NCSX June 2007 ETC TABLE II- Materials and Subcontracts

WBS Title: Base Support Structures

Job Numbers: 1702 and 1752

WBS Number: 172

Job Title: Base Support Structure Design (1702) and Base Support Structure Procurements (1752)

Job Manager: Fred Dahlgren

Materials and Subcontracts (M&S)

Basis of Estimate

Description:

The base support structure is the main gravity load carrying structure (~250,000lbs) for the entire machine. It must provide the gravity load path from the machine and distribute these loads to the test cel floor. It must also be capable of withstanding horizontal seismic accelerations of 0.13g and vertical accelerations of 0.07g.

Purchased parts:	(ft.)	lbs./ft.	\$/lb.	cost	
4 - W12 x 26 x 24' - 316L stainless steel 4 - W8 x 15 x 24' - 316L stainless steel 3/4" - 316L plate 36" x 48" base hub plate 3/4" - 316L plate 36" x 48" top & bottom base column bases Weld rod & roto-bores 12 - Inconel 718 hex bolts 1-8 x 2.5" @ \$55 ea. 12 - Inconel 718 hex nuts 1-8 @ \$38 ea. 24 - 316 SS flat washers 1.03" ID @\$4.26 ea.	96 96 4 4	26 15 95 95	\$7.50 \$7.50 \$7.50 \$7.50	\$18,720.00 \$10,800.00 \$2,850.00 \$3,000.00 \$660.00 \$456.00 \$102.24	Verbal quote StainlessStructurals - recent (early April 2007) - \$/lb Verbal quote StainlessStructurals - recent (early April 2007) - \$/lb Quote , metal suppliers online - See Table V Quote , metal suppliers online - See Table V PPPL Shop estimate - see Table V - adjusted by WBS Manager Quote B&G fabricators - See Table V Quote B&G fabricators - See Table V Catalog item McMaster-Carr - see Table V
Total Materials				\$39,438.24	
Labor - PPPL:	hrs.				
Welding (4hrs @ 48 places) Welding (4hrs @ 24 places) Cut & Drill plates	192 96 75				PPPL Shop estimate - see Table V - adjusted by WBS Manager PPPL Shop estimate - see Table V - adjusted by WBS Manager PPPL Shop estimate - see Table V - adjusted by WBS Manager
Job Totals:	363				