



INNOVATION TO THE NEXT POWER

TITLE: Designer/Staker

Date: 8-1-2008

Classification: Non-Exempt

Department: Energy

Reports to: Project Manager or Crew Chief

Position Summary:

Uses surveying instruments, a Global Positioning System (GPS) typically, to establish lines and grades within the rebuild/construction site. Write field data reports that summarize the results of surveying for construction crews and engineers. Must be able to analyze simple work-related problems and recommend solutions, given well-defined guidelines. Some originality in work performance and anticipation of work needs is expected. Tasks are accomplished by following basic procedures and instructions, although some interpretation or analysis may be necessary.

Essential Duties and Responsibilities:

Operates and maintains technical surveying instruments to accomplish related work assignments.

Provides calculations and records in support of all survey activities.

Create staking sheets (this is a type of formatted field data sheet) identifying control points and summarizing location of inventory.

Draft and summarize field notes in an organized and acceptable manner.

Develop construction plan from point A to point B, creating footprint for design.

Surveying assignments are performed for any size project, at any location, as required.

Provide competent engineering and technical assistance to the Senior Project Designer.

Provide competent engineering and technical assistance to the Project Manager.

Provide competent engineering and technical assistance to the Professional (Resident) Engineer.

Develop computer skills required for transmission and distribution power design. This will include the development of skills with programs such as AutoCAD, PLS CADD, FECMAP, and Alcoa SAG10.

Complete weekly time sheets, in conjunction with weekly expense and mileage reports. Perform daily safety inspection of vehicle and provide regular maintenance of vehicle.

Will be required to perform other duties as requested, directed or assigned.

Education and Experience:

High School diploma or equivalent.

Job Knowledge:

Computers and Electronics — Some basic knowledge of computer hardware and software.

Geography — Knowledge of principles and methods for describing the features of land, sea, and air masses, including their physical characteristics, locations, interrelationships, and distribution of plant, animal, and human life.

English Language — Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar. Must speak the English language fluently.

Mathematics — Knowledge of arithmetic, algebra, geometry, trigonometry, statistics, and their applications.

Design — Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

Customer and Personal Service — Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.

Engineering and Technology — Knowledge of the practical application of engineering science and technology.

Skills:

Active Learning — Understanding the implications of new information for both current and future problem-solving and decision-making.

Reading Comprehension — Understanding written sentences and paragraphs in work related documents.

Critical Thinking — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.

Active Listening — Giving full attention to detail of what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Time Management — Managing one's own time.

Problem Solving — Identifying problems and reviewing related information to develop and evaluate options and implement solutions.

Troubleshooting — Determining causes of operating errors and deciding what to do about it.

Judgment and Decision Making — Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Quality Control Analysis — Conducting tests and inspections of processes to evaluate quality or performance.

Abilities:

Near and Far Vision — The ability to see details at close range (within a few feet of the observer) and distance vision (several hundred feet).

Information Ordering — The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).

Written Comprehension — The ability to read and understand information and ideas presented in writing.

Deductive Reasoning — The ability to apply general rules to specific problems to produce answers that make sense.

Mathematical Reasoning — The ability to choose the right mathematical methods or formulas to solve a problem.

Problem Sensitivity — The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.

Finger Dexterity — The ability to make precisely coordinated movements of the fingers of one or both hands to grasp and manipulate hand tools, including: tape measures, hammers, GPS and other related survey equipment, drafting templates, wooden lathes (field stakes), and a personal computer.

Perceptual Speed — The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.

Supervisory Responsibilities:

No supervisory responsibilities

Licenses, Certifications, Training Requirements:

Current motor vehicle drivers license in good standing.

Physical, Mental and Visual Demands:

Flow of work involves normal mental and visual attention along with manual coordination much of the time. Physical demands require occasionally lifting over 50 pounds. While performing the duties of this job, the employee is occasionally required to stand; walk; sit; use hands to handle, or feel objects, tools or controls; reach with hands and arms; climb stairs; balance; stoop, kneel, crouch or crawl; talk or hear; taste or smell. Specific vision abilities required by the job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

Work Environment:

Exposed to extreme weather conditions, including: hot and cold temperatures, rain, snow, dust, and wind. Most assignments are performed at a job site and may include some physical labor and environmental distractions such as changes in climate and topography. Physical hazards may be present. Will also work in an office type environment as required.

Travel anticipated approximately 85% of the time Monday thru Friday.