

FY11 NSTX RUN LOG

FY 11 Run started on October 4, 2010

FY 2011 Operation Targets: TBD

Completed: 4.21 run weeks producing 839 plasmas

<u>Date</u>	<u>Run Time (Daily hrs)</u>	<u>Accumulated FY Run Time (hrs)</u>	<u>Accumulated FY Run Weeks (40 hours / week)</u>	<u>Plasma Attempts</u>	<u>Plasma Achieved</u>	<u>Experimental Topics</u>	<u>XP/XMP #</u>
10/4/10	7.99	7.99	0.20	43	40	reduction and detachment studies with impurity seeding and LLD pumping for NSTX-U	XP-1050
10/5/10	7.82	15.81	0.40	41	33	Study of the Parametric Dependence of High-k Turbulence	XP-1037
10/6/10	9.42	25.23	0.63	51	51	Dependence of PLH on Radius and triangularity of the X-point High-kappa Neutral Beam Heated Scenarios with Improved Control and Characterization of intrinsic torque using torque transients	XP-1029 XP-1006 XP-1042
10/7/10	9.56	34.79	0.87	50	47	Investigation of multi-scale turbulence	XP-1038
10/8/10	9.56	44.35	1.11	49	47	M3D-K validation for beam-driven TAE Ohmic H-Mode ETG turbulence isotropy	XP-1015 XP-1039 XP-1070
<u>Week's End</u>		<u>44.35</u>	<u>1.11</u>				
10/11/10	7.74	52.09	1.30	41	40	HHFW Plasma Conditioning	XMP-26
10/12/10	8.7	60.79	1.52	46	46	HHFW Plasma Conditioning	XMP-26
10/13/10	8.53	69.32	1.73	44	43	RF heating at divertor/SOL regions	XP-1017
10/14/10	9.13	78.45	1.96	50	47	L-H power threshold for D and He plasmas using RF Sustained ITBs and H-Mode ITBs	XP-1036 XP-1040
10/15/10	9.38	87.83	2.20	48	47	L-H power threshold for D and He plasmas using RF Joint NSTX_DIII-D poloidal rotation experiment	XP-1036 XP-1041
<u>Week's End</u>		<u>87.83</u>	<u>2.20</u>				
10/18/10	6.79	94.62	2.37	33	32	Flux saving and improved coupling to OH	XP-1034
10/19/10	7.62	102.24	2.56	42	39	Flux saving and improved coupling to OH	XP-1034
10/20/10	6.5	108.74	2.72	32	31	MSE Diagnostic Calibration	XMP-33
10/21/10	9.46	118.2	2.96	51	50	Flux saving and improved coupling to OH Edge impurity transport measurements	XP-1034 XP-1073

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						Dependence of PLH on Radius and triangularity of the X-point	XP-1029
10/22/10	9.01	127.21	3.18	50	49	Lithium effects on transport in the edge/SOL ELM suppression using 3D fields from a single row off-midplane coils	XP-1072 XP-1030
<u>Week's End</u>		<u>127.21</u>	<u>3.18</u>				
10/25/10	9.5	136.71	3.42	52	52	High kappa, high bootstrap fraction plasmas for NSTX-U	XP-1071
						Effects of triangularity on the pedestal structure at fixed X-point height	XP-1074
10/26/10	9.52	146.23	3.66	50	48	Impact of Outer Squareness on High-Kappa LQG controller for RWM stabilization	XP-1058 XP-1022
10/27/10	8.12	154.35	3.86	43	38	Core impurity density and radiated power reduction under LLD conditions	XP-1002
						Dependence of PLH on Radius and triangularity of the X-point	XP-1029
						Ohmic H-mode	XP-1039
						Effects of triangularity on the pedestal structure at fixed X-point height	XP-1074
10/28/10	4.61	158.96	3.97	20	17	LLD Commissioning	XP-1000
						LLD Pumping	XP-1001
10/29/10	9.37	168.33	4.21	49	42	LLD Commissioning	XP-1000
						LLD Pumping	XP-1001
<u>Week's End</u>		<u>168.33</u>	<u>4.21</u>				
<u>Totals</u>		<u>168.33</u>	<u>4.21</u>	<u>885</u>	<u>839</u>		
		Run Hours	Run Weeks	Attempts	Plasmas		