

NSTX Operation FY'05

Note: * after shot tally indicates extended shift of operation

<u>Week</u>	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
Aug 6, 04 – Apr 1	Outage				
Apr 4 – 8	ISTP-1 Restart TF flashover	Repair TF outer bundle			
Apr 11 – 15	ISTP-1 Restart NB source B leak	ISTP-1	ISTP-1 TF 0.45T	MP-20 17 Resume plasmas First plasmas MP-3 11* Magnetics cal'n	Rayleigh scattering MPTS calibration
Apr 18 – 22	Bakeout		Maintenance (complete NB source B replacement)		
		Boronization 40			
Apr 25 – 29	MP-38 19 Eval. boronization	XP-508 33* High κ , δ w/ PF1A	XP-516 32 SSGI fueling	MP-33 38* MSE calibration	MP-33 24 MSE calibration XP-516 12 SSGI fueling
May 2 – 6	ISTP SPA commiss'g XP-515 8 LPI development	ISTP SPA commiss'g XP-507 15* High-perf. LSN	XP-506 26 OH H-modes	MP-37 20 SPA/RWM cal'n XP-523 20* Fast probe	XP-523 19 Fast probe XP-508 9 High κ , δ w/ PF1A Boronization 41
May 9 – 13	XP-508 22 High κ , δ w/ PF1A	XP-507 23* High-perf. LSN	XP-502 27* Stability at high δ	XP-522 30 e-transport in RS	XP-507 13 High-perf. LSN XP-508 10 High κ , δ w/ PF1A
May 16 – 20	XP-504 18 Fast ion loss MP-37 4 SPA/RWM cal'n	XP-522 35* e-transport in RS	ISTP 9 SPA commiss'g XP-508 8 High κ , δ w/ PF1A XP-507 9 High-perf. LSN Li pellet injection	Mini-boron 42 XP-502 30* Stability at high δ	MP-39 32 ECPI for CHI XP-522 8 e-transport in RS
May 23 – 27	Maintenance				
May 30 – Jun 3	Holiday	ISTP 9 SPA commiss'g MP-39 23* ECPI for CHI	MP-37 14 SPA/RWM cal'n XP-503 16 Locked mode EFC	XP-528 32* High β_p rampdown	XP-520 30 Divertor regimes

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Jun 6 – 10	XP-503 18 Locked mode EFC	XP-501 25* MHD spect'y	XP-501 19 MHD spect'y	ISTP-1 Pulse extension	XP-531 41 Transient CHI
	XP-501 12 MHD spect'y		XP-524 3 Rot'n damping	XP-506 4* OH H-modes	
Jun 13 – 17	XP-502 25 Stability at high δ $W_{tot} = 430kJ$	XP-507 10 High-perf. LSN 1.5s pulse	MP-26 39 HHFW cond.	MP-26 44 HHFW cond.	XP-521 37 HHFW rampup
	XP-507 7 High-perf. LSN	XP-506 11* OH H-modes		XP-521 3* HHFW rampup	
Jun 20 – 24	MP-32 10 rtEFIT	XP-527 47* HHFW modulation	MP-33 49 MSE calibration	Mini-boron 44	XP-531 46 Transient CHI
	XP-520 12 Divertor detach't		MP-33 12 MSE calibration	XP-524 16* Rot'n damping	
Jun 27 – Jul 1	Maintenance				
Jul 4 – 8	Holiday	Mini-boron 45	MP-24 1 rtEFIT	XP-517 43* q(r) effect on TAE	XP-524 28 Rot'n damping
		No operation HIS relay failure	XP-508 27 High κ , δ w/ PF1A		
Jul 11 – 15	XP-522 30 e-transport in RS	XP-515 53* LPI conditioning	XP-525 33 ELM mitigation	XP-515 46* LPI conditioning	XP-525 28 ELM mitigation
Jul 18 – 22	XP-503 24 Locked mode EFC	XP-503 32 Locked mode EFC	XP-527 27 HHFW modulation	Mini-boron 46	XP-512 13 RWM similarity
		MP-30 8* HHFW breakdown	XP-506 6 OH H-modes	XP-512 29* RWM similarity	MP-40 19 XCS commission
Jul 25 – 29	XP-502 14 Stability at high δ	XP-502 3 Stability at high δ	XP-530 29 ELM characterize	XP-509 18 Long pulse low B_T	XP-531 42 Transient CHI
	XP-508 1 High κ , δ w/ PF1A	XP-508 19 High κ , δ w/ PF1A		XP-533 2 CHI + inductive	
	MP-40 11 XCS commission	XP-507 14* High-perf. LSN		XP-508 6 High κ , δ w/ PF1A	
Aug 1 – 5	Maintenance				

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Aug 8 – 12	XP-513 <i>24</i> Ion ITB	XP-510 <i>24</i> PF startup	XP-521 <i>32</i> HHFW ramp-up	XP-524 <i>16</i> RWM	XP-533 <i>17</i> CHI + induction
		XP-507 <i>15*</i> High-perf. LSN		XP-512 <i>7</i> RWM similarity	XP-511 <i>19</i> Merging startup
Aug 15 – 19	XP-529 <i>22</i> H-mode pedestal	XP-505 <i>35*</i> LH threshold	XP-505 <i>18</i> LH threshold	XP-526 <i>22*</i> ELM vs shape	XP-533 <i>22</i> CHI + induction
			XP-534 <i>18</i> Li pellet perturb'n		XP-511 <i>22</i> Merging startup
Aug 22 – 26	XP-534 <i>3</i> Perturbative e-transport	XP-537 <i>29</i> HHFW-CD with MSE	XP-514 <i>14</i> O-mode EBW	XP-531 <i>70*</i> Transient CHI	XP-531 <i>47</i> Transient CHI
	XP-539 <i>21</i> ELM heat pulse	XP-538 <i>20*</i> RS + HHFW	XP-516 <i>13</i> SSGI fueling		
Aug 29 – Sep 2	Maintenance			Boronization 48	
Sep 5 – 9	Holiday	MP-43 <i>2</i> MGP operation	OH solenoid water leak	MP-33 <i>46</i> MSE calib'n	XP-531 <i>46</i> Transient CHI
		ISTP-1 <i>6</i> TF 0.5T			
		XP-508 <i>19*</i> High κ , δ w/ PF1A			
Sep 12 – 16	MP-3 <i>38</i> Magnetic calib'n	ISTP-1 <i>8</i> TF 0.575T	Raman/Rayleigh scattering MPTS calibration	Raman/Rayleigh scattering MPTS calibration	Raman/Rayleigh scattering MPTS calibration
	XP-531 <i>6</i> Transient CHI	XP-531 <i>27</i> Transient CHI			
Sep 19 –	Outage				