PFC Budget Summary FY05/06

FY05 (CBR Guidance)

Thrust Area	Budget ($K) (ITER)	Percentage
Liquid Metal PFC	2537 (0)	36
Solid Surface PFC	1128 (920)	16
Plasma Materials Interaction Experiments	2322 (1094)	33
Plasma Materials Interaction Modeling	1067 (455)	15
Total	7054	100
ITER Fraction	2469	35

FY05 Incremental

Priority	Thrust Area	Incremental Request ($K)
	Liquid Metal PFC	0
2	Solid Surface PFC	50
1	Plasma Materials Interaction Experiments	175
3	Plasma Materials Interaction Modeling	190
	Total	415

Description of Incremental requests (listed by priority):

1. Diagnostics for tritium retention on TPE, upgrades to DiMES (all ITER relevant)
2. Upgrade to PMTF for spectroscopy during ELM testing (ITER relevant)
3. Increased modeling of PMI and SOL at ANL and LLNL ($140K is ITER relevant)

FY06 (-10% case)

Thrust Area	Budget ($K) (ITER)	Percentage
Liquid Metal PFC	2359 (0)	
Solid Surface PFC	1087 (779)	
Plasma Materials Interaction Experiments	2032 (1282)	
Plasma Materials Interaction Modeling	904 (368)	
Total	6382	
ITER Fraction	2429	

FY06 (Flat)

Thrust Area	Budget ($K)	Percentage
Liquid Metal PFC	2464	35
Solid Surface PFC	1237	17
Plasma Materials Interaction Experiments	2322	33
Plasma Materials Interaction Modeling	1031	15
Total	7054	100
ITER Fraction (same)	2429	34

FY06 (Incremental)

Priority	Thrust Area	Budget ($K) (ITER)	Percentage
4	Liquid Metal PFC	100 (0)	
1	Solid Surface PFC	350 (350)	
2	Plasma Materials Interaction Experiments	215 (215)	
3	Plasma Materials Interaction Modeling	190 (140)	
	Total	855	12
	ITER Fraction	705	82

Description of Incremental requests (listed in priority order)

1. Upgrade to EB-1200 power supply to make it capable of testing ITER First Wall prototypes and eventual testing of ITER production modules
2. Additional diagnostics for TPE and completion of the DiMES upgrade (all ITER relevant)
3. Increased modeling of PMI and SOL at ANL and LLNL ($140K relevant to ITER)
4. Upgrade to MTOR at UCLA to better simulate the NSTX module and diagnostic upgrade at PMTF for NSTX module testing (not ITER relevant)