

**Office of Fusion Energy Sciences
FY 2006 Congressional Budget**

| | FY 2004 <u>Actual</u> | FY 2005 <u>Appropriation</u> | FY 2006 <u>Congressional</u> |
|-------------------------------------|--------------------------|---------------------------------|---------------------------------|
| <u>Science</u> | | | |
| DIII-D Research | 24.2 | 22.8 | 22.7 |
| C-Mod Research | 8.3 | 8.6 | 8.4 |
| International Collaborations | 4.8 | 4.9 | 4.9 |
| Diagnostics | 3.9 | 3.9 | 3.9 |
| Other | 3.6 | 4.9 | 3.9 |
| SBIR/STTR | <u>0.0</u> | <u>7.0</u> | <u>6.3</u> |
| Subtotal Tokamaks | 44.8 | 52.1 | 50.1 |
| NSTX Research | 16.4 | 16.5 | 16.2 |
| Experimental Plasma Research | 21.1 | 21.8 | 18.8 |
| IFE/HEDP | 13.9 | 15.3 | 8.1 |
| MST Research | 5.1 | 6.5 | 6.1 |
| NCSX Research | <u>0.8</u> | <u>0.8</u> | <u>0.7</u> |
| Subtotal Alternates Research | 57.3 | 60.9 | 49.9 |
| Theory | 25.4 | 25.5 | 24.6 |
| Advanced Computing/SciDAC | 3.3 | 4.3 | 4.3 |
| General Plasma Science | <u>11.9</u> | <u>12.3</u> | <u>13.9</u> |
| Science Total | 142.7 | 155.1 | 142.8 |
| <u>Facility Operations</u> | | | |
| DIII-D | 30.2 | 32.8 | 28.7 |
| Alcator C-Mod | 14.0 | 13.4 | 13.1 |
| NSTX | 19.2 | 18.1 | 14.5 |
| NCSX | | | |
| Facility Ops Times in Weeks | 18/19/21 | 14/17/17 | 5/12/0 |
| NCSX MIE | 15.9 | 17.5 | 15.9 |
| GPP/GPE/ORNL Move | 3.2 | 3.2 | 3.3 |
| ITER Preparation | 3.2 | 4.9 | 6.0 |
| US ITER Contribution MIE | <u>0.0</u> | <u>0.0</u> | <u>46.0</u> |
| Facility Operations Total | 85.7 | 89.9 | 127.5 |
| <u>Enabling R&D</u> | | | |
| Plasma Technologies | 16.7 | 18.4 | 14.2 |
| Advanced Design | 3.2 | 3.2 | 2.6 |
| ITER Support | 0.0 | 0.0 | 3.5 |
| Materials Research | <u>7.6</u> | <u>7.3</u> | <u>0.0</u> |
| Enabling R&D Total | 27.5 | 28.9 | 20.3 |
| Total Fusion Energy Sciences | 255.9 | 273.9 | 290.6 |
| <u>Recap</u> | | | |
| DIII-D Res + Ops | 54.4 | 55.6 | 51.4 |
| C-Mod Res + Ops | 22.3 | 22.0 | 21.5 |
| NSTX Res + Ops | 35.6 | 34.6 | 30.7 |
| Facilities Res + Ops | 112.3 | 112.2 | 103.6 |
| NCSX Res + Ops + MIE | 16.7 | 18.3 | 16.6 |
| ITER | 3.2 | 4.9 | 55.5 |
| Non—ITER | 252.7 | 269.0 | 234.9 |