## NCSX June 2007 ETC TABLE I - DESIGN LABOR

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WBS Title: Bakeout Syster	ms	1												T	<u> </u>	1	$\neg$										
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Job Title: Bakeout System														<u> </u>													
Job Manager: Mike Kalish																											
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TASK DESCRIPTION	41MS 48MS	37STK	35TRVL	31OT	ORNLEM	ORNLDS N	EMEM	EMSM	EMSB	EMTB	EAEM	EASB	EEEM	EESM	EESB		EETB										
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Design		1	<b></b>			<b>†</b>					<b>†</b>	<u> </u>		$\dagger =$	<del></del>	+-			T	1	1						<u> </u>
Requirements definition							80														TX experience						
Preliminary Design & Review Final Design & Review					160					120									TX experienc TX experienc					 			
EA or ORNL VV Analysis to confirm				<del> </del>	100		-		160										TX experienc		-	-		 	<del> </del>		
ACC Review							40			40																	
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Procrurement & Fabrication/Installatio									-			<del> </del>	<del>                                     </del>			+-				-	-	ļ				 	
Procurement lead time and award		-	<b></b>			<b></b>					<b>†</b>	<b></b>		+	+	+			<b> </b>	-			-	_		 	<b></b>
Piping and Equipment (See Piping Estimate T						ļ			-	1830		ļ	ļ	ļ		-				in Table V.	abor from M	eans				 	ļ
480 VAC Power Service Local Controls	\$5,000 \$3,000	-	<del> </del>						-	80 80				<del> </del>				Based on M Based on M			-	-	-	-		 	-
Ecocal Controls	ψ0,000	+	-			l								-	+	+-		Dasca on 14		-	<b> </b>	1	-			 	
PTP Testing		-	-			-	40		-	120		ļ	-	-		-					-	-		_			-
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TOTALS	\$165,185 \$0	0 \$0	\$0	\$0	0		480	0	U	2150	160	240	0	<u>'</u>	0 (	0	0	<del> </del>	-	-	+					 	
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														ļ													\$0
	Notes:																										
1. Existing PPPL Air Compressor is not a										using	a Gas	t Rege	enerativ	ve Blo	wer												
This estimate is based on a Gast blow     Sestimate assumes once through air sy		at the c	onditio	ons sho	own in	"Calc	Summa	ary" Ta	ab		ļ	ļ	-		-	-		-		-	-	ļ					
4. Estimate assumes once through air sy 4. Estimate assumes 3" 304 SS pipe will		( may r	equire	chang	es hv	nerme	bility i	SSUAC			-		-	-	-	+-	+		-	-	-	-	-	-			
5. Estimate assumes 150 C VV Bakeout	~~ uucquale	, may I	-quii e	July	oo ay j		y 1	ues)		~~~~	<del> </del>	<del> </del>		<del> </del>	+	+	_	<u> </u>	<b></b>	-	<b></b>	-	-				
6. Estimate assumes no VV cooling is re																											
7. Sizing based on approx. 7 kw heat loa	ıd																										
8. Estimate assumes no instrumentation	1															1				-							
9. Rev 1 added Piping Support Towers	llowo					-						ļ				-				-	-	ļ					
10. Rev 2 Added Ceramic Breaks and Be	ellows	+				<b></b>						<del> </del>		+	+	+	-	-	-	-	-	+	+				
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