## NCSX June 2007 ETC TABLE I - DESIGN LABOR

WBS Number: 64																												
WBS Title: Bakeout System	9																											
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Job Title: Bakeout Systems																												
Job Manager: Mike Kalish											1		1															
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	\$1 \$1,000 \$1,716				\$1,716 \$1,716 168.7 168.7				156.5 128.59 108.44			78.33 180.79 116.7			168.88 138.6 138.6 78.33								1	<u> </u>				
TASK DESCRIPTION	41MS	310T	ORNLE M ORNLD SN EMEM EMEM					EMTB	EAEM	EASB	EEEM	EESM	EESB	EETB			В	asis of Estir	nae									
Design																						1	1					
Requirements definition				ļ				80		ļ	ļ		+									TX experien						
Preliminary Design & Review Final Design & Review								160 160					120									TX experien TX experien						
EA or ORNL VV Analysis to confirm								160				160										TX experien						
ACC Review								40			40		<u></u>					Enginee	n mg ju	ugement			1					
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Procrurement & Fabrication/Installatic Procurement lead time and award										ļ																		
Procurement lead time and award																												
Piping and Equipment (See Piping Estimate T	\$157,185										1830	5	+					See Mat	terial T	ake Offs i	i n Table V. l	abor from M	eans	+				
480 VAC Power Service	\$5,000										80	0	1					Based o				1	1	1				
Local Controls	\$3,000									1	80	)	1					Based o	n Mear	ıs			1					
DTD Testing								10		ļ	100																	
PTP Testing								40			120	)	-															
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TOTALS	\$165,185	\$0	\$0	\$0	\$0	0	0	480	0	0	2150	) 160	240	0	0	0	0						-					
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Notes: Not	les:									1	1							-				1		1	1			Ť *
1. Existing PPPL Air Compressor is not ac		nly 22	CFM a	vailabl	e at 10	0 psi. I	Estima	te is ba	ased o	n usin	g a Ga	st Rea	enerati	ve Blow	er							1		1				
2. This estimate is based on a Gast blower											Ĭ	9	1		·							1		1	1			
3. Estimate assumes once through air syst	tem																									1		
4. Estimate assumes 3" 304 SS pipe will be	e adequate	( may	require	e chang	ges by	perme	ability	issues	)		1																	
5. Estimate assumes 150 C VV Bakeout				ļ						ļ	ļ		ļ	ļ														
6. Estimate assumes no VV cooling is requ	uired																											
7. Sizing based on approx. 7 kw heat load																											-	
8. Estimate assumes no instrumentation										ļ				<b>↓</b>													-	
9. Rev 1 added Piping Support Towers 10. Rev 2 Added Ceramic Breaks and Bello	We												+											+	+		~	
TV. Nev 2 Added Gerannic Dreaks and Delic	/113			+									+											+			-	
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