

**September 4, 2015**

**LArIAT Experiment Operational Readiness Review  
October 13-14, 2015**

**CHARGE**

The LArIAT experiment (Liquid Argon TPC in a Test Beam) has completed the commissioning of its detector and is beginning operations with beam, which may last for 1-2 years. The primary goal of the experiment is to develop a comprehensive characterization of the performance of LArTPC to a variety of charged particles and photons, relevant to future neutrino physics experiments. We would like the committee to review the preparations for running, plans for maintenance & operations of the detectors, and data taking and analysis, including the current status of the detector, the status of the online and offline software, and the run plan.

In particular:

1. Is there a completed Experiment Operations Plan (EOP) document? The document should include (a) a description of operations tasks and how they will be covered, (b) ES&H activities and how they will be managed, (c) organization charts showing the management structure for the experiment and how it interfaces with the laboratory, (d) the model for data processing and analysis including the budget and effort required, (e) a list of the identified resources available, and (f) a description of the roles and responsibilities of each institution together with a list of the support required by each institution from the funding agencies.

2. Has it been demonstrated that the detector is ready for physics-quality data taking? If not, what actions are required to make the detector ready? Is there a clear plan for monitoring the data quality and has the associated infrastructure been tested? If not, what actions are required to adequately monitor the data quality?
3. Is there a well-understood run plan for FY16, consistent with accelerator schedule and performance? Have adequate resources from the laboratory and the collaboration been identified for an efficient and safe running of the experiment and for maintenance of the detector, and is it clear who is responsible for what?
4. Are there robust plans for data processing and data analysis? Have adequate resources from the laboratory and the collaboration been identified for data analysis to meet these goals?
5. Are there clear goals set for reporting and publishing the results from the experiment in a timely fashion?
6. Does the proposed scope and run plan serve the purpose of the neutrino community? Does the committee recommend further actions to ensure full exploitation of the LArIAT program?

We request a brief written closeout report from the committee addressing these questions by October 30, 2015.