

JOB DESCRIPTION

Job Title: Mechanical Engineer **Position Number:** 95 - 12

Incumbent: Vacant **Effective Date:** December 2016

Employment Status: Permanent **Bargaining Unit:** Yes X No

Supervisor's Title: Manager Mech/Civil Eng Department: Eng & Capital Projects

Subordinate Positions: May provide technical project oversight and project specific supervision to Operations staff and external contractors and/or consultants

SUMMARY

Under the supervision of the Manager, Mechanical/Civil Engineering, the incumbent plans, organizes, and directs all or part of mechanical utility projects, from concept through design, construction and closeout of the project; develops mechanical engineering designs, specifications, and cost estimates; prepares written reports for mechanical utility maintenance and construction programs associated with various projects and facilities.

DESCRIPTION

1. Performs mechanical engineering assignments in all aspects of hydro and thermal power generation including additions, upgrades or maintenance support.
2. Performs project management involving engineering design, specifications, bid evaluation; contract administration; project scheduling; coordination; control & monitoring; and field decisions and construction management to ensure projects are completed within the stipulated time and allocated budget. Prepares plans, technical specifications, and cost estimates for assigned projects requiring engineering capability.
3. Provides guidance and work supervision to Operations staff as well as outside contractors and/or consultants as required.
4. Collaborates and co-operates with electrical department in completing multi-discipline projects. Co-ordinates project execution with construction managers to ensure successful completion of projects.
5. Provides project updates and reports as required.
6. Assists Operations in evaluating changes to equipment and operations and provide recommendations to ensure safety, reliability and availability of equipment.
7. Assists in the development of capital maintenance/upgrading programs for hydro generation, and thermal units including diesel and LNG.

8. Assists in the preparation of mechanical project budgets, short and long range plans for equipment and facilities replacement, retirement, additions, and life extensions.
9. Adheres to the Corporation's high safety standards by following approved safe working plans, worker administered and operator administered protection plans and wears appropriate personal protective equipment when required.
10. Maintains the confidentiality of all Corporation information. Adheres to all Corporation policies, procedures and guidelines.
11. Other related duties.

WORKING CONDITIONS

- The majority of the work is performed in a normal office environment with exposure to outdoor weather, hot, noisy, or cold conditions when working in the field.
- Must maintain the confidentiality of all corporate information.
- Adheres to all corporate policies, procedures and guidelines.
- Travel is required.

KNOWLEDGE, SKILLS, AND ABILITIES

- Requires a degree in mechanical engineering (in Canada) and must be eligible for registration as a Professional Engineer in the Yukon.
- Knowledge of utility operations and engineering.
- Knowledge of mechanical theory, design and operating parameters of hydro generator and thermal units.
- Knowledge of mechanical codes and regulations that apply to electrical utility generation facilities.
- Ability to work independently on engineering projects.
- Ability to perform as a project manager for electric utility projects.
- Excellent ability to communicate clearly, both orally and in writing
- Ability to work collaboratively with other departments and outside agents.
- Ability to create drawings and write specifications, prepare cost estimates, prepare construction contracts and request for proposals.
- Must be self-motivated and versatile, and thrive on a variety of work.
- Must have a valid class 5 driver's license.

Incumbent

Supervisor

Director

Date