													
48	02/08/00 16:01	02/10/00 09:51	41.83	power glitch [OTH]	recovery					02/10/00 09:51	2/10/00 10:29	0.65	0.65		Other	Store Lost	power bump was caused by ComEd (human error)
51	02/10/00 10:29	02/10/00 14:53	4.40	PSS fault SR RF monitor#2	recovery					2/10/00 14:53	02/10/00 15:19	1.00	0.45		RF	Store Lost	PSS fault SR RF monitor#2
					recovery					2/10/00 15:20	02/10/00 15:34		0.25		RF	Inhibits beam to user	Recovery
					recovery					02/10/00 15:35	2/10/00 15:44		0.17		OAG	Inhibits beam to user	RF-Gun Pem switchover procedure aborted RF-Gun
					recovery					02/10/00 15:45	02/10/00 15:53		0.14		OAG	Inhibits beam to user	Recovery
53	02/10/00 15:53	02/11/00 10:06	18.23	Unknown beam motion [OAG]	recovery					02/11/00 10:06	02/11/00 11:48	1.70	0.25		OAG	Store Lost	The first fault latched on the MPS is ID-15 BPLD trip
					recovery					02/11/00 10:06	02/11/00 10:17		0.18		OAG	Inhibits beam to user	Linac waveguide switch
					investigation,recovery					02/11/00 10:17	02/11/00 11:48		1.52		OAG	Inhibits beam to user	BPM configuration was not correct for the SR lattice
57	02/11/00 11:48	02/13/00 11:45	47.95	SRF-3 trip ; LLRF detector [RF]	recovery					02/13/00 11:45	02/13/00 12:20	0.56	0.56		RF	Store Lost	Recovery
61	02/13/00 12:20	02/14/00 08:00	19.67	Int Dump: End of Period [OPS]								0.00	0.00		Scheduled		.....
			132.08	135.99										0.00			
										02/16/00 08:00	02/16/00 09:43	1.71	1.71		PS	Inhibits beam to user	Problems with S38B:Q5, converter replacement
66	02/16/00 09:43	02/18/00 07:47	46.08	P0 timing problem [CTL]	recovery					02/18/00 07:47	02/18/00 08:07	0.33	0.33		CTL	Store Intentionally Dumped	Stored beam was intentionally dumped due to P0 Timing problem
68	02/18/00 08:07	02/18/00 10:14	2.11	SR RF IG fault [VAC]	recovery					02/18/00 10:14	02/18/00 10:30	0.28	0.28		VAC	Store Lost	Storage Ring RF S36 Cav 4 Ion Gauge fault
69	02/18/00 10:30	02/18/00 12:50	2.33	SR RF IG fault [VAC]	recovery, repair					02/18/00 12:50	02/18/00 15:42	2.86	2.86		VAC	Store Lost	Replacement of SR RF S36 cav 4 Ion Gauge controllers
71	02/18/00 15:42	02/19/00 01:26	9.75	ACIS trip [CTL]	recovery					02/19/00 01:26	02/19/00 03:42	2.79	2.27		CTL	Store Lost	Chain A of the system tripped on a remote I/O communications fault
					recovery					02/19/00 03:42	02/19/00 04:14		0.53		CTL	Inhibits beam to user	Re-boot of IOCs39:VP and re-calibration of scrapers
	02/19/00 04:14	02/21/00 06:04	49.83	IOCS39:VP re-boot [CTL]	recovery					02/21/00 06:04	02/21/00 06:22	0.28	0.28		CTL	Inhibits beam to user	Re-boot of IOCs39:VP
75	02/21/00 06:22	02/21/00 13:41	7.32	Not identifiable [OTH]	recovery					02/21/00 13:41	02/21/00 14:21	0.68	0.68		Other	Store Lost	Lost stored beam for unknown reason
79	02/21/00 14:21	02/22/00 08:00	17.65	Int Dump: End of period [OPS]								0.00	0.00		Scheduled		.....
			135.07	144.00										0.00			
										02/22/00 16:00	02/22/00 16:01	0.02	0.02		OPS	Inhibits beam to user	Preparing to turn Beam over to the Users
82	02/22/00 16:03	02/24/00 01:08	33.08	power glitch [OTH]	recovery					02/24/00 01:08	02/24/00 02:04	0.93	0.93		Other	Store Lost	power glitch
85	02/24/00 02:04	02/24/00 19:45	17.68	Scraper problem [DIA]	recovery					02/24/00 19:45	02/24/00 20:36	0.85	0.85		DIA	Store Lost	The scrapers hadn't been returned to their proper position by the script
87	02/24/00 20:36	02/25/00 21:11	24.58	rf problem [RF]	recovery					02/25/00 21:11	02/25/00 21:44	0.57	0.57		CTL	Store Lost	SR RF-3 & -4 tripped on Anode OI Adj.
89	02/25/00 21:44	02/26/00 07:42	9.97	rf-4 power monitor fault	recovery					02/26/00 07:42	02/26/00 08:12	0.49	0.49		RF	Store Lost	SR RF-4 power monitor is tripped on Kly Out arc
91	02/26/00 08:12	02/27/00 10:22	26.17	power glitch [OTH]	recovery					02/27/00 10:22	02/27/00 11:41	1.32	1.32		Other	Store Lost	power glitch
94	02/27/00 11:41	02/28/00 08:00	20.32	Int Dump: End of period [OPS]								0.00	0.00		Scheduled		......
			131.80	135.98										0.00			
99	03/01/00 08:02	03/06/00 01:14	113.20	S30A:Q2 lost output [PS]	recovery					03/06/00 01:14	03/06/00 01:40	0.43	0.43		PS	Store Lost	S30A:Q2 lost its current and readback
105	03/06/00 01:40	03/06/00 13:20	11.67	BM-08 EPS/PSS work [ISI]	recovery					03/06/00 13:20	03/06/00 13:59	0.84	0.66		ISI	Store Lost	BM-08 EPS/PSS work, RG-2 Kicker trip

#	Start	End	Hrs	Description	Rec	Start2	End2	A	B	Sum	Code	Status	Comment
					recovery	03/06/00 13:59	03/06/00 14:10		0.18		PS	Inhibits beam to user	RG-2 Kicker trip
108	03/06/00 14:10	03/07/00 08:00	17.83	Int Dump: End of period [OPS]				0.00	0.00		Scheduled		……
			142.70	144.00						0.00			
				BM-14 PS1 Shutter [ISI]		03/07/00 16:00	03/07/00 16:12	0.19			ISI	Inhibits beam to user	Due to 14-BM shutter being closed
109	03/07/00 16:12	03/07/00 18:48	2.60	SR RF-2 PSS fault [RF]	recovery	03/07/00 18:48	03/07/00 19:31	0.71			RF	Store Lost	SR RF-2 personnel safety system trip
112	03/07/00 19:31	03/10/00 14:43	67.20	Gate valve closed [CTL]	recovery	03/10/00 14:43	03/10/00 14:51	0.94	0.14		CTL	Store Lost	VM-09-VV02 gate valve closed
						03/10/00 14:51	03/10/00 15:04		0.22		RF	Inhibits beam to user	SR RF-3 problems after beam loss caused it to trip
						03/10/00 15:04	03/10/00 15:39		0.58		CTL	Inhibits beam to user	Recovery
119	03/10/00 15:39	03/13/00 08:00	64.35	Int Dump: End of period [OPS]				0.00	0.00		Scheduled		……
			134.15	135.99						0.00			
	03/15/00 08:00	03/19/00 21:10	109.17	Reboot of iocs39vp [CTL]	recovery	03/19/00 21:10	03/19/00 21:34	0.40	0.40		CTL	Inhibits beam to user	Reboot of iocs39vp
127	03/19/00 21:34	03/20/00 20:07	22.55	S40/1 raw PS trip [PS]	recovery	03/20/00 20:07	03/20/00 22:40	2.55	2.55		PS	Store Lost	
134	03/20/00 22:40	03/21/00 08:00	9.33	Int Dump: End of period [OPS]				0.01	0.01		Scheduled		……
			141.05	144.01						0.00			
								0.02	0.02				
135	03/21/00 16:02	03/22/00 19:25	27.38	SRF-4 Kly Out Arc [RF]	recovery	03/22/00 19:25	03/22/00 19:43	0.82	0.30		OAG	Inhibits beam to user	Linac Waveguide switch
						03/22/00 19:43	03/22/00 20:14		0.52		RF	Store Lost	SRF-4 Klystron Output arc
138	03/22/00 20:14	03/24/00 07:48	35.57	Most Timing bunches lost [OTH]	recovery	03/24/00 07:48	03/24/00 08:46	0.96	0.96		OTH	Store Lost	Unexplained beam loss
139	03/24/00 08:46	03/24/00 15:01	6.25	Love cntr pwr [CTL]	recovery	03/24/00 15:01	03/24/00 15:36	0.58	0.58		CTL	Store Lost	The power for a rack in S36 had been turned off
141	03/24/00 15:36	03/27/00 07:59	64.40	Int Dump: End of period [OPS]				0.01	0.01		Scheduled		……
			133.60	135.99						0.00			
145	03/29/00 08:01	04/03/00 00:00	110.99	Int Dump: End of period [OPS]				0.01	0.01		Scheduled		……
			110.99	111.00								Week	