

## JOB DESCRIPTION

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

**Incumbent:** Vacant **Effective Date:** December 2018

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

**Supervisor's Title:** Manager Mechanical & Civil Engineering

**Subordinate Positions:** There are no direct reports under this position. 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/drawings, 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 by providing engineering calculations, design/drawings and writing equipment specifications to support all aspects of hydro and thermal power generation including additions, upgrades and maintenance of generating units.
2. Performs project management functions involving writing technical specifications, bid evaluations, and contract award and administration as per Corporation guidelines.
3. Prepares project budgets, scheduling and scope, and co-ordinates project execution with construction managers. Strives to make projects successful through proper monitoring and oversight.
4. Makes field and construction management decisions to ensure projects are completed within the stipulated schedule, scope and allocated budget.
5. Collaborates and co-operates with the Electrical Engineering, Operations and Finance departments in completing multi-discipline projects.
6. Provides project updates and reports as required.
7. Assists the Operations department in evaluating changes to equipment and operations and provides recommendations to ensure safety, reliability and availability of equipment.
8. Assists in the development of capital maintenance/upgrading programs for hydro generation, and thermal units including diesel and LNG.

9. Assists in the preparation of mechanical project budgets, short and long range plans for equipment and facilities replacement, retirement, additions, and life extensions.
10. 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.
11. Maintains the confidentiality of all Corporation information. Adheres to all Corporation policies, procedures and guidelines.
12. 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 bachelor degree in mechanical engineering with P.Eng. Designation in Canada and must be eligible for registration as a Professional Engineer in the Yukon.
- Experience and knowledge of power utility maintenance and/or operations.
- Detailed knowledge of mechanical engineering theory, design and operating mechanism/parameters of hydro-generator and thermal units.
- Working knowledge of mechanical engineering codes and standards, and regulations that apply to electrical utility generation facilities.
- Ability to work independently on engineering projects.
- Working knowledge of Project Management processes and principles.
- Ability to perform project manager's role 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.