

**National Environmental Policy Act (NEPA) Categorical Exclusion (CX) Determination**

**A. SSO NEPA Control #: SS-SC-11-02**

**B. Brief Description of Proposed Action:**

SLAC has a long-term schedule for the disassembly and disposition (D&D) of metal objects released for offsite disposal from the SLAC B-Factory Detector (BaBar) and the upgraded SLAC positron-electron collider (PEP-II) experiments. As part of this effort, SLAC is proposing to install and operate a radiation portal monitor (RPM) to measure high-energy gamma radioisotopes of trucks transporting metals offsite. The proposed structure comprises two upright columns, one on either side of a turnout lane along the road toward SLAC's south gate at Alpine Road. Vehicles exiting the site will be directed to drive between the columns to have their cargo surveyed. The RPM will provide additional verification that no radioactive metals are leaving the site. This verification is a supplement to normal site radiation survey procedures and protocols for offsite removal of materials used in research at SLAC.

The installation of the RPM and the construction of the turnout lane are adjacent to a previously disturbed area currently covered with asphalt and gravel. No potential archaeological resources or sensitive environmental areas are in the vicinity. The monitor will also be equipped with a vehicle speed sensor, visual alarm, and a remote monitoring user-interface.

**C. Number and Title of the Categorical Exclusion Being Applied:**

B2.2 Installation of, or improvements to, building and equipment instrumentation (including, but not limited to, remote control panels, remote monitoring capability, alarm and surveillance systems, control systems to provide automatic shutdown, fire detection and protection systems, announcement and emergency warning systems, criticality and radiation monitors and alarms, and safeguards and security equipment).

**D. Regulatory requirements in 10 CFR 1021.410 (b)**

A. The proposed action fits within a class of actions that is listed in Appendix A or B to Subpart D in 10 CFR Part 1021.

For classes of actions listed in Appendix B, the following conditions are integral elements; i.e., to fit within a class, a proposal must not:

- A. Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive Orders;
- B. Require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities, but may include such categorically excluded facilities;

- C. Disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist the environment such that there would be uncontrolled or unpermitted releases; or
- D. Adversely affect environmentally sensitive resources (including but not limited to those listed in paragraph B.(4)).
- B. There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal; and
- C. The proposal is not “connected” to other actions with cumulatively significant impacts, and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211.

**D. Determination:**

Therefore, I recommend that the proposed action be categorically excluded from further NEPA review and documentation.

SIGNATURE ON FILE

Dave Osugi  
NEPA Coordinator  
SLAC Site Office

1/28/11

Date

Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class of actions, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

SIGNATURE ON FILE

Gary S. Hartman  
SC NEPA Compliance Officer  
Integrated Support Center, Oak Ridge Office

1/31/11

Date

**SSO File: DOE O 451.1B**