

SAFETY COMPLIANCE CHECKLIST

Electrical Systems

Scope: Equipment, switches, breakers, fuses, switchboxes, junctions, special fixtures, circuits, insulation, extensions, tools, motors, grounding, NEC compliance.

General		29 CFR 1910
	Is compliance with OSHA for all contract electrical work specified?	
	Are necessary switches opened, locked out and tagged before electrical equipment or lines are services, maintained, or adjusted?	
	Are portable electrical tools and equipment grounded or of the double-insulated type?	
	Do extension cords being used have a grounding conductor?	
	Are ground-fault circuit interrupters installed on each temporary 15 or 20 ampere, 120-volt AC circuit at locations where construction, demolition, modifications, alterations, or excavations are being performed?	
	Are all temporary circuits protected by suitable disconnecting switches or plug connectors at the junction with permanent wiring?	
	Are clamps or other securing means provided on flexible cords or cables at plugs, receptacles, tools, equipment, etc., and is the cord jacket securely held in place?	
	Are all cord, cable, and raceway connections intact and secure?	
	Are all electrical raceways and enclosures securely fastened in place?	
	Are all energized parts of electrical circuits and equipment guarded against accidental contact by approved cabinets or enclosures?	
	Is sufficient access and working space provided and maintained about all electrical equipment to permit ready and safe operations and maintenance?	.303(g)(1)
	Are all unused openings (including conduit knockouts) in electrical enclosures and fittings closed with appropriate covers, plugs, or plates?	
	Are electrical enclosures such as switches, receptacles, junction boxes, etc., provided with tight-fitting covers or plates?	
	Are disconnecting switches for electrical motors in excess of 2 horsepower rated equal to or in excess of the motor hp rating).	
	Do motors driving machines or equipment which could cause injury from inadvertent starting, provide low voltage protection in the control device?	
	Is each motor disconnecting switch or circuit breaker located within sight of the motor control device?	
	Is each motor located within sight of its controller or the controller disconnecting means capable of being locked in the open position, or is a separate disconnecting means installed in the circuit within sight of the motor?	
	Is the controller for each motor in excess of 2 horsepower, rated in horsepower equal to or greater than the rating of the motor it	

Electrical Systems (continued)

	serves?	
House-keeping		
	Are exposed wiring and cords with frayed or deteriorated insulation repaired or replaced promptly?	
	Is it prohibited to use multiple plug adaptors?	
	Are flexible cords and cables free of splices or taps?	
First Aid		
	Are employees who regularly work on or around energized electrical equipment or lines instructed in CPR methods?	
	Are employees prohibited from working alone on energized lines or equipment over 600 volts?	
	In wet or damp locations, are electrical tools and equipment appropriate for the use or location or otherwise protected?	
Fire Protection		
	Is the emergency numbers 911 (MSFC network phone) or 544-4357 (4-HELP) posted?	
	Are electrical installations in hazardous dust or vapor areas? If so, do they meet NEC for hazardous locations?	
	Are appropriate fire extinguishers mounted, located and identified so that they are readily accessible to employees?	.157(c)(1)
	Are all fire extinguishers inspected and recharged regularly, and noted on the inspection tag?	.157
	Are electrical equipment parts which normally produce arcs, sparks, flames, or molten metal enclosed and separated from all combustible materials?	.303(d)
	Are circuit breakers accessible to personnel, protected from physical damage, and located away from ignitable material?	.304(e)(1)(iv)
Personal Protective Equipment		
	Are rubber protective gloves, sleeves, matting, blankets, hoods, or line hose provided as needed to protect against electric shock?	.137(b)
	Is electrical protective equipment maintained in a safe and reliable condition?	.137(b)
Markings		
	Is the manufacturer of electrical equipment identified on the equipment?	.303(e)
	Are the necessary voltage, wattage, or current ratings labeled?	.303(e)
	Do circuit breakers clearly indicate whether they are in the "on" or "off" position?	.304(e)(1)(v)
	Are box covers permanently marked "High Voltage"?	.305(b)(3)
	Is electrical protective equipment marked according to class and type?	.137(a)(1)