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From: Carl Henning (CLCP), Safety Coordinator

Date: July 31, 2018

Re: Compliance with OSHA and NFPA 70E Regarding Wear of Arc Rated Clothing

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STAR recommends complying with the OSHA and NFPA 70E Standards regarding wear of arc rated clothing. This safety recommendation has resulted from separate requests for clarification.

OSHA requires long sleeve arc rated shirts be worn anytime the employee is wearing rubber gloves or rubber gloves and sleeves.

NFPA 70E standard requires all arc rated apparel must be tucked in. U.S. manufacturer Tyndale USA, makes additional recommendations regarding multiple layers, e.g. arc rated sweatshirts. See below:

NFPA 70E (2015 edition) requires that "Clothing shall cover potentially exposed areas as completely as possible. Shirt and coverall sleeves shall be fastened at the wrists, shirts shall be tucked into pants, and shirts, coveralls, and jackets shall be closed at the neck." (Section 130.7, part 9(d); page 31)

"In Tyndale's experience, sweatshirts are typically...outerlayers...[worn] over FR...shirts that provide the required arc rated protection. As such,...the [NFPA] 7oE requirement to be tucked in [would not apply]—so long as the FR inner layer is properly tucked in and meets the arc rated PPE requirements as a stand alone garment. If the sweatshirt is ...the only layer of protection...then the sweatshirt should be tucked in.... In both cases,...sweatshirt sleeves should stay down at the wrists and sweatshirts with zippers...fully closed to ensure complete coverage..." tyndaleusa.com/blog/2015/03/27/does-nfpa-70e-require-sweatshirts-to-be-tucked-in

Don't let conditions determine how you protect yourself from all electrical contacts and arc flashes. Each employee on the crew should be vigilant of other crew members' use of proper PPE. Also remember, any and all clothing worn under arc rated clothing must not contain any polyester, rayon, nylon, or any fabrics that can melt or add to the injury of an employee involved in an electrical contact or arc flash.

Safety **R**ecommendation