

## Metro Vancouver

### **Position Description: UTILITY SYSTEMS CONTROLLER (G767) October 2007**

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**Purpose:** Executes daily/hourly Utility Systems Operating Plans and operates or assists in directing others to operate the water supply, treatment, and waste water collection systems to maintain performance criteria. Monitors and controls the systems using the computerized supervisory control and data acquisition system (SCADA/CDACS), and applies other computer software and a high level of system understanding to optimize total system operations.

**Duties:** *(The duties described hereunder are intended to be representative of the position and are not to be considered all inclusive.)*

Executes the daily Utility Systems Operating Plan to maintain performance criteria.

Provides feedback, identifies opportunities for improvement and works with others to resolve problems with the daily Utility Systems Operating Plan.

Monitors and analyzes trends, alarms and events in the water supply, treatment and wastewater collection systems.

Detects divergence from the daily Utility Systems Operating Plans and develops new plans and executes those plans as necessary to maintain performance criteria.

Works closely with other Metro Vancouver staff to ensure an adequate production of treated water is maintained and supplied to municipalities.

Reviews data quality and initiates corrective action if necessary.

Applies computer software to assess system operations and uses results to optimize system performance.

Prepares reports and analyzes the results.

Assists with the commissioning of new facilities and equipment.

Reviews operating protocols and makes recommendations for improvements and operates equipment accordingly.

Applies and adjusts automatic control functions to maintain performance criteria.

Advises and provides information and guidance to field, and plant staff when carrying out system operations and maintenance work.

Provides the final clearance in the Construction/Maintenance clearance process to take equipment out of service. Assists with developing and applying procedures as required.

Communicates with other Metro Vancouver staff, external agencies and the public.

Undertakes training programs to maintain a high level of competency.

Assists in the training of new Utility Systems Controllers.

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### **Duties continued:**

Keeps up-to-date on changes to system and equipment used.

Dispatches staff after hours as required.

Maintains logs, files and similar records related to the work.

Works in compliance with all Metro Vancouver safety policies, procedures and Worksafe BC regulations.

Performs related work as required.

### **Requirements:**

Grade 12 and graduation from a two year Water Technology education program or related discipline (i.e. Water Resources, Wastewater technology, environmental sciences, environmental or chemical technology).

At minimum, British Columbia EOCP Class II Water Distribution or Water Treatment Operator Certification. The highest EOCP Water Distribution/Water Treatment Certificate achieved shall be maintained in good standing and a copy of the Certificate shall be filed in the employee file in Human Resources as proof of eligibility.

Three years of water distribution or water treatment experience operating at EOCP Class II or higher operating system/facility.

Experience operating control systems (SCADA/CDACS) in similar environments is desirable.

Experience working independently without direct supervision under challenging situations, using sound judgment to make decisions.

Sound knowledge and expertise in the use of a variety of software applications including: modelling and analysis; word processing; common spreadsheet applications, and email.

Demonstrated ability and experience in analytical and problem solving skills.

Proven ability to communicate effectively in a clear and concise manner both verbally and in writing.

Ability to work cooperatively in a team environment by establishing and maintaining effective working relationships and dealing effectively with the public.

Demonstrated initiative and the ability to give clear direction and advice to operations and maintenance staff.