

SCADA TECHNICIAN

EXEMPT OR UNION: Union**SALARY LEVEL:** Grid 1, Band 15 (Under Review)**LOCATION:** Mason Road**APPROVED BY:** Manager, Utility Services*Replaces: SCADA Technician***DEPARTMENT:** Infrastructure Services**DIVISION:** Utility Services**SUPERVISOR:** SCADA Coordinator**UPDATED:** August 2026*Previous Version: Sept 2021*

SUMMARY: Reporting to the SCADA Coordinator or designate, the SCADA Technician performs an integral role in ensuring the efficient operation of the Regional District's water supply and water distribution systems through performing all field work to ensure the efficient operation of the Regional District's water and wastewater SCADA systems, associated components and communication networks.

KEY RESPONSIBILITIES *include:*

1. To operate and maintain the SCRD's SCADA system and radio network to meet operational needs, and assists with continuous improvement in functionality, capacity and reliability.
2. To provide technical expertise and guidance for the integration of water and wastewater data from a variety of sources, i.e. GIS, SCADA, WTP, CAD, maintenance management, etc.
3. To identify needs, purchase and maintain equipment and software to achieve planned integration of data.
4. To provide work guidance and support to staff in the collection, use, analysis and interpretation of SCADA data to maintain optimal system performance.
5. To facilitate the development of recommendations in water system and operations improvements.
6. To provide technical input for utility facility process equipment and plant upgrades.
7. To perform installations, enhancements and improvements to SCADA equipment, process control, communications, data acquisition, low voltage electrical, electronic, instrumentation equipment and associated hardware, including the evaluation, selection, installation and configuration of microprocessor-based devices.
8. To attend to field work pertaining to the Regional District's SCADA system, such as designing and programming RTU/PLC logic, purchasing components, installing and commissioning of the same, troubleshooting, monitoring and diagnosing problems in the SCADA system.
9. To maintain Trunking Repeater Network and all radio assets.
10. To perform other related electrical/mechanical or utility-based tasks as assigned.
11. To comply with and promote, safe work practices and procedures and promotes a safe and healthy work environment.

TYPICAL ACTIVITIES *include:*

1. Integrates operational and historical infrastructure services, i.e. GIS, SCADA, WTP, CAD, maintenance management, etc. to improve efficiency.
2. Facilitates and provides technical assistance to departmental staff in the collection and maintenance of data for the SCRD's water and wastewater systems.
3. Provides technical support in conducting computer-modelling analysis on the water and wastewater systems.

4. Works with the operation staff in maintaining and programming the SCADA and electronic instruments for the water systems.
5. Manages projects as assigned such as SCADA installation, meter installation, instrumentation installation in the water treatment plant and pumping stations, modelling of water system, etc.
6. Generates reports to facilitate program planning and operational efficiency improvements.
7. Identifies potential technological opportunities to enhance system performance and makes recommendations.
8. Troubleshoots and resolves SCADA system and water and wastewater treatment plant component issues or problems.

QUALIFICATIONS, EDUCATION, AND EXPERIENCE

- Completion of Grade 12 or equivalent.
- Recognized Diploma in a directly applicable discipline such as Electrical, Instrumentation, Process Control, inclusive of extensive education in SCADA from a recognized institution.
- Red Seal Certification in either Electrical or Instrumentation
- Class B Electrical License
- Minimum of five (5) years' work experience, preferably in local government relevant to:
 - Developing and maintaining HMI and SCADA systems and other instrumentation.
 - Trouble shooting and reverse engineering of existing control systems.
 - Programming and instrumentation for water and wastewater systems.
 - Trending, historian and reporting data management. Design, installation, commissioning and project management of water and wastewater SCADA system infrastructure upgrades
- Relevant power sources including solar, hydro and generators, programming and tuning UHF and VHF radio equipment.
- A current and valid BC Class 5 driver's license.

OTHER SKILLS/KNOWLEDGE/INFORMATION

- Knowledge regarding secure industrial communications between PLCs using various connection options including Ethernet, wireless radio, internet and phone line.
- Knowledge of methods, practices, tools and equipment as they relate to the maintenance of mechanical and electrical equipment, controls, instrumentation and SCADA systems that are used throughout the water and wastewater systems.
- Effective organizational skills including the ability to manage multiple projects and deadlines.
- Proficient level in the operation of Microsoft Office software programs especially presentation applications, Internet and email.
- Familiar with maintenance management software and Data Command for the SCADA system.
- Ability to read and understand working drawings as they relate to electrical/mechanical work requirements.
- Thorough knowledge of UHF and VHF radio systems.
- Effective interpersonal relationships, specifically a demonstrated ability to proactively develop mutually beneficial working relationships with colleagues, clients and others.
- Knowledge of applicable environmental protection and water acts policies, guidelines and regulations. Ability to work independently and with minimal supervision.
- Extensive outside field work is required.
- Evening or weekend work required to deal with emergency issues and repairs.

The incumbent is expected to support corporate sustainability and workplace safety objectives.