



Legislation Text

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Arc Flash Hazard Analysis Services for Deerhaven and John R. Kelly Generating Stations (B)

Staff recommends award of a contract to perform arc flash hazard analysis on certain equipment in GRU's power plants based on the updated standards.

An electric arc or an arcing fault is a flashover of electric current through air in electrical equipment from one exposed live conductor to another or to ground. Arc flash hazard is dangerous to employees as excessive heat exposure and serious burn injury can result due to arcing faults in electrical power systems. Electric arcs produce intense heat, sound blast and pressure waves and due to their extremely high temperatures, they radiate intense heat and can ignite clothing, causing severe or fatal burns.

Engineering services are required to conduct arc flash hazard analysis at the Deerhaven and John R. Kelly Generating Stations. The 2004 Edition of NFPA 70E provides the most comprehensive guidance to date regarding safe working practices in the vicinity of an arc flash hazard and represents an evolution in the understanding of how and why arc flash occurs, and how to best protect employees from potential harm. A complete review of potential arc flash hazards will be conducted to identify the hazards and make recommendations for (1) eliminating or mitigating the hazard; (2) equipment replacement and/or modification; (3) recommended personal protective equipment (PPE) for each piece of equipment; and (4) warning labels specific to each affected piece of equipment. The goal of this project is to improve worker safety by eliminating or mitigating the hazards.

Purchasing Staff issued a Request for Proposal (RFP) to four firms with the subject matter expertise to provide the requested services and received four proposals back. Suncoast Industrial Services, Inc. was determined to be the best evaluated proposer based upon qualifications, cost, references, and work plan. A summary of the evaluation is attached for reference.

The City Commission authorize the General Manager or his designee to negotiate and execute a contract with Suncoast Industrial Services, Inc. to perform arc flash hazard analysis and recommend protection measures for compliance with National Fire Protection Association (NFPA) Standard 70E and approve the issuance of a purchase order to provide these services in the amount of \$54,500.

Funds for this expense are available in the FY 2006 Utilities O&M budget.

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