

PPD Review of COUPP

May 11, 2009

Charge

The committee is charged with reviewing the COUPP 60 kg experiment, including the status of the current phase in the NUMI tunnel and the proposed deployment in a deep underground site. The intent is to help prepare the collaboration for a CD-1 style DOE review (appropriately scaled to the size of the project) that will be scheduled for the fall. Specifically, we would like the committee to evaluate:

- Brief overview of the science goals for COUPP 60 kg and a comparison with other direct detection experiments
- Technical requirements and current status of the 60 kg apparatus
- Organization of the collaboration, particularly the management structure
- Status and plans for WBS, budget and schedule
- Deployment, commissioning and operations schedule for the NUMI tunnel
- Milestones to be achieved at NUMI before moving to deep underground site
- Evaluation of underground sites for deployment of the 60 kg apparatus after the NUMI run
- Deployment, commissioning and operations schedule and budget for a deep underground site
- Documentation and ES&H status
- Proposed funding plan

The committee should be familiar with the previous review:

http://www-ppd.fnal.gov/DivOffice/internal_rd/Reviews.htm

and the collaboration should be expected to address recommendations of the previous review committee in their presentations. We ask that the committee provide a written report jointly to PPD, FCPA and the COUPP collaboration within two weeks after the May 11 review.

The Committee

Fritz DeJong
Debbie Harris
Kurt Krempez
Ron Ray - Chair

Agenda

Location: Hornet's Nest (WH8X)

- 12:00 Executive session
- 12:30 Introductory remarks, Ray, Baller
- 12:35 Overview of technique, collaboration activities and physics goals, Collar [30 min]
- 1:05 Project organization, schedule and budget, Sonnenschein [30 min]
- 1:35 Bubble chamber design and construction, Rucinski [30 min]
- 2:05 Data acquisition, Cooper [20 min]
- 2:25 Video and illumination, Hu [15 min]
- 2:40 Underground infrastructure, water tank and siting issues, Ramberg [20 min]
- 3:00 Summary, Sonnenschein [15 min]
- 3:15 Executive session
- 4:00 Closeout