

## SLAC MEMORANDUM

**To:** Keith Jobe and Javier Sevilla  
**From:** Fire Protection Safety Committee  
**Date:** March 29, 2002  
**Subject:** Preliminary review of the 8-Pack Project

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Thank you for your presentation at the special Fire Protection Safety Committee meeting on March 11, 2002. The information presented by Keith Jobe and Javier Sevilla and the documentation they provided as part of the FPSC review process is the basis for the FPSC findings and recommendations. At this point in time the FPSC finds the plans provided to the committee thus far are acceptable.

This project is installing fire protection equipment designed to detect fire at its earliest stages and turn off power to the affected equipment. The HSSD system gives a very early indication of pre fire conditions allowing for the automatic and rapid control of a potential incident. Items 1-7 below have been identified and reviewed as part of the 8-Pack project.

- 1) The Instrumentation racks on the "dance floor", the 8-pack Modulator and its support racks will be monitored by High Sensitivity Smoke detection technology.
- 2) The under floor area of the "dance floor" will be monitored by smoke detectors.
- 3) The temporary 100kW and 500kW power supplies will have smoke detection devices that will monitor the power supply.
- 4) The 8-pack modulator, most of the equipment in its support racks, and the power supply (100 kW or 500 kW) will be de-energized by the controller PLC upon loss of a permit signal from the fire system.
- 5) High voltage cables and connections will be protected by arc detection and suppression circuitry in the high voltage power supplies.
- 6) One existing pull station will be relocated to a location closer to the exit door shown on drawing ID-293-129-62-C0.
- 7) The existing main electrical disconnect buttons will turn off all electrical power to the NLCTA equipment and the 8-pack equipment in End Station B.

Action item: The detailed design and installation, including the specific equipment ventilation and airflow of items 1-3 shall be reviewed and approved by the SLAC fire marshal.

Items A and B were noted as part of the FPSC reviews and are not part the 8-pack project.

- A) Existing fire protection equipment; Horn and Strobe evacuation devices, the two bottle manual CO2 system, pull stations, and portable fire extinguishers will be retained and maintained.
- B) Fire lane and Parking space striping needs review and implementation next to ESB.

Should you have any questions or comments on the above, please give me a call at x3924. In preparation for the committee's final review and approval please let us know when more information is available on the power supply units (item 3).