

**NCSX Fabrication Project Cost and Schedule Estimating Form
(Attachment 1c - FAB)**

WBS: 52 NCSX Central Instrumentation and Control

Activity Title	Manhours	FY2002 \$\$	Labor Type	Start Date Month/Year	End Date Month/Year	Comments
Labor						
Preliminary Design (Title I)	160		ECEM	2/1/06	4/1/06	Baseline requirements
Final Design (Title II)	640		ECEM	4/1/06	8/1/06	Final Design Review
Lab Fab/Assembly/Installation (Title III)	1552		ECEM	8/1/06	4/1/07	Procurement, Installation, test
	600		EESM	8/1/06	4/1/07	Installation racks, hubs, power
Level of Effort						
FY2003	24		ECEM			
FY2004	24		ECEM			
FY2005	24		ECEM			
FY2006						
FY2007						
M&S Costs						
Manufacturing Development						
Purchased Design Services						
Procured Hardware/Material						
Procured Hardware/Material		63		8/1/06	4/1/07	I/O
		15		8/1/06	4/1/07	15 EPICS IOC
		10		8/1/06	4/1/07	11 Operator Interface units
		10		8/1/06	4/1/07	Development SW, Real Time OS SW
		0		8/1/06	4/1/07	Development System
		10		8/1/06	4/1/07	Timing & synchronization channels
Purchased Design Services						
Procured Installation/Assembly Costs						
Other Costs						
Travel		0		8/1/06		
Allocations (WBS 81 only)						

Instructions for Completing Form

- (1) One form for each 3 digit WBS element (e.g., 111, 121, 452, etc.) => if no 3 digit WBS, use 2 digit WBS (e.g., 81, 82, 84)
- (2) For Lab labor, provide estimate in manhours => provide estimate by specific labor type.
- (3) For M&S, provide estimate in FY2002 direct dollars if procured by PPPL, or in fully loaded dollars if procured by ORNL
- (4) Start and end date provided in monthly/year format => March/2003