



Total Control Systems, Inc  
38841 Nyman Drive NE  
PO Box 40  
Stanchfield, MN 55080-0040  
Phone 320-396-4442 / Fax 320-396-4443

January 21st, 2021

To: Harry Bertram

Re: Coleraine, MN. – Booster Station Upgrade Quote

**Total Control Systems, Inc. (TCS)** proposes the following equipment for the City of Coleraine. Supply the following hardware for the Booster Station to update the current controls to use a PLC, Operator Interface & Communication Equipment to add site to SCADA system. All existing equipment is monitor only. These upgrades will allow for near real time monitoring and control functions. This new equipment is the same equipment currently in the WTP & Tower sites, which will keep common components throughout the SCADA system. This upgrade will also allow for remote tech support and troubleshooting, which can decrease service costs and downtime.

**Hardware includes:**

- Qty. 1 - Allen Bradley Micrologix 1400 PLC
- Qty. 2 - Allen Bradley 1762-IA8 Digital Input Module
- Qty. 1 - Allen Bradley 1762-OW16 Digital Output Module
- Qty. 2 - Allen Bradley 1762-IF4 Analog Module
- Qty. 1 - Allen Bradley 1762-OF4 Analog Module
- Qty. 1 - Cmore 10" Color Operator Interface
- Qty. 1 - IDEC 24 VDC Power Supply
- Qty. 1 - Door Mounting Plate
- Qty. 1 - Cyberpower 850 VA UPS
- Qty. 1 - Cradlepoint IBR600C-150M-D Mobile Broadband Device
- Qty. 2 - 4G Tamperproof Antennae
- Qty. 2 - 6' Antennae Cable

**Hardware** – Install all site hardware, create control programs for PLC & Operator Interface Control. Connect site to existing SCADA system at WTP to allow for SCADA access & control. Test all operations & Verify SCADA functions. Provide Training for operators.

**Project Cost: \$9,585.00 (NO Tax Included)**

1 of 3

**Note: DOES NOT INCLUDED INTERNET SERVICE**

Does not include:

- Sales tax exempt, City to supply exemption certificate
- Terms are Net 30 days from invoice date. No retainage allowed. A 1.5% charge per month added to any past due balance. Price may be dependent on past credit history.
- This quote/proposal valid for 60 days.
- Work to commence after receipt of an acceptable written purchase order acknowledging acceptance of our terms.
- F.O.B. **job-site**.
- Start-up service/training, documentation and equipment adjustment is included as specified.
- TCSI does not accept any liquidated damages.
- ALL PANELS FURNISHED BY TCS WILL HAVE A UL 508 SERIALIZED OR UL698A ENCLOSED INDUSTRIAL CONTROL PANEL RELATING TO HAZARDOUS LOCATIONS WITH INTRINSICALLY SAFE CIRCUIT EXTENSIONS LABEL, AS REQUIRED.

If you have any questions regarding our proposal, please contact our office. We look forward to working with you on this project.

Sincerely,  
**TOTAL CONTROL SYSTEMS, INC.**

Kraig LaFreniere  
KL/lb



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January 21st, 2021

To: Harry Bertram

Re: Coleraine, MN. – Park Lift Station Upgrade Quote

**Total Control Systems, Inc. (TCS)** proposes the following equipment for the City of Coleraine. Supply the following hardware for the Park Lift Station to update the PLC, Operator Interface, Float Backup Controls & Level Transducer & Communication Equipment to add site to SCADA system. All existing equipment is outdated and monitor only. These upgrades will allow for near real time monitoring and control functions. This new equipment is the same equipment currently in the WTP & Tower sites, which will keep common components throughout the SCADA system. This upgrade will also allow for remote tech support and troubleshooting, which can decrease service costs and downtime.

**Hardware includes:**

- Qty. 1 - Allen Bradley Micrologix 1400 PLC
- Qty. 1 - Allen Bradley 1762-IF2OF2 Analog Module
- Qty. 1 - Cmore 7" Color Operator Interface
- Qty. 1 - IDEC 24 VDC Power Supply
- Qty. 1 - Door Mounting Plate
- Qty. 1 - Alltech Backup Controller
- Qty. 1 - Level Transducer Intrinsic Barrier
- Qty. 1 - KPSI Level Transducer
- Qty. 1 - Cyberpower 850 VA UPS
- Qty. 1 - Cradlepoint IBR600C-150M-D Mobile Broadband Device
- Qty. 2 - 4G Tamperproof Antennae
- Qty. 2 - 6' Antennae Cable

**Hardware** – Install all site hardware, create control programs for PLC, Operator Interface & Float Backup Control. Connect site to existing SCADA system at WTP to allow for SCADA access & control. Test all operations & Verify SCADA functions. Provide Training for operators.

**Project Cost: \$6,854.00 (NO Tax Included)**

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January 21st, 2021

To: Harry Bertram

Re: Coleraine, MN. – Hollywood Lift Station Upgrade Quote

**Total Control Systems, Inc. (TCS)** proposes the following equipment for the City of Coleraine. Supply the following hardware for the Hollywood Lift Station to update the current controls to use a PLC, Operator Interface, Float Backup Controls, Level Transducer & Communication Equipment to add site to SCADA system. All existing equipment is outdated and monitor only. These upgrades will allow for near real time monitoring and control functions. This new equipment is the same equipment currently in the WTP & Tower sites, which will keep common components throughout the SCADA system. This upgrade will also allow for remote tech support and troubleshooting, which can decrease service costs and downtime.

**Hardware includes:**

- Qty. 1 - Allen Bradley Micrologix 1400 PLC
- Qty. 1 - Allen Bradley 1762-IF2OF2 Analog Module
- Qty. 1 - Cmore 7" Color Operator Interface
- Qty. 1 - IDEC 24 VDC Power Supply
- Qty. 1 - Door Mounting Plate
- Qty. 1 - Alltech Backup Controller
- Qty. 1 - Level Transducer Intrinsic Barrier
- Qty. 1 - KPSI Level Transducer
- Qty. 1 - Cyberpower 850 VA UPS
- Qty. 1 - Cradlepoint IBR600C-150M-D Mobile Broadband Device
- Qty. 2 - 4G Tamperproof Antennae
- Qty. 2 - 6' Antennae Cable

**Hardware** – Install all site hardware, create control programs for PLC, Operator Interface & Float Backup Control. Connect site to existing SCADA system at WTP to allow for SCADA access & control. Test all operations & Verify SCADA functions. Provide Training for operators.

**Project Cost: \$7,954.00 (NO Tax Included)**

3 of 3

**Note: DOES NOT INCLUDED INTERNET SERVICE**

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