

# FY06 NSTX RUN LOG

FY 06 Run started on February 27 and ended on June 23, 2006.

FY 2006 Joule Milestone: 11 weeks

Completed: 12.66 weeks, producing 1617 plasmas.

<u>Date</u>	<u>Run Time (Daily hrs)</u>	<u>Accumulated FY Run Time (hrs)</u>	<u>Accumulated FY Run Weeks (40 hours / week)</u>	<u>Plasma Attempts</u>	<u>Plasma Achieved</u>	<u>Experimental Topics</u>	<u>XP/XMP #</u>
2/27/06	4.08	4.08	0.10	11	10	Bakeout Characterization / High-k scattering	XMP-44
2/28/06	6.83	10.91	0.27	27	21	HHFW Conditioning / High-k scattering	XMP-26 / XMP-44
3/1/06	8.1	19.01	0.48	30	20	Movable Glow Probe / High-k scattering	XP-616 / XMP-44
3/2/06	9.23	28.24	0.71	26	14	Movable Glow Probe / High-k scattering	XP-616 / XMP-44
3/3/06	8.87	37.11	0.93	31	29	Divertor Heat Load / High-k scattering	XP-605 / XMP-44
<b><u>Week's End</u></b>		<b><u>37.11</u></b>	<b><u>0.93</u></b>				
3/6/06	6.15	43.26	1.08	27	22	Transient CHI Start-up	XP-606
3/7/06	8.83	52.09	1.30	47	38	Transient CHI / Edge Current Drive with CHI	XP-606 / XP-533
3/8/06	8.49	60.58	1.51	27	21	Long-pulse Double Null / High-k scattering	XP-603 / XMP-44
3/9/06	7.77	68.35	1.71	27	22	Density Scan / Plasma Fuelling with SGI / High-k scattering	XP-604 / XP-626 / XMP-44
3/10/06	6.7	75.05	1.88	20	17	Long-pulse single null / High-k scattering	XP-602 / XMP-44
<b><u>Week's End</u></b>		<b><u>75.05</u></b>	<b><u>1.88</u></b>				
3/13/03	6.76	81.81	2.05	36	31	MSE Calibration	XMP-33
3/14/05	8.87	90.68	2.27	47	38	MSE Calibration	XMP-33
<b><u>Week's End</u></b>		<b><u>90.68</u></b>	<b><u>2.27</u></b>				
3/20/06	4.3	94.98	2.37	19	15	High- k scattering / RWM-EFC system	XMP-44 / XMP-45
3/21/06	5.98	100.96	2.52	25	21	High- k scattering / RWM-EFC system test	XMP-44 / XMP-45
3/22/06	7.98	108.94	2.72	30	26	TESPEL assessment / Error Field at High Beta-N	XP-47 / XP-614
3/23/06	9.42	118.36	2.96	26	24	Error Field at High Beta-N / Error Field with rotation	XP-614 / XP-618
3/24/06	8.07	126.43	3.16	32	21	Error Field with rotation / TESPEL assessment	XP-618 / XMP-47
<b><u>Week's End</u></b>		<b><u>126.43</u></b>	<b><u>3.16</u></b>				
3/27/06	6.32	132.75	3.32	21	16	Reversed-shear transport	XP-610
3/28/06	8.12	140.87	3.52	28	23	Reversed-shear transport / Active RWM Stabilization	XP-610 / XP-615
3/29/06	9.37	150.24	3.76	33	25	Active RWM Stabilization	XP-615
<b><u>Week's End</u></b>		<b><u>150.24</u></b>	<b><u>3.76</u></b>				
4/10/06	8.93	159.17	3.98	32	29	Divertor Detachment / Lithium Evaporator	XP-605 / XP-601
4/11/06	2.51	161.68	4.04	6	6	Lithium Evaporation	XP-601
4/12/06	5.33	167.01	4.18	13	13	Lithium Evaporation	XP-601
4/13/06	3.03	170.04	4.25	13	11	Lithium Evaporation	XP-601
4/14/06	9.3	179.34	4.48	34	28	Long pulse with EF control / Small ELM Regimes	XP-602 / XP-621
<b><u>Week's End</u></b>		<b><u>179.34</u></b>	<b><u>4.48</u></b>				
4/17/06	9.5	188.84	4.72	33	25	ELMs and Confinement with Plasma Shape	XP-526
4/18/06	8.97	197.81	4.95	32	22	Long-Pulse DN Discharges / Plasma Fueling with SGI	XP-603 / XP-626
4/19/06	8.9	206.71	5.17	35	30	Non-solenoid Ip rampup / Active Stab of RWM	XP-627 / XP-615
4/20/06	8.01	214.72	5.37	39	34	Scanning the divertor X-points / HHFW conditioning	XMP-46 / XMP-26

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4/21/06	8.97	223.69	5.59	44	37	Transport of Fast Ions by Fishbones and TAEs	XP-607
<b>Week's End</b>		<b>223.69</b>	<b>5.59</b>				
4/24/06	9.11	232.8	5.82	33	26	CHI into an OH discharge / Pedestal vs Aspect Ratio	XP-533 / XP-529
4/25/06	8.68	241.48	6.04	33	28	H-mode Pedestal Structure vs Aspect Ratio	XP-529
4/26/06	7.42	248.9	6.22	35	28	HHFW Power Balance vs Bat constant q	XP-617
4/27/06	9.47	258.37	6.46	48	41	8 - 40 GHz O-mode EBWE / HHFW Ip rampup	XP-625 / XP-627
4/28/06	8.25	266.62	6.67	32	25	CHI into an OH discharge / Error Field at High Beta-N	XP-533 / XP-614
<b>Week's End</b>		<b>266.62</b>	<b>6.67</b>				
5/1/06	8.23	274.85	6.87	44	39	Transient CHI Start-up	XP-606
5/2/06	8.93	283.78	7.09	31	26	CHI into an OH discharge / ELMs and Confinement with Plasma Shape	XP-533 / XP-526
5/3/06	8.49	292.27	7.31	29	22	Scaling of Perturbed Electron Transport	XP-612
5/4/06	9.41	301.68	7.54	31	28	Lithium Evaluation	XP-601
5/5/06	9.48	311.16	7.78	36	27	Lithium Evaluation /Active Stabilizationof RWM	XP-533 / XP-615
<b>Week's End</b>		<b>311.16</b>	<b>7.78</b>				
5/16/06	9.54	320.7	8.02	31	27	Error Field Control at High Beta-N	XP-614
5/17/06	1.69	322.39	8.06	5	3	Active Stab of RWM	XP-615
5/18/06	9.37	331.76	8.29	35	30	ELMs and Confinement with Plasma Shape / Active Stabilizationof RWM	XP-526 / XP-615
5/19/06	9.29	341.05	8.53	47	40	HHFW Power Balance vs Bat constant q / Small ELM Regimes / H-mode Pedestal Structure vs A	XP-617 / XP-621 / XP 529
<b>Week's End</b>		<b>341.05</b>	<b>8.53</b>				
5/22/06	8.88	349.93	8.75	45	40	Transient CHI Start-up	XP-606
5/23/06	9.38	359.31	8.98	50	45	Transient CHI Start-up	XP-606
5/24/06	10.67	369.98	9.25	46	38	8 - 40 GHz O-mode EBWE / High- k scattering comm	XP-625 / XMP-44
5/25/06	9.55	379.53	9.49	32	28	Bt Scaling of Confinement	XP-532
5/26/06	8.45	387.98	9.70	30	29	Bt Scaling of Confinement / High-k scattering comm	XP-532 / XMP-44
<b>Week's End</b>		<b>387.98</b>	<b>9.70</b>				
5/30/06	7.77	395.75	9.89	24	22	Reversed-shear transpt / High-k scattering comm	XP-610 / XMP-44
5/31/06	11.49	407.24	10.18	40	34	Passive RWM Stabilization	XP-619
6/1/06	9.28	416.52	10.41	35	31	Long Pulse develop using EF Correction / Scaling of Perturbed Electron Transp	XP-602 / XP-612
6/2/06	7.29	423.81	10.60	32	27	Z-scaling of impurity transport in NB-heated NSTX H-mode discharges	XP-613
<b>Week's End</b>		<b>423.81</b>	<b>10.60</b>				
6/5/06	8.56	432.37	10.81	31	30	NBI-driven current evolution	XP-608
6/6/06	9.3	441.67	11.04	27	22	Long-pulse Double Null	XP-603
6/7/06	9.74	451.41	11.29	40	35	Lithium Evaluation / High-k scattering in L-H	XP-601 / XP-629
6/8/06	8.6	460.01	11.50	30	25	High-k with shear effects / EBW Conversion to O-Mode	XP-620 / XP-625
6/9/06	8.04	468.05	11.70	17	12	Lithium Evaluation	XP-601
<b>Week's End</b>		<b>468.05</b>	<b>11.70</b>				
6/12/06	9.24	477.29	11.93	36	34	Ohmic density scan with GPI	XP-630
6/13/06	2.87	480.16	12.00	7	6	High-k with shear effects	XP-620
<b>Week's End</b>		<b>480.16</b>	<b>12.00</b>				
6/21/06	6.92	487.08	12.18	25	20	Lithium Evaporation	XP-601

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6/22/06	9.84	496.92	12.42	24	24	Lithium Evaporation / Error Field at High Beta-N	XP-601 / XP- 614
6/23/06	9.5	506.42	12.66	40	36	HHFW Ip rampup / HHFW Power Balance vs B at constant q / MSE Calibration	XP-627 / XP- 617 / XMP- 33
<b><u>Run's End</u></b>		<b><u>506.42</u></b>	<b><u>12.66</u></b>				
<b><u>Totals</u></b>		<b><u>506.42</u></b>	<b><u>12.66</u></b>	<b><u>1932</u></b>	<b><u>1617</u></b>		
		Run Hours	Run Weeks	Attempts	Plasmas		