

BUDGETS

#K

FY 03

FUSION TECH

11,103

MFE CHAMBER TECH.

2,984

APEX

1,867

FY 04

• DOE REQUEST

FUSION TECH. (CLOSEOUT) 1,338

MFE CHAMBER TECH

840

APEX

540

• CONG. - HOUSE

+5,200

• CONG - SENATE

+ 1,200

• CONG. - CONFERENCE

TBD

• DOE FINANCIAL PLAN

FUSION TECH

3,038*

MFE CHAMBER TECH

1,840*

APEX

540

* ADDITIONAL FUNDS PROVIDED UNDER
PLASMA TECH FOR ITER-RELATED
WORK AND HIGH-PRIORITY R&D

**FY 2004 Fusion Energy Sciences Budget:
Action by House and Senate Appropriations Committees on
E&WD Appropriations Bill**

President's Request: \$257.3M

House Approp. Comm: \$268.1M

+ \$10.8M: \$4M for burning plasma experiments (ITER and FIRE), **\$5.2M for fusion technology**, and \$1.6M for advanced design and analysis

Senate Approp. Comm: \$257.3M

"The Department's proposed fiscal year 2004 budget proposes to cut severely long-term activities in fusion technology and advanced design that will have significant impact on the ultimate attractiveness of fusion power. **The Committee recommends that, within available funds, the Department should make adjustments to redress the imbalance resulting from these cuts.**"

PLANS

UNKNOWN: WILL CONG. PROVIDE MORE \$?
WILL ITER BE CONSTRUCTED ?
WILL OMB CONTINUE ATTACK
ON FUSION TECH. ?

- WITH APEX BUDGET AT $\sim 1/4$ OF FY03 LEVEL, WILL NEED TO BRING MUCH OF WORK TO CONCLUSION IN EARLY FY04
- UNDER PLASMA TECH. (POWER EXTRACTION), WILL CONTINUE MODELING AND EXPT. FOR ALPS/ALIST (FS MHD FLOW) AND JUPITER-II
- FOCUS MFE CHAMBER TECH.
ON ITER FNT AND TBM PROGRAM
- NEED INPUT FROM APEX SC
 - SHOULD APEX BE BROUGHT TO "END" OR CONTINUE IN SOME FORM ?
 - REDISTRIBUTION OF APEX FUNDS ?
 - ALLOCATION OF RESERVES ?

MFE Chamber Technologies Program

Budgets in \$K as of Oct. 31, 2003 (Numbers in bold are contained in Fin. Plan; others are derived)

Perf. Inst.	FY 2002	FY 2003	FY 2004 November Fin. Plan
UCLA	1792 Chamber 1232 APEX/ALIST 814 Ceramic Breeder 360 ALPS support 28 Neutronics 30 Surface Renewal 119 JUPITER-II 441	1883 Chamber 1271 APEX/ALIST 871 Ceramic Breeder 340 ALPS support 30 Neutronics 30 Surface Renewal 128 JUPITER-II 484	1000 Chamber 540 APEX/ALIST 230 ITER FNT 0* Ceramic Breeder 250* ALPS support 30* Neutronics 30 Surface Renewal 0 JUPITER-II 460
ORNL	223 APEX/ALIST 164 Neutronics (RSICC) 44 JUPITER-II (Nelson) 15	214 APEX/ALIST 164 Neutronics: RSICC 45 JUPITER-II (Nelson) 5	90 APEX/ALIST 20 Neutronics: RSICC 0** ITER FNT: 70
SNL-A	232 APEX/ALIST 192 JUPITER-II (IR cam.) 40	190 APEX/ALIST 190	110 APEX/ALIST 70 ITER FNT 40
PPPL	152 APEX /ALIST 142 JUPITER-II (Woolley) 10	178 APEX/ALIST 153 JUPITER-II (Woolley) 25	90 APEX/ALIST 90 JUPITER-II (Woolley) 0
UW	142 APEX 122 Sawan 107 Corridini 15 APEX (Li boiling) 20	182 APEX (Sawan) 110 APEX (Igor S). 72	170 APEX (Sawan) 25 APEX (Igor S). 15 ITER FNT 130
GA	115 APEX (Wong) 84 APEX (Malang) 10 APEX (Friend) 21	123 APEX (Wong) 83 APEX (Malang) 20 APEX (Friend) 20	110 APEX (Wong) 25 ITER FNT (Wong) 65 ITER FNT (Malang) 20
ANL	108 APEX/ALIST 108 JUPITER-II 0	50 APEX/ALIST	20 APEX/ALIST 10 ITER FNT 10
U Texas	79 APEX	84 APEX	30 APEX
LLNL	58 APEX (Moir) 29 APEX (Rognlien) 29	40 APEX (Moir) 5 APEX (Rognlien) 35	20 APEX (Moir) 0 APEX (Rognlien) 20
TSI	30 Neutronics	30 Neutronics	0*** Neutronics
UI	10 APEX	10 APEX	5 APEX
Res.-ITER	0	0	50
Res.CT	0	0	145
TOTAL	2941	2984	1840

* 1000 was provided for FY 04 in FY 03 (forward funding) for these areas and IFE CT under Plasma Technologies - Power Extraction

** 45 is provided in FY 04 under Plasma Technologies - Neutronics

*** 30 is provided in FY 04 under Plasma Technologies - Neutronics

ITER CONSTRUCTION NEGOTIATIONS

NOV. 5-12 : NSSG-II IN BEIJING

→ COMPLETE ALL PREP.
EXCEPT SITING AND
JIA TEXT

NOV. 27 : EC OF M MEETING ON
EU SITE

DEC. 4 : SCIENCE MINISTERS IN
VIENNA

→ AGREE ON SITE, PROC.
ALLOCATIONS, COST SHARING,
DIRECTOR GENERAL

DEC. 16 : ENERGY MINISTERS IN
DC

→ AGREE ON MAJOR FEATURES
OF JIA