## NCSX June 2007 ETC TABLE III - Fabrication and Assembly

WBS Numl	per: 142																
	Windings and Assembly																
					+												
Job Numbe																	
Job Title:	Design of Modular Coil Interfaces	<u></u>			⊥ ∣						<u></u>					⊥ ∣	
	er:David Williamson																
									FY07\$K	<u> </u>							
			တ္က တ	¥	H	≥ (0	<u>@</u>	œ	Σ	Σ	œ	m	Σ	<u> </u>		_	
Task ID		Comments	41M 48M	37S	310	W S	Z	EAS	Ш	SH	EES	<u> </u>	S		ZW.	R <sub>M</sub>	Basis of Estimate
Outboard Interfac	e Design																
IH4-020	Prepare outboard shim dwgs and release						0										see Table V - Basis of Estimate
INTRF-045	FDR outboard shims						0										see Table V - Basis of Estimate
	Resolve CHITs and issue shim drawing						U										see Table V - Basis of Estimate
Bolted Joint Test	<u> </u> <u> </u>													<del>                                     </del>			
	Tension Tests of Bolted Joint																
1421-3067 1421-3075	Procure 2 studs f/joint test.Use existing part Setup test fixture &perform JHA & pre-job brief						48	T						-			see Table V - Basis of Estimate see Table V - Basis of Estimate
1421-3075	Meas joint deflect vs preload & loss of preload				+		24	-						-			see Table V - Basis of Estimate
1421-3079	Measure joint deflec & preload v. temp @80K						24										see Table V - Basis of Estimate
1421-3084	Measure joint deflection&preload v. cooldown cyc						24										see Table V - Basis of Estimate
1421-3087 1421-3081	Perform pullout tests for tapped holes  Meas joint deflect & preload v. time (days) at R				1		24 160							+		$\vdash$	see Table V - Basis of Estimate see Table V - Basis of Estimate
1421-3090	Document&conduct review of test results				+ -		0					<del>                                     </del>		<del>                                     </del>			see Table V - Basis of Estimate
4404 04400	Bolt Shear Test at 77k																Table V. Basic of Fallowsky
1421-3112B 1421-3115B	Procure/fab parts for test&initial assembly Assemble & test						100										see Table V - Basis of Estimate see Table V - Basis of Estimate
1421-3119B	Document test results						0										see Table V - Basis of Estimate
Inboard Interface	Design Coil to coil analysis																see Table V - Basis of Estimate
IH1-001 1421-3125	Determine geometry&location of high COF shims&pl						0										see Table V - Basis of Estimate
1421-3127	Structural analyses to performance rqmts for bol						0										see Table V - Basis of Estimate
1421-3132	PDR to review requirements, design,&development						0										see Table V - Basis of Estimate
	Conduct MC interface FDR																see Table V - Basis of Estimate
AB/BC/AA welder																	
	Prepare winding form mods for weld clamping bolts						0										see Table V - Basis of Estimate
INTRF-050	Complete Shim fabrication drawings (ORNL)  Release information for procurement of shim materia						0										see Table V - Basis of Estimate see Table V - Basis of Estimate
INTRF-055	Release information for procurement of shim materia FDR AB/BC/AA inboard shims						0										see Table V - Basis of Estimate
CC bolted joint	FATABLIAN AND INFRI																**************************************
IH1-000 IH1-0000	ESTABLISH CONCEPT PEER REVIEW OF JOINT CONCEPT						0										see Table V - Basis of Estimate see Table V - Basis of Estimate
	Add bolt holes to C winding form for CC interface	<u> </u>			+ -		0										see Table V - Basis of Estimate
	Bolt Reach and Access study (mockup						0										see Table V - Basis of Estimate
	Prepare CC shim drawlings and release						0										see Table V - Basis of Estimate
Welded Joint Tes	FDR CC inboard shims ts				+		- 0							<del>                                     </del>	-	$\vdash$	see Table V - Basis of Estimate
	Procedure																
INTRF-035	PPPL Determine shim material						0										see Table V - Basis of Estimate
INTRF-001 INTRF-005	PPPL buy SS plate for weld trials Weld distortion trials at PPPL on SS plate				$\perp$		0							-		$\vdash$	see Table V - Basis of Estimate see Table V - Basis of Estimate
INTRF-005	ORNL build pywood mockup of flange				+		0				-			<del>                                     </del>		$\vdash$	see Table V - Basis of Estimate
INTRF-030	ORNL verify weld access, develop alternate welding method						0										see Table V - Basis of Estimate
INTRF-010	Develop Weld Geometry Procedure						0										see Table V - Basis of Estimate
	Test				+												
INTRF-015	Weld trials on two MCWF's at PPPL				+ -		600							<del>                                     </del>			see Table V - Basis of Estimate
INTRF-020	Document results and update weld procedure				$\perp$		0										see Table V - Basis of Estimate
Overell interf													-				
Overall interface INTRF-040	Analysis of tensil loads (ORNL)				+		0				-			<del>                                     </del>	-	$\vdash$	
1421-3134	Develop specs & dwgs for station 2 &3 assy				+		o o	+						<del>                                     </del>			see Table V - Basis of Estimate
1421-3136	Conduct MC interface FDR incl job 1416						0										see Table V - Basis of Estimate
1421-3138	Resolve issues, release assembly spec&drawings						0										see Table V - Basis of Estimate
FY07 Rebaseline	 exercise				+									<del>                                     </del>	-	$\vdash$	
ECP53RBX05	FY07 Rebaseline Exercise				+		0	+						<del>                                     </del>			see Table V - Basis of Estimate
Travol					$\perp \Box$			$-\Box$						$oxed{oxed}$		lacksquare	
<u>Travel</u>	Trips for ORNL personnel to PPPL				+ -									<del>                                     </del>	-	$\vdash$	
	Trips for PPPL personnel to UT MDL					+		- +									
	TOTAL						1020										