CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 6557
TITLE: INDUSTRIAL ELECTRICIAN I
GRADE: S-17

DEFINITION:

Under supervision, serves as an entry level industrial electrician, assisting higher level industrial electricians with the installation, modification, maintenance and repair of high voltage industrial electrical systems, controls and equipment for a large 24/7 wastewater treatment plant, pumping stations, waste transfer stations, flare stations, flow metering stations and other electrical equipment throughout the County; and performs related duties as required.

DISTINGUISHING CHARACTERISTICS OF THE CLASS:

This class performs entry level industrial electrician work and does not require a license.

ILLUSTRATIVE DUTIES:

(The illustrative duties listed in this specification are representative of the class but are not an all inclusive list. A complete list of position duties and unique physical requirements can be found in the position description.)

Assists in troubleshooting, repairs and/or installation of main switchboards, main and branch circuit breakers, disconnects and wiring devices such as switches, convenience receptacles and dedicated receptacles;
Assists in the installation, maintenance, and repair of electrical systems, circuits and equipment up to 5000 volts and 4000 amps;
Monitors electrical power distribution through out the plant using power monitors or the SCADA system;
Performs preventative maintenance and repairs on various equipment including motors up to 500 horse power and generators up to 2500 kilowatts;
Creates work orders, requisitioning of equipment, parts, documentation, and time and attendance approvals on computers;
Makes costs and material estimates;
Assists in performing routine start-up and testing of emergency generators;
Operates assigned service vehicle and maintains inventory of spare parts;
Performs work in a safe manner according to all regulations, participates in safety training, and reports unsafe conditions.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

(The knowledge, skills and abilities listed in this specification are representative of the class but are not an all inclusive list.)

Knowledge of the equipment, standards, and practices of the electrical trade;
Knowledge of applicable county, state and national electrical, NFPA and safety codes;
Ability to read and interpret diagrams, schematics, blue prints and manuals;
Ability to use personal computers for logging time or inputting information;

Ability to plan and perform work of the trade at the apprentice-level;
Ability to estimate time and material needs;
Knowledge of safety regulations and procedures as well as common hazards associated with working with electricity.

EMPLOYMENT STANDARDS:
Any combination of education, training, and experience equivalent to the following: Graduation from high school, or a GED issued by a state department of education or equivalent; successful completion of an approved electrician's apprentice program and two years of experience as an industrial electrician.

CERTIFICATES AND LICENSES REQUIRED:
Must have and maintain a valid Motor Vehicle Driver's License.
Possession of a valid Confined Space Certification may be required for certain positions as identified to the Department of Human Resources.

NECESSARY SPECIAL REQUIREMENTS:
Subject to 24 hour call back and must, therefore, be able to work emergency overtime.
Subject to working in adverse weather conditions and may be exposed to raw waste or environments generating methane gas.
Ability to distinguish different color wiring.

REVISED:	April 21, 2009
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ESTABLISHED:	December 7, 1987