

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.1	Machine Intervention	9/25/07 8:00	9/25/07 10:13		2.22		Maintenance activities & RF Conditioning
2007-3.1	Machine Intervention	9/25/07 12:04	9/25/07 15:04		3.00		Maintenance activities & RF Conditioning
2007-3.1	Machine Intervention	9/28/07 11:42	9/28/07 14:24		2.70		Maintenance activities
2006-3.1	Downtime DIN#105307	9/28/07 0:44	9/28/07 2:00	1.27			S32B-Q2:PS trip (PS)
TOTAL				1.27	7.92	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.2	Machine Intervention	10/9/07 8:00	10/9/07 10:24		2.40		Maintenance activities
TOTAL				0.00	2.40	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.3	Machine Intervention	10/16/07 8:00	10/16/07 13:40		5.67		Maintenance activities
TOTAL				0.00	5.67	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.4	Machine Intervention	10/22/07 8:00	10/22/07 13:18		5.30		Maintenance activities
TOTAL				0.00	5.30	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.5	Machine Intervention	10/30/07 9:36	10/30/07 11:36		2.00		Maintenance activities
TOTAL				0.00	2.00	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2006-3.6	Downtime DIN#105323	11/6/07 14:25	11/6/07 14:44	0.32			PAR RF trip (RF)
2007-3.6	Machine Intervention	11/6/07 9:03	11/6/07 9:31		0.47		Investigate S36/C3 thermocouple
2007-3.6	Machine Intervention	11/6/07 10:30	11/6/07 11:00		0.50		reboot iocs40fb
TOTAL				0.32	0.97	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.7	Machine Intervention	11/12/07 8:00	11/12/07 12:54		4.90		Maintenance activities
2007-3.7	Training	11/12/07 11:00	11/12/07 13:00			2.00	Linac
2007-3.7	Training	11/13/07 07:00	11/13/07 09:00			2.00	Linac
TOTAL				0.00	4.90	4.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.8	Machine Intervention				0.00		
TOTAL				0.00	0.00	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.9	Machine Intervention	11/27/07 8:00	11/27/07 12:45		4.75		Maintenance activities
2007-3.9	Training	11/27/07 10:15	11/27/07 11:00			0.75	Linac
TOTAL				0.00	4.75	0.75	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.10	Machine Intervention	12/4/07 8:56	12/4/07 11:24		2.47		Maintenance activities
2007-3.10	Training	12/04/07 08:50	12/04/07 13:07			4.28	Linac
TOTAL				0.00	2.47	4.28	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.11	Machine Intervention	12/11/07 8:52	12/11/07 16:14		7.37		Maintenance activities
2007-3.11	Training	12/11/07 09:00	12/11/07 10:50			1.83	Linac

TOTAL				0.00	7.37	1.83	
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Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2007-3.12	Machine Intervention				0.00		
TOTAL				0.00	0.00	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.1	Training	01/22/08 10:00	01/22/08 12:00			2.00	Linac
2008-1.1	Training	01/23/08 07:00	01/23/08 09:00			2.00	Linac
2008-1.1	Training	01/24/08 07:00	01/24/08 09:00			2.00	Linac
2008-1.1	Machine Intervention	1/24/08 7:00	1/24/08 12:00		5.00		Maintenance activities
2008-1.1	Training	01/25/08 07:30	01/25/08 08:59			1.48	Linac
2008-1.1	Downtime DIN#105348	1/25/08 9:00	1/25/08 10:00	1.00			L5 RF troubleshooting/ repairs (RF)
2008-1.1	Machine Intervention	1/25/08 7:30	1/25/08 10:00		2.50		Maintenance activities
2008-1.1	Downtime DIN#105349	1/26/08 19:52	1/26/08 21:10	1.30			S15B:Q4:PS (PS)
2008-1.1	Training	01/28/08 07:00	01/28/08 09:00			2.00	Linac
2008-1.1	Downtime DIN#105350	1/29/08 4:10	1/29/08 5:17	1.12			S14B:Q5:PS (PS)
TOTAL				3.42	7.50	9.48	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.2	Machine Intervention	2/5/08 9:17	2/5/08 10:57		1.67		Maintenance activities
TOTAL				0.00	1.67	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.3	Machine Intervention	2/11/08 9:00	2/11/08 13:30		4.50		Maintenance activities
2008-1.3	Training	02/11/08 20:00	02/11/08 22:00			2.00	Linac/PAR
2008-1.3	Training	02/12/08 18:00	02/12/08 20:00			2.00	Linac/PAR
TOTAL				0.00	4.50	4.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.4	Machine Intervention	2/19/08 8:49	2/19/08 13:30		4.68		Maintenance activities
2008-1.4	Downtime DIN#105365	2/19/08 16:15	2/19/08 17:31	1.27			SR RF-2 trip (RF)
2008-1.4	Training	02/19/08 21:00	02/19/08 23:00			2.00	Linac
TOTAL				1.27	4.68	2.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.5	Machine Intervention	2/26/08 8:00	2/26/08 13:07		5.12		Maintenance activities & recovery from Booster/SR acces.
TOTAL				0.00	5.12	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.6	Machine Intervention				0.00		
2008-1.6	Training	03/04/08 11:00	03/04/08 13:00			2.00	Linac/PAR
2008-1.6	Training	03/04/08 11:00	03/04/08 13:00			2.00	Linac/PAR
TOTAL				0.00	0.00	4.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.7	Machine Intervention	3/10/08 9:00	3/10/08 13:18		4.30		Maintenance activities & recovery from SR access
2008-1.7	Downtime DIN#105371	3/10/08 13:18	3/10/08 14:30	1.20			S28B:Q1:PS and S2A:S3:PS (PS)
2008-1.7	Downtime DIN#105372	3/11/08 15:52	3/11/08 17:25	1.55			SR RF-4 kalmus amplifier failure (RF)
2008-1.7	Training	03/11/08 13:00	03/11/08 14:00			1.00	PAR
2008-1.7	Downtime DIN#105373	3/11/08 20:28	3/11/08 23:36	3.13			SR RF-4 kalmus amplifier failure (RF)
TOTAL				5.88	4.30	1.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.8	Machine Intervention	3/18/08 16:03	3/18/08 16:40		0.62		FR4 kalmus replacement & revalidator

TOTAL				0.00	0.62	0.00	
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Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.9	Machine Intervention	3/24/08 9:00	3/24/08 12:30		3.50		Maintenance activities & recovery from SR access
2008-1.9	Downtime DIN#105378	3/24/08 12:30	3/26/08 8:00	43.50			RF5 coupler repair & conditioning (RF)
2008-1.9	Training	03/24/08 23:40	03/25/08 03:00			3.33	PAR
2008-1.9	Training	03/25/08 20:15	03/25/08 22:30			2.25	PAR
2008-1.9	Training	03/26/08 00:02	03/26/08 05:10			5.13	PAR
TOTAL				43.50	3.50	10.72	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.10	Machine Intervention	4/8/08 9:00	4/8/08 11:00		2.00		Maintenance activities
2008-1.10	Downtime DIN#105384	4/8/08 11:00	4/8/08 11:30	0.50			S:IK2:PS repairs (PS)
2008-1.10	Training	04/08/08 12:45	04/08/08 14:27			1.70	PAR
TOTAL				0.50	2.00	1.70	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.11	Machine Intervention	4/16/08 9:00	4/16/08 12:51		3.85		Maintenance activities & recovery from SR access
2008-1.11	Training	04/16/08 13:00	04/16/08 14:00			1.00	PAR
TOTAL				0.00	3.85	1.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-1.12	Machine Intervention				0.00		
TOTAL				0.00	0.00	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-2.1	Downtime DIN#105388	6/3/08 15:32	6/3/08 19:22	3.83			B:ES2 EMI supply repairs (PS)
2008-2.1	Training	06/04/08 00:42	06/04/08 02:05			1.38	PAR
2008-2.1	Downtime DIN#105389	6/4/08 9:32	6/5/08 16:56	31.40			S40 cav. 2 coupler issue (RF)
2008-2.1	Training	06/06/08 02:45	06/06/08 04:00			1.25	PAR
2008-2.1	Training	06/07/08 02:28	06/07/08 04:23			1.92	PAR
2008-2.1	Training	06/08/08 03:40	06/08/08 05:33			1.88	PAR
2008-2.1	Training	06/09/08 02:33	06/09/08 04:07			1.57	PAR
TOTAL				35.23	0.00	8.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-2.2	Machine Intervention	6/17/08 9:50	6/17/08 12:06		2.27		Maintenance activities
TOTAL				0.00	2.27	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-2.3	Downtime DIN#105397	6/24/08 8:00	6/24/08 15:30	7.50			S:IK4 repairs (PS)
2008-2.3	Training	06/24/08 12:04	06/24/08 13:15			1.18	PAR
2008-2.3	Downtime DIN#105398	6/24/08 18:55	6/24/08 19:50	0.92			Network storm (CTL)
TOTAL				8.42	0.00	1.18	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-2.4	Machine Intervention	7/3/08 10:23	7/3/08 11:50		1.45		Maintenance activities
2008-2.4	Downtime DIN#105411	7/6/08 23:40	7/7/08 0:37	0.95			S2B:Q3:PS trip & swap (PS)
TOTAL				0.95	1.45	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2008-2.5	Machine Intervention	7/15/08 9:05	7/15/08 12:00		2.92		Maintenance activities
2008-2.5	Downtime DIN#105414	7/15/08 19:52	7/16/08 0:18	4.43			S:BM repairs (PS)
TOTAL				4.43	2.92	0.00	

MACHINE STUDIES DOWNTIME FROM 7/3 TO 7/30

2008-2.7	Downtime DIN#105416	7/29/08 17:02	7/29/08 18:02	1.00		S20A:Q2:PS swap (PS)
2008-2.7	Downtime DIN#105416	7/29/08 18:14	7/29/08 19:52	1.63		S18A:Q4:PS trip & swap (PS)