

## Plant Ops Arc-Flash Protection Levels

Arc Flash Protection Level	Description of clothing components	Relevant NFPA 70E Hazard/Risk Category
Level A: Basic work clothing for electrically qualified workers (equivalent to NFPA 70E 2004 hazard category 0)	<ul style="list-style-type: none"> <li>- natural fiber long sleeve shirt</li> <li>- natural fiber long pants</li> <li>- natural fiber undergarments</li> <li>- safety glasses</li> <li>- electric hazard rated safety shoes</li> </ul>	Category 0 (minimum rating: 1.2 cal/cm <sup>2</sup> )
Level B: Protection for electrically qualified workers* (equivalent to NFPA 70E 2004 hazard category 2)	basic work clothing (Level A) plus: <ul style="list-style-type: none"> <li>- fire resistant coveralls rated to at least 8 cal/cm<sup>2</sup>**</li> <li>- voltage rated gloves</li> <li>- head protection (hard hat)*</li> <li>- arc-flash rated face shield*</li> <li>- hearing protection*</li> </ul>	Category 2 (minimum rating: 8 cal/cm <sup>2</sup> )
Level C: Protection for electrically qualified workers (equivalent to NFPA 70E 2004 hazard category 4)	basic work clothing (Level A) plus: <ul style="list-style-type: none"> <li>- fire resistant coveralls w/ double layer switching hood rated to at least 40 cal/cm<sup>2</sup> (i.e., a complete arc-flash suit)</li> <li>- hearing protection</li> </ul>	Category 4 (minimum rating: 40 cal/cm <sup>2</sup> )

\* some tasks that require Level B Protection do not require an arc-flash rated face shield, head protection and hearing protection.

\*\* if coveralls are rated to at least 8 cal/cm<sup>2</sup> then a long sleeve shirt is not required underneath. However, all undergarments must be natural fiber.

Other PPE that could be required for various electrical tasks:

- Voltage rated gloves
- Voltage rated tools and hot sticks
- Arc flash rated face shield
- Head protection (hard hat)
- Hearing protection
- Insulated blankets and mats
- Insulated guards, covers and line hoses
- Temporary grounding equipment