NCSX June 2007 ETC TABLE I - DESIGN LABOR

WBS Number: 45							
WBS Title: Power Systems Des	ign Integration	on					
Job Number: 4501							
Job Title: Power Systems Desig	gn Integration	n					
Job Manager: Raki Ramkrishna							
Develop SRD	451-0-2			40			leeded before FDR on WBS4
Calculations-Dsn	451-1-2		8	40			leeded before FDR on WBS4
PDR Prep Power system -Dsn	451-2-2		128	96			leedeed before power Cable installation
FDR C-Site	451-2-2.1		120	80		N	leedeed before power Cable installation
PDR Power system -Dsn	451-2-3					N	leedeed before power Cable installation
Owgs,asbuilts -Elect Dsn	451-3-2		320	320		N	leeded before coil energization
FDR AC auxiliaries & grounding-Dsn	451-4-2		40	40		N	leeded before coil energization
FDR C-Site -Cabling	451-6-2		120	80		N	Needeed before power Cable installation
WBS 452 - Electrical Systems Support							
Diagnostics AC Power Distr-Dsn	452-1-2		160	80			
Diagnostics AC Power Distr-Procure	452-1-4	\$1K	8				
Diagnostics AC Power Distr-Install	452-1-6		80	24	80	640	
Diagnostics AC Power Distr-Commission	452-1-8			24	80	160 N	Needed before first plasma
Diagnostics sensor cabling-Dsn	452-2-2		160	24			
Diagnostics sensor cabling-Procure	452-2-4	\$2K					
Diagnostics sensor cabling-Install	452-2-6			16	32	160	
Diagnostics sensor cabling-Commission	452-2-8			8	16		leeded before first plasma
WBS 453 - System Testing (PTP's)							
New Procedures	453-1-2		160	24		N	Needed before FDR on WBS4
Preop Testing-Procure test equipt	453-1-3	\$20K	199				Needed before coil energization
FF Coil Test	453-1-4	\$1K	8	32	40		Needed before first plasma
PF5 Coil Test	453-1-5	\$1K	8	32	40		leeded before first plasma
Frim Coil Test (per coil)	453-1-6	\$1K	8	32	40		leeded before first plasma
Festing PTPs, ISTPs	453-1-7	\$10K	160	240	320		leeded before first plasma
Totals		\$36K	\$0K 1488	0 1232	648	1530	
Notes on the Basis of Estimate							
1) Design and Fabrication/Installation		- 4l4 DDDI	I FDA666	NOTY 7	This is heads	-11	
Estimate based on estensive experience of engine							
ob modifying existing PPPL systems and re-instal							
drawings needed (new or modified), the effort to re		esigns, interfac	es with other systems, super	vision of on-site cor	ntractors, and	d all	
necessary re-activation and pre-operational testing	g needed.						
2) M&S							
M&S estimated based on similar recent procureme	ents and needed inter	rfaces with insta	allation contractors - this will	be Davis-Bacon cov	vered, except	t tor	
hose activities within the Test Cell.							