

Table 2. Electrical Working Spaces (Control Zones), Rev. 4

This table was derived from NFPA 70E, Standard for Electrical Safety Requirements for Employee Workplaces.

| Column Number 1 | | 2 | 3 | 4 | 5 | 6 | |
|--|---------------------------------|--|--|--------------------------------------|-------------------------------------|-------------------------------------|--|
| Requirements for work within listed distances | | Warning and Appropriate Personal Protective Equipment made available | | | | | |
| | | | Qualified level training required | | | | |
| | | | | | | Authorized Personnel ONLY | |
| | | | | | | | Working On or Near Energized Conductors |
| Nominal System Voltage Range (Phase-to-phase) | Typical BNL Hazard Range | Flash Protection Boundary | Limited Approach Boundary | | Restricted Approach Boundary | Prohibited Approach Boundary | |
| | | | Exposed Movable Conductor(s) (Overhead lines) | Exposed Fixed Circuit Part(s) | | | |
| | | Energized Part to Employee - Distance in Feet - Inches | | | | | |
| Up to 50 V | "A" | 0'-6" | 0" | 0" | 0" | 0" | |
| 50 to 300 V | "B" | 3'-6" | 10'-0" | 3'-6" | 0'-1" | Avoid contact | |
| 301 to 750 V | "C" | 3'-6" | 10'-0" | 3'-6" | 1'-0" | 0'-3" | |
| 751 V to 2 kV | "D" | 4'-0" | 10'-0" | 4'-0" | 2'-0" | 0'-7" | |
| >2 to 15 kV | "D" | 16'-0" | 10'-0" | 5'-0" | 2'-2" | 0'-10" | |
| >15 to 36 kV | "D" | 19'-0" | 10'-0" | 6'-0" | 2'-7" | 1'-5" | |
| >36 to 48.3 kV | "D" | 21'-0" | 10'-0" | 8'-0" | 2'-10" | 2'-1" | |
| >48.3 to 72.5 kV | "D" | 25'-0" | 10'-0" | 8'-0" | 3'-3" | 2'-8" | |

Clearances required by OSHA for construction projects may be greater than stated above, as per 29 CFR 1926.416(g)(2)(i,ii). Consult the Laboratory Electrical Safety Officer for required clearances of construction activities in areas containing high voltages or for voltages greater than those listed above. Clearances as stated above are required for work on or adjacent to live sources capable of either fault currents greater than 10 mA or instantaneous release greater than 10 J.