



Memo

Date: June 8, 2007
To: A. Schwarz, Office of Sponsored Research
From: M. Davis, NEPA/NHPA Coordinator 
Subject: NEPA Review of BNL Proposal

I have reviewed the following BNL proposal as required by 10 CFR 1021, DOE's Rules for Implementing the National Environmental Policy Act.

- Development of Ampere-class High Brightness Injector; PI: I. Ben-Zvi, C-AD

The proposed action will build and test a 703.75 MHz superconducting, laser-photocathode SRF injector, comprising a SRF gun and its cryomodule, a diamond-amplified photocathode, cathode insertion mechanism, high-power RF couplers, high-temperature superconducting solenoid and Z-bend ERL beam-merger system. The device would be developed/constructed in Building 912 of the AGS facility, and will and will serve as the prototype for the Energy Recovery Linac injector for RHIC-II. The scope of work includes design, procurement, fabrication, and testing phases.

It is my opinion that the proposed action falls within the scope of the original RHIC-II project NEPA review BNL-455 "RHIC II", determined to be categorically excluded by DOE-BHSO in July 2002, and subsequent NEPA review of the scope revision to RHIC-II e-cooler (Dated 7/13/06). This review has been coordinated with C. Polanish, NEPA Coordinator for the DOE Brookhaven Site Office. This document should be maintained as part of the project NEPA documentation. If you have questions about this review please do not hesitate to contact me at extension 2165.

cc: Goode, Green, Lee, Lessard, Polanish, Selva, Van Essendelft

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