

WBS Dictionary and Basis of Estimated documents for CDF

The WBS and Basis of Estimated document for the CDF Run IIb project is available in three levels of detail. The highest level document contains only one item for our WBS structured down to the third level. The lowest level document contains every item. The items that have M&S costs associated with them have written explanations for the cost estimate.

Each item will show the total cost for that item, and the resources assigned to them. Material and Services (M&S) costs are indicated by the following resources:

- FNAL EQ – U.S. equipment funds from DOE
- JAPAN EQ – Japanese funds
- ITALY EQ – Italian funds

Contingency is accumulated in our schedule by assigning cost to the resource FNAL CONT. Contingency is calculated on M&S costs with the following general guidelines unless otherwise noted :

- Physicist estimate: 50%
- Engineering estimate: 30%
- Vendor information: 20%
- Vendor quote: 10%

Other resources assigned to the low level tasks constitute labor, and are mostly self explanatory. Labor estimates are based on engineer's or project manager's experience with previous projects. Specifically, the construction of the Run II silicon detector, which was performed at the Fermilab silicon facility was used as the model for labor estimation of this Run IIb detector.