

# Loxahatchee River District

Water Reclamation | Environmental Education | River Restoration

2500 Jupiter Park Drive, Jupiter, Florida 33458

Telephone (561) 747-5700 • Fax (561) 747-9929 • [www.loxahatcheeriver.org](http://www.loxahatcheeriver.org)



D. Albrey Arrington, Ph.D., Executive Director

## MEMORANDUM

TO: D. ALBREY ARRINGTON, Ph.D.  
Executive Director

FROM: CLINTON R. YERKES *CR*  
Deputy Executive Director

DATE: April 12, 2016

SUBJECT: LIFT STATION TELEMTRY – CENTRAL TOWER UNIT  
Award of Contract

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This is a budgeted capital item in the current budget in the amount of \$75,000.00.

The current telemetry system is provided by Data Flow and this will work in conjunction with the current equipment to provide more reliable and frequent polling of critical lift stations throughout the system.

A memo has been provided by Hazen & Sawyer engineers, approved by the Director of Operations and the Purchasing Agent documenting that Data Flow is a sole source provider for the specified equipment

The following motion is suggested for approval of this item:

**“The District Governing Board has received documentation from the Purchasing Agent that the following materials can only be obtained through a “sole source”, as described in the District Procurement Policy, and approves excepting this purchase from bidding requirements; therefore**

**“THAT THE DISTRICT GOVERNING BOARD authorizes award of contract to Data Flow Systems, Inc., for a “Second Polling Loop for Priority Sites” in accordance with their Quote No. 160122-01-DW dated March 15, 2016 in the amount of \$73,746.00.”**

V://cip/proj/misc equip/telemetry/Polling Loop Board Awrd

Stephen B. Rockoff  
Board Member

Dr. Matt H. Rostock  
Board Member

Gordon M. Boggie  
Chairman

Harvey M. Silverman  
Board Member

James D. Snyder  
Board Member



March 15, 2016

Quote No. 160122-01-DW

Mr. Kevin Skellenger  
Loxahatchee River Environmental Control District  
Email: kevin.skellenger@loxahatcheeriver.org

Re: 2<sup>nd</sup> Polling Loop for Priority Sites

Dear Mr. Skellenger:

This proposal offers the hardware and services to provide a 2<sup>nd</sup> polling loop for high-speed communications. The TIM007-34 product is discounted 20% and the remaining work is offered at our cost. Under this scope DFS will secure a new 217-220 MHz frequency for the new loop, and the new radios will be configured for a data rate @ 17 kb/s. The new DFS protocol "DFP" will be utilized as well. The new loop will contain the twenty-five (25) priority sites with poll scan currently set for 90 seconds or less (see attached, sites highlighted). DFS will provide a new CTU and CTU Antenna. The new CTU Antenna will be mounted on the existing concrete pole at approximately 50' above ground. DFS will provide a new TIM007-34, RTA209 Antenna, and coaxial cable at each of the 25 RTU locations.

Should you have any questions or require additional information, please contact me at 321-259-5009.

Sincerely,  
Data Flow Systems, Inc.

David Walker  
Director of Sales

**BILL OF MATERIAL & SERVICES:**

- 1. (27) TIM007-34, 216-220 MHz @ \$1,778.00 EACH (DISCOUNTED 20%) .....\$ 48,006.00**
  - TIM007-34 Upgrade for 25 sites plus 2 spares on new 217-220 MHz frequency
  - 217-220 MHz, 25 kHz, Data Rate @ 17 kb/s, DFP Protocol
  
- 2. (1) NEW HIGH-SPEED CTU: (DISCOUNTED TO DFS COST) ..... \$ 4,246.00**
  - (1) CTU202 Assembly (Non-Metallic Enclosure)
  - (1) Telemetry Interface Module/radio (217-220 MHz, 25 kHz, Data Rate @ 17 kb/s)
  - (2) Network Interface Module (one installed in HSS)
  - (1) Power Supply Module
  - (1) CTA209 Dipole Antenna (mounted 50' on existing concrete pole)
  - (1) Coaxial Cable w/Connectors
  - (1) DFS Onsite Installation Services (estimated at 1 day / 8 hours onsite)

- 3. **(1) 25 RTU MODIFICATIONS: (DISCOUNTED TO DFS COST) .....\$ 12,702.00**
  - (25) RTA209 Yagi Antenna (mounted on existing tower structure)
  - (25) Coaxial Cables w/Connectors
  - (250) Bandit SS Cable Ties
  - (1) DFS Onsite Installation Services (estimated at 2 weeks / 75 hours onsite)
- 4. **(1) REQUIRED 3<sup>RD</sup> PARTY ITEMS: (@ DFS COST) ..... \$ 7,232.00**
  - (1) Man-Lift Rental for 2 weeks (for antenna replacement work) @ \$2,232.00
  - (1) CTU Dipole Antenna Install & Mounting Hardware (Quality Tower Erectors) @ \$5,000.00
- 5. **(26) FCC LICENSING: (@ DFS COST)..... \$ 1,560.00**
  - FCC Licensing Services for new 217-220 MHz frequency

**WORK TO BE PERFORMED BY DFS:**

DFS will secure a new 217-220 MHz frequency for a new and separate polling loop. DFS will install the new CTU inside the building next to the existing CTU at the central site. The CTU Antenna will be mounted on the existing concrete pole at approximately 50' above ground. DFS will subcontract installation of the new CTU Antenna to Quality Tower Erectors (QTE). Any conduit provided by DFS will be PVC rigid and/or flexible and is limited to 30 feet. Trenching under or cutting/patching of sidewalks, parking lots, streets, etc. is not provided by this scope. DFS will install the new TIM007-34, new RTA209 Antenna, and new coaxial cable at each RTU location (25 locations total). All removed items will be turned over to the utility. DFS will transfer the RTU configurations to the new high-speed radio driver in the Hyper SCADA Server. Any historical data residing on the existing HSS for the 25 sites will be moved to the new driver.

**WORK TO BE PERFORMED BY THE UTILITY:**

The utility will need to make sites available to DFS when work is scheduled (40 hours per week, 2 consecutive weeks), and have personnel available to operate system as needed while DFS work is performed. The utility will be responsible for all work, configurations, etc. associated with the VT-SCADA Software.

**PRICING & TERMS:**

**This quotation totals \$73,746.00, plus any applicable taxes.** Please review the Quotation Notes listed below. Lead time is approximately 8 weeks after receipt of order. DFS payment terms are NET 30. This quotation will be honored for 90 days.

**QUOTATION NOTES:**

1. Only those items and services specifically listed above are included in this quotation.
2. DFS employees will not enter "Confined Spaces" and/or "Permit-Required Confined Spaces" as defined by OSHA. Any such requirement will be performed by others.
3. All electrical equipment to be accessed by DFS employees must be temporarily removed from service during the performance of our scope of work.
4. This quotation does not include any required permitting and associate fees.
5. This quotation stipulates that DFS existing insurance provider(s) and policy coverage are acceptable. In the event that you require a change to insurance provider(s), additional coverage, and/or amending the terms of our existing policies, we reserve the right to void and withdraw this quote and replace it with an amended quote which contemplates and provides for the recovery of the cost associated with analyzing and complying with different insurance requirements. Policy information can be found at <http://www.dataflowsys.com/company/documents/insurance-coverage.pdf>



Hazen and Sawyer  
2101 NW Corporate Blvd., Suite 301  
Boca Raton, FL 33062 • 561-997-8070

March 16, 2016

*Transmitted Electronically*

Hazel M. Figueroa, Purchasing Agent  
**Loxahatchee River Environmental Control District**  
2500 Jupiter Park Drive  
Jupiter, Florida 33458-8964

**Re: LRD PO 16-0346 - Lift Station Telemetry/Communication Polling Loop Hardware/Services**

Dear Ms. Figueroa:

It is the desire of Loxahatchee River District (District) staff to purchase hardware and services for a second polling loop to be added to the District's existing lift station telemetry system.

It is proposed that the hardware and services for the polling loop be provided by Data Flow Systems, Inc. Data Flow Systems, Inc. is the manufacturer and sole provider of the telemetry system for the District's existing wastewater collection system network. We believe the new polling loop requires compatibility with the existing telemetry system. As the new polling loop is only available from the existing telemetry system equipment manufacturer (Data Flow Systems, Inc.), we recommend that the products and services associated with the installation of the additional polling loop for the lift station telemetry system be provided by Data Flow Systems, Inc.

We appreciate the opportunity to assist you in this effort. Please contact us if you require any additional information.

Very truly yours,

John C. Koroshec, P.E.  
Senior Associate

c: File 42009-025-3.1.2