

## **npdy Experiment Design Review**

Dear Friends,

Thank you for agreeing to participate in the NPDGamma Experiment Design Review. The NPDGamma will be the first experiment on the fundamental nuclear physics beam line 13 planning to run in 2008-2009. The purpose of the review is to conduct a design review of the experiment and especially the liquid hydrogen target system.

### **Charge:**

The Committee is asked to report to Geoff Greene.

We would particularly appreciate detailed comments to the following safety and operational issues:

- 1) Have hazards been completely identified and accurately classified?
- 2) Is the design reasonable and does it adequately address identified hazards?
- 3) In particular, is the conceptual design for the liquid hydrogen system (target, control system, vent stack) capable of leading to an acceptable final design of the system?
- 4) Are the proposed operational parameters and physical characteristics of the hydrogen target system appropriate for safe operation?
- 5) Are other aspects of the experiment reasonable and amenable to safe operation?

We also welcome comments on any other issues of concern to the committee.