



Mission Success Starts With Safety



SSC Monthly Construction Contractor Meeting

Safety Presentation

Arc Flash Safety

Apr 06, 2023



Safety Topic

Arc Flash Safety

It Happens in a Flash!
Understanding Arc Flashes
and How to Avoid Them



The graphic shows a video player interface. At the top is an orange "WARNING" sign with a black triangle icon. Below it is a white sign with a yellow triangle containing a black arc flash symbol and the text "Arc Flash Hazard". A play button icon is overlaid on the top sign.

Click graphic to see NSC video (Approximately 3 minutes long)

Preventing Arc Flash

An arc flash can release a deadly energy blast without warning that can cause severe physical harm. This makes it one of the most hazardous events any electrical worker can face. Even though it's nearly impossible to predict an arc flash, there are a few steps you can adopt to prevent an arc flash from happening on your project site.

Perform Electrical Hazard Analysis

Every arc flash prevention strategy should start with hazard analysis aimed at calculating the amount of energy that could be released at selected points along the power chain. Accuracy is vital with such measurements, so a qualified power system engineer should be tasked with this.

Always Read Equipment Warning Labels

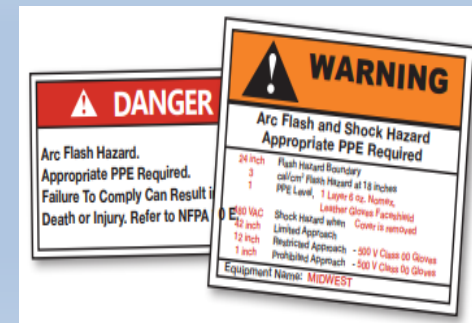
Servicing different electrical equipment periodically is very important to keep them running safely and efficiently. Reading and following the warning labels posted on the equipment will help to prevent an arc flash during examination and servicing. These warnings are established by the equipment manufacturer which conducts electrical system analysis to determine the degree of arc flash energies. These labels will alert you to the necessary PPE level arc suit you need to wear.

Wear Arc Protective Gear

In places where qualified technicians must work on energized equipment, proper use of Personal Protective Equipment (PPE), particularly arc flash suits and other electrical protective equipment, should be worn.

Receive Electrical Safety Training

Both the employer and employees should receive proper safety training to prevent arc flashes on electrical job sites.



SSC's Electrical Safety Program documented in Stennis Common Work Instruction ([SCWI-8715-0006](#)) establishes minimum standards to prevent personnel from hazardous electrical exposures and stipulates "only qualified personnel will conduct any electrical related work".