

Response to DOE 2015 November SBS Review

M Jones

[DOE report](#)

First Recommendation

1. The team should provide to DOE a report on the ECal annealing tests by February 16, 2016. This report should use the beam test data to validate the heat annealing model, and use the model to predict performance under expected operating conditions.

Response: [Report](#) was sent to DOE in March 2016.

Thanks to Andrew, Bogdan and Seamus

Second Recommendation

2. A document describing trigger and DAQ electronics including a timing diagram for the trigger should be provided one month before the next review.

Response: *Need to update existing document.*

Third Recommendation

3. The Laboratory is urged to evaluate the ECal project including the technical feasibility of the annealing solution, and ECal project cost and schedule, by summer 2016.

Response: Bogdan, Seamus and students at working on C200. Report on C200 project in July. Developing a report to compare three options: UV curing, Thermal annealing and BNL Spacal

Executive Summary: Comments

1. The group should formulate a plan for measuring trigger efficiency.

Response: Quote from report : *“It appears possible to investigate trigger efficiencies by loading the memories of the FADC and Fastbus systems with simulated data. “ Can this be done?*

Executive Summary: Comments

2. The ECAL and the polarized ^3He target external dependencies are notably behind schedule.

Response for ^3He target:

- The CDR for target has been written and reviewed.
- Hall A has hired 2 designers. After CDR, workforce requirements at Jlab reviewed with completion by July 2018.

Significance and Merit: Comments

The Collaboration is encouraged to extend the effort on the simulation and analysis framework to include:

- Higher level analysis including tracking, clusters, etc.
- Tracking the spin rotation angle of particles through the spectrometer in order to be able to extract the transverse polarization of the nucleon.
- Analysis of accidentals, by mixing events.
- Trigger efficiency simulations.
- Radiative corrections and form factor extraction methodology.