HAZARD ANALYSIS - LOW VOLTAGE & HIGH CURRENT TEST ELECTRONICS RACKS

Description of Work: Low-voltage (less than 50 volts), high-current (>10 amps operating or 50 amps capability) power supplies are used in system test racks in the ESE Department. Installation and use of these supplies presents the following safety hazards.

Step/Phase of Job	Safety Hazard	Precautions/Safety Procedures
Installation	Muscle and joint strain, pinch, cut, and smash hazard.	Use safe lifting methods including assistance and correct posture. Evaluate need for personal protection equipment (PPE) for hands.
Installation	Electrical hazards including fire and welding.	Ensure that power supply is disconnected from mains and measure the output connections to confirm that no residual energy is stored within the module.
Installation	Heat and fire hazards.	Ensure that high current conductors are sized correctly to safely carry at least the fault current needed to trip safety devices. Ensure that high current connections are secure and will not easily become loose.
During Use	Electrical hazards including fire and welding.	Regularly check that high current connections at both the supply and the load are secure and have not become loose.

Accepted: _____ Date: _____

Supervisor/Task Manager

My supervisor has reviewed this hazard analysis with me and I understand the hazards and required precautionary actions. I will follow the requirements of this hazard analysis or notify my supervisor if I am unable to do so.

Name (please print)	Signature	Date