

FY16 NSTX RUN LOG

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

FY 2016 Operation Targets: TBD

Complete: 2.33 run weeks producing 241 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 |
| Week's End | | 4.83 | 0.12 | | | | |
| 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 | |
| Week's End | | 16.31 | 0.41 | | | | |
| 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 | |
| Week's End | | 44.67 | 1.12 | | | | |
| 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 |
| Week's End | | 69.77 | 1.74 | | | | |
| 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 locked mode studies | |
| Week's End | | 93.09 | 2.33 | | | | |
| | | | | | | | |
| Totals | | 93.09 | 2.33 | 289 | 241 | | |
| | | Run Hours | Run Weeks | Attempts | Plasmas | | |