

BOE Discussion February 17 2017

Scope of work: e.g., build 4 HB650 CMs

- Schedule : what needs to get done and in what order
 - requirements
 - design
 - procurement
 - prototyping
 - testing
 - ...
- Then we come along and ask for the **RESOURCES**

to do that work

- M&S and labor

—> **The Basis of
Estimate document**

the reasoning and
justification for the resources
in the RLS

**EVERY TASK IN THE RLS
NEEDS A BOE**

Breakdown :

@ L4 or L5, depending on scope of work

Guidance Document in preparation:

Covers what to discuss

Some examples from LBNF (10489 - Beamline Vacuum) and Mu2e (1674 - LLRF electronics)

Contingency Rules

Management will define:

- level of BOE
- responsible party (L3 manager who made estimate)
- pip2-docdb entry
 - **word form**, with some information preloaded
 - **excel summary**, dumped from P6 -> fill in contingency rule and estimate uncertainty
 - these two documents need to be **consistent in format** across the entire project

- information also has to be consistent with what is in P6

- L3 will need to load supporting documents in the same docdb entry
 - POs for similar purchases
 - Quotes
 - Spreadsheets with documentation/ calculations
(especially useful for similar types of tasks)

like installation!)

- Allan has distributed a structure for the 4 CM types!
- Mu2e example for beam line installation
- information has to be in a format and location that an independent review team can inspect and analyze
 - not links to TeamCenter

- not links to Q: or personal drives

We will revisit these documents at **EVERY** review going forward

- form the cost basis for CD2
- reviewed and updated annually
- doing them well now will make it easier in the future