

RESOLUTION NO. \_\_\_\_\_

A RESOLUTION AUTHORIZING THE ADMINISTRATOR FOR THE DEPARTMENT OF PUBLIC WORKS TO ENTER INTO AN AGREEMENT WITH AIRSEP PROCESS AND CONTROL, LLC, FOR REMOTE MONITORING SERVICES FOR CRYOGENIC OXYGEN GENERATION SYSTEM AT MOCCASIN BEND WASTEWATER TREATMENT PLANT, FOR AN AMOUNT NOT TO EXCEED SEVENTY-FIVE THOUSAND DOLLARS (\$75,000.00).

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BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, it is hereby authorizing the Administrator for the Department of Public Works to enter into an agreement with Airsep Process and Control, LLC, for remote monitoring services for cryogenic oxygen generation system at Moccasin Bend Wastewater Treatment Plant, for an amount not to exceed \$75,000.00.

ADOPTED: \_\_\_\_\_, 2014

/mms

# City of Chattanooga



## Resolution Request Form

(This form is only required for resolutions requiring expenditure of City funds)

Date Prepared: January 31, 2014

Preparer: Alice L. Cannella, Director

Department: Public Works

**Brief Description of Purpose for Resolution:**

Resolution Number (if approved by Council): \_\_\_\_\_

A resolution authorizing the Administrator of Public Works to enter into an agreement with Airsep Process and Control, LLC, for remote monitoring services for cryogenic oxygen generation system at Moccasin Bend Wastewater Treatment Plant in an amount not to exceed \$75,000.00.

Name of Vendor/Contractor/Grant, etc.	<u>Airsep Process &amp; Control, LLC</u>	New Contract/Project? (Yes or No)	<u>Yes</u>
Total project cost \$	<u>75,000.00</u>	Funds Budgeted? (YES or NO)	<u>Yes</u>
Total City of Chattanooga Portion \$	<u>75,000.00</u>	Provide Fund	<u>6010</u>
City Amount Funded \$	<u>75,000.00</u>	Provide Cost Center	<u>K30106</u>
New City Funding Required \$	_____	Proposed Funding Source if not budgeted	_____
City's Match Percentage %	_____	Grant Period (if applicable)	_____

**List all other funding sources and amount for each contributor.**

<u>Amount(s)</u>	<u>Grantor(s)</u>
_____	_____
\$ _____	_____
\$ _____	_____

Agency Grant Number \_\_\_\_\_

CFDA Number if known \_\_\_\_\_

ISS Operations Budget \_\_\_\_\_

Approved by: \_\_\_\_\_

DESIGNATED OFFICIAL/ADMINISTRATOR

Reviewed by: FINANCE OFFICE

Please submit completed form to @budget, accounting, City Attorney, City Finance Officer and Deputy Administrator Finance

Date: December 6, 2013

Ref. No.: 87372

**PURCHASING DEPARTMENT  
101 EAST 11<sup>TH</sup> STREET  
SUITE G13  
CHATTANOOGA, TENNESSEE  
37402**

**Request for Proposals (RFP) for the City of Chattanooga**

*Proposals will be received at 101 East 11<sup>th</sup> Street, Suite G13, Chattanooga, TN 37402 until 4:00 P.M., on January 8, 2014*

**Requisition No.: 87372  
User Dept.: Waste Resources  
Buyer & e-mail: Geoffrey Hipp hipp\_g@chattanooga.gov**

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**Project: Remote Monitoring Services for Cryogenic Oxygen Generation System at Moccasin Bend Wastewater Treatment Plant**

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**\*\*\*PROPOSALS MUST BE RECEIVED BY\*\*\*  
4:00 P.M., Eastern on January 8, 2014**

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The City of Chattanooga reserves the right to reject any and/or all proposals, waive any informalities in the proposals received, and to accept any proposals which in its opinion may be for the best interest of the City.

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color or national origin.

The City's Standard Terms and Conditions may be found on website: ([www.chattanooga.gov/general-services/purchasing/standard-terms-and-conditions](http://www.chattanooga.gov/general-services/purchasing/standard-terms-and-conditions))

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**Note: ALL SUBMITTALS MUST BE SIGNED**  
All proposals received are subject to the terms and conditions contained herein. The undersigned Offeror acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

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**PLEASE PROVIDE THE FOLLOWING INFORMATION:** TIN: 46-1902035

Company Name: AIRSEP PROCESS & CONTROL LLC

Mailing Address: 1337 101<sup>ST</sup> STREET

City & Zip Code: NIAGARA FALLS NY 14304

Phone/Toll Free No.: 716-998-7928

Fax No.: 716-524-6769

E-Mail Address: AIRSEPPC.COM

Contact Person: DAVID MARTIN

Company Title: MANAGING MEMBER

Signature: David Martin



## AirSep Process & Control LLC

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January 2, 2014

City of Chattanooga Purchasing  
101 East 11<sup>th</sup> Street  
Chattanooga, TN

Att: Geoffrey Hipp

Reference: **RFP for REMOTE MONITORING SERVICES FOR THE MOCCASIN  
BEND WASTEWATER TREATMENT PLANT CRYOGENIC OXYGEN  
GENERATION SYSTEM**

AirSep Process & Control LLC is pleased to submit its proposal for the above-referenced services in accordance with the proposal requirements. Enclosed are one electronic (CD) copy in PDF format and one original plus six copies totaling seven bound copies.

Should additional information or clarification be required, please direct any inquiries to my attention at 716-998-7928.

Very truly yours,  
AirSep Process & Control LLC.

David Martin  
Managing Member

## PROPOSAL CONTENTS

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## **SECTION 1.0**

GENERAL INFORMATION- Itemized per Section 3.1 of RFP

A. Company: AirSep Process & Control LLC  
1337 101<sup>st</sup> Street  
Niagara Falls, NY 14304  
Tel. (716)998-7928  
Fax. (716)524-6769  
Email: [dmartin@airseppc.com](mailto:dmartin@airseppc.com)

Primary Contact: David Martin  
1337 101<sup>st</sup> Street  
Niagara Falls, NY 14304  
Tel: (716)998-7928  
Fax. (716)524-6769  
Email: [dmartin@airseppc.com](mailto:dmartin@airseppc.com)

- B. AirSep Process & Control LLC was established as a New York State LLC in 2013, and is headed by David Martin who has over thirty nine years of experience in the air separation industry including management positions at the Praxair Engineering Center in Tonawanda, NY, it provides equipment, systems and technical expertise to municipalities and industries for the cost effective, efficient operations support and upgrade of facilities.
- C. All elements of the RFP will be performed by AirSep Process & Control resources without the using of subcontractors, insurance certificate provided upon notification of award.
- D. AirSep Process & Control team members David Martin, Earl Haima and Rich Peluso have a working relationship dating back to the mid-1970's when all worked together for Union Carbide –Linde Divisions Enviromental Services Group responsible for startup and training for new U-Plant Cryo plants and UNOX secondary treatment systems. The Enviromental Services business was eventually sold to Lotepro Corporation and finally to Mixing and Mass Transfer (m2t), Rob Griggs joined Lotepro in the 1980's and has worked closely with Earl Haima, Rich Peluso and Dave Martin on numerous jobs over the years.
- E. AirSep Process & Control LLC was established as a New York State LLC in 2013, it has the most experienced technical staff of any other service company in the U-Plant service industry.

## **SECTION 2.0**

### **FIRM AND TECHNICIAN QUALIFICATIONS**

AirSep Process & Control LLC was established as a New York State LLC in 2013, and is headed by David Martin who has over thirty nine years of experience in the air separation industry including management positions at the Praxair Engineering Center in Tonawanda, NY, it provides equipment, systems and technical expertise to municipalities and industries for the cost effective, efficient upgrade of facilities.

AirSep Process & Controls field personnel have been involved in the original construction, startup, and upgrade of legacy Union Carbide U-Plant cryogenic facilities since the mid-1970's including the Chattanooga U145 plant.

AirSep Process & Controls service organization charter is to provide superior operations and maintenance service support activities. Exposure to a broad Client base has provided AirSep Process & Controls multi-skilled service personnel with unparalleled troubleshooting experience. Since it is often difficult to determine, in advance, if a plant problem is a result of process control, instrument calibration, or machinery, having multi-skilled service personnel expedites troubleshooting and problem resolution. The customer saves overall with multi-skilled personnel because of the substantially fewer hours of service required. A plant problem can involve one call and one service visit for resolution - not 2 or 3 people, and related coordination delays and additional expense.

Through prior commissioning of new UNOX wastewater treatment facilities, AirSep Process & Controls personnel are qualified to address O&M issues related not only to the oxygen generation facilities, but also the dissolution systems and the interrelated instrumentation and control systems. This cryo plant and UNOX expertise is unique to our organization.

We have detailed experience in all levels of plant automation, having recently designed and started up several advanced design, HMI/PLC, air separation plants for m2t.

## SECTION 3.0

### Project Staff Experience Summary

AirSep Process & Controls key staff and their roles with respect to the contract services is as follows:

**David Martin** ([dmartin@airseppc.com](mailto:dmartin@airseppc.com))

tel 716-998-7928

fax 716-524-6769

Primary Contact, Service scheduling, contracts administration, HMI and PLC system design/programming/commissioning, also cryo plant operations and training. Dave was involved in the original construction and checkout phases of the Chattanooga U145 Cryo Plant while working for Union Carbide –Linde and has made visits for turnaround assistance within the last few years in his role as a Service Manager for m2t. He has thirty nine years in the air separation industry.

**Rob Griggs** ([robgriggs1@gmail.com](mailto:robgriggs1@gmail.com))

Rob will continue with the day to day U145 Cryo Plant remote monitoring effort he championed with m2t. Rob has over thirty years experience in the air separation industry and is well versed in both the process and instrumentation areas. His previous background with working hand in hand with the City of Chattanooga personnel is unmatched and invaluable.

tel 704-490-1890

**Rich Peluso**

Rich has over forty years experience in cryogenic plants, non-cryogenic plants and UNOX systems. He will assist with UNOX, Cryo Plant and Emergency Services. Rich also has made service visits to Chattanooga previously so is very familiar with the facility.

**Earl Haima**

Earl has over fifty years experience in cryogenic oxygen plants, he was the Program Manager for Union Carbide –Linde in the 1970's when the U-Plant product line was established by Union Carbide-Linde, he is the ***most knowledgeable individual anywhere*** regarding the U-Plant product line which includes the Chattanooga U145 cryo plant, he will assist with Quarterly Visits, Training and Emergency Service..

*AirSep Process & Control has additional service personnel that meet the qualifications requirements should such assistance be necessary.*

**Resumes for all the above attached. See Section 6.0**

## SECTION 4.0

### Previous Experience With Similar Projects

Note: Projects below were performed by current AirSep Process & Control technicians while employed by Mixing & Mass Transfer (m2t) but attests to AirSep Process & Controls current abilities in these areas.

**1. Moccasin Bend Wastewater Plant**

455 Moccasin Bend RD  
Chattanooga, TN 37405  
(423) 757-5026

Representative: Charles Thomas Ph:423-757-5026

Service Performed by Rob Griggs

**Services Provided:**

- Remote Monitoring of Cryogenic Oxygen Plant
- Field Support, annual turnaround assistance, training

**Duration: Four Years**

- Begin: November 2009
- End: November 2013
- Value of Contract: Fifty Thousand Dollars (\$50,000.00) per year.

**2. Miami-Dade Water & Sewer**

3989 Rickenbacher Causeway  
Miami, FL 33149  
(786) 232-2586

Representative: Joe Cummings Ph:786-232-2586

Service performed by David Martin

**Services Provided:**

- Control Systems Upgrades for nine cryogenic oxygen plants
- Field Support, annual turnaround assistance, training

**Duration: Three Years**

- Begin: November 2010
- End: January 2014
- Value of Contract: Three Hundred Thousand Dollars (\$300,000.00) per year.

**3. Patapsco Wastewater Treatment Plant**

3501 Asiatic Avenue  
Baltimore, MD 21226  
(410) 491-3320

Representative: Marvin Young Ph:410-491-3320

Service performed by David Martin

**Services Provided:**

- Control Systems Upgrades for two cryogenic oxygen plants
- Field Support, annual turnaround assistance, training

**Duration: Two Years**

- Begin: April 2009
- End: April 2011
- Value of Contract: Three Hundred Thousand Dollars (\$300,000.00) per year.

## **SECTION 5.0**

### **PROJECT OVERVIEW AND APPROACH**

AirSep Process & Control provides O&M services to municipal and industrial owners of wastewater treatment systems that incorporate high-purity, on-site oxygen generation plants. Most of these contracts are renewed annually under the terms and conditions of our standard Service Agreement, the rest are the result of requests for bids or proposals.

We are prepared to deliver all elements of the Scope of Services as detailed in the RFP 87372 document, and our staff have, in fact, provided these and other related services since 1975 while employed by Union Carbide Linde Division, Loterpro and Mixing & Mass Transfer (m2t). This length of experience provides us with an unequivocal familiarity with both U-Plant and UNOX Systems allowing focused efforts on improvement of plant and personnel performance without a learning curve period..

Key areas to be addressed under this contract are remote monitoring of the cryogenic oxygen plant, quarterly plant inspection, troubleshooting, personnel training and emergency field service assistance. Our project approach is to develop an annual work schedule to accommodate the City's resource and personnel availability, and confirm the task schedule dates several weeks in advance. This enables us to ensure that our commitment to the City is met, while retaining flexibility if circumstances change.

Confidence with a vendor can only be earned through a prolonged period of consistent performance, and has a significant value. We hope that our employee's extensive experience with the City engineering, operations, and maintenance staffs over the years will serve to confirm the professionalism we bring to our service activities.

#### **Remote Monitoring Services**

Rob Griggs will provide the Remote Monitoring Services.

His work process consists of the online viewing of the U145 Cryogenic Plants operating data every day and compiling the required reports for Chattanooga personnel.

If any abnormal conditions exist during his process review he will either email or call Charles Thomas of Chattanooga depending on the severity of the observation.

He also may call the cryogenic control room direct if the situation warrants.

#### **Quarterly Plant Visits**

The objective of the quarterly plant visits would be while assisting with the operational 90 day cold end gel trap thaw to also perform a complete cryo plant inspection and/or operator training. All major process areas would be inspected and a punchlist generated of items that need attention, the punchlist would be reviewed each succeeding trip to ensure items have been completed.

Hands on operator training exercises pertaining to proper cryo plant operation will also be planned for each plant visit. The first Quarterly Visit should be scheduled for the week of February 10<sup>th</sup>, 2014 as the last 90 day CEGT thaw was November 9<sup>th</sup>, 2013.

#### **Emergency Services**

We will provide the emergency service support as per the RFP document requirement. Contact David Martin if needed.

## SECTION 6.0

### RESUMES of Key Staff

- David Martin
- Rob Griggs
- Earl Haima
- Rich Peluso

David A. Martin PMP  
1337 101<sup>st</sup> Street  
Niagara Falls, NY 14304  
(716) 297-2078  
dmartin@airseppc.com

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## PROFESSIONAL CERTIFICATIONS

Project Management Professional **PMP**, obtained September 2001

## EXPERIENCE

**AirSep Process & Control LLC**, May 2013 to Present

- Managing Member
  - Provide Technical Assistance to Cryogenic Oxygen Plant customers

**Independent Contractor**, May 2013 to current

- Consulting contract with Mixing & Mass Transfer Inc
  - Provide Technical Assistance to Cryogenic Oxygen Plant customers.

**Mixing & Mass Transfer Inc**, April 2006 to April 2013

### ***Service Manager/Project Manager***

- Provide Air Separation Plant process technical support to clients.
- Provide maintenance planning and turnaround assistance to Air Separation Plant clients including thawing, cooldown and coldbox start-up.
- Control Systems Upgrades, Project Management, Commissioning and Start-up of upgraded control systems. Programmer (PLC & HMI, Intellusion iFIX, Allen Bradley Controllogix, GE Fanuc 90-30) for Cryo Plant Upgrades for the City of Baltimore and Miami-Dade County, seven plants total.

**Independent Contractor**, January 2003 to March 2006

- Worked on Six Sigma projects for client.
- Checkout and commission Allen Bradley RSView and PLC5 control system upgrade for client's air separation facility, plant control was previously pneumatic.

**Praxair Inc**, September 1974 to November 2003

### ***Team Leader - Fill Zone Engineering Group (January 2001 to November 2002)***

- Managed small team of eleven Control Systems Engineers and one Project Manager in the design and commissioning of Praxair's Automated Fill Zones to meet FDA requirements.

### ***Start-up Engineer - Commissioning Department (September 2000 to December 2001)***

- Commissioning and Start-up new Praxair air separation plants.  
Control Systems Engineer – Operations Engineering Department (June 1996 to August 2000).

### ***Project Engineer – VPSA Engineering Department (January 1994 to May 1996)***

- Specify process equipment and start-up/commission Oxygen VPSA's.
- Program FIX32/Allen Bradley SLC5/04 control systems.

### ***Control Systems Engineer – Plant Operations Engineering Department (September 1993 to December 1994)***

- Provided Instrumentation support on a National level to Praxair's onsite operating plants.

### ***Shift Superintendent – Niagara Falls Production Plant (March 1981 to August 1993)***

- Job consisted of production and engineering responsibilities. Production duties encompassed the day to day operation of an air separation plant producing Oxygen, Nitrogen and Argon as well as two Liquid Hydrogen plants.

### ***Prior Praxair assignments – (September 1974 to February 1981)***

- Held positions in the UNOX dept as a start-up technician, performing field checkout and start-up activities of the U-Plant cryo plant product line for supplying gaseous oxygen for wastewater treatment.

## **Robert L. Griggs**

177 Miller Ave. S.W.  
Concord, North Carolina 28025-5651  
Email: RobertGriggs1@gmail.com  
Mobile Phone (704) 490-1890

### **QUALIFICATIONS**

Forty plus years experience in electronic control technology.  
Thirty years experience in field services related to air separation plants (cryogenic and molecular sieve), pure oxygen activated sludge wastewater treatment, construction, checkout, start-up, operator training, safety surveys, and plant retrofits.  
Work experience includes nationwide and international customer sites. International sites include Canada, Mexico, Argentina, Saudi Arabia, Taiwan, Egypt, and Uzbekistan.

### **WORK HISTORY**

***2011-Present Plant Manager, Matheson Tri-Gas***

***2002-2011 Service Supervisor, Lotepro Environmental Systems and Services, m2t Technologies,***

Responsibilities include all phases of construction; checkout, start-up, training, and interface with client concerning design implementation of supplied systems and subsystems. Recently worked with Linde/BOC Process Plants on N2 PSA System checkout at manufacturer's shops in Charlotte, NC.

***1981- 2002 Service Supervisor, Lotepro Corporation/Linde AG***

Responsibilities include all phases of construction; checkout, start-up, training, and interface with client concerning design implementation of supplied systems and subsystems. Collateral responsibilities include interface with design engineering team, marketing, quality assurance, and ISO compliance team. Have been assigned additional responsibilities as on-site Construction Manager, and Start-up Engineer. While control systems are my primary responsibility (from hard-wired relay to distributed control systems), I have extensive process control experience with all of our projects. Received Distinguished Employee Award 1992.

***1979-1981 Instrument Specialist, Board of Light and Water Concord, N.C.***

Responsibility for maintaining control systems of Regional Wastewater Treatment Facility. Instrumentation included pneumatic, electrical, and electronic controls for a 25 Million-Gallon Per Day plant. Obtained state license for plant operations (Grade II Operator's License).

Earl L. Haima  
2850 Amsdell Rd. Unit 30  
Hamburg, NY 14075  
716-649-2759  
[earlhaima@aol.com](mailto:earlhaima@aol.com)

## **EXPERIENCE**

### **AirSep Process & Control LLC**

- Customer Service for Union Carbide and Air Products Cryogenic Oxygen Generation Plants
- Cryogenic Oxygen Generation Plant Operator Classroom and Hands-On-Training
- Cryogenic Oxygen Generation Plant Assessment, Evaluations and Engineered Improvements.

### **Mixing and Mass Transfer, Inc. 2001-2013**

- Customer Service for Union Carbide and Air Products Cryogenic Oxygen Generation Plants
- Cryogenic Oxygen Generation Plant Operator Classroom and Hands-On-Training
- Cryogenic Oxygen Generation Plant Assessment, Evaluations and Engineered Improvements.

### **Lotepro Corporation 1986-2000**

Cryogenic Service Manager

- Customer Service for Union Carbide and Air Products Cryogenic Oxygen Generation Plants
- Customer Contacts, Planning, and Relations
- Cryogenic Oxygen Generation Plant Operator Classroom and Hands-On-Training
- Cryogenic Oxygen Generation Plant Assessment, Evaluations and Engineered Improvements

### **Union Carbide Corporation, Linde Division 1953-1985**

1953-1961 Ashtabula, Ohio - Various operation and maintenance positions

1962-1965 Struthers, Ohio – Shift Foreman

- Supervise operations of one (1) on-site cryogenic oxygen generation plant

1965-1970 Ecorse, Michigan – Shift Foreman

- Supervise shift operations for four (4) on-site cryogenic oxygen generation plants

1970-1976 Ecorse, Michigan – Assistant Plant Manager

- Assist Plant Manager in the day to day operation/supervision of four (4) oxygen generation plants

1976-1982 Tonawanda, New York – Program Manager U-Plants

- Led the development and presentation of manuals, training, startup and performance testing of the U-Plant Oxygen Generation Plants for the UNOX Process.

1982-1985 Tonawanda, New York - Program Manager Technical Feedback

- Technical Feedback Implementation and Engineered Services for Linde Engineering and Production Departments. Liaison for Lotepro during wastewater transition period.

**Resume**  
**Richard Peluso**  
**(727) 403-4739 cell**

**EDUCATION:**

1968-70 AAS, Chemical Technology- Technical Institute  
1972 ASM-CEU, Corrosion and Water Treatment  
1974 ZENITH ELECTRONICS-CEU, DC electronics  
1980 FOXBORO CO-Principles, calibration and repair of  
pneumatic instruments  
1991 Supervisory Management in the Wastewater Field  
Michigan State University

NY State 1-A WWTP Operators License  
State of California Contractors License

**EXPERIENCE:**

1970-73 **UNION CARBIDE LABS** - Process plant, and pressure  
vessel design and metallurgy  
1973-76 UNOX Pilot Plant process control and maintenance  
1976-78 UNOX full scale process design, biology, and mass  
transfer  
1978-80 Engineered Services - Cryo plant O&M & Performance  
1981 - **LOTEPRO Services** -  
present

- a. MAC: Joy, IR & Cooper recipes & cents, related coolers
- b. Cryo Columns: U-25 thru U-450; GAN 500
- c. PSA / VPSA: all up to 40 TPD
- d. UNOX: all up to 800 MGD
- e. Instruments: pneumatic & electronic
- f. Programmable Controllers
- g. Digesters: Dual, anaerobic
- h. Tertiary: Ni/denitrification; Phostrip
- i. Basic manual and advanced hands-on training
- j. Plant assessment, engineered improvements

6/1/2013 **AirSep Process & Control LLC**  
to Present

- a. Cryogenic Oxygen Plant Maintenance and Service
- b. Pressure Swing Adsorption Oxygen Plant Service

**SECTION 7.0**

**RFP PRICING**

**PRICING PER RFP SECTION 1.1- A&B.**

- A. PROVISION OF COMMUNICATIONS NETWORK, and
- B. REMOTE MONITORING SERVICES.

Total *monthly cost* for the above services = **\$3,333.00**

Total *annual cost* = **\$39,996**

**PRICING PER RFP SECTION 1.1- C**

- C. QUARTERLY INSPECTION, TROUBLESHOOTING, AND TRAINING VISITS.  
*Cost per 40 hour visit and all associated labor, travel, and incidentals*  
= **\$6,300.00** .

**PRICING PER RFP SECTION 1.1- D**

- D. EMERGENCY FIELD SERVICE ASSISTANCE  
*Cost per day including all associated labor, travel, and incidentals*  
= **\$1,260.00** .