

EFIG Meeting 8 April 2015

EFIG Attendees: Joe Lykken (chair), Jim Strait, Marzio Nessi, Eric James, Mark Thomson, Elaine McCluskey, Jim Stewart, Jeff Dolph, Mike Headley, Mike Lindgren (ex-officio), Pepin Carolan (ex-officio)
EFIG members not attending: André Rubbia, David Lissauer

Non-EFIG members attending:

AGENDA

- **Wednesday, 8 April 2015**
 - 12:30 - 12:35 Approval of minutes of the last meeting 5'
 - 12:35 - 13:05 EFIG Decision: 30'
Ratify high-level statement of the DUNE/LBNF scope to be presented at CD-1
 - 13:05 - 13:25 EFIG Discussion: 20'
Of the scope division between projects, in particular the LAr purification system and muon detectors for the beamline monitoring
 - 13:25 - 13:55 PMP Discussion 30'
 - 13:55 - 14:00 AOB 5'

Decisions:

1. None

Action Items:

1. Changes to CDR scope document noted below

MINUTES

- Minutes approved from last meeting including Elaine's previous comments
- Scope of work discussion in CDR led by Joe Lykken with posted document (Jim Strait email)
 - General discussion of use of SOW document, it is intended to inform DUNE/LBNF principals about what to include in CDR

Beam

- CF target hall upgrade to fit more capable horns and targets to be included as option, fourth bullet needs revised to discuss target chase atmosphere – Elaine

Near Detector

- Near detector augmentation as stated is superficial with no physics justification, cost range addition should be based on existing detector cost, bullets two, three and five need revision for clarity based on fact that an additional LAr TPC could be a physics requirement when studies are done

- Muon detectors and all are within scope of Near Detector for CDR

Far Detector

- Far detectors 40kt is the basis for physics capabilities plots, fiducial volumes listed as 10kt each, but are actually still TBD until late in program
- Take out 'designated "5a"'
- SBN "results" s/b changed to "experience"
- Dual-phase detector is a portion of the research program, wordsmith accordingly

Items 4) and 5)

- Item 4) discussion: 40kt is to be presented as: 20kt in the base cost but not the later 20kt of detector, this is intended to reflect limits of DOE guidance for the DUNE/LBNF cost range. Words about excavation, cryostats and cryogenics systems for the later 20kt in this context need to be written. Describe in "stages" within item 3) bullets and get rid of item 4)
- Discussion of item 5) scope opportunities resulted in deletion of this item

- Project Management Plan slides from Jim Strait
 - Eric to develop DUNE management portion
- Configuration Management Plan slides from Jeff
 - Eric to develop DUNE change control portion
 - Further discussion at future meetings about elevation of changes to which levels of management
- Next meeting is next Friday afternoon, April 17

Adjourn meeting at 2:17 pm EDT