MARINE TECHNICIAN I

This is journey level technical work supporting marine engineers in the design and modification of ferry vessels or performing technical assignments including vessel inspections, preparing vessel specifications, bills of materials requirements; and preparing working sketches and shop drawings. Employees perform a full range of standard manual or electronic design drafting and a variety of calculations and computations. Work includes drawing detailed plans of new ferries, existing ferries or other structures for work to be let to contract or completed by State forces; calculating such things as dimensions, quantities of materials, and weights and moments for completed hull pressure loss for piping systems and structural members; and generating real and theoretical data for use by marine engineers using standard mathematical formulas. Work also includes researching files, records and regulations to provide information for other employees; assisting in pre-shipyard inspection of vessels; and contacting manufacturers and distributors to determine the availability and cost of marine equipment. Work may include inspecting vessels prior to shipyard overhaul, performing thorough investigation of all vessel spaces, taking necessary measurements and notes and preparing shipyard work specifications. Employees may compare actual layout to design drawings and plans, assist in developing one year and five year shipyard overhaul schedules. Most of the work is performed under close technical and administrative supervision and may include other duties as assigned.

I. DIFFICULTY OF WORK:

Complexity - Employees perform a variety of work as illustrated above, of limited to moderate complexity.

Guidelines - Employees are usually furnished policies, procedures and instructions that are clear and in enough detail to cover most of the work performed. Guidance is available for unusual assignments.

II. RESPONSIBILITY:

Accountability - Employees represent the organization in external contacts when gathering information from regulatory agencies or in contacts with marine equipment manufacturers and distributors.

Consequence of Action - Employees' errors usually result in work being redone, causing minimal delay or financial loss.

Review - Employees' work is reviewed through discussions and observation while in progress and for compliance to policies, procedures and regulations upon completion.

III. INTERPERSONAL COMMUNICATIONS:

Subject Matter - Employees gather information that ranges from clear and easily understood to somewhat detailed and subject to more than one interpretation.

Purpose - Employees' contacts are usually for the purpose of gathering information or explaining and discussing work in progress.

IV. WORK ENVIRONMENT:

Nature of Working Conditions - Employees usually work in an office setting; but may also conduct or assist in vessel inspections requiring them to climb and crawl in confined spaces.

Nature and Potential of Personal Hazards - Employees may receive injuries, usually of a minor nature, while inspecting vessels.

V. RECRUITMENT STANDARDS:

Knowledges, Skills and Abilities - General knowledge of mathematical functions, including algebra, geometry and trigonometry. Drafting skill and skill in the use of office equipment such as calculators and computer terminals. Ability to read and interpret technical manuals, codes, regulations or others reference materials; and good communication ability.

Minimum Training and Experience Requirements - Graduation from a two-year college with a degree in Marine Construction Engineering Technology or Mechanical Drawing and Design Technology and two years of progressive experience in drafting and performing design related calculations; or graduation from high school and four years of progressive experience in drafting and performing design related calculations; or an equivalent combination of training and directly related experience.