



Mrs. Barbara Key
City of Rochester Hills
Department of Public Service
1000 Rochester Hills Drive
Rochester Hills, MI 48309

February 15, 2006

TECHNICAL PROPOSAL

Quote Number:	DQ05231, RevA
Project Ref:	City of Rochester Hills SCADA System enhancements for 2006

This Proposal will provide for our pricing breakdown to make the following SCADA System enhancements to your existing Head End System, based on the discussions held with Mr. Ed Leafdale. The following items are what we are recommending to be completed in 2006:

➤ Historian	- Implement new Dell PowerEdge SC1425 Historical Server & UPS
➤ Misc.	- Perform as required, the listed misc. tasks including Labor & Materials
➤ Service	- Labor Hours for Preventative Maintenance Repair Services for 2006

Historian implementation Pricing

(1) Intellution iHistorian DB Software, 1000 Tags with msExcel Interface	\$9,057.00
(1) Additional Client Access License for iHistorian & Anti-Virus Software	\$720.00
(120) Labor hours to implement above & configure all System Reports	\$7,800.00
Total Amount estimated for this task	\$17,577.00

Pricing for misc. Tasks

80 Hours est. for detailed Investigation of each Site for recommendations	\$5,200.00
8 Hours est. for tying in DPW Generator to Master PLC Control Panel	\$520.00
16 Hrs est. for Calibrating Gas Monitoring Systems w/ DPW Equipment	\$1,040.00
8 Hrs est. to review Communications problems between DWSD & Server	\$520.00
Add SmartI/O Module to existing UPS (Master PLC Panel) for Monitoring	\$560.00
56 Hrs to review Communications w/ Laptop's & Remote Problem Sites	\$3,640.00
Total Amount estimated for this task	\$11,480.00

Balance reserved for 2006 Service

224 Labor Hours for 2006 to perform Preventative Maintenance Services	\$14,560.00
Total Amount estimated for this task	\$14,560.00

Note

Above 2006 budgetary pricing is only an estimate. Some tasks may take longer than others, or be completed in less time than estimated. Astrum Technologies will only bill for the actual hours used, based on the work documented in our Service Reports, or Time Sheets.

Exclusions

Michigan Sales Taxes on Materials. Dell Server, 19" Monitor & UPS Unit (provided by City)
Replacement or Spare Parts. These each will be billed at cost, plus 15% per our Contract
New RTU Panels added to System, including Intellution Screens, This work will be quoted.

Delivery

Delivery of all required Software packages is approx. 2-3 weeks after receipt of your Purchase Order. All Labor hours will be performed on an "as required basis", as approved by Mr. Roger Rousse, DPS Director.

Proposed Delivery Terms

Delivery of Astrum's Instrumentation and Controls equipment is F.O.B. Rochester Hills, Michigan. All freight costs have been included within this proposal for delivery to the City of Rochester Hills.

Payment Terms

All invoices are payable within net-thirty (30) days from the date of our invoice. Astrum Technologies may charge interest on any and all amounts unpaid after the Invoice due date. Such interest shall be at a rate of one and one half percent (1.5%) per month or part thereof.

Contacts

Sales Contact: John Anderson, Sales and Marketing – (248) 651-8299

I&C Engineering Contact: Karl Davers, Chief Controls Engineer – (248) 379-4156

RF Engineering Contact: Scott Krakauer, Senior RF Engineer – (810) 444-6180

Management Contact: Dave Smith, Vice President – (586) 405-1217

Thank you for the opportunity to provide this proposal to the City of Rochester Hills. If you have any further questions, please feel free to contact me at your earliest convenience. We remain committed in providing you with the highest quality on-site Services, and Engineered System(s) in the Industry. Thanks again!

Best Regards,

Astrum Technologies

Dave Smith

Vice President

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