

Increase the Safety of your Employees. Increase your bottom line!

Did you know that 5-10 people per day go to burn centers due to arc flash incidents? IEEE and one large utility conducted a historical study over 52 years and found that they had 1 arc incident every 18 months. 700 people per year die in the US alone due to arc flash incidents. These dismaying statistics in conjunction with the new standards developed by OSHA, IEEE, NEC, and NFPA have significantly increased the awareness of the risks and hazards associated with arc flash incidents.

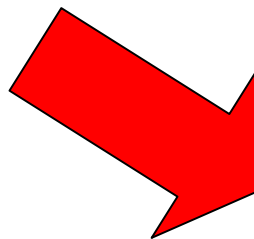
ABB also understands you are looking for ways to increase the reliability of your system while reducing operating and maintenance costs. Often, loss of revenue due to failed equipment or downtime can run into the millions.

Fortunately, ABB is in a position to partner with you and your company by offering you the most complete personnel and equipment protection to meet these challenges with the following solutions:

- **SafeGear** (Arc Resistant Switchgear: Type 2, Type 2B and Type 2C). *Think of it as your Seatbelt.* Provides maximum protection to people under normal operating conditions by eliminating the potential of injuries or even death during an arc flash accident. In fact, NFPA 70E-2009 recently defined the Hazard Risk Category (HRC) and PPE for different work classifications for both conventional and arc resistant switchgear. For example, when using SafeGear with all doors closed the HRC is reduced to "0" as compared with an HRC of "4" when using conventional switchgear. The changes in the PPE required can be dramatic, as the illustration below shows. How would you like to have your people go from working on energized switchgear wearing Category "4" PPE to Category "0" PPE? Furthermore, Arc resistant switchgear reduces the damage to adjacent equipment thus reducing repair costs and downtime.



Category "4" PPE



Category "0" PPE

- **REA.** *Think of it as the Airbag in your car. The REA is always there whether you wear your PPE or not.* The REA is designed to complement SafeGear and works when the equipment is opened (and energized) for maintenance. The REA does not eliminate the need for PPE but may reduce the PPE required by lowering, in some cases, the incident energy by almost 80%. This not only reduces or eliminates the probability of serious injury or death to personnel during an accident but limits the damage, thus reducing the time to repair the equipment and the repair costs.
- **AMVAC.** *Think of it as eliminating the need to drive your car as often.* Magnetic actuated breakers eliminate the need for most maintenance and repairs thus keeping people away from switchgear, which reduces people's exposure. Longer life due to 90% less moving parts not only keeps your people safe due to less frequent replacements and need to work in the switchgear but also reduces your maintenance costs and increases your reliability.

The risks associated with Arc Flash incidents have been recognized by OSHA, NFPA, NEC and IEEE. ABB can help your company meet/or exceed these new safety standards, increase the reliability of your

system, and reduce your maintenance and operating costs while providing the most advance and complete protection for your most valuable asset: Your People!