



POSITION DESCRIPTION STATEMENT

(PDS)

**TITLE: SR. GENERATOR SPECIALIST
(ROTATING MACHINES)**

REPORTS TO: ENGINEERING MANAGER

I.) PURPOSE OF POSITION

Design & Development of Rotating Electrical Machines

II.) KEY RESPONSIBILITIES

- Electro magnetic and mechanical design and analysis of high-speed permanent magnet alternators for military and commercial applications.
- Analyze test data and evaluate the design capabilities.
- Support manufacturing and test engineers.
- Prepare technical proposals.
- Provide cost estimates to the estimating department.
- Communicate with customer; provide schedules and status during development of prototype and qualification test phase.

III.) RELATIONSHIPS

- Direct reporting to Engineering Manager

On a day to day basis will interact with Manufacturing, Test engineering, Marketing, Contracts, Purchasing, and Quality,

External relationships include customers & vendors

IV.) MEASURES OF PERFORMANCE

- Designs that meet customer's specifications (# of significant errors)
- Cost effective and functional designs (% of cost/unit)
- Timely completion of projects (# of slips)

- Quality and reliability of the product (PPM) (# of failures)
- Quality of technical proposals (# of proposals won)
- Initiative/Resourcefulness
- Dependability (# of jobs accomplished)
- Safety (# recordable injuries)

V.) BACKGROUND AND SKILL

- BS or MS Degree in Electrical Power Engineering
- 10 years min. in electromagnetic engineering, 2 years min. in manufacturing-related job, 5 years working in rotating electrical machines environment
- Thorough knowledge of electrical & magnetic engineering.
- Knowledge of finite element analysis
- Knowledge of electronic and mechanical engineering
- Knowledge of 2 D and 3 D ACAD
- Creativity, good communication skills and interpersonal skills
- Technical expertise in unique field gained through extensive training & applied field experience.
- Proficient in FEA in electromagnetic analysis

It would take a qualified individual 3-6 months to perform at expected job level.

VI.) PERSONAL TRAIT PROFILE

- Able to work on multiple projects
- Team player
- Creative, alert to new ideas, willing to improve
- Knowledge and a logical and precise manner to produce a design or resolve a design problem of high complexity
- Tolerant to pressure to produce results
- Goal oriented
- Organized
- Reliable
- Analytical
- Methodical
- Cost Conscious

VII.) SCOPE AND IMPACT OF POSITION AND RESPONSIBILITIES

This position is very critical to the success of this company. The responsibility is to design to manufacture the end product that the company sales. The position requires the project engineer to be up to date with latest design concepts, capable of practical and efficient design and interacting with all functional departments. He/She must be able to communicate ideas and concepts well with customers, vendors and other engineers.

Completed by: _____

Date: _____

Supervisor: _____

Date: _____

Approved: _____

Date: _____

HR: _____

Date: _____