

Date: May 5, 2023

Engineer Project #:

Project: Minnehaha Baltic Tower Upgrade Sub-Panel

Estimator: Chris Cote, Sales Engineer

TERMS:

1. Payment terms are net 30 days from date of shipment
2. Does not include taxes, insurance or bonding. Proposal will be good for 60 days.
3. 10% Retainage is not to exceed 6 months from date of engineer's acceptance of the control system.
4. Equipment supplied DOES NOT INCLUDE anchor bolts, fasteners, supports, antenna towers (poles), or masts unless specifically listed in this quotation.
5. This control system provides PILOT DUTY signals to control panels and devices by others. Primary devices, i.e. motor starters, transformers, circuit breakers, control valves, and power panels are not included unless specifically listed in this quotation
6. This proposal DOES NOT include installation of equipment by Micro-Comm, Inc. unless options listed in this proposal/quotation are accepted. Micro-Comm can provide one day of installation supervision to guide the contractor on installation of this equipment. Additional installation assistance is available at \$1500/per day, plus expenses.
7. Submittal drawings will be provided within 45 - 60 days from receipt of acceptance or purchase order.
8. Equipment will ship 60 - 90 days from receipt of drawing approval.
9. This proposal does not include on-site start-up of proposed equipment.

Estimated By
Chris Cote
Sales & Technical Engineer
Micro-Comm, Inc.
Phone: 913-390-4500
Fax: 913-390-4550

(1) MICRO-COMM M1650 BASED RTU PANEL (each to include):

Sites: Baltic Tower Upgrade

Micro-Comm M1650 remote unit in a Wall mount NEMA 4/12 enclosure with "Single-Board M1650" RTU module, I/O Sub-panel type construction, integral 12/24VDC Power Supply coaxial cable lightning arrestor, coaxial cable, cable connectors, and Yagi antenna.

Qty Description

- 1 M1650 16x14 sub-panel assembly
- 4 Panel Shop Labor
- 1 UL508 Panel Listing (Concept panels only)
- 1 10amp Circuit Breaker
- 1 EDCO 120VAC line protection TVSS
- 1 Mean Well DR-120 120Vac/12Vdc 10amp power supply
- 1 L3E Battery Dropout Relay
- 1 24 Hour Battery Back-up
- 1 M1650 Modular RTU Assembly w/PM & modem
- 1 Type-N Coax Lightning Arrestor
- 1 SMT Display Cable
- 1 Radio Patch Cable TNC to Type-N
- 1 EXISTING MDS SD-1 173MHz, 5W, 6.25KHz, 4800baud dataradio
- 1 EXISTING MDS data radio interface cable for above

(4) CONTROL OUTPUTS (base RTU)

- 4 Spare Output(s)

(8) DISCRETE INPUTS (base RTU)

- 8 Spare Input(s)

(1) DISCRETE INPUTS (script):

- 1 Power Failure (from script)

(4) ANALOG INPUTS: (base RTU)

- 1 Tank Level Existing Transducer
- 3 Spare analog inputs

(2) ANALOG INPUTS: (script)

- 1 RTU Battery Voltage (internal PLC Sensor)
- 1 RTU Temperature (internal PLC Sensor)

(2) ANALOG OUTPUTS: (base RTU)

- 2 Spare analog output(s)

Communication Port dedication:

- COM1: SD-1 Radio RS-232 Communication Port
- COM2: Panel Display RS-232 Communication Port
- COM3: RS-485 Future Modbus master expansion I/O modules
- COM4: RS-232/485 Future Communication

Qty MISC CONTROL & FRONT PANEL ITEMS:

- 1 Micro-Comm Keypad & Display unit w/cable

Qty The following items are included in the price of each unit:

- 1 Factory Start-up & Adjustment Service
- 1 \$3000 Panel buy-back trade-in credit
- 1 Engineering, Programming, & Testing
- 1 Freight to Jobsite (FOB Factory)

Qty MISCELLANEOUS ITEMS TO INCLUDE:

- 1 ENGINEERING & DESIGN Included
- 3 OPERATIONS AND MAINTENANCE MANUALS Included
- 1 FREIGHT TO JOBSITE (FOB FACTORY, FREIGHT ALLOWED) Included
- 1 5-YEAR MANUFACTURES WARRANTY Included
- 1 FACTORY START-UP & ADJUSTMENT SERVICE Included

Total Proposal Costs: \$10,642.00

Amount Accepted: _____

Proposed by Chris Cote

Accepted by: _____

Date: 5/5/2023

Date: _____

Optional PO# _____