Draft charge

Many valuable technical and procedural lessons were learned in the DUNE 35T prototype. At the same time however, failures in several operational and performance aspects must be addressed in order to enhance the prospects for success of first the ProtoDUNE programs and then the Far Detector.

Four areas of concern in particular have been identified by DUNE management:

1. Managerial oversight of the 35T prototype, with particular attention to the review processes used to vet resource allocation and schedule (Management).
2. Interfaces during the design, construction, and operational phase between the 35T detector team and the Fermilab cryogenics team (Cryo).
3. Development and deployment of the data acquisition system (DAQ).
4. Quality assurance and quality control methods, especially in regard to the cold electronics and TPC elements (QA/QC).

For each of these four areas, we ask the review committee to follow the following broad charge and ascertain:

1. The intended plan of action.
2. What actually happened.
3. What, if anything, went wrong in moving from plan to actual?
4. What steps could have been taken, and what steps would be recommended for the future, to better realize planned actions.

Committee members are welcome to make technical comments on any aspect of what they learn of the 35T program. The DUNE management is particularly interested in discovering and correcting any systemic features in the 35T program that need to be improved for the much larger scale ProtoDUNE program and the development of the full detectors at SURF.

The committee will prepare a “findings-comments-recommendations” report to be delivered to the DUNE management team on the second day of the review.

Committee members will additionally invited to present any individual findings, comments, or recommendations within a week of the review close-out.