

# NSTX Operation FY'10 (1)

<u>Week</u>	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>	
Aug 2009 – Feb 12	Outage					
Feb 17 – Mar 8	Bakeout					
Mar 15 – 19	Outage			ISTP-1	ISTP-1	
Mar 22 – 26	ISTP-1	MP-3 Magnetic calib'n	LLD prefill ~15g LITER evap.	MP-64 Initial operation First plasmas	MP-64 Initial operation First NBI	
Mar 29 – Apr 2	MP-64 Initial operation	MP-66 Strike-point cntrl.	MP-66 Strike-point cntrl.	MP-66 Strike-point cntrl.	MP-66 Strike-point cntrl.	
	MP-66 Strike-point cntrl.				XP-1000 LLD characteriz'n LLD 250°C	
Apr 5 – 9	XP-1000 LLD characteriz'n LLD 250°C	XP-1000 LLD characteriz'n (ELM free) LLD 250°C	XP-1000 LLD characteriz'n LLD 320°C	XP-1000 LLD characteriz'n (R <sub>OSP</sub> to 0.70m) LLD 320°C	LITERs empty	
					MP-3 Magnetic calib'n	
					MP-33 MSE calib'n	
					XP-1004 Early EF corr'n	
Apr 12 – 16	Bay K LITER TIV issue	MP-65 Beta Control	MP-33 MSE calib'n	XP-1023 RWM devel't	OH water leak	
		XP-1023 RWM Control		XP-1020 RWM vs rotation		
Apr 19 – May 21	OH leak repair Replaced Bay-K LITER TIV during argon vent on 4/27					
May 24 – 28	OH leak repair		ISTP-1	MP-69 Relay f/b control		XP-1003 X-point & OSP control
			MP-64 Plasma restart (with LITER)	XP-1003 X-point & OSP control		
May 31 – Jun 4	Holiday	XP-1004 Early EFC	XP-1028 H-mode vs. n <sub>e</sub>	XP-1027 RMP imp. screen	XP-1064 Extend EPH-mode XP-1043 SOL transport	
			XP-1031 Stab. vs. edge J	XP-1064 Extend EPH-mode		
				MP-26 (evening) HHFW cond.		
Jun 7 – 11	MP-26 HHFW cond.	MP-26 HHFW cond.	MP-26 HHFW cond.	OH inspection	NB-A removal	
					MP-26 HHFW cond.	

# NSTX Operation FY'10 (2)

<u>Week</u>	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
Jun 14 – 18	MP-26 HHFW cond.	XP-1043 SOL transport <b>First BES data</b>	XP-1003 X-pt & OSP ctrl	MP-26 HHFW cond.	MP-26 HHFW cond.
			XP-1005 Impurity reduction	MP-70 BES comm.	MP-68 PF4+5 operation XP-1003 X-pt & OSP ctrl
Jun 21 – 25	XP-1002 LLD impurity red. <b>Runaway disch.</b>	XP-1031 Stab. vs. edge J	MP-70 BES comm.	Repair Bay-K LITER shutter <b>(argon vents)</b>	
			XP-1011 TAE/GAE aval.		
Jun 28 – Jul 2	MP-64 Resume operation	XP-1041 Poloidal rotation	XP-1044 Pedestal height	OH water leak repair	
	XP-1019 Optimize $\beta$ -control	XP-1003 X-pt & OSP ctrl			
Jul 5 – 9	Holiday	OH water leak repair			
Jul 12 – 16	OH water leak repair		Tests	OH electrical leakage repair	
			MP-64 Resume operation		
Jul 19 – 23	OH water leak repair				
Jul 26 – 30	Repair recovery & ISTP	MP-64 Resume operation	<b>High rate LITER</b>	XP-1019 Optimize $\beta$ -control	XP-1041A LLD pumping
		MP-68 PF4+5 operation	XP-1044 Pedestal height	XP-1023 RWM @ low $I_p$ , $v$	
			XP-1046 ELM heat flux		
Aug 2 – 6	XP-1067 Zonal flows, blobs	XP-1058 Squareness & stab.	<b>LITER exchange</b>	<b>Extended LITER evaporation</b>	
	XP-1058 Squareness & stab.	XP-1045 Snowflake	XP-1021 Halo current		
		XP-1023 RWM @ low $I_p$ , $v$			
Aug 9 – 13	XP-1059 LLD charac'n II	XP-1059 LLD charac'n II	XP-1059 LLD charac'n II	MP-64 Restore operation	XP-1042 Momentum transp.
		<b>LLD htr failure</b>	XP-1001 LLD pumping <b>Lithium blob</b>	XP-1059 LLD charac'n II	XP-1001 LLD pumping
			XMP-26 HHFW condition		XMP-26 HHFW condition

# NSTX Operation FY'10 (3)

<u>Week</u>	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
Aug 16 – 20	<b>XP-1043</b> Heat flux profiles	<b>XP-1043</b> Heat flux profiles	<b>XP-1022</b> LQG RWM cntrl	<b>XP-1020</b> RWM and rot'n	<b>XP-1045</b> Snowflake
	<b>XMP-26</b> HHFW condition	<b>XP-1048</b> RMP ELM thrshld	<b>XMP-26</b> HHFW condition	<b>XP-1023</b> RWM @ low I <sub>p</sub> , v	<b>XP-1029</b> P_LH vs. R_Xpt
Aug 23 – 27	<b>MP-26</b> HHFW cond.	<b>MP-26</b> HHFW cond.	<b>LITER exchange</b>	<b>XP-1046</b> ELM heat flux	<b>XP-1021</b> Halo current
		<b>XP-1009</b> HHFW at low T <sub>e</sub>	<b>XP-1009</b> HHFW at low T <sub>e</sub>	<b>XP-1045</b> Snowflake	<b>XP-1026</b> Heat flux vs RMP
Aug 30 – Sep 3	<b>XP-1026</b> Heat flux vs RMP	<b>XP-1002</b> Impurities w/ LLD	<b>XP-1041</b> Poloidal rotation	<b>XP-1014</b> Angelfish	<b>XP-1006</b> High κ
	<b>XP-1029</b> P_LH vs. R_Xpt	<b>XP-1056</b> Li dust injection	<b>XP-1051</b> Bias electrodes	<b>XP-1058</b> Squareness & stab.	
Sep 6 – 10	Holiday	<b>PS testing</b>	<b>XP-1034</b> CHI	<b>XP-1034</b> CHI	<b>XP-1034</b> CHI
		<b>XP-1034</b> CHI	<b>LITER-F failed</b>		
Sep 13 – 17	<b>LITER-K align</b>	<b>XP-1037</b> High-k turbulence	<b>XP-1032</b> Error field scan	<b>XP-936</b> Rot'n and conf't	<b>MPTS shutter</b>
	<b>XP-1025</b> RMP+jogs	<b>Lithium blob</b>	<b>XP-936</b> Rot'n and conf't	<b>XP-1042</b> Intrinsic torque	<b>XP-1062</b> NTV at low v
Sep 20 – 24	<b>XP-1045</b> Snowflake	<b>XP-1025</b> RMP+jogs	<b>XP-1064</b> Extend EPH-mode	<b>XP-1013</b> GAEs & e-transp't	<b>XP-1043</b> SOL transport
	<b>XP-1043</b> SOL transport	<b>XP-1031</b> Stab. vs. edge J	<b>XP-1058</b> Squareness & stab.	<b>XP-1011</b> TAE/GAE aval.	<b>XP-1023</b> RWM Control
		<b>XP-1069</b> ELM turbulence		<b>XP-922</b> P_L-H vs I <sub>p</sub>	
Sep 27 – Oct 1	Maintenance week				

# NSTX Operation FY'11

<u>Week</u>	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
Oct 4 – 8	<b>XP-1050</b> Impurity seeding <b>Lithium blob</b>	<b>XP-1037</b> High-k turbulence	<b>XP-1006</b> High $\kappa$	<b>XP-1038</b> Multi-scale turb.	<b>XP-1039</b> OH H-mode
	<b>MP-66</b> Cleanup	<b>XP-1029</b> P_LH vs. R_Xpt	<b>XP-1042</b> Intrinsic torque	<b>XP-1015</b> NB TAE valid'n	<b>XP-1070</b> ETG isotropy
Oct 11 – 15	<b>MP-26</b> HHFW cond.	<b>MP-26</b> HHFW cond.	<b>MP-26</b> HHFW cond.	<b>XP-1040</b> Sustained ITBs	<b>XP-1036</b> L-H t'hold w/ RF
			<b>XP-1017</b> RF divertor heat'g		<b>XP-1041</b> Poloidal rotation
			<b>XP-1036</b> L-H t'hold w/ RF		
Oct 18 – 22	<b>XP-1034</b> CHI	<b>XP-1034</b> CHI	<b>MP-33</b> MSE calibration	<b>XP-1073</b> Edge imp. trnspt	<b>XP-1072</b> Li & edge trnspt
			<b>XP-1034</b> CHI	<b>XP-1029</b> P_LH vs. R_Xpt	<b>XP-1029</b> P_LH vs. R_Xpt
				<b>XP-1072</b> Li & edge trnspt	<b>XP-1030</b> ELM suppression
Oct 25 – 29	<b>XP-1071</b> High-A devel't	<b>XP-1058</b> Squareness & stab.	<b>XP-1039</b> OH H-mode	<b>High rate LITER</b>	<b>High rate LITER</b>
	<b>XP-1074</b> Pedestal vs. $\delta$	<b>XP-1022</b> LQG RWM cntrl	<b>MP-3</b> Magnetic calib'n	<b>XP-1000</b> LLD characteriz'n	<b>XP-1000</b> LLD characteriz'n
			<b>XP-1002</b> Div. gas puff	<b>LLD gas heating</b> (leak developed)	<b>LLD gas heating</b>
			<b>XP-1029</b> P_LH vs. R_Xpt	<b>MP-3</b> Magnetic calib'n	
			<b>XP-1074</b> Pedestal vs. $\delta$		
Nov 1 – 5	MPTS Calibration		Outage (through June 2011)		