

FY 2014 Machine Studies Breakdown

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2013-3.1	Machine Intervention	9/26/2013 7:45	9/26/2013 12:00		4.18		Maintenance activities, Access SR Zone A & C
2013-3.1	Downtime DINF106051	9/25/2013 18:21	9/25/2013 22:10	3.92			SR power supply issues (PS)
2013-3.1	Training	9/26/2013 12:04	9/26/2013 14:02		1.97		Booster operator training
2013-3.1	Downtime DINF106052	9/27/2013 7:00	9/27/2013 7:52	0.92			SR process water pump trip (MOM)
2013-3.1	Training	9/27/2013 17:05	9/27/2013 19:00		2.00		Linac operator training
2013-3.1	Downtime DINF106052	10/1/2013 6:39	10/1/2013 8:00	1.35			SR power supply (PS), Linac modulator (RF)
TOTAL				6.08	4.18	3.97	
2013-3.2	Machine Intervention	10/8/2013 9:26	10/8/2013 10:44		1.33		Maintenance activities, Access Linac & SR Zone F
2013-3.2	Downtime DINF106061	10/8/2013 22:13	10/8/2013 21:28	0.17			SR IOC computer/alignment logs (CTL)
TOTAL				0.17	1.33	0.00	
2013-3.3	Machine Intervention	10/15/2013 9:30	10/15/2013 12:34		3.07		Maintenance activities, Booster access
2013-3.3	Downtime DINF106064	10/15/2013 18:32	10/15/2013 19:48	1.60			SR process water pump trip (MOM)
2013-3.3	Training	10/15/2013 13:00	10/15/2013 15:01		2.00		Booster operator training
TOTAL				1.60	3.07	2.00	
2013-3.4	Downtime DINF106069	10/22/2013 8:00	10/22/2013 13:53	5.88			S12 water leak recovery (MOM)
2013-3.4	Training	10/22/2013 20:17	10/22/2013 21:52		1.58		Booster operator training
TOTAL				5.88	0.00	1.58	
2013-3.5	Machine Intervention	10/28/2013 9:40	10/28/2013 13:00		3.33		Maintenance activities, access zone D & Booster
2013-3.5	Training	10/28/2013 19:45	10/28/2013 22:16		2.52		Booster operator training
2013-3.5	Training	10/29/2013 17:04	10/29/2013 19:57		2.88		Booster operator training
2013-3.5	Downtime DINF106073	10/30/2013 5:37	10/30/2013 8:08	2.55			L1 tripped on water flow (MOM)
TOTAL				2.55	3.33	5.40	
2013-3.6	Machine Intervention	11/5/2013 9:30	11/5/2013 13:44		4.23		Maintenance activities
TOTAL				0.00	4.23	0.00	
2013-3.7	Machine Intervention	11/11/2013 9:31	11/11/2013 15:16		5.75		Maintenance activities, access zone E & F
2013-3.7	Training	11/12/2013 9:40	11/12/2013 9:40		1.50		Injector operator training
TOTAL				0.00	5.75	1.50	
2013-3.8	Machine Intervention	11/19/2013 9:27	11/19/2013 12:00		2.55		Maintenance activities
2013-3.8	Downtime DINF106085	11/19/2013 14:37	11/19/2013 15:17	1.00			L2-QMS-PS issue (PS)
2013-3.8	Training	11/20/2013 2:16	11/20/2013 4:17		1.98		Injector operator training
TOTAL				1.00	2.55	1.98	
2013-3.9	Training	11/28/2013 21:00	11/28/2013 23:00		2.00		Booster operator training
TOTAL				0.00	0.00	2.00	
2013-3.10	Machine Intervention	12/3/2013 9:58	12/3/2013 13:54		4.00		Maintenance activities
2013-3.10	Downtime DINF106099	12/4/2013 2:52	12/4/2013 3:28	0.93			SR BPM computer/alignment logs (CTL)
TOTAL				0.93	4.00	0.00	
2013-3.11	Machine Intervention	12/10/2013 9:30	12/10/2013 13:04		3.57		Maintenance activities, access zone E & F
2013-3.11	Training	12/10/2013 13:47	12/10/2013 12:47		1.00		SR operator training
2013-3.11	Downtime DINF106102	12/10/2013 15:21	12/10/2013 16:35	3.23			RF2 kicker power supply (PS)
TOTAL				3.23	3.57	1.00	
2013-3.12	Training	12/17/2013 0:10	12/17/2013 1:24		1.23		SR operator training
2013-3.12	Training	12/17/2013 13:45	12/17/2013 14:43		1.00		Injector operator training
2013-3.12	Downtime DINF106105	12/17/2013 18:26	12/17/2013 22:00	3.57			SR RF3 (PS), WB1 Stop (S)
TOTAL				3.57	0.00	2.23	
2014-1.1	Training	1/21/2014 13:00	1/21/2014 15:00		2.00		Linac operator training
2014-1.1	Downtime DINF106106	1/21/2014 22:50	1/22/2014 0:29	1.65			L1 interlock trip (MOM)
2014-1.1	Downtime DINF106107	1/22/2014 13:01	1/22/2014 18:55	1.87			Issue with QCS25NP (CTL)
2014-1.1	Machine Intervention	1/23/2014 8:18	1/23/2014 11:16		2.97		Access zone F
2014-1.1	Downtime DINF106108	1/23/2014 14:42	1/23/2014 15:30	0.80			RF3 issue (RF)
2014-1.1	Training	1/23/2014 13:00	1/23/2014 15:00		2.00		Injector operator training
2014-1.1	Training	1/24/2014 1:23	1/24/2014 3:45		2.37		Linac operator training
2014-1.1	Training	1/25/2014 12:57	1/25/2014 18:00		5.05		Injector operator training
2014-1.1	Training	1/26/2014 9:03	1/26/2014 12:50		3.78		Injector operator training
2014-1.1	Training	1/27/2014 7:43	1/27/2014 11:34		3.78		Injector operator training
2014-1.1	Downtime DINF106109	1/27/2014 18:00	1/27/2014 11:28	1.47			RF4 issue (RF)
TOTAL				5.78	2.97	18.98	
2014-1.2	Machine Intervention	2/4/2014 9:32	2/4/2014 13:55		4.38		maintenance activities, access zone B, C
2014-1.2	Downtime DINF106117	2/4/2014 19:26	2/4/2014 20:37	1.18			RF3 issue (RF)
2014-1.2	Training	2/4/2014 21:54	2/4/2014 22:23		1.48		Linac operator training
2014-1.2	Training	2/5/2014 5:10	2/5/2014 6:40		1.50		Booster operator training
TOTAL				1.18	4.38	2.98	
2014-1.3	Machine Intervention	2/11/2014 9:02	2/11/2014 11:00		1.97		maintenance activities, access zone B
2014-1.3	Downtime DINF106119	2/11/2014 13:08	2/11/2014 16:04	5.53			MOM, RF3, PS
2014-1.3	Downtime DINF106120	2/11/2014 18:00	2/11/2014 20:00	2.00			RF3 issue (RF)
TOTAL				7.57	1.97	0.00	
2014-1.4	Machine Intervention	2/18/2014 9:25	2/18/2014 11:00		1.58		maintenance activities, access zone F
2014-1.4	Downtime DINF106125	2/18/2014 13:06	2/18/2014 19:38	8.30			network storm (CTL), failed fuse in ACS panel (S)
TOTAL				8.30	1.58	0.00	
2014-1.5	Machine Intervention	2/24/2014 9:30	2/24/2014 12:30		3.00		maintenance activities, access zone B, Linac/PAR
2014-1.5	Downtime DINF106130	2/24/2014 12:30	2/24/2014 15:46	3.27			Linac access (ADP), IT issues (IT)
2014-1.5	Downtime DINF106131	2/24/2014 19:38	2/24/2014 22:39	3.02			Slow BCL/workstation issues (IT)
2014-1.5	Training	2/25/2014 3:26	2/25/2014 5:32		2.10		Linac operator training
2014-1.5	Training	2/25/2014 7:01	2/25/2014 8:45		1.73		Linac operator training
TOTAL				6.28	3.00	3.83	
2014-1.6	Machine Intervention	3/4/2014 9:00	3/4/2014 12:02		3.22		maintenance activities, access zone F, E
2014-1.6	Training	3/4/2014 13:00	3/4/2014 14:00		1.00		Booster operator training
2014-1.6	Training	3/4/2014 11:30	3/4/2014 13:00		1.50		Linac operator training
2014-1.6	Training	3/14/2014 17:00	3/14/2014 18:30		1.50		SR operator training
TOTAL				0.00	3.22	4.00	
2014-1.7	Machine Intervention	3/11/2014 9:12	3/11/2014 12:07		2.92		maintenance activities, access zone F, B
2014-1.7	Training	3/11/2014 18:00	3/11/2014 19:49		1.82		Linac operator training
2014-1.7	Training	3/11/2014 2:33	3/11/2014 5:30		2.95		Booster operator training
TOTAL				0.00	2.92	4.77	
2014-1.8	Machine Intervention	3/18/2014 9:24	3/18/2014 12:23		2.88		maintenance activities, access zone A
2014-1.8	Training	3/18/2014 13:52	3/18/2014 14:34		0.70		Booster operator training
TOTAL				0.00	2.88	0.70	
2014-1.9	Machine Intervention	3/24/2014 9:20	3/24/2014 13:34		4.23		maintenance activities, access zone F
2014-1.9	Training	3/24/2014 13:18	3/24/2014 16:04		0.82		Linac operator training
2014-1.9	Training	3/24/2014 12:30	3/24/2014 13:58		1.47		Linac operator training
2014-1.9	Training	3/24/2014 15:00	3/24/2014 17:00		2.00		Booster operator training

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-1-9 Training	3/25/2014 4:34	3/25/2014 6:24			2.00
2014-1-9 Training	3/25/2014 10:42	3/25/2014 12:04			1.30
2014-1-9 Training	3/25/2014 20:28	3/25/2014 22:03			1.58
2014-1-9 Training	3/26/2014 4:35	3/26/2014 5:52			1.28
TOTAL			0.00		4.23

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-1-10 Machine Intervention	4/1/2014 9:11	4/1/2014 12:03		2.83	
2014-1-10 Downtime DINP06144	4/1/2014 12:00	4/1/2014 13:28	1.47		
2014-1-10 Downtime DINP06145	4/1/2014 17:24	4/1/2014 18:04	0.67		
2014-1-10 Training	4/2/2014 4:30	4/2/2014 5:21			0.83
2014-1-10 Downtime DINP06145	4/2/2014 6:25	4/2/2014 8:05	1.65		
TOTAL			3.78	2.83	0.83

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-1-11 Machine Intervention	4/8/2014 9:33	4/8/2014 11:00		1.45	
2014-1-11 Training	4/8/2014 10:35	4/8/2014 11:45			3.25
2014-1-11 Training	4/8/2014 13:37	4/8/2014 14:08			0.43
2014-1-11 Training	4/8/2014 21:10	4/8/2014 22:33			1.42
TOTAL			0.00	1.45	3.10

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-1-12 Machine Intervention	4/15/2014 9:11	4/15/2014 12:24		3.22	
2014-1-12 Training	4/15/2014 15:11	4/15/2014 17:04			1.83
2014-1-12 Training	4/16/2014 4:43	4/16/2014 6:34			1.85
TOTAL			0.00	3.22	3.67

Downtime DINP06216	7/29/2014 15:27	7/29/2014 15:55	0.47		
Downtime DINP06229	8/12/2014 11:36	8/12/2014 14:38	3.13		
Downtime DINP06230	8/12/2014 16:03	8/12/2014 16:36	0.55		
Downtime DINP06231	8/12/2014 18:07	8/12/2014 19:48	1.63		
Downtime DINP06232	8/12/2014 19:54	8/12/2014 21:49	1.52		
Downtime DINP06234	8/19/2014 9:37	8/19/2014 11:48	2.18		
Downtime DINP06235	8/19/2014 13:04	8/19/2014 14:07	1.12		
Downtime DINP06236	8/19/2014 22:14	8/19/2014 23:24	1.17		
Downtime DINP06239	8/26/2014 10:00	8/26/2014 10:58	0.98		

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-1 Downtime DINP06151	5/22/2014 10:52	5/22/2014 13:25	2.55		
2014-2-1 Downtime DINP06152	5/22/2014 19:37	5/22/2014 20:45	1.13		
2014-2-1 Training	5/23/2014 0:05	5/23/2014 3:45			3.67
2014-2-1 Training	5/23/2014 7:24	5/23/2014 9:05			1.68
2014-2-1 Downtime DINP06153	5/23/2014 17:08	5/23/2014 17:46	32.27		
2014-2-1 Training	5/26/2014 0:00	5/26/2014 2:00			2.00
2014-2-1 Downtime DINP06154	5/26/2014 9:14	5/26/2014 13:40	4.43		
2014-2-1 Training	5/27/2014 21:05	5/28/2014 1:05	40.38		2.00
TOTAL			0.00		9.35

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-2 Machine Intervention	6/3/2014 9:19	6/3/2014 12:30		3.18	
2014-2-2 Downtime DINP06158	6/3/2014 12:30	6/3/2014 18:31	6.02		
2014-2-2 Training	6/3/2014 11:15	6/3/2014 12:30			1.25
TOTAL			6.02	3.18	1.25

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-3 Machine Intervention	6/10/2014 9:33	6/10/2014 16:16		6.72	
2014-2-3 Downtime DINP06165	6/10/2014 19:36	6/10/2014 21:35	2.08		
2014-2-3 Training	6/11/2014 4:26	6/11/2014 6:26			2.00
TOTAL			2.08	6.72	2.00

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-4 Machine Intervention	6/17/2014 8:08	6/17/2014 13:04		4.87	
2014-2-4 Downtime DINP06173	6/17/2014 13:00	6/17/2014 14:57	1.95		
2014-2-4 Training	6/17/2014 21:39	6/17/2014 22:39			1.00
TOTAL			1.95	4.87	1.00

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-5 Machine Intervention	6/23/2014 9:50	6/23/2014 12:32		2.67	
2014-2-5 Training	6/24/2014 7:26	6/24/2014 9:00			1.67
TOTAL			0.00	2.67	1.67

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-6 Downtime DINP06190	7/4/2014 8:32	7/4/2014 20:25	11.88		
2014-2-6 Downtime DINP06191	7/6/2014 20:38	7/6/2014 19:46	34.03		
2014-2-6 Training	7/5/2014 11:30	7/5/2014 13:37			2.12
2014-2-6 Training	7/6/2014 11:43	7/6/2014 17:23			1.67
2014-2-6 Machine Intervention	7/7/2014 14:29	7/7/2014 12:23		3.80	
2014-2-6 Training	7/7/2014 10:03	7/7/2014 11:55			1.87
TOTAL			25.92	3.90	5.65

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-7 Machine Intervention	7/14/2014 9:31	7/14/2014 12:15		2.73	
2014-2-7 Downtime DINP06197	7/14/2014 12:13	7/14/2014 13:38	1.02		
2014-2-7 Downtime DINP06198	7/14/2014 14:28	7/14/2014 15:46	1.30		
2014-2-7 Downtime DINP06199	7/15/2014 4:27	7/15/2014 6:36	2.15		
TOTAL			4.47	2.73	0.00

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-8 Machine Intervention	7/22/2014 9:22	7/22/2014 11:48		2.43	
2014-2-8 Downtime DINP06212	7/22/2014 19:16	7/22/2014 20:23	0.95		
2014-2-8 Training	7/22/2014 17:03	7/22/2014 19:03			2.00
2014-2-8 Training	7/23/2014 4:44	7/23/2014 6:32			1.80
TOTAL			0.95	2.43	3.80

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-9 Machine Intervention	7/29/2014 9:32	7/29/2014 11:38		1.80	
2014-2-9 Downtime DINP06216	7/29/2014 15:27	7/29/2014 15:55	0.47		
2014-2-9 Training	7/29/2014 11:25	7/29/2014 12:33			1.13
2014-2-9 Training	7/29/2014 21:11	7/29/2014 22:52			1.58
2014-2-9 Training	7/30/2014 1:14	7/30/2014 5:47			2.52
TOTAL			0.47	1.60	5.23

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-10 Machine Intervention	8/5/2014 9:21	8/5/2014 12:00		2.65	
TOTAL			0.00	2.65	0.00

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-11 Machine Intervention	8/12/2014 9:28	8/12/2014 11:34		2.02	
2014-2-11 Downtime DINP06229	8/12/2014 11:36	8/12/2014 14:38	3.13		
2014-2-11 Downtime DINP06230	8/12/2014 16:03	8/12/2014 16:36	0.55		
2014-2-11 Downtime DINP06231	8/12/2014 18:07	8/12/2014 19:49	1.63		
2014-2-11 Downtime DINP06232	8/12/2014 19:54	8/12/2014 21:49	1.52		
TOTAL			7.23	2.02	0.00

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-12 Machine Intervention	8/19/2014 9:32	8/19/2014 11:48		2.43	
2014-2-12 Downtime DINP06234	8/19/2014 9:37	8/19/2014 11:48	2.18		
2014-2-12 Downtime DINP06235	8/19/2014 13:08	8/19/2014 14:07	1.12		
2014-2-12 Downtime DINP06236	8/19/2014 22:14	8/19/2014 23:26	1.17		
2014-2-9 Training	7/30/2014 3:16	7/30/2014 5:47			2.52
TOTAL			4.47	2.43	2.52

Studies Period	Start Time	Stop Time	Downtime	Machine Intervention	Training
2014-2-13 Downtime DINP06239	8/26/2014 10:00	8/26/2014 10:58	0.98		
TOTAL			0.98	0.00	0.00