

FY 2016 Machine Studies Breakdown

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.1	Machine Intervention	10/1/2015 6:56	10/1/2015 15:56		9.00		Maintenance & controlled access Injector & SR zone E
2015-3.1	Downtime DIN#106362	9/30/2015 7:54	9/30/2015 8:13	0.32			16-ID gap control (CTL)
TOTAL				0.32	9.00	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.2	Machine Intervention	10/13/2015 9:58	10/13/2015 13:54		3.93		Maintenance & controlled access SR zone F
2015-3.2	Downtime DIN#106368	10/14/2015 2:30	10/14/2015 3:47	1.28			RF-4 fault (RF)
TOTAL				1.28	3.93	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.3	Machine Intervention	10/20/2015 9:28	10/20/2015 15:22		5.90		Maintenance & controlled access Linac & Booster
2015-3.3	Downtime DIN#106370	10/20/2015 16:16	10/20/2015 20:21	4.08			RF-4 fault (RF)
TOTAL				4.08	5.90	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.4	Machine Intervention	10/27/2015 8:17	10/27/2015 11:13		2.93		Maintenance activities
TOTAL				0.00	2.93	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.5	Machine Intervention	11/2/2015 9:23	11/2/2015 11:58		2.58		Maintenance activities
2015-3.5	Downtime DIN#106379	11/2/2015 11:59	11/2/2015 12:38	0.65			IOCIN/ITIME reboot (CTL)
TOTAL				0.65	2.58	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.6	Machine Intervention	11/10/2015 9:27	11/10/2015 12:31		3.07		Maintenance activities & controlled access Linac
TOTAL				0.00	3.07	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.7	Machine Intervention	11/17/2015 9:30	11/17/2015 12:34		3.07		Maintenance activities & controlled access SR zone F
2015-3.7	Downtime DIN#106386	11/18/2015 4:56	11/18/2015 8:00	3.07			IOCIN/ITIME reboot (CTL)
TOTAL				3.07	3.07	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.8	Machine Intervention						no machine intervention
TOTAL							

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.9	Machine Intervention	12/1/2015 9:20	12/1/2015 12:59		3.65		Maintenance activities & controlled access Linac
TOTAL				0.00	3.65	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.10	Machine Intervention	12/8/2015 9:08	12/8/2015 12:37		3.48		Maintenance activities & controlled access PAR
TOTAL				0.00	3.48	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.11	Machine Intervention	12/15/2015 9:29	12/15/2015 12:29		3.00		Maintenance activities & controlled access SR zone A & F
TOTAL				0.00	3.00	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-3.12	Machine Intervention						no machine intervention
TOTAL							

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.1	Downtime DIN#106397	1/27/2016 18:35	1/27/2016 19:05	0.50			Zone F & BTS supplies tripped off (CTL)
2016-1.1	Downtime DIN#106398	1/27/2016 14:53	1/27/2016 16:00	1.12			S31B-Q3 trip (PS)
2016-1.1	Machine Intervention	1/28/2016 7:39	1/28/2016 12:36		4.95		Maintenance activities, access SR zone A
2016-1.1	Downtime DIN#106399	1/28/2016 12:36	1/28/2016 16:45	4.95			SR dipole trip & investigation (PS)
2016-1.1	Downtime DIN#106400	1/30/2016 8:36	1/30/2016 10:00	1.40			L2 corrector trip & repairs (PS)
TOTAL				7.97	4.95	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.2	Machine Intervention	2/9/2016 9:35	2/9/2016 13:28		3.88		Maintenance activities & Linac/PAR access
TOTAL				0.00	3.88	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.3	Machine Intervention	2/16/2016 9:29	2/16/2016 12:45		3.27		Maintenance activities, access SR zone D
2016-1.3	Downtime DIN#106407	2/16/2016 17:43	2/16/2016 20:17	3.27			L2:WS1 issue (MOM)
2016-1.3	Downtime DIN#106408	2/16/2016 22:44	2/17/2016 7:15	8.52			L2 RF trip caused by L2:WS1 water flow issue (MOM)
TOTAL				11.78	3.27	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.4	Machine Intervention	2/23/2016 9:28	2/23/2016 12:06		2.63		Maintenance activities, access Linac
2016-1.4	Downtime DIN#106413	2/23/2016 12:06	2/23/2016 13:11	1.08			PAR dipole issue (PS)
TOTAL				1.08	2.63	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.5	Downtime DIN#106414	2/29/2016 8:17	2/29/2016 8:52	0.58			MPS trip (PSC-UES)
2016-1.5	Machine Intervention	2/29/2016 10:00	2/29/2016 13:59		3.98		Maintenance activities
2016-1.5	Machine Intervention	3/1/2016 8:23	3/1/2016 10:59		2.60		Access in SR zone F
TOTAL				0.58	6.58	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.6	Machine Intervention	3/8/2016 9:16	3/8/2016 11:15		1.98		Maintenance activities
TOTAL				0.00	1.98	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.7	Machine Intervention	3/15/2016 9:20	3/15/2016 13:38		4.30		Maintenance activities, access SR zone F
TOTAL				0.00	4.30	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.8	Machine Intervention	3/22/2016 9:04	3/22/2016 12:31		3.45		Maintenance activities, access Booster
TOTAL				0.00	3.45	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.9	Machine Intervention	3/29/2016 9:36	3/29/2016 13:00		3.40		Maintenance activities, access SR zone A & F
TOTAL				0.00	3.40	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.10	Machine Intervention	4/5/2016 9:23	4/5/2016 13:11		3.80		Maintenance activities, access Linac / PAR
TOTAL				0.00	3.80	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.11	Machine Intervention	4/12/2016 9:14	4/12/2016 12:28		3.23		Maintenance activities, access Booster, SR zone C
TOTAL				0.00	3.23	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-1.12	Machine Intervention	4/19/2016 9:27	4/19/2016 13:11		3.73		Maintenance activities
TOTAL				0.00	3.73	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2015-1.13	Machine Intervention						no machine intervention
TOTAL							

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-2.1	Downtime DIN#106443	5/24/2016 7:55	5/24/2016 11:50	3.92			Booster ACIS trip (AES-SI)
2016-2.1	Machine Intervention	5/25/2016 9:15	5/25/2016 13:11		3.93		Maintenance activities, access PAR and SR zone F
2016-2.1	Downtime DIN#106444	5/25/2016 17:23	5/25/2016 19:08	1.75			RF5 tripped due to a roof leak (FMS)
2016-2.1	Downtime DIN#106445	5/29/2016 10:29	5/29/2016 10:50	0.35			L2 trip (RF)
2016-2.1	Downtime DIN#106446	5/29/2016 15:00	5/29/2016 15:20	0.33			L2 trip (RF)
2016-2.1	Downtime DIN#106447	5/30/2016 13:27	5/30/2016 13:52	0.42			L2 trip (RF)
2016-2.1	Downtime DIN#106448	5/30/2016 15:56	5/30/2016 16:16	0.33			L2 trip (RF)
2016-2.1	Downtime DIN#106449	5/31/2016 2:48	5/31/2016 3:08	0.33			L2 trip (RF)
2016-2.1	Downtime DIN#106450	5/31/2016 3:59	5/31/2016 4:19	0.33			L2 trip (RF)
2016-2.1	Downtime DIN#106451	5/31/2016 23:20	5/31/2016 23:44	0.40			L2 trip (RF)
TOTAL				8.17	3.93	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-2.2	Machine Intervention	6/6/2016 9:16	6/6/2016 12:41		3.42		Maintenance activities, access Linac/PAR
2016-2.2	Downtime DIN#106470	6/7/2016 7:00	6/7/2016 7:44	0.73			S40B:V4 issue (PS)
TOTAL				0.73	3.42	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-2.3	Machine Intervention	6/13/2016 9:14	6/13/2016 14:05		4.85		Maintenance activities, access Linac/PAR
2016-2.3	Downtime DIN#106476	6/13/2016 14:26	6/13/2016 15:05	0.65			L2 trip (RF)
2016-2.3	Downtime DIN#106477	6/13/2016 13:30	6/13/2016 14:05	0.58			Injector tuneup (AOP)
2016-2.3	Downtime DIN#106478	6/13/2016 17:14	6/13/2016 17:35	0.35			L2 trip (RF)
2016-2.3	Downtime DIN#106479	6/13/2016 21:07	6/13/2016 21:29	0.37			L2 trip (RF)
2016-2.3	Downtime DIN#106480	6/13/2016 21:29	6/13/2016 22:07	0.63			Injector tuneup (AOP)
2016-2.3	Downtime DIN#106481	6/14/2016 4:33	6/14/2016 8:10	3.62			BPM IOC repair (DIA)
TOTAL				6.20	4.85	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-2.4	Downtime DIN#106490	6/20/2016 9:28	6/20/2016 9:51	0.38			RF5 issue (RF)
2016-2.4	Machine Intervention	6/20/2016 9:51	6/20/2016 12:33		2.70		Maintenance activities, access zone F
2016-2.4	Downtime DIN#106491	6/20/2016 16:05	6/20/2016 16:36	0.52			L2 trip (RF)
TOTAL				0.90	2.70	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-2.5	Machine Intervention	6/27/2016 9:26	6/27/2016 12:21		2.92		Maintenance activities, access PAR, SR zone A
2016-2.5	Downtime DIN#106496	6/27/2016 14:00	6/27/2016 17:03	3.05			S10B:H4 corrector issue (MOM)
2016-2.5	Downtime DIN#106497	6/28/2016 18:00	6/29/2016 3:56	9.93			Linac RF issue (RF)
TOTAL				12.98	2.92	0.00	

Studies Period		Start Time	Stop Time	Downtime	Machine Intervention	Training	
2016-2.6	Machine Intervention						July 4 th
TOTAL							

