

DOE/OFES Comments

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US Fusion Program

- Nuclear Power \leftrightarrow Fusion
 - Administration has **positive views on nuclear power**
 - **Fusion is linked with fission** as long-term nuclear that follows advanced fission (Generation IV)
 - **Attention to fusion** by DOE officials greatest since early 1990's
- Fusion **Energy** \leftrightarrow Fusion **Science**
 - DOE officials see fusion more as **energy** than science
 - May have begun swing back to “energy” rhetoric
- Burning Plasma Science
 - **Community process** leading to conclusions in 04
 - Focus of Snowmass 02
 - Evaluating **ITER, FIRE, IGNITOR**, ...
 - **ITER decision** in 02/03 could have strong influence
- Program Reviews
- 02 Budget

Technology Program

- Peer Reviews
 - Near completion of “**quality of science**” reviews
 - Scope/approach of **future reviews** being formulated
- Fusion Materials Retreat
 - Late August in Santa Barbara
 - Focus on **coordination of communities** for materials, PFC, chamber technologies, and systems/design studies
 - Defined new role of “**Materials Engineer**” to serve as interface between materials and other communities

Chamber Technology Program: APEX

- New **SBIR/STTR grants** contributing to research
 - Phase II award: **3D MHD Computation Fluid Dynamics**
 - Phase I award: **Free surface diagnostics** (Doppler laser radar)
- New experiment facilities now operational
 - **M-TOR**: addressing MHD issues for NSTX/C-MOD liquid lithium module under ALIST
 - **FLY-HI**: FLiBe thermofluid task under JUPITER-II collaboration
- 02 Budget
 - **5% cut** from 01
 - Dec.-Jan: **distribute reserves** (45 \$K) and **reallocate funds** as needed
- Nov. 7 **Town Meeting** for APEX/ALPS/ALIST/ to address:
 - Goals, task priorities, resources balance, and budget allocations
 - Organizational, management, and interface issues