FY16 NSTX RUN LOG

NSTX-U FY 16 Run started on Dec. 18, 2015. FY 2016 Operation Targets: TBD Complete: 3.86 run weeks producing 388 plasmas

Date	Run Time (Daily hrs)	Accumulated FY <u>Run Time (hrs)</u>	Accumulated FY <u>Run Weeks</u> (40 hours / week)	Plasma <u>Attempts</u>	Plasma <u>Achieved</u>	Experimental Topics	Comments
12/18/15	4.83	4.83	0.12	13	11	XMP-101: Inductive Start-Up Scenarios	Delayed start for ISTP. Missed shots/down time for ECH
Week's End	4.05	4.83	0.12	15	11	Scenarios	shots/down time for ECH
	3.61	8.44	0.21			XMD 106: Magnetic collibration	Delayed start for field coil/PSRTC/PCS
12/21/15	3.01	0.44	0.21			XMP-106: Magnetic calibration XMP-101: Inductive Start-Up	Additional test time for PF3U/L test
				15	15	Scenarios	shots.
12/22/15	7.87	16.31	0.41	25	25	XMP-126: Ip and R Control XMP-105: Vertical Position	
						Control Checkout	
Week's End		<u>16.31</u>	<u>0.41</u>				
1/4/16	0	16.31	<u>0.41</u>	0	0		Vacuum Vessel Boronization
	F 07	21.20	0.52	11	7	XMP-101: Inductive Start-Up	Missed shots on FCPC/Controls.
	5.07	21.38	0.53	11	7	Scenarios XMP-126: Ip and R Control	Down due to ECH/FCPC
						XMP-101: Inductive Start-Up	Missed shots on Controls/FCPC.
1/6/16	6.78	28.16	<u>0.70</u>	19	9	Scenarios	Down for FCPC.
						XMP-105: Vertical Position Control Checkout	
						XMP-126: Ip and R Control	
						XMP-127: Neutral beams into	
1/7/16	8.27	36.43	<u>0.91</u>	26	25	plasma	Down for Ip permissive
						XMP-107: Neutron CalibrationTransfer	
						XMP-101: Inductive Start-Up	
						Scenarios	
						XMP-105: Vertical Position Control Checkout	
						XMP-126: Ip and R Control	
						XMP-127: Neutral beams into	
1/8/16	8.24	44.67	<u>1.12</u>	26	23	plasma XMP-105: Vertical Position	Mag test shots after 4PM
						Control Checkout	
						XMP-126: Ip and R Control	
	0					XMP-106: Magnetic calibration	
Week's End		<u>44.67</u>	<u>1.12</u>				TF Water Fitting Repair. Vacuum
1/11/16				0	0		Vessel Boronization on 2nd shift
				-	-		Extra test time for gas injection
						XMP-128: Increase the	system(GIS). Down due to
1/12/16	7.86	<u>52.53</u>	<u>1.31</u>	18	15	Elongation in L-Mode	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
1/13/10	7.5	00.03	<u>1.50</u>	23	15	XMP-128: Increase the	Additional test time for FCPC/NB.
1/14/16	6.55	<u>66.58</u>	<u>1.66</u>	22	19	Elongation in L-Mode	Missed shots on fizzles/FCPC
						XMP-116: Initial H-mode	
						Development XMP-116: Initial H-mode	Delayed start to GIS/FCPC. Down
1/15/16	3.19	<u>69.77</u>	<u>1.74</u>	8	6	Development	for FCPC. Missed shots on PCS
Week's End		<u>69.77</u>	<u>1.74</u>				
							Delayed start for GIS. Extra testing
1/18/16	3.58	73.35	1.83	15	10	XMP-101: Inductive Start-Up Scenarios	for Mag Diag. Down for PCS/FCPC. Missed shots on DCPS/FCPC
1/18/16	5.50	73.33	1.05	15	10	Scenarios	
						XMP-106: Magnetic calibration	
						XMP-116: Initial H-mode Development	
		1				XMP-116: Initial H-mode	Delayed start/Down for ECS.
1/19/16	7.27	80.62	2.02	25	23	Development	Missed shots on disrupts
					-		Investigate PF1CU electrical
1/20/16	0	80.62	2.02	0	0		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
1/21/10	T.U-T	07.00	<u> </u>	12		XMP-121: Six SPA and RWM	
		1	1	1		coil checkout	1
						XP-1506: Low-beta locked	
							Down/CA for NB. Missed shots on

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<u>Totals</u>		<u>154.44</u> Run Hours	3.86 Bun Weeks	454 Attempts	<u>388</u> Plasmas		
Week's End	1.00	154.44	3.86				
2/26/16	7.68	154.44	3.86	22	18	XMP-137: Increase Ip and kappa in L- and H-modes.	Down for Con/FCPC
2/25/16	6.58	146.76	3.67	21	20	XMP140: PF-5 Proportional EFC Test	GIS Work
2/24/16	8.03	140.18	3.50	18	17	XMP-115: Isoflux Commissioning	Delayed start for NB1A.
2/23/16	4.63	132.15	3.30	15	15	XMP-115: Isoflux Commissioning	Delayed start for NB1A.
2/22/16	1.8	127.52	3.19	5	4	XMP-115: Isoflux Commissioning	Delayed start for NB1A/GIS. Delayed/down for DCPS/Penning
<u>Neek's End</u>		<u>125.72</u>	<u>3.14</u>			+	
2/19/16	9.13	125.72	3.14	25	23	Commissioning	Missed shots on DCPS
				-		desntiy locked mode studies XMP-115: Isoflux	
						XP-1506: Low-beta low-	
2/18/16	3.98	116.59	2.91	7	5	XMP-115: Isoflux Commissioning	Missed shots on DCPS
2/17/16	0	112.61	2.82	0	0		FCPC & Controls CA/Down for GIS/NB/Control.
2/10/10	2.43	112.01	2.02	0	3	uesnily locked mode Studies	Only testing/troubleshootingGIS,
2/16/16	2.45	112.61	2.82	6	3	XP-1506: Low-beta low- desntiy locked mode studies	Delayed start/Down for FCPC/Cc Early End/CA for TOR. Missed sho on Aborts, Fizzles.
2/15/16	2.66	110.16	2.75	7	6	XMP-137: Increase Ip and kappa in L- and H-modes.	Delayed/down for FCPC. Missed shot on Com
							Delayed start for TVPS.
Week's End	5.5E	<u>107.5</u>	2.69	10			
2/12/16	3.32	107.5	2.69	10	9	XMP-115: Isoflux Commissioning	Delayed/down start for MG. Miss shot on Abort (NB)
				_		Commissioning	
						Checkout XMP-115: Isoflux	
						XMP-138: Vertical Control	
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. Dow for Controls
						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
						Checkout	
2/9/16	3.28	96.37	2.41	9	7	XMP-137: Increase lp and kap XMP-138: Vertical Control	
2/8/16	0	93.09	2.33	0	0		to Gnd leakage Path Extra Test time for Controls/FCP
Week's End		<u>93.09</u>	<u>2.33</u>				Investigate Outer Vacuum Vessel
		02.00	2.22	_		desntiy locked mode studies	
						XP-1506: Low-beta low- desntiy locked mode studies	