

# FY16 NSTX RUN LOG

NSTX-U FY 16 Run started on Dec. 18, 2015.

FY 2016 Operation Targets: TBD

Complete: 3.14 run weeks producing 314 plasmas

Date	Run Time (Daily hrs)	Accumulated FY Run Time (hrs)	Accumulated FY Run Weeks (40 hours / week)	Plasma Attempts	Plasma Achieved	Experimental Topics	Comments
12/18/15	4.83	4.83	0.12	13	11	XMP-101: Inductive Start-Up Scenarios	Delayed start for ISTEP. Missed shots/down time for ECH
<b>Week's End</b>		<b>4.83</b>	<b>0.12</b>				
12/21/15	3.61	8.44	0.21			XMP-106: Magnetic calibration	Delayed start for field coil/PSRTC/PCS Testing
				15	15	XMP-101: Inductive Start-Up Scenarios	Additional test time for PF3U/L test shots.
12/22/15	7.87	16.31	0.41	25	25	XMP-126: Ip and R Control	
						XMP-105: Vertical Position Control Checkout	
<b>Week's End</b>		<b>16.31</b>	<b>0.41</b>				
1/4/16	0	16.31	0.41	0	0		Vacuum Vessel Boronization
1/5/16	5.07	21.38	0.53	11	7	XMP-101: Inductive Start-Up Scenarios	Missed shots on FCPC/Controls. Down due to ECH/FCPC
						XMP-126: Ip and R Control	
1/6/16	6.78	28.16	0.70	19	9	XMP-101: Inductive Start-Up Scenarios	Missed shots on Controls/FCPC. Down for FCPC.
						XMP-105: Vertical Position Control Checkout	
						XMP-126: Ip and R Control	
1/7/16	8.27	36.43	0.91	26	25	XMP-127: Neutral beams into plasma	Down for Ip permissive
						XMP-107: Neutron Calibration Transfer	
						XMP-101: Inductive Start-Up Scenarios	
						XMP-105: Vertical Position Control Checkout	
						XMP-126: Ip and R Control	
1/8/16	8.24	44.67	1.12	26	23	XMP-127: Neutral beams into plasma	Mag test shots after 4PM
						XMP-105: Vertical Position Control Checkout	
						XMP-126: Ip and R Control	
	0					XMP-106: Magnetic calibration	
<b>Week's End</b>		<b>44.67</b>	<b>1.12</b>				
1/11/16				0	0		TF Water Fitting Repair. Vacuum Vessel Boronization on 2nd shift
1/12/16	7.86	52.53	1.31	18	15	XMP-128: Increase the Elongation in L-Mode	Extra test time for gas injection system(GIS). Down due to Controls/Torus systems.
1/13/16	7.5	60.03	1.50	25	15	XMP-128: Increase the Elongation in L-Mode	Time spent on NB Conditioning. Missed shots on fizzles/FCPC
1/14/16	6.55	66.58	1.66	22	19	XMP-128: Increase the Elongation in L-Mode	Additional test time for FCPC/NB. Missed shots on fizzles/FCPC
						XMP-116: Initial H-mode Development	
1/15/16	3.19	69.77	1.74	8	6	XMP-116: Initial H-mode Development	Delayed start to GIS/FCPC. Down for FCPC. Missed shots on PCS
<b>Week's End</b>		<b>69.77</b>	<b>1.74</b>				
1/18/16	3.58	73.35	1.83	15	10	XMP-101: Inductive Start-Up Scenarios	Delayed start for GIS. Extra testing for Mag Diag. Down for PCS/FCPC. Missed shots on DCPS/FCPC
						XMP-106: Magnetic calibration	
						XMP-116: Initial H-mode Development	
1/19/16	7.27	80.62	2.02	25	23	XMP-116: Initial H-mode Development	Delayed start/Down for ECS. Missed shots on disrupts
1/20/16	0	80.62	2.02	0	0		Investigate PF1CU electrical insulation
1/21/16	4.04	84.66	2.12	12	11	XMP-116: Initial H-mode Development	Down for water/SPA's. Missed shot on fizzle
						XMP-121: Six SPA and RWM coil checkout	
						XP-1506: Low-beta locked mode studies	
1/22/16	8.43	93.09	2.33	29	27	XMP-116: Initial H-mode Development	Down/CA for NB. Missed shots on Ivl 1 Faults

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						XP-1506: Low-beta low-desntly locked mode studies	
<b>Week's End</b>		<b>93.09</b>	<b>2.33</b>				
2/8/16	0	93.09	2.33	0	0		Investigate Outer Vacuum Vessel to Gnd leakage Path
2/9/16	3.28	96.37	2.41	9	7	XMP-137: Increase Ip and kappa	Extra Test time for Controls/FCPC. Missed shots on Aborts
						XMP-138: Vertical Control Checkout	
2/10/16	0.75	97.12	2.43	1	1	XMP-137: Increase Ip and kappa in L- and H-modes.	Extra test time for NB. Down for GIS
						XMP-138: Vertical Control Checkout	
2/11/16	7.06	104.18	2.60	19	19	XMP-137: Increase Ip and kappa in L- and H-modes.	Extra test time for Controls. Down for Controls
						XMP-138: Vertical Control Checkout	
						XMP-115: Isoflux Commissioning	
2/12/16	3.32	107.5	2.69	10	9	XMP-115: Isoflux Commissioning	Delayed/down start for MG. Missed shot on Abort (NB)
<b>Week's End</b>		<b>107.5</b>	<b>2.69</b>				
2/15/16	2.66	110.16	2.75	7	6	XMP-137: Increase Ip and kappa in L- and H-modes.	Delayed start for TVPS. Delayed/down for FCPC. Missed shot on Com
2/16/16	2.45	112.61	2.82	6	3	XP-1506: Low-beta low-desntly locked mode studies	Delayed start/Down for FCPC/Con. Early End/CA for TOR. Missed shots on Aborts, Fizzles.
2/17/16	0	112.61	2.82	0	0		Only testing/troubleshootingGIS, FCPC & Controls
2/18/16	3.98	116.59	2.91	7	5	XMP-115: Isoflux Commissioning	CA/Down for GIS/NB/Control. Missed shots on DCPS
						XP-1506: Low-beta low-desntly locked mode studies	
2/19/16	9.13	125.72	3.14	25	23	XMP-115: Isoflux Commissioning	Missed shots on DCPS
<b>Week's End</b>		<b>125.72</b>	<b>3.14</b>				
<b>Totals</b>		<b>125.72</b>	<b>3.14</b>	<b>373</b>	<b>314</b>		

Run Hours

Run Weeks

Attempts

Plasmas