

**NIELSEN DILLINGHAM BUILDERS INC.
FORM S+H 5-1 JOB HAZARD ANALYSIS**

JOB HAZARD ANALYSIS		Date:12/13 /99
Contract: LLNL - CSP6/10		Phase: Energizing Electrical Equipment
Group/Contractor/ Subcontractor/Subtier: Nielsen Dillingham Builders Inc.		Location: CSP 6/10 LLNL
ACTIVITY/ OPERATIONS	UNSAFE CONDITION, ACTION or OTHER HAZARD	PREVENTATIVE or CORRECTIVE ACTION THAT WILL BE TAKEN
Site Safety Inspection	Personnel & Property Damage	Mandatory Safety meeting to discuss energizing of equipment.
		Visual check of main switch board, transformers, and panels.
		Approval of testing documents for switch gear panel, transformers, and feeders.
		Lock all panel doors. Lock and tag all feeder breakers in main switch board.
		Place warning signs on panels to be energized.
		Lock electrical room. Limit keys to Contractor (General Foreman & Foreman), NDBI, and LLNL.
Energize	Personal & Property Damage	Make sure Load is in OFF Position.
		Use radios for direct communication.
		General Foreman to initially turn on any Breaker 100 Amps or larger.
Live Load Centers	Electrocution	Check voltage using voltage tester and insulated gloves.
		Lock panel doors or disconnect handle.
		Verify unit is labeled with proper signs. (SEE ATTACHED).
		Disconnects with no load to get tag // sign only. By using visual inspection.
Energize Branch Circuits	Electrocution	Foreman to verify circuit is clear, ready, and safe for energizing.
		Visually inspect for open wiring, open boxes, prior to energizing any circuit.
Work in Hot Panels	Electrocution, Arc Blast, Equipment Damage.	LLNL to be notified prior to any work. NO EXCEPTIONS!
		Contractor Electric Company policy is "that no one works on live equipment". Contractor will follow lock out / tag out procedures per OSHA regulations.
Tools and Equipment	Electrocution	Voltage testers, insulated miscellaneous tools-gloves, hard hats and safety glasses

Group/Contractor/Subcontractor Concurrence

Subtler Review