

**Prevent Building Shutdowns and increase safety per NFPA 70E**

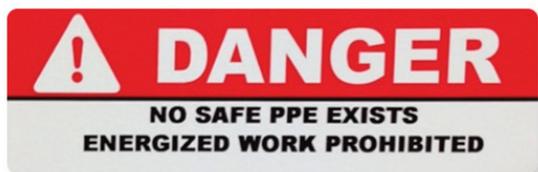
*NFPA 70E states that approximately 30,000 shock accidents occur each year and 2000 people are admitted to hospitals every year due to arc flash burns.*

Arc flash temperatures can reach 35,000 degrees which cause instant burns and ignition of clothing. Arc blast explosive expansion of surrounding air and metal in the arc can create sound levels over 160 dB and expel molten metal fast enough to penetrate the human body.



Special Personal Protective Equipment (PPE) is available; however, since fire pump controllers are connected to service entrance sources with virtually unlimited energies, PPE is not likely to be available.

With PPE not available, energized work is not permitted. No exceptions! In this situation, the only way for a technician to open the door on the fire pump controller is to have the service to the building shutdown.



There is a better way! **The Master way.**

Design out the hazard or reduce the risk as recommended in section O.2 in NFPA 70E. We do this with our EC series options PPE0 and 48J.

With Master option PPE0, all of the critical control components are located inside a separate low voltage enclosure that can be accessed from the outside without opening the main door.

With Master option 48J, all of the remote signals to and from the controller are connected to terminals in a separate junction box that can be accessed from the outside without opening the main door. The remote alarm terminals can then be safely installed and jumpered for testing.

Both these options prevent exposing the technician to lethal energies and molten metal. Being less than 50 volts and from a source less than 50 VA, there is no shock or arc flash hazard to access these components.

