

An Arc-Flash Hazard Analysis is a critical life-safety issue and an essential part of your electrical safety program. The Arc-Flash Analysis will improve safety and ensure that your facility is in compliance with federal and local standards. OSHA and NFPA 70E require a new analysis at least every five years or after any significant change to your electrical system. RLC's staff of licensed electrical engineers are experts in Arc-Flash Hazard Analysis (AFHA) and will identify the hazards and potential for injury, and then provide a comprehensive report. This will include determining what protective measures are required, providing proper required labeling, and recommending any improvements required to reduce potential risks to personnel safety and equipment damage.

#### **AN ELECTRICAL ARC FLASH CAN BE CAUSED BY:**

RLC Engineering has significant experience with both onshore and offshore wind development.

- Accidental contact with energized components within equipment;
- Improperly designed or utilized equipment;
- Equipment failure;
- Workers interacting with energized equipment;
- Removal/Installation of circuit breakers or fused switches;
- Loose connections
- Energization and switching operations

#### **ARC FLASH HAZARD FACTS**

- 5-10 Arc Flash accidents occur every day in the U.S
- \$1.5M - Average cost of medical treatment
- \$10-15M - Average litigation cost
- Arc Flash temperatures of 35,000°F (4 times the sun's surface)
- +2,000 people are treated annually in burn centers
- NFPA 70E 130.5(G) requires an updated analysis for system changes or at least every 5 years

#### **ELECTRICAL SHOCK HAZARD ASSESSMENT SERVICES**

- Field investigations to gather as-built data
- Develop system model of site
- Perform short circuit analysis
- Perform selective coordination study
- Perform Arc Flash calculations
- Engineering analysis and report of results
- Recommend improvements to reduce hazard risks
- Generate labels on equipment to warn of hazards
- Integrate with Electrical Safety Programs



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