**MUSE Basis of Estimate**

**Element WBS #2**

I. General Information

Task Name: Fiber and PMTs

Unique ID Number

Date of Estimate: 3/20/14 (last update)

Estimate Generator: Guy, Piazetsky, Ransome

Cost Category:

 X M&S

 SWF

Comments:

Vendor Quote Number if Applicable:

Drawing Reference Number or Attachment:

Costing Method: Quotes for fiber and PMTs

Total Task Cost: $34693 (w/o contingency)

Total Contingency: $3470

II. Cost Estimate Breakdown

Cost of each element, along with justification

Assume 103 Yen = $1

Scintillating Fiber: 535,200 Yen = $5196 (two types quoted, equal price, no decision yet on which) to use.

Clear Fiber 535,200 Yen = $5196

Total fiber $10,392 F&A (15%) $1559 Total cost $11,951

PMT 292800 Yen each = $2843

8 PMT total $22,742 (no F&A)

III. Contingency and risk analysis

Based on quotes and delivery times, this is a low technical/cost risk. We use a larger contingency of 10% to account for possible currency fluctuations.



