

NCSX June 2007 ETC
TABLE II - Materials and Subcontracts

Materials and Subcontracts (M&S)																									
Description:	FY07\$K										HOURS										Basis of Estimate				
	41MS	48MS	37STK	35TRV	L	31OT	ORNL EM	ORNL DSN	EMEM	EMSM	EMSB	EMTB	EAEM	EASB	EEEM	EESM	EESB	EETB	ECEM	ECSB		ECTB	RM2	RM3	
Procurement & Fabrication																									
PF Coil RFQ and Procurement													120												Past Experience with procurement of TF Coils
Procurement Vendor Evaluation				5.00								40												Travel to Evaluate Vendors (2trips)	
Conductor Procurement PF4	29.80											16												Outokumpu (Luvata) estimate and internal calculation of weight of CU (adjusted for COMEX prices in mid-May 2007) - See Table V	
Conductor Procurement PF5	38.20											16												Outokumpu (Luvata) estimate and internal calculation of weight of CU (adjusted for COMEX prices in mid-May 2007) - See Table V	
Conductor Procurement PF6	27.30											16												Outokumpu (Luvata) estimate and internal calculation of weight of CU (adjusted for COMEX prices in mid-May 2007) - See Table V	
Conductor Procurement Spare	19.10																							Enough copper to build one spare of any coil, Outokumpu (Luvata) estimate and internal calculation of weight of CU (adjusted for COMEX prices in mid-May 2007) - See Table V	
PF 4 Materials	40.90																							Internal PF4 Estimate - See Table V	
PF 5 Materials	52.77											24												Internal PF5 Estimate - See Table V	
PF 6 Materials	42.00											24												Internal PF6 Estimate - See Table V	
PF 4 Tooling	72.00																							Everson e-mail (B. Umbenaur to M. Kalish) of 4/12/07 - see Table V	
Fabrication of PF4	40.20																							Everson e-mail (B. Umbenaur to M. Kalish) of 4/12/07 - see Table V	
Fabrication of PF 5, Including Tooling	415.00																							Everson e-mail (B. Umbenaur to M. Kalish) of 12/5/06 - see Table V	
Fabrication of PF 6, Including Tooling	485.00																							Everson e-mail (B. Umbenaur to M. Kalish) of 12/5/06 - see Table V	
Fabrication Oversight												784												During fabrication at vendor, 2days per week +80hrs drafting. Based on experience supporting TF Coil Procurement, Coverage is 2 days per week instead of 2.5 because coils are simpler than TF Coils	
Refurbish PF1a												80												Based on engineering evaluation of condition of PF1A	
PF Inspection and Testing												120	60											One week per fcoil set (upper & lower) for EMTB - basis of estimate	
PF1a Assembly												160	40											two technicians for two weeks with oversight - includes assembly of buswork but not fabrication of buswork, Based on engineering judgement and evaluation of the number of parts to assemble	