

**NCSX June 2007 ETC**  
**TABLE II- Materials and Subcontracts**

**WBS Number: 171**  
**WBS Title: Cryostat**  
**Job Numbers: 1751**  
**Job Title: Cryostat Procurements**  
**Job Manager: G. Gettelfinger**

<b>Materials and Subcontracts (M&amp;S)</b>						
<b>Materials</b>			<b>Assumptions</b>		<b>Basis of Estimate</b>	
Purchased raw goods:	\$/unit	# units	Line Total			
<b>Cryostat</b>						
Extren Boards - Ribs	\$493	36	\$17,748	1017.9 sq ft	1017.878 sqft	See McMaster Carr Catalogue Item (see Table V)
Extren Boards - Flats	\$493	48	\$23,664	31.8 4x8 sheets (no waste)	31.8087 31 sheets no waste 1 layer	See McMaster Carr Catalogue Item (see Table V)
Urethane Foam - Cans	\$7	200	\$1,400	47.7 sheets (assumes 50% waste)	47.71305 48 sheets, 33% waste	Current retail price (Home Depot)
1" Rigid Urethane Foam	\$19	288	\$5,472			Current retail price (Home Depot)
Solimide Foam - Joints (bd ft)	\$9	4750	\$42,750	Ribs assume 18 ribs and 2 sheets per rib	Assume 18 longitudinal & 10 horizontal joints	See vendor quote (Table V)
Alum Unistrut (10 ft)	\$25	203.6016	\$5,090		1018.008 linear feet joints long only	
Acrylic Beauty Cover Panels	\$129	48	\$6,192	Assume 18 longitudinal & 10 horizontal joints		See McMaster Carr Catalogue Item (see Table V)
Mylar/Polyester Seal Goods	\$20	20	\$400	1018.008	1583.568 linear feet joints both dir	See McMaster Carr Catalogue Item (see Table V)
Humidity Sensor	\$300	1	\$300		Assume avg solimide joint 6" wde, 6 layers	Omega quote - see Table V
<b>Compliant Penetrations</b>						
Solimide Foam - Penetrations (bd ft)	\$9	800	\$7,200	1583.568	4750.704 board feet	See vendor quote (Table V)
Mylar/Polyester Seal Goods (50 sq ft)	\$20	40	\$800	Assume avg solimide joint 6" wde, 6 layers		See McMaster Carr Catalogue Item (see Table V)
<b>Rigid Penetrations</b>						
Extren Pipe (3" x 10")	\$153	4	\$612			See McMaster Carr Catalogue Item (see Table V)
Urethane Foam - Cans	\$7	40	\$280			Current retail price (Home Depot)
Misc M&S	\$10,000	1	\$10,000			Engineering Judgement
<b>Subtotal M&amp;S</b>			<b>\$121,908</b>			
<b>PPPL Fabrication Support Labor</b>						
				EMTB	<b>Basis of Estimate</b>	
Mech Tech Time (RESA, hrs)				800	Experience in jobs 1409 & 1414	
Water Jet Tech Time (RESA, hrs)				240	Estimate based on interview with waterjet operator	
Test Cell Tech Time (Test Cell, hrs)					Covered in WBS 7	
<b>Subtotal PPPL Support Labor</b>				<b>1040</b>		