

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

ESTIMATING FORM-Attachment 1C

**WBS: 613 - Vacuum Pumping Cooling Water System
Rev 1 Remove 50' piping, 4 valves**

Responsibility: L. Dudek

Activity Title	Manhours	FY2003 \$\$	Labor Type	Start Date Month/Year	End Date Month/Year	Comments
Labor						
Preliminary Design (Title I)	40 80		EMEM EADM	8/31/05	11/22/05	
Final Design (Title II)	40 40		EMEM EADM	11/28/05	2/17/06	
Lab Fab/Assembly/Installation (Title III)	80 288		EMEM EMTB	2/22/06	4/14/06	Plumbers
Level of Effort FY2003						LOE Costs covered in WBS 65
FY2004	40		EMEM			Facility Integration
FY2005	20		EMEM			Facility Integration
FY2006						
FY2007						
M&S Costs						
Manufacturing Development Purchased Design Services						
Procured Hardware/Material						
Procured Hardware/Material						
Purchased Design Services						
Procured Installation/Assembly Costs		\$20,500		2/22/06	4/14/06	Escalated to 2003 \$
Other Costs						
Travel						
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 month/year format => March/2003

TOTAL JOB WITH G&A & BURDEN		\$78,440	FY = 98		TASKA= 1	TASKB = 10	PPPL/WO	SUM TASKS A THRU B	#REF!								
MATRL G&A=		0.25	EQUIP TAX = 0.01		TASKC= 11	TASKD = 20	PPPL/WO	SUM TASKS C THRU D	#REF!								
OPER		0	TASKE= 21		TASKF = 30	PPPL/WO	SUM TASKS E THRU F	#REF!	PPPL^^								
BURDEN =			0	0	0	0	0	0	0								
HOURLY RATES =			130	80	80	130	80	80	130								
TASK DESCRIPTION		41MS	48MS	STK	EMEM	EMSM	EMTB	EAEM	EADM	EEEM	EESM	EETB	CECM	W/O B&G	BURDE	G&A	TOT PPL
														***	*****	*****	
1														0	0	0	0
2	Design				80			120						20000	0	0	20000
3														0	0	0	0
4														0	0	0	0
5														0	0	0	0
6														0	0	0	0
7														0	0	0	0
8	Installation				80			288						10400	0	0	10400
9	Piping Installatoin	\$20,000												43040	0	5000	48040
10														0	0	0	0
11														0	0	0	0
12														0	0	0	0
13														0	0	0	0
14														0	0	0	0
15														0	0	0	0
16														0	0	0	0
17														0	0	0	0
18														0	0	0	0
19														0	0	0	0
20														0	0	0	0
21														0	0	0	0
22														0	0	0	0
23														0	0	0	0
24														0	0	0	0
25														0	0	0	0
26														0	0	0	0
27														0	0	0	0
28														0	0	0	0
29														0	0	0	0
30														0	0	0	0
Date of Rates 10/97																	
Rev Date 10/97		20000	0	0	160	0	288	0	120	0	0	0	0	0	0	0	0
TOTAL MAN WEEKS					4	0	7.2	0	3	0	0	0	0	0	0	0	0
EM DIV\$ W/O BUR &G&A		\$43,840															
EA DIV\$ W/O BUR &G&A		\$9,600															
EE DIV\$ W/O BUR &G&A		\$0															
*** DIV		\$0															
***** DIV		\$0															
41 M&S W/O G&A		\$20,000															
48 M&S		\$0															
STOCK W/O G&A		\$0															
					FY98			FY98						FY98			

ASSIGNMENTS

	160	0	288	0	120	0	0	0	0
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TOTAL HRS UNASSIGNED

