

HOT WORK CLASSIFICATIONS AND SAFETY REQUIREMENTS MATRIX

SECTION 8.6 & APPENDIX 3

HOT WORK CLASS		TEST & TROUBLESHOOT BRANCH CIRCUITRY	ENERGIZED BRANCH CIRCUITRY & TESTING		ENERGIZED PANELS, MCC's & EQUIPMENT		ENERGIZED SWITCHBOARDS / SWITCHGEAR BUSS DUCT		ENERGIZED SWITCHBOARDS / SWITCHGEAR BUSS DUCT		MEDIUM VOLTAGE	
ELECTRICAL EXPOSURES		CLASS 1	CLASS 2		CLASS 3		CLASS 4		CLASS 5		CLASS 6	
EXAMPLES		600V MAX 60 AMP MAX	NO DIRECT TOOL CONTACT WITH LIVE PARTS OTHER THAN A TESTER	600V MAX 60 AMP MAX	"TOOL CONTACT" OR CLOSE PROXIMITY (NOT IN PANELS)	600V MAX 400 AMP MAX	"DIRECT" TOOL CONTACT OR PROXIMITY TO ENERGIZED PARTS	600V MAX 600 AMPS & LARGER	NO DIRECT TOOL CONTACT WITH LIVE PARTS (OTHER THAN A TESTER)	600V MAX 600 AMPS & LARGER	"DIRECT" TOOL CONTACT	OVER 600 VOLTS SWITCHING AND TESTING
		NOT IN PANELS Non-disruptive testing & visual inspections or circuits without removing or disconnecting the conductor or device Troubleshooting branch circuits Removal of covers, visual inspections and voltage testing in J-boxes, Light fixtures, Switches, Receptacles, Motors, Mechanical Equipment, Time Clocks & Low Voltage Control Panels. Disconnects 600 AMPS & Less Testing Meter on known live circuit & Life Safety Check is Class 0. (NOT HOT WORK)	NOT IN PANELS Landing the de-energized loadside of an energized disconnecting means Disrupting branch circuits while energized Branch taps, removal and/or installation of devices on energized branch circuitry: • Ballasts • Light Pole Fuses • Photo Cells • Receptacles • Switches • Dimmers & Branch Circuits • Starters / Contactors Removal of wire nuts from energized circuits	ENERGIZED PANELS 400 AMPS OR LESS ENERGIZING A NEW SERVICE Pulling panel covers on energized panels Drilling or using a KO punch in energized panels Pulling or terminating wire in energized panels Adding breakers in energized panels Pulling / stabbing Meters, every type Removing / adding wires on load side of a meter Working in / on energized MCC's, Starters, Transfer Switches, VFD's and Non-utility transformers	ENERGIZING A NEW SERVICE Testing & Troubleshooting in/on energized switchboards, switchgear, or buss duct Terminating, pulling or removing feeders in/from switchboards / switchgear (NOT ON LIVE PARTS) Work on buss ducts Stabbing buss plugs Switching loads M* = Mandatory PPE when inserting / removing buckets or circuit breakers w/ doors open or panels removed. Removing bolted covers to expose bare energized parts.	Tapping live components Adding breakers Working on the line side of meters Drilling / Tapping a buss for connection Removing insulation for exposure to connect Adding bussing for additional sections or breaker fingers Clean & Torque procedures M* = Mandatory PPE when inserting / removing buckets or circuit breakers w/ doors open or panels removed. Removing bolted covers to expose bare energized parts.	NOT TO BE PERFORMED WITHOUT MANAGEMENT APPROVAL M* = For ALL work over 600 volts and racking in breakers					
SAFETY REQUIREMENTS	CALL-IN	O	O	M	M	M	M	M	M	M	M	
	HW PERMIT / JHA	O	M	M	M	M	M	M	M	M	M	
	MOP REQUIRED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	QUALIFIED WORKER AUTHORIZATION	M [PS/ST]	M [PS/ST]	M	M	M	M	M	M	M	M	
	STAND BY PERSON	O	O	M / M^	M	M	M	M	M	M	M	
	HARD HAT / SAFETY GLASSES	M	M	M	M	M	M	M	M	M	M	
	CLASS 0 GLOVES	M	M	M	M	M	M	M	M	M	N/A	
	CLASS II GLOVES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CLASS II GLOVES
	8 CAL FR SUIT	N/A	N/A	M / 277 / 480 V BRANCH CIRCUITS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8 CAL SUIT W/ SOCK	N/A	N/A	M / PANELS & DISCONNECTS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
25 CAL FR KIT	N/A	N/A	N/A	N/A	N/A	N/A	M / 1,200 AMPS & LESS	M / 1,200 AMPS & LESS	M / 1,200 AMPS & LESS	N/A	N/A	
65 CAL FR KIT	N/A	N/A	N/A	N/A	N/A	N/A	M / 1600 AMPS & GREATER	M / 1600 AMPS & GREATER	M / 1600 AMPS & GREATER	N/A	65 CAL FR SUIT	
MANAGEMENT APPROVAL	Means all direct contact work in Class 6, other than testing & troubleshooting, requires authorization from Chris Lasater, Bill Memory or Troy Brainard. (will require a meeting to review the work)								N/A	M		

LEGEND
M = Mandatory use of item or step
M^ = Stand by not required for demand services with call-in
O = Optional as determined by the qualified worker's hazard assessment
MOP = Written Method of Procedures required
JHA = Written Job Hazard Analysis required
N/A = Not Applicable
M* = PPE Mandatory by NFPA 70E Standard for certain tasks & voltages
[PS/ST] = Qualified Project Superintendents and Service Techs have authorization to perform Class 1 & 2 hot work
Class O = Testing meter on a known live circuit / life safety check / receptacle check-out (Not Hot Work)