



## Hazard Analysis Documentation

Nominal System Voltage (phase to phase)	Limited Approach Boundary		Restricted Approach Boundary; Includes Inadvertent Movement Adder	Prohibited Approach Boundary
	Exposed Movable Conductors	Exposed Fixed Circuit Part		
Less than 50 Volts	Not Specified	Not Specified	Not Specified	Not Specified
50 to 300 Volts	10 ft 0 in.	3 ft 6 in.	Avoid Contact	Avoid Contact
301 to 750 Volts	10 ft 0 in.	3 ft 6 in.	1 ft 0 in.	0 ft 1 in.
751 V to 15 kV	10 ft 0 in.	5 ft 0 in.	2 ft 2 in.	0 ft 7 in.
15.1 kV to 36 kV	10 ft 0 in.	6 ft 0 in.	2 ft 7 in.	0 ft 10 in.
36.1 kV to 46 kV	10 ft 0 in.	8 ft 0 in.	2 ft 9 in.	1 ft 5 in.
46.1 kV to 72.5 kV	10 ft 0 in.	8 ft 0 in.	3 ft 2 in.	2 ft 1 in.
72.6 kV to 121 kV	10 ft 8 in.	8 ft 0 in.	3 ft 3 in.	2 ft 8 in.
138 kV to 145 kV	11 ft 0 in.	10 ft 0 in.	3 ft 7 in.	3 ft 1 in.
161 kV to 169 kV	11 ft 8 in.	11 ft 8 in.	4 ft 0 in.	3 ft 6 in.
230 kV to 242 kV	13 ft 0 in.	13 ft 0 in.	5 ft 3 in.	4 ft 9 in.
345 kV to 362 kV	15 ft 4 in.	15 ft 4 in.	8 ft 6 in.	8 ft 0 in.
500 kV to 550 kV	19 ft 0 in.	19 ft 0 in.	11 ft 3 in.	10 ft 9 in.
765 kV to 800 kV	23 ft 9 in.	23 ft 9 in.	14 ft 11 in.	14 ft 5 in.

### Shock & Arc Flash Risk Assessments

- 1) Identified Shock Hazards:

Identified Arc Flash Hazards

- 1) Assessed Safe Plan of Action from all parties involved? Yes No
- 2) Make Shock & Arc Flash Risk Decision: Is it safe to proceed?  
If no, detail and contact Site Supervisor:  
Yes No
- 3) Implement Controls:
  - a) Shock & Arc Flash Risk Boundaries set? Yes No  
Voltage:  
Limited Approach:      Restricted Approach:      Prohibited Approach:  
Arc Flash Boundary:
  - b) PPE required:  
Yes No
- 4) Supervise Implementation of Controls: Successful? Yes No

**Arc Flash Risk Assessment Note:** For systems that are 600 volts or less, the Flash Protection Boundary shall be a minimum of four feet. An engineering analysis must be performed to determine the Flash Protection Boundary for systems that are above 600 volts.

Qualified Electrician: \_\_\_\_\_ Date: \_\_\_\_\_