NCSX June 2007 ETC TABLE II - Materials and Subcontracts

						TABLE II - Mat				
WBS N	lumber: 186									
	itle: Tooling Design & Fab	rication								
	ımbers: 1803 & 1805	lication								
			(1000)							
	tles: FPA Tooling & Const									
Job Titles: FPA Hardware & Fixture Procurement (1805)										
Job Ma	anager: Tom Brown									
Materia	Is and Subcontracts (M&S)									
	, ,									
Job 1803	I NONE									
Job 1805										
						PPPL Shop Rate for EMTB (\$/hr) =	81			NEED TO HAVE BAIS OF ESTIMATE FOR BELOW ITEMS
		Unit								
		Weight	\$ per	Unit			Equiv Sho	р		
	Description	(lbs)	Lb	Cost (\$)	Qnty	Cost (\$) Comments	hrs			Basis of Estimate
Stage 2 - A	ssy Fixture Cost (Existing Design)					Estimate is for two Stage 2 units				
	20 Degree Wedge Fixture	11,600	4	46,400	2	\$92,800 Weldment plus some machinings	1,146	20	wks	Based on actual weight of existing fixtures and previous experience on similar tasks
	20 Degree Wedge i ixture	11,000	7	40,400		\$52,000 Weldment plus some machinings	1,140	25	WNS	based on actual weight of existing fixtures and previous experience on similar tasks
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		<u> </u>								
	Rt side laser screen weldment (new parts)	300	4	4.000	0	Estimate is for one Stage 3 unit	20			December 2015 Annual Composition of
	Reworked left side laser screen weldment	300	4	1,200	2	\$1,944 Assumes 3 days of shop time	30 24			Based on current status of CADD Models - previous input from vendors on similar tasks - dwgs completed. Based on previous experience on similar tasks
	Test cell hook adaptor plate	300	7	2,100	1	\$2,100	26			Based on previous experience on similar tasks Based on previous experience on similar tasks - HOWEVER, interface has changes => need new estimate.
	SISSCO 3 Actuator Lift System	000		2,100		\$0 Cost included in Mike Viola's WBS	2.0			Dated on provide expensive or climat tasks. The VEYER, interface has shariged = 7 floor flow estimate.
	MC I-beam upper support at Type-A	579	4	2,316	1	\$2,316 weldment plus some machined structure				Based on CADD model data and previous experience on similar tasks
	MC upper support at Type-C - inboard	160	4	640	1	\$640 weldment plus some machined structure				Based on CADD model data and previous experience on similar tasks
	MC upper support at Type-C - outbd	60	7	420	3	\$1,260 weldment plus some machining				Based on CADD model data and previous experience on similar tasks
	MC base support system (left / rt side)	2,938	4	11,752	1	\$11,752 weldment plus some machined structure	145			Based on CADD model data and previous experience on similar tasks
	VV support system	1,411	4	5,644	1	\$5,644 weldment plus some machined structure	70			Based on CADD model data and previous experience on similar tasks
	Hilman roller - 8-0T plus R & U guides			950	8	\$7,600 Based on Hilman phone quote				Phone quote from Vendor - in 2006
	AirLoc Wedgmount Precision Levelers			315	6	\$1,890 Based on phone quote				Phone quote from Vendor - start of 2007
	Bushnell Laser Boresighter			34.97	7	\$245 Internet price (one spare included) \$0 Shop supplied (included in Viola's estimeate)				
	Flange bolt access platform Hardware & Misc items					\$0 Shop supplied (included in Viola's estimeate) \$1,000	0			Rough estimate based on previous experience on similar tasks,
	Misc assembly Cost					\$8,100 Assumes 2.5 wk shop hours	100			Based on previous experience on similar task
						\$46,891	394	9.9	wks	
Stage 5 - F	inal FP Assembly Fixture Cost					Estimate is for one Stage 5 units				
	FPA base support system	1,500	4	6,000	1	\$6,000 This will be similar to Stage 3, without rollers	74			Based on CADD model data and previous experience on similar tasks
2	AirLoc Wedgmount Precision Levelers	2 200		315	4	\$1,260 Based on phone quote	047			Phone vendor prices off Internet - March 2007
	TF support structure Port 4 handling structure	2,200 500	4	8,800 2,000	2	\$17,600 Structure weldment (estimated weight) \$2,000 Structure weldment (estimated weight)	217 25			Based on CADD model data and previous experience on similar tasks Based on CADD model data and previous experience on similar tasks
5	Hardware & Masc. items	300	4	2,000	1	\$2,000 Structure weidment (estimated weight) \$1,000	23			Rough estimate based on previous experience on similar tasks
6	Misc. assembly Cost					\$8,100 Assumes 2.5 wk shop hours	100.0			Based on previous experience on similar tasks,
						\$35,960 each	416	10.4	wks	
						\$71,920 need two				
Final Mach	ine Assembly Fixture Costs					Estimate for 3 FP's and 3 Spool Fixtures				
	5001			45		0.000				
	FPA base support system AirLoc Wedgmount Precision Levelers	4,000) 4	16,000	3	\$48,000 Structure weldment (estimated weight) \$3,780 Based on phone quote (assume 4 pt supt)	593			Based on CADD model data and previous experience on similar tasks Phone quote from Vendor - start of 2007
3	Spool piece support system	1,000	4	315 4,000	12	\$3,780 Based on phone quote (assume 4 pt supt) \$12,000 Structure weldment (estimated weight)				Phone quote from Vendor - start of 2007 Based on CADD model data and previous experience on similar tasks
	Thomson linear motion components	1,000	4	1000	12	\$12,000 Structure weight (estimated weight) \$12,000 Estimate				Rough estimate based on conceptual design
	FPA base motor driven linear screw system				3	- Existing system already available				
	Spool piece support linear screw system		İ	1500	3	\$4,500 Nook screw system (no motor needed)				Rough estimate based on previous experience - 2006
	Hardware & Masc. items					\$3,000				Rough estimate based on previous experience on similar tasks,
8	Misc. assembly Cosl					\$16,200 Assumes 5 wk shop hours	200			Based on previous experience on similar task
						\$99,480	793	19.8	wks	
	TOTAL M&S					\$311,091 with add'l wedges				
						\$218,291 without add'l wedge]		
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