



Memo

date: April 14, 2004

to: W. Weng

from: T. Kirk *Associate Laboratory Director, HENP*

subject: BNL Internal Review of the AGS-Based Super Neutrino Beam Upgrade

The future plans for BNL to become the Super Neutrino Beam source for a Very Long Baseline Neutrino Oscillations Experiment will depend upon our ability to present a proposal in the coming months for this beam that is based on a well-developed conceptual design, cost estimate and proposed schedule. Your R&D group in the C-AD has been working for several months on a new design report to meet this need. By this memorandum, I am charging you to prepare and present to a BNL Internal Review Committee, the results of your design study and report. We will use this review to critique and improve the coherence of the draft report that you are preparing.

The BNL Internal Review will be held on Thursday and Friday, June 10-11, 2004 in a room to be determined at BNL. The Review Committee will be composed of:

Mike Harrison	Tom Kirk, Chair
Derek Lowenstein	Thomas Roser
Nick Samios	Mike Schaeffer

We will be meeting to clarify an Agenda for the review, but it should basically follow the Table of Contents of the conceptual design report and this report, in turn, needs to address all the main topics of the Super Neutrino Beam design. These topics comprise: 1-GeV Superconducting Linac; 2.5 Hz AGS Power Supply; upgraded AGS RF Systems; AGS proton beam injection and extraction; other AGS accelerator systems as required; Primary Proton Beam Transport to the neutrino target; 1-2 MW Neutrino Target and Focusing Horn System; Decay Pipe and Beam Dump System; Near Detector Enclosure and its beam-monitoring mission; Conventional Construction for housing the new systems; a new Cost Estimate with bottoms-up contingency; and a credible Construction Schedule with logistics that are consistent with RHIC running up to 37 weeks per year. For purposes of this study, assume FY 2008 as the first year of actual construction.

In preparation for the review, you should provide to the Review Committee, a draft version of the report you will be presenting on Thursday, June 3, so they will be familiar with the material you present in the review. The Review Committee will present a brief report of the review with suggestions to your working group within two weeks after the review.

I am available for questions.

Cc: Review Committee Members

Memorandum to RHIC Spokespersons
October 3, 2003

E. Zukowski