

FY 2013 Machine Studies Breakdown

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.1 Machine Intervention	9/27/2012 7:42	9/27/2012 13:21		5.65		Access SR Zone B, E & F
2012-1.1 Downtime DINR105905	9/25/2012 9:42	9/25/2012 12:09	2.38			Geopac SR 30-31, RF4 phase loop (PS & RF)
2012-1.1 Downtime DINR105906	9/25/2012 15:23	9/25/2012 16:00	0.63			S168-Q2 converter swap (PS)
2012-1.1 Downtime DINR105908	10/9/2012 0:06	10/9/2012 2:07	2.12			Network storm (IT)
TOTAL			5.13	5.65	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.2 Machine Intervention	10/8/2012 9:32	10/8/2012 11:58		2.43		Access SR Zone A & F
2012-1.2 Downtime DINR105913	10/9/2012 2:56	10/9/2012 2:49	0.93			S278-Q3 converter swap (PS)
2012-1.2 Downtime DINR105914	10/9/2012 12:56	10/9/2012 14:30	1.77			S8A-Q1 converter swap & DAC card issue (PS)
TOTAL			2.68	2.43	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.3 Machine Intervention	10/16/2012 9:30	10/16/2012 11:52		2.37		Maintenance activities
TOTAL			0.00	2.37	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.4 Machine Intervention	10/23/2012 9:54	10/23/2012 13:22		4.53		Maintenance activities
2012-1.4 Downtime DINR105931	10/24/2012 1:20	10/24/2012 2:18	0.97			S37A-Q3 converter swap (PS)
TOTAL			0.97	4.53	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.5 Machine Intervention	10/29/2012 9:11	10/29/2012 14:49		5.63		Maintenance activities
2012-1.5 Downtime DINR105933	10/29/2012 14:38	10/29/2012 15:38	1.14			Booster main ramp issue (PS)
TOTAL			1.14	5.63	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.6 Machine Intervention	11/6/2012 9:30	11/6/2012 13:30		4.00		Maintenance activities
2012-1.6 Downtime DINR105933	11/6/2012 13:30	11/6/2012 13:50	0.42			SR study delay due to B-US (PS)
TOTAL			0.42	4.00	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.7 Machine Intervention	11/12/2012 9:25	11/12/2012 14:22		4.75		Maintenance activities, access SR Zone F
2012-1.7 Downtime DINR105941	11/12/2012 8:00	11/12/2012 8:38	0.47			Recovering from RF3 trip (RF)
TOTAL			0.47	4.75	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.8 Machine Intervention	11/22/2012 14:55	11/22/2012 16:05		1.83		S15A-Q1 converter swap (PS)
TOTAL			1.83	0.00	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.9 Machine Intervention	11/27/2012 9:10	11/27/2012 14:58		5.80		Maintenance activities, access SR Zone F
TOTAL			0.00	5.80	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.10 Machine Intervention	12/4/2012 9:16	12/4/2012 12:40		3.42		Maintenance activities
TOTAL			0.00	3.42	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2012-1.11 Machine Intervention	12/11/2012 9:18	12/11/2012 11:42		2.40		Maintenance activities, access SR Zone F
TOTAL			0.00	2.40	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.1 Downtime DINR105957	1/22/2013 9:37	1/22/2013 11:27	2.17			Network issues (IT)
2013-1.1 Machine Intervention	1/24/2013 8:38	1/24/2013 10:34		1.85		Maintenance activities, access SR Zone A & F
2013-1.1 Training	1/24/2013 8:53	1/24/2013 10:53			2.00	Linac operator training
2013-1.1 Downtime DINR105958	1/25/2013 18:55	1/25/2013 20:22	1.45			Stored beam dump (OPS)
2013-1.1 Downtime DINR105960	1/25/2013 22:58	1/26/2013 1:24	2.52			SR3 trip & repairs (PS)
2013-1.1 Downtime DINR105961	1/26/2013 2:51	1/26/2013 8:23	5.53			Input-Output ACIS module failed for SR Zone B BSS (CTL)
2013-1.1 Downtime DINR105962	1/26/2013 12:47	1/26/2013 14:17	1.50			Failed fuse at B-S0 (PS)
2013-1.1 Downtime DINR105963	1/27/2013 16:55	1/27/2013 17:34	0.65			SR RF-3 fault (RF)
TOTAL			13.82	1.85	2.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.2 Machine Intervention	2/5/2013 9:16	2/5/2013 14:09		4.82		Maintenance activities, access SR Zone D
TOTAL			0.00	4.82	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.3 Machine Intervention	2/12/2013 9:10	2/12/2013 12:53		3.72		Maintenance activities, access SR Zone E
2013-1.3 Training	2/12/2013 12:53	2/12/2013 15:04			2.18	Linac operator training
TOTAL			0.00	3.72	2.18	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.4 Machine Intervention	2/19/2013 9:10	2/19/2013 13:22		4.20		Maintenance activities, injector access
TOTAL			0.00	4.20	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.5 Machine Intervention	2/25/2013 9:09	2/25/2013 13:40		4.52		Maintenance activities, access SR Zone F
2013-1.5 Training	2/25/2013 9:55	2/25/2013 11:58			2.05	Linac operator training
TOTAL			0.00	4.52	2.05	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.6 Machine Intervention	3/5/2013 9:15	3/5/2013 13:00		3.75		Maintenance activities, access SR Zone A
TOTAL			0.00	3.75	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.7 Machine Intervention	3/11/2013 9:32	3/11/2013 14:10		4.63		Maintenance activities, access SR Zone A-C & F
2013-1.7 Training	3/11/2013 15:08	3/11/2013 17:08			2.00	Linac operator training
TOTAL			0.00	4.63	2.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.8 Machine Intervention	3/19/2013 9:34	3/19/2013 12:02		2.47		Maintenance activities, access SR Zone D
2013-1.8 Training	3/19/2013 9:24	3/19/2013 11:27			2.05	Linac operator training
TOTAL			0.00	2.47	2.05	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.9 Machine Intervention	3/26/2013 9:12	3/26/2013 11:57		2.75		Maintenance activities
TOTAL			0.00	2.75	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.10 Machine Intervention	4/2/2013 9:17	4/2/2013 11:45		2.47		Maintenance activities
2013-1.10 Training	4/2/2013 12:20	4/2/2013 14:00			1.67	Linac operator training
TOTAL			0.00	2.47	1.67	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.11 Machine Intervention	4/9/2013 9:34	4/9/2013 11:00		1.43		Maintenance activities
TOTAL			0.00	1.43	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.12 Machine Intervention	4/16/2013 9:29	4/16/2013 11:42		2.22		Maintenance activities
TOTAL			0.00	2.22	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-1.13 Machine Intervention	4/25/2013 4:54	4/25/2013 7:21		2.45		S8B-Q2 fault (PS)
TOTAL			2.45	0.00	0.00	

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-2.1 Downtime DINR105992	5/27/2013 8:49	5/27/2013 13:20	4.62			S38 RF cavity #2 coupler (RF)
2013-2.1 Machine Intervention	5/28/2013 8:28	5/28/2013 11:24		2.93		Zone F access by MOM to install cooling on S37 scraper
TOTAL			4.62	2.93	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-2.2	Machine Intervention	6/4/2013 9:21	6/4/2013 13:36		4.15		Zone F & B access
TOTAL				0.00	4.15	0.00	
2013-2.3	Machine Intervention	6/11/2013 12:00	6/11/2013 12:38		0.63		Recovery after Linac access
2013-2.3	Training	6/11/2013 13:30	6/11/2013 14:57			1.45	PAR operator training
TOTAL				0.00	0.63	1.45	
2013-2.4	Machine Intervention	6/18/2013 9:44	6/18/2013 12:02		2.30		Zone F access
TOTAL				0.00	2.30	0.00	
2013-2.5	Downtime DIN#105992	6/25/2013 8:05	6/26/2013 8:00	23.08			S37 scraper vacuum leak (MOM)
2013-2.5	Machine Intervention	6/25/2013 8:05	6/25/2013 10:44		2.65		Controlled access in SR zone A, D, and F
2013-2.5	Training	6/25/2013 9:36	6/25/2013 10:38			1.00	Linac operator training
TOTAL				23.08	2.65	1.00	
2013-2.6	Machine Intervention	7/5/2013 4:45	7/5/2013 7:03		2.30		Zone F access
TOTAL				0.00	2.30	0.00	
2013-2.7	Machine Intervention	7/9/2013 9:38	7/9/2013 11:16		1.53		Zone F access
TOTAL				0.00	1.53	0.00	
2013-2.8	Machine Intervention	7/16/2013 10:02	7/16/2013 11:51		1.82		Zone F access
TOTAL				0.00	1.82	0.00	
2013-2.9	Machine Intervention	7/22/2013 9:11	7/22/2013 12:00		2.48		Maintenance activities
2013-2.9	Downtime DIN#106035	7/22/2013 8:34	7/23/2013 8:38	4.40			H#3 trip, S37A, S38 power supply (RF & PS)
2013-2.9	Training	7/22/2013 10:30	7/22/2013 12:24			1.90	Linac operator training
2013-2.9	Training	7/22/2013 12:24	7/22/2013 13:57			1.55	PAR operator training
2013-2.9	Training	7/23/2013 8:39	7/23/2013 9:40			1.02	PAR operator training
2013-2.9	Training	7/23/2013 9:46	7/23/2013 10:56			1.27	Linac operator training
TOTAL				4.40	2.48	5.73	
2013-2.10	Machine Intervention	7/30/2013 9:00	7/30/2013 12:00		3.00		Maintenance activities
2013-2.10	Training	7/30/2013 10:58	7/30/2013 12:00			1.03	Linac operator training
TOTAL				0.00	3.00	1.03	
2013-2.11	Machine Intervention	8/6/2013 9:30	8/6/2013 11:15		2.03		Maintenance activities
2013-2.11	Training	8/6/2013 10:15	8/6/2013 13:15			3.00	Linac operator training
TOTAL				0.00	2.03	3.00	
2013-2.12	Machine Intervention	8/13/2013 9:22	8/13/2013 11:59		2.62		Maintenance activities
2013-2.12	Downtime DIN#106035	8/13/2013 15:28	8/13/2013 15:52	0.38			H#4 HCC (RF)
2013-2.12	Training	8/14/2013 0:00	8/14/2013 2:16			2.27	PAR operator training
TOTAL				0.38	2.62	2.27	
2013-2.13	Downtime DIN#106050	8/21/2013 9:05	8/21/2013 10:04	1.07			S30B H#3 (PS)
TOTAL				1.07	0.00	0.00	