

### Downtime for Run 2002-3

Fill #	Start	End	Length	Loss Reason	DIN #	Audit	Start	End	User Length	System Length	Cause	System	Group	Type	Description
1	10/09/02 08:00	10/09/02 09:44	1.73	Turning off Pinger[OPS]	104341		10/09/02 09:44	10/09/02 09:58	0.23	0.23	OPS	OPS	OPS	Store Lost	Turning off S36 Pinger [OPS]
2	10/09/02 09:58	10/10/02 06:49	20.85	S34 BPLD trip [DIAG]	104342		10/10/02 06:49	10/10/02 07:06	0.28	0.28	Diag	Diag	Diag	Store Lost	S34 BPLD problem [DIAG]
4	10/10/02 07:06	10/14/02 14:18	103.20	S31AV2 problem [DIAG]			10/14/02 14:18	10/14/02 15:17	0.98						
					104345		10/14/02 14:18	10/14/02 14:48		0.50	Diag	Diag	Diag	Store Lost	S31AV2 CMPSI card problem [DIAG]
					104346		10/14/02 14:48	10/14/02 15:17		0.48	OPS	OPS	OPS	Inhibits Beam to User	S31AV2 CMPSI card problem [OPS]
14	10/14/02 15:17	10/14/02 15:59	0.70	Int Dump: End of Period			10/14/02 15:59	10/14/02 15:59	0.00	0.00	Scheduled	Scheduled		Int. Dump	
			<b>126.48</b>						<b>1.50</b>	<b>1.50</b>					
15	10/15/02 08:00	10/18/02 10:40	74.67	Beam instability [OAG]	104350		10/18/02 10:40	10/18/02 11:30	0.83	0.83	OAG	OAG	OAG	Store Lost	Two beam losses from beam instabilities [OAG]
17	10/18/02 11:30	10/21/02 07:59	68.48	Int Dump: End of Period			10/21/02 07:59	10/21/02 07:59	0.00	0.00	Scheduled	Scheduled		Int. Dump	
			<b>143.15</b>						<b>0.83</b>	<b>0.83</b>					
19	10/23/02 08:22	10/24/02 08:01	23.65	Vac Valve close [CTL]			10/23/02 08:00	10/23/02 08:22	0.37	0.37	Physics	Physics	Physics	Inhibits Beam to User	Beam deliver to users <1/2 hour and lost beam due to instability [Physics]
					104353		10/24/02 08:01	10/24/02 08:59	0.97						
					104353		10/24/02 08:01	10/24/02 08:31		0.50	CTL	CTL	CTL	Store Lost	VM-40-VV02 closed [CTL]
					104353		10/24/02 08:31	10/24/02 08:59		0.47	Physics	Physics	Physics	Inhibits Beam to User	BTS:AB and :BB PS setpoints not updated in file [Physics]
20	10/24/02 08:59	10/26/02 17:48	56.82	Corrector19BH1 trip [PS]	104356		10/26/02 17:48	10/26/02 18:00	0.20	0.20	ES/PS	PS	ES	Store Lost	Corrector19BH1 trip on Mag[OT [PS]
21	10/26/02 18:00	10/27/02 10:22	17.37	Corrector19BH1 trip [PS]	104357		10/27/02 10:22	10/27/02 10:30	0.13	0.13	ES/PS	PS	ES	Store Lost	Corrector19BH1 trip on Mag[OT [PS]
22	10/27/02 10:30	10/27/02 23:52	13.37	S13A:Q5 trip [PS]	104358		10/27/02 23:52	10/28/02 00:48	0.93	0.93	ES/PS	PS	ES	Store Lost	S13A:Q5 lost current and readback; swapout [ES/PS]
23	10/28/02 00:48	10/28/02 16:17	15.48	RF2 crowbar trip [RF]	104359		10/28/02 16:17	10/28/02 16:47	0.50	0.50	RF	RF	RF	Store Lost	RF4 tripping on Circulator Out Arc
24	10/28/02 16:47	10/29/02 07:59	15.20	Int Dump: End of Period			10/29/02 07:59	10/29/02 07:59	0.00	0.00	Scheduled	Scheduled		Int. Dump	
			<b>141.88</b>						<b>3.10</b>	<b>3.10</b>					
25	10/29/02 16:00	10/31/02 04:30	36.50	iocs21fb [CTL]	104363		10/31/02 04:30	10/31/02 04:41	0.18	0.18	CTL	CTL	CTL	Store Lost	iocs21fb lost communication [CTL]
26	10/31/02 04:41	10/31/02 08:50	4.15	Raw supply trip [PS]	104364		10/31/02 08:50	10/31/02 09:11	0.35	0.35	ES/PS	PS	ES	Store Lost	S26:27:R4:PS tripped on Converter fault [ES/PS]
27	10/31/02 09:11	11/03/02 13:39	76.47	S20B:MT lost DAC [PS]			11/03/02 13:39	11/03/02 14:30	0.85						
					104365		11/03/02 13:39	11/03/02 14:04		0.42	ES/PS	PS	ES	Store Lost	S20B:MT lost DAC [PS]
					104365		11/03/02 14:04	11/03/02 14:09		0.08	Diag	Diag	Diag	Inhibits Beam to User	Linac Beam Toroid trip [Diag]
					104365		11/03/02 14:09	11/03/02 14:30		0.35	OPS	OPS	OPS	Inhibits Beam to User	Investigation, injection [OPS]
28	11/03/02 14:30	11/03/02 16:37	2.12	Fast beam motion [Other]	104367		11/03/02 16:37	11/03/02 16:57	0.33	0.33	Other	Other	Other	Store Lost	Beam motion in the horizontal plane due to earthquake [Other]
29	11/03/02 16:57	11/04/02 08:00	15.05	Int Dump: End of Period			11/03/02 08:00	11/03/02 08:00	0.00	0.00	Scheduled	Scheduled		Int. Dump	
			<b>134.28</b>						<b>1.72</b>	<b>1.72</b>					
30	11/06/02 08:00	11/11/02 13:02	125.03	S24B:V1:PS failure [PS]	104373		11/11/02 13:02	11/11/02 13:27	0.42	0.42	ES/PS	PS	ES	Store Lost	Beam motion due to S24B:V1:PS fluctuating [ES/PS]
32	11/11/02 13:27	11/11/02 16:00	2.55	Int Dump: End of Period			11/11/02 16:00	11/11/02 16:00	0.00	0.00	Scheduled	Scheduled		Int. Dump	
			<b>127.58</b>						<b>0.42</b>	<b>0.42</b>					
33	11/12/02 08:00	11/13/02 07:46	23.77	Rad.Mon. trip & inj. [OPS]			11/13/02 07:45	11/13/02 10:03	2.30						
					104377		11/13/02 07:45	11/13/02 08:15		0.50	OPS	OPS	OPS	Store Lost	3-ID Rad.Mon. tripped during the fill on fill [OPS]
					104377		11/13/02 08:15	11/13/02 10:03		1.80	ES/PS	PS	ES	Inhibits Beam to User	RG2 kicker problem [ES/PS]
35	11/13/02 10:03	11/18/02 08:00	117.95	Int Dump: End of Period							Scheduled	Scheduled		Int. Dump	
			<b>141.72</b>						<b>2.30</b>	<b>2.30</b>					
45	11/20/02 08:00	11/21/02 09:59	25.98	SR:IK3:PS failure [OTH]	104383		11/21/02 09:59	11/21/02 10:17	0.30	0.30	Other	Other	Other	Store Lost	S:IK3:PS DAC voltage dropped to half of it's setpoint [Other]
46	11/21/02 10:17	11/22/02 09:45	23.47	2ID PSS trip [ES/Intlk]			11/22/02 09:45	11/22/02 10:44	0.98						
					104384		11/22/02 09:45	11/22/02 10:11		0.43	ES/Intlk	Intlk/Beamline	ES	Store Lost	2ID PSS trip tripped dipole and RF systems [ES/Intlk]
					104384		11/22/02 10:11	11/22/02 10:44		0.55	Unidentified	Unidentified	Unidentified	Inhibits Beam to User	Two additional beam losses from unknown beam motion [Unknown]
48	11/22/02 10:44	11/23/02 11:01	24.28	S39A:Q4 trip [ES/PS]	104385		11/23/02 11:01	11/23/02 11:56	0.92	0.92	ES/PS	PS	ES	Store Lost	S39A:Q4 trip & swap-out of the converter [ES/PS]
49	11/23/02 11:56	11/27/02 23:59	108.05	Int Dump: End of Period			11/27/02 23:59	11/27/02 23:59	0.00	0.00	Scheduled	Scheduled		Int. Dump	
			<b>181.78</b>						<b>2.20</b>	<b>2.20</b>					
50	11/29/02 08:00	11/30/02 16:14	32.23	RF2 HVPS trip [RF]	104388		11/30/02 16:14	11/30/02 17:18	1.07	1.07	RF	RF	RF	Store Lost	RF2 trips and adjustment of circulator TCU bias.
51	11/30/02 17:18	12/03/02 08:00	62.70	Int Dump: End of Period			12/03/02 07:59	12/03/02 07:59	0.00	0.00	Scheduled	Scheduled		Int. Dump	
			<b>94.93</b>						<b>1.07</b>	<b>1.07</b>					
52	12/03/02 16:00	12/09/02 07:59	135.98	Int Dump: End of Period			12/09/02 07:59	12/09/02 07:59	0.00	0.00	Scheduled	Scheduled		Int. Dump	
			<b>135.98</b>						<b>0.00</b>	<b>0.00</b>					
					104392		12/11/02 08:00	12/11/02 08:08	0.13	0.13	OPS	OPS	OPS	Inhibits Beam to User	Lost beam when closing RTFB loops
55	12/11/02 08:08	12/18/02 14:04	173.93	Power supply [PS]	104391		12/18/02 14:04	12/18/02 14:25	0.35	0.35	ES/PS	PS	ES	Store Lost	SR Raw Supply problem caused correctors in S20 and S22 to trip [ES/PS]
70	12/18/02 14:25	12/19/02 23:59	33.57	Int Dump: End of Period			12/19/02 23:59	12/19/02 23:59	0.00	0.00	Scheduled	Scheduled		Int. Dump	
			<b>207.50</b>						<b>0.48</b>	<b>0.48</b>					