EL PASO ELECTRIC COMPANY

JOB DESCRIPTION

TITLE: Engineer – Principal Electrical System **CLASSIFICATION NUMBER:** 024158 **GRADE LEVEL:** 11

DEPARTMENT: System Planning **DIVISION:** Systems Operations & Planning **LOCATION:** Stanton Tower

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JOB PURPOSE:

Under the general direction of the Manager of System Planning, is responsible for initiating, participating and performing short and long term technical, economic, and statistical analysis of internal and external bulk transmission systems and expansion requirements.

EDUCATION AND/OR SPECIAL TRAINING:

1. Bachelor's Degree from an accredited college or university in Electrical Engineering, prefer concentration in Power Supply.

EXPERIENCE AND MINIMUM REQUIREMENTS:

1. Ten (10) years experience in an Electrical Engineering capacity.
2. Extensive knowledge in network analysis, mathematical modeling, related computer software applications, system planning methods, linear programming techniques, applicable transmission and generation systems regulatory requirements, and operating practices and procedures.
3. Ability to analyze information, prepare short and long-term plans, operate personal computer and engineering measuring devices.
4. Ability to communicate effectively, both orally and in writing.
5. Ability to establish and maintain good working relationships with officers, managers, fellow employees, representatives of other utilities, outside consultants and the public.
6. Ability to maintain a strong sense of propriety concerning confidential matters.

ESSENTIAL JOB FUNCTIONS:

The following essential job functions are accomplished by utilizing CRT, personal computer with keyboard and/or mouse, telephone, calculator, photocopy machine, facsimile machine, overhead projector, engineering measuring devices and other related equipment.

1. Initiates, conducts and performs short and long range technical, economic and statistical analysis of internal and external bulk transmission systems and expansion requirements.
2. Performs WSCC power flow studies, fault analysis, incremental wheeling studies, coordination of externally generated TNA studies, stability studies, local reactive supply planning and intra-tie transfer studies.
3. Researches, develops and incorporates new planning methodologies and technologies in the system planning processes and ensures compliance with regulatory requirements.
4. Generates long-range alternative planning scenarios using linear programming techniques.
5. Develops new and innovative computer programs for planning analysis.
6. Participates in and may direct joint planning studies of regional interconnected transmission systems.
7. Coordinates and submits data for WSCC, FERC and related power pool studies.
8. Prepares and is accountable for documenting study results, training staff of new innovations and communicating study results and recommendations to supervisor or other departments.
9. Gathers information and assists other utility companies in the performance of various studies.

REPORTS TO: Manager - System Planning **APPROVAL:** **DATE:** 07/09

10. Trains less senior employees on the technical programs, procedures and practices of the systems planning department.
11. Serves as a Company witness in regulatory rate proceedings as needed.
12. Acts as a liaison at meeting with other utility companies and/or regulatory agencies and represents the Company on various committees.
13. Complies with all applicable Company policies, procedures and code of ethics as well as all applicable governmental laws and regulations to include employment, safety and environmental standards and regulations.

OTHER JOB FUNCTIONS:

1. Performs other related tasks that are not included, but are within the context of duties defined.

ENVIRONMENTAL DEMANDS:

1. The incumbents in this classification are subject to both inside and outside environmental conditions and temperature changes of extreme cold weather (below 32 degrees for periods of more than one hour) and extreme hot weather (temperatures above 100 degrees for periods of more than one hour); and exposed to loud noises, vibration, hazards, atmospheric conditions and oils.

PHYSICAL DEMANDS:

1. Sedentary work: Exerting up to 10 pounds of force occasionally, and/or a negligible amount of force frequently, or constantly to lift, carry, push, pull or otherwise move objects.
2. Reaching: Extending hand(s) and arm(s) in any direction.
3. Walking: Moving about on foot to accomplish tasks.
4. Pulling: Using upper extremities to exert force in order to draw, drag, haul or tug objects in a sustained motion.
5. Lifting: Raising objects from a lower to a higher position or moving objects horizontally from position-to-position.
6. Fingering: Picking, pinching, typing or otherwise working, primarily with fingers rather than with the whole hand or arm as in handling.
7. Grasping: Applying pressure to an object with the fingers and palm.
8. Talking: Expressing or exchanging ideas by means of the spoken word; those activities in which detailed or important spoken instructions must be conveyed to other workers accurately, loudly or quickly.
9. Hearing: Ability to receive detailed information through oral communication, and to make fine discriminations in sound, such as when making fine adjustments on machined parts.
10. Repetitive motions: Substantial movements (motions) of the wrists, hands, and/or fingers.
11. Visual acuity: Color, depth perception and field of vision to include measurement devices for close inspection and analysis.

REVIEWED BY:
EMPLOYEE RELATIONS AND DEVELOPMENT _____

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Evaluated 05/01/95
Revised 05/04/95
Revised 11/00

ATTRIBUTES:

1. Ability to perform complex technical studies with little or no technical supervision.
2. Ability to effectively utilize engineering judgement and past studies to analyze complex systems and determine effective solutions to problems.
3. Ability to document for both engineers and non-engineers the procedures and methodologies used in and the results of complex studies.
4. Ability to handle multiple tasks while maintaining deadlines.
5. Ability to effectively and smoothly work with other engineers and departments.

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