

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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