

Department: Design Engineering - Mechanical/Safe Shutdown Fire

Job Summary: The Mechanical Design Engineer will support station and industry activities related to system and component design and licensing. The individual will develop design changes, formal calculations, and engineering evaluations to either address emergent technical plant issues or improve plant equipment on both safety and non-safety related plant systems. In addition, the engineer will support regulatory related activities (e.g. operability & reportability reviews) and act as the technical conscience of the station to maintain the design basis of the plant. Proficient technical writing skills are essential.

Requirements: A bachelor's degree in engineering with 10 years specifically related experience is required (commercial nuclear experience is preferred). Experience with fire protection safe shutdown analysis for nuclear power plants in accordance with Branch Technical Position 9.5.1 of NUREG 0800, and in accordance with 10CFR50 Appendix R is required. Experience with the following areas and applications is preferred:

- knowledge regarding mechanical system and equipment design for safety and non-safety related systems and equipment
- experience with power plant heat balances
- experience with power plant piping specification, design, and construction to codes ASME Section III and ANSI B31.1
- production of engineered specifications for mechanical heat exchangers
- production of engineering calculations for piping hydraulics
- qualification to engineering support personnel requirements for modifications and calculations
- ability to develop plant or system models using industry standards and computer codes to perform hydraulic analyses
- steam turbine and steam turbine auxiliaries experience
- motor-operated-valve selection, design, qualification, and testing in accordance with industry standards and Generic Letters 89-10 and 96-05.
- Microsoft Office (Excel, Word, PowerPoint)

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STP Nuclear Operating Company (STP) is one of the largest nuclear power plants nationwide, and is an industry leader in safety, reliability and efficiency, STP's twin pressurized water reactors produce 2,700 megawatts of electricity, enough to serve more than one million homes in Austin, Corpus Christi, Houston, San Antonio and surrounding areas in south central Texas. The plant is located about 90 miles southwest of Houston on a 12,200 acre site near Bay City in Matagorda County.

To Apply - Interested parties must apply for this position on-line through the STP Careers portal on the STP Nuclear Operating Company website: stpegs.com