**Plant Ops Arc-Flash Protection Levels**

<table>
<thead>
<tr>
<th>Arc Flash Protection Level</th>
<th>Description of clothing components</th>
<th>Relevant NFPA 70E Hazard/Risk Category</th>
</tr>
</thead>
</table>
| **Level A:** Basic work clothing for electrically qualified workers (equivalent to NFPA 70E 2004 hazard category 0) | - natural fiber long sleeve shirt  
- natural fiber long pants  
- natural fiber undergarments  
- safety glasses  
- electric hazard rated safety shoes | Category 0 (minimum rating: 1.2 cal/cm\(^2\)) |
| **Level B:** Protection for electrically qualified workers* (equivalent to NFPA 70E 2004 hazard category 2) | basic work clothing (Level A) plus:  
- fire resistant coveralls rated to at least 8 cal/cm\(^2\)**  
- voltage rated gloves  
- head protection (hard hat)*  
- arc-flash rated face shield*  
- hearing protection* | Category 2 (minimum rating: 8 cal/cm\(^2\)) |
| **Level C:** Protection for electrically qualified workers (equivalent to NFPA 70E 2004 hazard category 4) | basic work clothing (Level A) plus:  
- fire resistant coveralls w/ double layer switching hood rated to at least 40 cal/cm\(^2\) (i.e., a complete arc-flash suit)  
- hearing protection | Category 4 (minimum rating: 40 cal/cm\(^2\)) |

* 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\(^2\) 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