

No. PW073102-08

Quality Flow Systems, Inc.

July 24, 2002

To: City of Rapid City

Fax# 605-394-8824

Attn: John Wagner

Ref: SCADA - Radio Upgrade

No. of pages sent including cover sheet (4)

One (1) SCADA - Radio upgrade including start-up and all changes as required at the Master. (see attached description)

Total Delivered Selling Price: \$127,600.00

If you have any additional questions or require more information please feel free to give me a call.

Thank You,
QUALITY FLOW SYSTEMS, INC.


Bill Meline

Date: _____
Accepted By: _____
Signature: _____

800 - 6th Street NW
New Prague, MN 56071

Ph# (952) 758-0445
Fax# (952) 758-8661



CONTROL SYSTEMS
NO. RW073102-08
1209 WILLOW LAKE BLVD
VADNAIS HEIGHTS MN 55110
PHONE 651-766-2700
FACSIMILE 651-766-2701

TO	QUALITY FLOW SYSTEMS, INC.	FROM	RON PANTER Direct 651-766-2735
ATTN	BILL MELINE / TROY HEIMERL	DATE	7/24/02
QUOTE	010805FLP1	PAGES	4 (including this page)
PROJECT	RAPID CITY, SD. SCADA, RADIO UPGRADE		

USFilter Control Systems is pleased to provide a quotation based on the use of standard USFilter Control Systems hardware, software and technology that provides an upgrading of communication from Leased Telephone Lines to UHF Radio.

Our radio path study by Jim Stanton indicated 2 sites to have a very questionable radio path (High Level Reservoir and Kepps Booster) from the WTP. Another 6 sites are impossible to reach directly (NR Reservoir/Well-8, Robbinsdale Booster, Robbinsdale Reservoir, Terracita Booster, Skyline Booster and Skyline Reservoir). To reach these sites, we have determined 3 other RTU sites as good candidates for forwarding to the problem paths:

- Well-10 Deadwood Av. Forwarding to NR Reservoir/Well-8.
- SW Reservoir/West View forwarding to Skyline Booster, Skyline Reservoir, Terracita Booster and Robbinsdale Reservoir.
- Kepps Reservoir forwarding to High Level Reservoir, Kepps Booster, Skyline Booster, Skyline Reservoir, Robbinsdale Booster, Robbinsdale Reservoir and Terracita Booster.
- Red Rock Booster.

One cost effective advantage of the MICROCAT 9700 series system is the ability to forward through any RTU without the need of additional radio repeating equipment. If because of man made obstacles or vegetation, these or any other sites encounter path problems, we should be able to achieve good communications by selecting another site. This can all be accomplished on-site during startup. We would like to qualify this study as being computer generated from USGS terrain data excluding consideration of man made objects or vegetation. While several sites do not have good line-of-sight paths, the study indicates the short distance and/or land profile to be within acceptable limits. Since this is not based on actual on-site path measurements, there exists the possibility that one or two sites may not be able to communicate via radio. If that is the case, another advantage of the MICROCAT system is that we can maintain phone line communication to those problem sites in conjunction with all other sites on radio communications. We will be able to use this same feature during the installation or conversion period. We expect to upgrade sites at approximately 2 or 3 per day. Rather than taking down all phone communications at once, we can disable a small group of RTU's at a time in a phased manner.

This quote is based on the addition of radios to the existing WTP master and 37 existing RTU's. Each site requires a larger power supply for powering the radio. Therefore we include the following for each site:

- #9524 power supply.
- #8514 modem (redundant modems at WTP).
- Dataradio #T-96SR and lightning arrester (plus 1 spare radio tuned to system frequency).
- Coaxial cable and connectors, for installation by others.
- OMNI or YAGI antenna as required for installation by others.

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FCC Licensing including all required application fees.
Revised as-built drawings and program modifications.
On-site installation of power supplies and radios within existing enclosures.
Startup and training of radio telemetry.

Alternate-1 Deduct -\$1,500.00 net to delete one radio and power supply for Well-3/Pinedale Booster. These sites are currently 2 individual RTU's adjacent to each other. Rapid City personnel will rewire the I/O so that both sites are wired into only a single RTU. USFCS will revise the programming of the communication and data base and relocate/install spare I/O modules if required, no additional I/O module cost is included in this alternate.

Alternate-2 Deduct -\$3,800.00 net as credit allowed for the purchase of the path study on FO#501762. The path study was purchased with the understanding of a credit of \$100.00 per radio site purchased. To date, including alternates, this quote is covering 37 RTU's plus the master site for a total of 38 sites.

Total Price including all of above is \$127,600.00

Clarifications and Exclusions:

Unless specifically referenced above, USFilter Control Systems:

- Excludes all taxes, fees, permits and licenses.
- Shall not receive, store, set in place, install or terminate any equipment.
- Shall not supply any mechanical appurtenances for panels or instruments. This includes, but is not limited to piping, tubing, valves, concrete work, anchors, support stands, ground cables or rods, stilling wells, etc.
- Shall not supply interconnecting materials external to enclosures, i.e. wiring, cable, conduit, pressure taps, tubing, telemetry or phone lines, or special cables.
- Shall not supply or install separate mounting pushbutton stations, power fuses, pilot control switches, disconnects, manual starters or disconnect.
- Shall not perform any demolition, removal, transfer or disposal.
- Shall not provide poles or masts for radio antennas.
- Shall not install antennas or coaxial cable.
- Radios requiring FCC licensing and/or "line of site" are provided in this proposal. Should the specified frequency band not be available or other modifications be required, the price may change to reflect additional costs incurred by the use of different radios or other components.

Proposed Delivery Schedule:

Drawings 6 to 10 weeks after receipt of order, delivery 6 to 10 weeks after approval.
USFilter Control Systems' commitment to deliver in accordance within the contract schedules is contingent upon a prompt receipt of order and prompt submittal review/approval process.

Delivery and Storage:

Freight allowed to job site, net f.o.b. Shipping Point. Off loading and storage at site is the responsibility of others.

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