SEMINOLE COUNTY GOVERNMENT
AGENDA MEMORANDUM

SUBJECT: RFP-600681-09/BJC - Wonderware Industrial Application Server (IAS) Enterprise Platform

DEPARTMENT: Administrative Services **DIVISION:** Purchasing and Contracts

AUTHORIZED BY: Frank Raymond **CONTACT:** Betsy Cohen **EXT:** 7112

MOTION/RECOMMENDATION:
Award RFP-600681-09/BJC - Wonderware Industrial Application Server (IAS) Enterprise Platform to DCR Engineering Services, Inc., Mulberry (Base Cost of $155,449.00 Plus $80.00 per hour for Troubleshooting Services).

County-wide Ray Hooper

BACKGROUND:

Purpose: This project is to upgrade the utility's current version of Wonderware® InTouch 9.0 software, to the latest version of Wonderware® InTouch HMI. This software application is the software running the utility's Supervisory Control and Data Acquisition (SCADA) system.

Need: Current system was originally installed and started in 1988 to monitor and control the utility's sewage pump stations with a planned build out of system of 250 pump stations. Over the years through system modernization and optimization our system has grown to the current level of approximately 300 sewage pump stations, 14 water treatment plants, 2 wastewater treatment plants, 3 reclaimed water pumping facilities and the Landfill's leachate system. Under current system platform and version of software, there are 50,000 tagnames (input / output connections) available, we are currently using approximately 44,700 of them. To allow for more system growth and more systems to be automated, we are now being required to move up to the next class of system. The new SCADA software runs under a new operating platform, ArchestrA®, this new platform allows for up to 1 million points of I/O. With this upgrade we should be able to grow for the next twenty years.

Project: This project consists of reconfiguration of the current SCADA system computer hardware to accept the new system operating platform ArchestrA®. The InTouch 9.0 system will then be upgraded to the current version, InTouch HMI. Our current three Industrial SQL databases will be merged into one Wonderware Historian® and our current I/O servers will be configured for local storage and the data store and forward functions will be configured. Each plant site will be configured with its own I/O server for better data management.This project will upgrade and reconfigure the following SCADA system nodes: Apple Valley WTP, Southeast Regional WTP, Field 1-SER, Greenwood 2, Greenwood Lakes WTP, Greenwood, Greenwood SQL Server system, Greenwood Lakes WWTP, Hanover WTP, Heathrow WTP, Indian Hills, SER InSQL Server System, Lake Hayes, Lynwood, Main 1-SER, Main 2 – SER, Markham Regional WTP, Lake Monroe WTP (Monroe), Yankee Lake WWTP, OPSRM SCADA, SER Server, Yankee

Lake WWTP SQL.

Project Product: The system will have the latest version of InTouch running on all computers in the utility's current SCADA system, with complete functionality of all programs, reports, data storage, etc. as was running in the original system. The system will also have the ability to grow past the current 50,000 tag limit.

Background information: Wonderware® is the market leading software solutions brand for real-time operations management software providing solutions for: Supervisory HMI (Human Machine Interface), SCADA (Supervisory, Control and Data Acquisition), Production Management, Performance Management, and integration with asset management, applications. Wonderware® is a brand offering of the Operations Management Division of Invensys Corp.

I**nTouch®** software application by Wonderware® provides graphic visualization of our utility equipment, which allows remote equipment operations management, control and optimization. InTouch® is known as a Human Machine Interface (HMI) allowing the plant or system operator control of his equipment via a graphical user interface (GUI).

ArchestrA® is a comprehensive automation and information software architecture, designed to integrate systems by leveraging the latest, open industry standards and software technologies. ArchestrA® 'industrializes' Microsoft .NET® and other Microsoft® technologies in order to provide an even more productive toolset for plant operations management software solutions for production and utility facilities operations. ArchestrA® technology is delivered in the form of development toolkits that extend Microsoft Visual Studio .NET®, as well as in the form of complete products and applications from Wonderware®. Utilizing ArchestrA® technology, applications can be rapidly assembled using software objects rather than being "programmed". Template objects can be created for almost any purpose then used to build new applications simply through the reassembly and slight modification of these objects – saving time and lowering development costs. Scalability to manage systems in size from 250 to over 1 million I/O connections, regardless of geographic location.

Wonderware Historian® component of the system is a high-performance real-time database for industrial and plant historical information. It combines the power and flexibility of a relational database with the speed and compression of a true process control historian. Wonderware Historian® is designed to collect a wide variety of plant data, at full resolution and very high data rates, and is hundreds of times faster than standard database systems and saves data in a small fraction of the space. Wonderware Historian® is scalable for any sized system or systems.

Tagnames (tags) are input / output connection points within our InTouch® systems that are monitored, controlled and logged. They are items such as level, position, speed, switch on or off, calculations, flow totalizations, flow rate, set points, logged events and pressures etc.

I/O Servers are computers that directly talk to the plant equipment and PLC's. Currently we have only one main I/O server for the water plants, two for the sewage pump stations and three for the wastewater facilities. After the project we will have an I/O server at each plant allowing for data collection when the network is down.

Store and Forward data management allows for each I/O server to collect and store data

locally with the data being mirrored onto offsite redundant storage. If the connection is lost to the offsite historian database, the data will continue to be stored locally and will be forwarded to the offsite historian as soon as the connection is restored.

PLC (Programmable Logic Controller) are purpose-built machine control computers designed to read digital and analog inputs from various sensors, execute a user defined logic program, and write the resulting digital and analog output values to various output elements like turning on pumps, opening valves and speeding up or slowing down motors. PLCs are the devices that feed data to our I/O servers.

STAFF RECOMMENDATION:

Staff recommends that the Board to award RFP-600681-09/BJC - Wonderware Industrial Application Server (IAS) Enterprise Platform to DCR Engineering Services, Inc., Mulberry (Base Cost of $155,449.00 Plus $80.00 per hour for Troubleshooting Services).

ATTACHMENTS:

1. Tabulation Sheet
2. Agreement
3. Evaluations of Proposals

Additionally Reviewed By:

☑ County Attorney Review (Ann Colby)

B.C.C. - SEMINOLE COUNTY, FL
RFP TABULATION SHEET

RFP NUMBER: RFP-600681-09/BJC
RFP TITLE: Wonderware Industrial Application Server (IAS) Enterprise Platform
DUE DATE: June 10, 2009 at 2:00 P.M.

ALL RFP'S ACCEPTED BY SEMINOLE COUNTY ARE SUBJECT TO THE COUNTY'S TERMS AND CONDITIONS AND ANY AND ALL ADDITIONAL TERMS AND CONDITIONS SUBMITTED BY THE PROPOSERS ARE REJECTED AND SHALL HAVE NO FORCE AND EFFECT. RFP DOCUMENTS FROM THE CONSULTANTS LISTED HEREIN ARE THE ONLY RFP'S RECEIVED TIMELY AS OF THE ABOVE OPENING DATE AND TIME. ALL OTHER RFP DOCUMENTS SUBMITTED IN RESPONSE TO THIS SOLICITATION, IF ANY, ARE HEREBY REJECTED AS LATE.

DCR Engineering Services, Inc. 502 C.R. 640 E Mulberry, Florida 33860 (866) 513-1604 – Phone (863) 428-8036 – Fax Clark Crain		Revere Control Systems 2240 Rocky Ridge Road Birmingham, Alabama 35216 (205) 824-0004 – Phone (205) 824-0408 – Fax Robert R. Adams	
General Conditions	$20,000.00	General Conditions	$6,486.00
Submittals and Final Documentation	$5,555.00	Submittals and Final Documentation	$19,296.00
Upgrade Installation, Programming & Configuration Services	$45,000.00	Upgrade Installation, Programming & Configuration Services	$117,818.00
Historical Server Installation, Programming & Configuration	$40,000.00	Historical Server Installation, Programming & Configuration	$42,896.00
Functional Demonstration Testing	$15,000.00	Functional Demonstration Testing	$29,580.00
Training Services	$25,000.00	Training Services	$11,890.00
Warranty	$4,894.00	Warranty	$19,674.00
Base Bid Price for Contract (Items 1 – 7)	$155,449.00	Base Bid Price for Contract (Items 1 – 7)	$247,640.00
Troubleshooting Services	$80.00/hour	Troubleshooting Services	$203.00/hour

EVALUATION FACTORS. The following criteria will be used in the evaluation of the proposals:

- Overall experience of the firm in providing Wonderware Upgrade and related services for turn-key operation in accordance with all applicable rules and regulations;
- Understanding of scope of work, purposes and objectives of the project & understanding of the Firm's role and responsibilities, management plan;
- Qualifications of the Proposer's project manager and personnel assigned to this account;
- Quality of the content of the Proposer's proposal;
- The sufficiency of resources and ability of the Proposer to comply with the contract and provide the services;
- Cost Proposal, warranty, maintenance

Status:
Tabulated by Betsy J. Cohen, Procurement Supervisor (Posted 6/10/2009 at 4:30 P.M.)

WONDERWARE UPGRADE SERVICES AGREEMENT
WONDERWARE INDUSTRIAL APPLICATION SERVER ENTERPRISE PLATFORM
(RFP-600681-09/BJC)

THIS AGREEMENT is made and entered into this _____ day of _____, 20____, by and between **DCR ENGINEERING SERVICES, INC.**, duly authorized to conduct business in the State of Florida, whose address is 502 C.R. 640 East, Mulberry, Florida 33860, hereinafter called Application Engineering System Supplier ("AES"), and **SEMINOLE COUNTY**, a political subdivision of the State of Florida, whose address is Seminole County Services Building, 1101 East First Street, Sanford, Florida 32771, hereinafter called "COUNTY".

W I T N E S S E T H:

WHEREAS, COUNTY desires to retain the services of a competent and qualified AES to provide upgrade to the current version of Wonderware running on the COUNTY's supervisory control and data system to the latest version of In Touch; and

WHEREAS, COUNTY has requested and received expressions of interest for the retention of services of a AES; and

WHEREAS, AES is competent and qualified to furnish services to COUNTY and desires to provide its services according to the terms and conditions stated herein,

NOW, THEREFORE, in consideration of the mutual understandings and covenants set forth herein, COUNTY and AES agree as follows:

SECTION 1. SERVICES. COUNTY does hereby retain AES to furnish services and perform those tasks as further described in the Scope of Services and Performance Work Statement attached hereto and incorporated herein as Exhibit A. AES shall also be bound by all requirements contained in the solicitation package and all addenda thereto.

SECTION 2. AUTHORIZATION FOR SERVICES. Authorization for performance of professional services by AES under this Agreement shall be in the form of written Purchase Order issued and executed by COUNTY.

SECTION 3. TIME FOR COMPLETION. The services to be rendered by AES shall commence upon issuance of the Notice to Proceed and shall be substantially completed within one hundred fifty (150) days, with final completion thirty (30) days thereafter.

SECTION 4. FIXED FEE COMPENSATION AND PAYMENT.

(a) COUNTY agrees to compensate AES for the professional services called for under this Agreement a fixed fee in the amount of ONE HUNDRED FIFTY-FIVE THOUSAND FOUR HUNDRED FORTY-NINE AND NO/100 DOLLARS ($155,449.00) plus EIGHTY AND NO/100 DOLLARS ($80.00) per hour for troubleshooting services (not to exceed 100 hours) as directed by COUNTY. AES shall perform all work required by the Scope of Services, but in no event shall AES be paid more than the negotiated Fixed Fee amount stated above.

(b) Payments shall be made to AES when requested as work progresses for services furnished, but not more than once monthly. AES may invoice amounts due based on the total required services actually performed and completed. Upon review and approval of AES's invoice, COUNTY shall, within thirty (30) days of receipt of the invoice, pay AES the approved amount.

SECTION 5. BILLING AND PAYMENT.

(a) AES shall render to COUNTY at the close of each calendar month a properly dated and itemized invoice including, but not limited to, the following information:

(1) The name and address of AES;

(2) Contract Number;

(3) A complete and accurate record of services performed by AES for all services performed by AES during that month and for which COUNTY is being billed;

(4) A description of the services rendered in (3) above with sufficient detail to identify the exact nature of the work

performed; and

(5) Such other information as may be required by this Agreement or requested by COUNTY from time to time.

The original invoice and one (1) copy shall be sent to:

Director of County Finance
Seminole County Board of County Commissioners
Post Office Box 8080
Sanford, Florida 32772

Two (2) copies of the invoice shall be sent to:

Environmental Services Department
500 W. Lake Mary Boulevard
Sanford, FL 32773

(b) Payment shall be made after review and approval by COUNTY within thirty (30) days of receipt of a proper invoice from AES.

SECTION 6. AUDIT OF RECORDS.

(a) COUNTY may perform, or have performed, an audit of the records of AES after final payment to support final payment hereunder. This audit would be performed at a time mutually agreeable to AES and COUNTY subsequent to the close of the final fiscal period in which the last work is performed. Total compensation to AES may be determined subsequent to an audit as provided for in subsection (b) and of this Section and the total compensation so determined shall be used to calculate final payment to AES. Conduct of this audit shall not delay final payment as required by Section 4(b).

(b) AES agrees to maintain all books, documents, papers, accounting records, and other evidences pertaining to work performed under this Agreement in such a manner as will readily conform to the terms of this Agreement and to make such materials available at AES's office at all reasonable times during this Agreement period and for five (5) years from the date of final payment under this Agreement for audit or inspection as provided for in subsection (a) of this Section.

(c) In the event any audit or inspection conducted after final payment, but within the period provided in subsection (b) of this

Section, reveals any overpayment by COUNTY under the terms of this Agreement, AES shall refund such overpayment to COUNTY within thirty (30) days of notice by COUNTY.

SECTION 7. RESPONSIBILITY OF AES.

(a) AES shall be responsible for the professional quality of services furnished by AES under this Agreement. AES shall, without additional compensation, correct or revise any errors or deficiencies in its services.

(b) Neither COUNTY's review, approval, acceptance of, nor payment for any of the services required shall be construed to operate as a waiver of any rights under this Agreement or of any cause of action arising out of the performance of this Agreement; and AES shall be and remain liable to COUNTY in accordance with applicable law for all damages to COUNTY caused by AES's performance of any of the services furnished under this Agreement.

SECTION 8. TERM. This Agreement shall take effect on the date of its execution by COUNTY and shall remain in effect until expiration of the warranty period for the equipment installed pursuant to this Agreement.

SECTION 9. TERMINATION.

(a) COUNTY may, by written notice to AES, terminate this Agreement, in whole or in part, at any time, either for COUNTY's convenience or because of the failure of AES to fulfill AES's Agreement obligations. Upon receipt of such notice, AES shall:

(1) Immediately discontinue all services affected unless the notice directs otherwise; and

(2) Deliver to COUNTY all plans, studies, reports, estimates, summaries, and such other information and materials as may have been accumulated by AES in performing this Agreement, whether completed or in process.

(b) If the termination is for the convenience of COUNTY, AES shall be paid compensation for services performed to the date of termination. AES shall be paid no more than a percentage of the Fixed Fee amount equivalent to the percentage of the completion of work contemplated by this Agreement.

(c) If the termination is due to the failure of AES to fulfill its Agreement obligations, COUNTY may take over the work and prosecute the same to completion by Agreement or otherwise. In such case, AES shall be liable to COUNTY for reasonable additional costs occasioned to COUNTY thereby. AES shall not be liable for such additional costs if the failure to perform this Agreement arises out of causes beyond the control and without the fault or negligence of AES. Such causes may include, but are not limited to, acts of God or of the public enemy, acts of COUNTY in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but, in every case, the failure to perform must be beyond the control and without the fault or negligence of AES.

(d) If, after notice of termination for failure to fulfill Agreement obligations, it is determined that AES had not so failed, the termination shall be deemed to have been effected for the convenience of COUNTY. In such event, adjustment in the Agreement price shall be made as provided in subsection (b) of this Section.

(e) The rights and remedies of COUNTY provided in this clause are in addition to any other rights and remedies provided by law or under this Agreement.

SECTION 10. EQUAL OPPORTUNITY EMPLOYMENT. AES agrees that it will not discriminate against any employee or applicant for employment for work under this Agreement because of race, color, religion, sex, age, national origin, or disability and will take steps to ensure that applicants are employed and employees are treated during employment

without regard to race, color, religion, sex, age, national origin, or disability. This provision shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

SECTION 11. NO CONTINGENT FEES. AES warrants that it has not employed or retained any company or persons other than a bona fide employee working solely for AES to solicit or secure this Agreement and that AES has not paid or agreed to pay any persons, company, corporation, individual, or firm, other than a bona fide employee working solely for AES, any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For the breach or violation of this provision, COUNTY shall have the right to terminate this Agreement at its discretion without liability and to deduct from the Agreement price or otherwise recover the full amount of such fee, commission, percentage, gift, or consideration.

SECTION 12. ASSIGNMENT. This Agreement, or any interest herein, shall not be assigned, transferred, or otherwise encumbered under any circumstances by the parties hereto without prior written consent of the opposite party and only by a document of equal dignity herewith.

SECTION 13. SUBCONTRACTORS. In the event AES, during the course of the work under this Agreement, requires the services of any subcontractor or other professional associates in connection with service covered by this Agreement, AES must secure the prior written approval of COUNTY. If subcontractor s or other professional associates are required in connection with the services covered by this Agreement, AES shall remain fully responsible for the services of subcontractors or other professional associates.

SECTION 14. INDEMNIFICATION OF COUNTY. AES agrees to hold harmless, replace, and indemnify COUNTY, its commissioners, officers, employees, and agents against any and all claim, losses, damages, or lawsuits for damages, arising from, allegedly arising from, or related to the provision of services hereunder by AES whether caused by AES or otherwise. This hold harmless, release, and indemnification shall include any claim based on negligence, action, or inaction of the parties.

SECTION 15. INSURANCE.

(a) General. AES shall, at AES's own cost, procure the insurance required under this Section.

(1) AES shall furnish COUNTY with a Certificate of Insurance signed by an authorized representative of the insurer evidencing the insurance required by this Section (Professional Liability, Workers' Compensation/Employer's Liability and Commercial General Liability). COUNTY, its officials, officers, and employees shall be named additional insured under the Commercial General Liability policy. The Certificate of Insurance shall provide that COUNTY shall be given not less than thirty (30) days written notice prior to the cancellation or restriction of coverage. Until such time as the insurance is no longer required to be maintained by AES, AES shall provide COUNTY with a renewal or replacement Certificate of Insurance not less than thirty (30) days before expiration or replacement of the insurance for which a previous certificate has been provided.

(2) The Certificate shall contain a statement that it is being provided in accordance with this Agreement and that the insurance is in full compliance with the requirements of this Agreement. In lieu of the statement on the Certificate, AES shall, at the option of COUNTY, submit a sworn, notarized statement from an authorized representative of the insurer that the Certificate is being provided in accordance with

this Agreement and that the insurance is in full compliance with the requirements of this Agreement. **The Certificate shall have this Agreement number clearly marked on its face.**

(3) In addition to providing the Certificate of Insurance, if required by COUNTY, AES shall, within thirty (30) days after receipt of the request, provide COUNTY with a certified copy of each of the policies of insurance providing the coverage required by this Section.

(4) Neither approval by COUNTY nor failure to disapprove the insurance furnished by AES shall relieve AES of AES's full responsibility for performance of any obligation including AES's indemnification of COUNTY under this Agreement.

(b) Insurance Company Requirements. Insurance companies providing the insurance under this Agreement must meet the following requirements:

(1) Companies issuing policies other than Workers' Compensation must be authorized to conduct business in the State of Florida and prove same by maintaining Certificates of Authority issued to the companies by the Department of Insurance of the State of Florida. Policies for Workers' Compensation may be issued by companies authorized as a group self-insurer by Section 624.4621, Florida Statutes.

(2) In addition, such companies other than those authorized by Section 624.4621, Florida Statutes shall have and maintain a Best's Rating of "A-" or better and a Financial Size Category of "VII" or better according to A.M. Best Company.

(3) If, during the period which an insurance company is providing the insurance coverage required by this Agreement, an insurance company shall: (i) lose its Certificate of Authority, (ii) no longer comply with Section 624.4621, Florida Statutes, or (iii) fail to maintain the requisite Best's Rating and Financial Size Category, AES shall, as soon as AES has knowledge of any such circumstance,

immediately notify COUNTY and immediately replace the insurance coverage provided by the insurance company with a different insurance company meeting the requirements of this Agreement. Until such time as AES has replaced the unacceptable insurer with an insurer acceptable to COUNTY, AES shall be deemed to be in default of this Agreement.

(c) Specifications. Without limiting any of the other obligations or liability of AES, AES shall, at AES's sole expense, procure, maintain, and keep in force amounts and types of insurance conforming to the minimum requirements set forth in this Section. Except as otherwise specified in this Agreement, the insurance shall become effective prior to the commencement of work by AES and shall be maintained in force until this Agreement's completion date. The amounts and types of insurance shall conform to the following minimum requirements.

(1) Workers' Compensation/Employer's Liability.

(A) AES's insurance shall cover AES for liability which would be covered by the latest edition of the standard Workers' Compensation Policy, as filed for use in Florida by the National Council on Compensation Insurance without restrictive endorsements. AES will also be responsible for procuring proper proof of coverage from its subcontractors of every tier for liability which is a result of a Workers' Compensation injury to the sub-AES's employees. The minimum required limits to be provided by both AES and its subcontractors are outlined in subsection (c) below. In addition to coverage for the Florida Workers' Compensation Act, where appropriate, coverage is to be included for the United States Longshoremen and Harbor Workers' Compensation Act, Federal Employers' Liability Act, and any other applicable Federal or State laws.

(B) Subject to the restrictions of coverage found in the standard Workers' Compensation Policy, there shall be no maximum limit on the amount of coverage for liability imposed by the Florida

Workers' Compensation Act, the United States Longshoremen and Harbor Workers' Compensation Act, or any other coverage customarily insured under Part One of the standard Workers' Compensation Policy.

(C) The minimum amount of coverage under Part Two of the standard Workers' Compensation Policy shall be:

$ 500,000.00	(Each Accident)
$1,000,000.00	(Disease-Policy Limit)
$ 500,000.00	(Disease-Each Employee)

(2) Commercial General Liability.

(A) AES's insurance shall cover AES for those sources of liability which would be covered by the latest edition of the standard Commercial General Liability Coverage Form (ISO Form CG 00 01) as filed for use in the State of Florida by the Insurance Services Office without the attachment of restrictive endorsements other than the elimination of Coverage C, Medical Payment and the elimination of coverage for Fire Damage Legal Liability.

(B) The minimum limits to be maintained by AES (inclusive of any amounts provided by an Umbrella or Excess policy) shall be as follows:

	LIMITS
General Aggregate	Three (3) Times the Each Occurrence Limit
Personal & Advertising Injury Limit	$500,000.00
Each Occurrence Limit	$500,000.00

(3) Professional Liability Insurance. AES shall carry limits of not less than FIVE HUNDRED THOUSAND AND NO/100 DOLLARS ($500,000.00).

(d) Coverage. The insurance provided by AES pursuant to this Agreement shall apply on a primary basis and any other insurance or self-insurance maintained by COUNTY or COUNTY's officials, officers, or employees shall be excess of and not contributing with the insurance provided by or on behalf of AES.

(e) Occurrence Basis. The Workers' Compensation Policy and the Commercial General Liability required by this Agreement shall be provided on an occurrence rather than a claims-made basis. The Professional Liability insurance policy must either be on an occurrence basis, or, if a claims-made basis, the coverage must respond to all claims reported within three (3) years following the period for which coverage is required and which would have been covered had the coverage been on an occurrence basis.

(f) Obligations. Compliance with the foregoing insurance requirements shall not relieve AES, its employees, or agents of liability from any obligation under this Section or any other portions of this Agreement.

SECTION 16. DISPUTE RESOLUTION.

(a) In the event of a dispute related to any performance or payment obligation arising under this Agreement, the parties agree to exhaust COUNTY dispute resolution procedures prior to filing suit or otherwise pursuing legal remedies. COUNTY dispute resolution procedures for proper invoice and payment disputes are set forth in Section 22.15, "Prompt Payment Procedures," Seminole County Administrative Code. Contract claims include all controversies, except disputes addressed by the "Prompt Payment Procedures," arising under this Agreement within the dispute resolution procedures set forth in Section 8.1539, "Contract Claims," Seminole County Administrative Code.

(b) CONSULTANT agrees that it will file no suit or otherwise pursue legal remedies based on facts or evidentiary materials that were not presented for consideration in COUNTY dispute resolution procedures set forth in subsection (a) above of which CONSULTANT had knowledge and failed to present during COUNTY dispute resolution procedures.

(c) In the event that COUNTY dispute resolution procedures are exhausted and a suit is filed or legal remedies are otherwise pursued,

the parties shall exercise best efforts to resolve disputes through voluntary mediation. Mediator selection and the procedures to be employed in voluntary mediation shall be mutually acceptable to the parties. Costs of voluntary mediation shall be shared equally among the parties participating in the mediation.

SECTION 17. REPRESENTATIVE OF COUNTY AND AES.

(a) It is recognized that questions in the day-to-day conduct of performance pursuant to this Agreement will arise. COUNTY, upon request by AES, shall designate in writing and shall advise AES in writing of one or more COUNTY employees to whom all communications pertaining to the day-to-day conduct of this Agreement shall be addressed. The designated representative shall have the authority to transmit instructions, receive information, and interpret and define COUNTY's policy and decisions pertinent to the work covered by this Agreement.

(b) AES shall, at all times during the normal work week, designate or appoint one or more representatives of AES who are authorized to act on behalf of AES regarding all matters involving the conduct of the performance pursuant to this Agreement and shall keep COUNTY continually advised of such designation.

SECTION 18. ALL PRIOR AGREEMENTS SUPERSEDED. This document incorporates and includes all prior negotiations, correspondence, conversations, agreements, or understandings applicable to the matters contained herein and the parties agree that there are not commitments, agreements, or understandings concerning the subject matter of this Agreement that are not contained or referred to in this document. Accordingly, it is agreed that no deviation from the terms hereof shall be predicated upon any prior representations or agreements whether oral or written.

SECTION 19. MODIFICATIONS, AMENDMENTS OR ALTERATIONS. No modification, amendment, or alteration in the terms or conditions

contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.

SECTION 20. INDEPENDENT CONTRACTOR. It is agreed that nothing herein contained is intended or should be construed as in any manner creating or establishing a relationship of co-partners between the parties or as constituting AES, including its officers, employees, and agents, as an agent, representative, or employee of COUNTY for any purpose or in any manner whatsoever. AES is to be and shall remain an independent contractor with respect to all services performed under this Agreement.

SECTION 21. EMPLOYEE STATUS. Persons employed by AES in the performance of services and functions pursuant to this Agreement shall have no claim to pension, workers' compensation, unemployment compensation, civil service, or other employee rights or privileges granted to COUNTY's officers and employees either by operation of law or by COUNTY.

SECTION 22. SERVICES NOT PROVIDED FOR. No claim for services furnished by AES not specifically provided for herein shall be honored by COUNTY.

SECTION 23. PUBLIC RECORDS LAW. AES acknowledges COUNTY's obligations under Article 1, Section 24, Florida Constitution and Chapter 119, Florida Statutes to release public records to members of the public upon request. AES acknowledges that COUNTY is required to comply with Article 1, Section 24, Florida Constitution and Chapter 119, Florida Statutes in the handling of the materials created under this Agreement and that said statute controls over the terms of this Agreement.

SECTION 24. NOTICES. Whenever either party desires to give notice unto the other, it must be given by written notice sent by certified United States mail, return receipt requested addressed to the party for whom it is intended at the place last specified and the place

for giving of notice shall remain such until it shall have been changed by written notice in compliance with the provisions of this Section. For the present, the parties designate the following as the respective places for giving of notice, to wit:

For COUNTY:

Environmental Services Department
500 W. Lake Mary Blvd.
Sanford, FL 32773

For AES:

DCR Engineering Services, Inc.
502 C.R. 640 East
Mulberry, FL 33860

SECTION 25. RIGHTS AT LAW RETAINED. The rights and remedies of COUNTY provided for under this Agreement are in addition to any other rights and remedies provided by law.

SECTION 26. COMPLIANCE WITH LAWS AND REGULATIONS. In providing all services pursuant to this Agreement, AES shall abide by all statutes, ordinances, rules, and regulations pertaining to or regulating the provisions of such services including those now in effect and hereafter adopted. Any violation of said statutes, ordinances, rules, or regulations shall constitute a material breach of this Agreement and shall entitle COUNTY to terminate this Agreement immediately upon delivery of written notice of termination to AES.

SECTION 27. CONFLICT OF INTEREST.

(a) AES agrees that it will not engage in any action that would create a conflict of interest in the performance of its obligations pursuant to this Agreement with COUNTY or which would violate or cause others to violate the provisions of Part III, Chapter 112, Florida Statutes relating to ethics in government.

(b) AES hereby certifies that no officer, agent, or employee of COUNTY has any material interest (as defined in Section 112.312(15), Florida Statutes as over 5 percent) either directly or indirectly, in

the business of AES to be conducted here and that no such person shall have any such interest at any time during the term of this Agreement.

(c) Pursuant to Section 216.347, Florida Statutes, AES hereby agrees that monies received from COUNTY pursuant to this Agreement will not be used for the purpose of lobbying the Legislature or any other State or Federal agency.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement for the purposes stated herein.

ATTEST: DCR ENGINEERING SERVICES, INC.

_____, Secretary

By:_____
DALE C. ROSSMAN, President

(CORPORATE SEAL)

Date:_____

ATTEST:

BOARD OF COUNTY COMMISSIONERS
SEMINOLE COUNTY, FLORIDA

By:_____
BOB DALLARI, Chairman

Date:_____

MARYANNE MORSE
Clerk to the Board of
County Commissioners of
Seminole County, Florida.

For the use and reliance
of Seminole County only.

Approved as to form and
legal sufficiency.

As authorized for execution by
the Board of County Commissioners
at their _____, 20____,
regular meeting.

_____
County Attorney

AEC/lpk/sjs
5/6/09, 6/26/09
P:\Users\Legal Secretary CSB\Purchasing 2009\Agreements\RFP-600681.doc

Attachment:
Exhibit A - Scope of Services and Management Plan
Exhibit B - Price Schedule
Exhibit C - Sample of Purchase Order

SEMINOLE COUNTY WONDERWARE UPGRADE FOR WATER AND WASTEWATER FACILITIES

PART 1 SCOPE OF WORK

1.01 GENERAL

The purpose of this project is to upgrade the current version of Wonderware running on the County's Supervisory Control and Data Acquisition (SCADA) System to the latest version of InTouch. This project will upgrade the SCADA software at the following Seminole County locations: Apple Valley WTP, Southeast Regional WTP (Consumers), Field 1-SER, Greenwood 2, Greenwood Lakes WTP, Greenwood, Greenwood SQL Server system, Greenwood Lakes WWTP, Hanover WTP, Heathrow WTP, Indian Hills, SER InSQL Server System, Lake Hayes, Lynwood, Main 1-SER, Main 2 – SER, Markham Regional WTP, Lake Monroe WTP (Monroe), Yankee Lake WWTP, OPSRM SCADA, SER Server, Yankee Lake WWTP SQL. The final system will have the latest version of InTouch running on all computers in the County's current SCADA system, with complete functionality of all programs, reports, data storage, etc. as was running in the original system.

A. The Application Engineering System Supplier (AES) shall furnish all software installation, configuration, and programming services defined herein. All software, drivers, and applications from Wonderware will require an upgrade to the new System Platform.

B. The Owner (Seminole County) will provide all Humane Machine Interface (HMI) software, licenses, and upgrade drivers (to all existing software) required to upgrade the existing system (InTouch 9.0) to the latest version of InTouch. The AES will be responsible for coordinating with the Owner on the products required.

C. The AES shall provide all additional software required to achieve the functionality described in this specification. Software required to be provided shall include but not be limited to Wonderware's System Platform software, and Wonderware's Galaxy Server software.

D. The current system architecture is made up of a fiber optic backbone which all PLC's and computers use to communicate information to the SER facility. The new system architecture will still utilize this fiber optic backbone, but will also incorporate a new Modbus connection, one connection at each facility. The AES will be responsible to provide this new connection at each location.

E. The AES shall provide all programming/configuration, labor, ancillary hardware and services as specified herein required achieving a fully integrated and operational system. The AES shall configure the control system for proper operation with all existing equipment as specified. The AES is responsible for supplying a complete, fully functional and working system once the upgrade has been completed.

F. The AES shall provide all necessary software programming and configuration required to keep the current system operating on the new version of InTouch. The AES shall demonstrate that the new system (Personal Computers

(PCs)/Programmable Logic Controllers (PLCs)) is operating correctly and completely during the Functional Demonstration Test. This programming shall include, but not be limited to, input/output (I/O) mapping, communication, graphic screens, alarms, historical data, reporting, etc.

G. Historical servers shall be installed to accommodate redundancy and store-and-forward capabilities. The Technical Memorandum which was written on March 5, 2008 has additional information regarding the network layout. The AES shall be responsible for the installation and configuration of this software and shall use the "Ready To Go" services as a guide for the installation process (refer to supplement A for a description of the "Ready To Go" services). The final implementation of this software will be different than the original system configuration. The Software shall be provided to the AES by the Owner.

H. All equipment and installations shall satisfy applicable Federal, State, and local codes where applicable.

I. The AES shall supply "Ready To Go Services" as defined in "Supplement A" from the software vendor to assist in the initial configuration of this project.

J. A Technical Memorandum which was written on March 5, 2008 will be required to be reviewed by all Proposers for a complete understanding of the overall project which includes a system description and detailed network drawings.

These documents can be reviewed at the Purchasing and Contracts Division located at 1101 East First Street, Suite #3208, Sanford, Florida 32771 the following dates:

May 19, 2009 (from 9:00 AM to 4:00 PM) Eastern Time
May 26, 2009 (from 9:00 AM to 4:00 PM) Eastern Time

1.02 SEQUENCE OF INSTALLATION

A. Seminole County is a fully operational SCADA system which must remain active at all times. The AES shall coordinate all installation with the Owner to avoid any circumstances which would interrupt the current data monitoring, data collection, and control of the existing system. No more than one (1) facility can be unavailable at any time during the project. The priority for conversions of existing systems will be set by the County in conjunction with the AES.

B. The AES shall coordinate with the County any time work is being done at any location and/or if the system may become unavailable for any reason. It is the responsibility of the AES to install the new software in accordance with the procedures outlined in Section 1.02 and with the software Vendor's recommendations such that minimal disruption in the operation of the existing system is experienced.

C. The sequence of software installation shall be as follows:

1. Installation of the latest version of InTouch to bring the software on each computer up to the current version of Wonderware. This shall be done

with minimal disruption to the existing system and with the Owner's prior approval. This software must be installed prior to installing the Application Server. Certain locations may need to take priority during installation which should be coordinated with the Owner before commencement of the project.

2. Historical Server installation and configuration including redundancy and store-and-forward capability according to the specifications and requirements of the system and the reporting needs.

3. Installation of the new Wonderware Industrial Application Server (IAS) Enterprise.

4. Modifications to the Historical Server.

5. "Ready To Go" services should be used during the installation and configuration of all software and coordinated with the provider of these services.

1.03 SUBMITTALS (Construction Phase)

A. The shop drawings/submittals shall fully demonstrate that the equipment and services to be furnished will comply with the provisions of these specifications and shall provide a true and complete record of the equipment as manufactured and delivered. Submittals shall be bound in separate three-ring binders, with an index and sectional dividers, with all Drawings reduced to a maximum size of 11" x 17" for inclusion within the binder. Separate submittals shall be made as follows:

1. Project plan – Describe in detail all the steps required to achieve a fully functional and correctly operating system, demonstrating complete knowledge of specifications and intentions of this project. A detailed "plan of attack" shall include information revealing forethought of the entire project as well as each individual HMI location. The project plan shall be submitted and approved before any further submittals will be accepted. This submittal shall include a detailed outline including work activities and proposed dates for all work including start and end dates for each location and activity. Subsequent submittals will not be reviewed until this submittal has been approved.

2. Owner provided equipment list.

3. Testing – all testing plans including testing sheets that will be used during all tests having columns and locations for dates, I/O, test locations, duration, signoff, and any other information that may be necessary for a complete description and execution of the test.

4. Training – all required training required in this specification.

5. Software – full description of all software packages to be installed with indication of who will be responsible for providing each package.

6. Hardware – a full submittal of all computer/miscellaneous hardware and equipment.

7. Final system documentation.

   a. A diagram depicting the new system architecture with all changes, modifications, and additions, as well as any other systems that may have changed as a result of this upgrade, shall be provided to the Owner on CD at the end of this contract.

   b. A configuration summary document shall be provided to the Owner for each computer configuration required under this contract. The purpose of these documents will be to allow the Owner to completely restore from scratch any computer that has been upgraded in this contract in the case of a computer failure of any kind (i.e. hard drive crash, CPU failure, etc.). The configuration guideline summary should include step by step instructions for all software required on each computer upgraded as a part of this upgrade. After following these instructions, the Owner should have a complete and functional computer.

   c. Provide 5 hard copies and one electronic copy in PDF format.

1.04 SYSTEM DESCRIPTION AND MODIFICATIONS

A. Currently Seminole County has an existing SCADA system comprised of several water and wastewater facilities on a single fiber optic backbone. These facilities have computers running InTouch 9.0. All data is requested from one computer located at the Southeast Regional (SER) WTP facility. Local computers at the facilities access data from the SER computer to display on screens. This new contract will require the AES to upgrade each computer from the older version of InTouch to the latest version of InTouch. Once this has been completed each system will then be upgraded to the new System Platform. The new communication scheme must be implemented on each computer, one location at a time.

B. The architecture for communication will be changed for the entire system to eliminate unnecessary data traffic across the fiber optic Wide Area Network (WAN). Each of the facility's computers shall be changed such that they communicate to the local PLC's using a serial Modbus I/O server. It is the responsibility of the AES to make this hardware connection, provide any additional cables or hardware required/needed, and setup/configure the software server. This new configuration shall allow all data to be accessible from any computer on the network.

C. The AES is responsible for providing all programming and configuration services and ancillary hardware to accomplish the control and monitoring functions as described in the contract specifications and drawings while maintaining its original functionality such as entering set points, viewing plant information, running reports, etc. The AES shall also provide all programming and

configuration services necessary to maintain the existing operator interface (graphic displays, trends, historical archive, etc.) as described in the contract specifications and drawings, such that they have a similar look and feel to the original system. Configuration shall include interfacing field devices and equipment provided under this contract with all computer equipment as described within this specification.

D. Historical Data Management. Each facility shall gather data utilizing the Serial Modbus I/O server. Data will be historically collected at the SER facility by the Historical Server. If for any reason a local plant computer is not able to communicate information from the local plant to the Historical Server, the local computer shall store the data until the communication line has been re-established, and then forward any data that was not recorded to the Historical Server using the store and forward capabilities of the new software platform.

1.05 DISPLAYS

A. The current System has several computers that support multiple graphic adapters/displays. This same functionality shall be carried over to the new system on these same computers.

1.06 WARRANTY

A. Provide a parts and labor warranty of a minimum of 2 years for all work and hardware provided under this contract.

PART 2 PRODUCTS

2.01 COMPUTER HARWARE

A. Computer Modifications

The County has recently upgraded all computers at each facility. As a result of the computer upgrades it is anticipated that no new computer hardware will be required during this project. If any computer hardware upgrades are required to accommodate the new software, a minimum of two (2) week notice will be required by the County to provide the necessary upgrade(s). Time extensions to the contract will not be allowed for any hardware upgrades required by the Owner unless the upgrade is not possible within a two (2) week time period and the other project related work cannot be done as a result of the upgrade.

2.02 SOFTWARE PRODUCTS

A. Wonderware System Platform

The SCADA software shall consist of an HMI system with support for supervisory and process control, real-time data acquisition, alarm and event management, historical data collection, report generation, local or remote telemetry communications to PLCs and internet/intranet access. The software shall be easy-to-use, with an object-oriented graphics development environment and shall have an open architecture, which utilizes the latest in Win2000/WinXP Professional and Tablet /Win2003 Server client/server and

peer to peer networking technology from Microsoft. The system shall have the built-in flexibility to permit easy configuration of the system in accordance with the specific end user requirements as well as quick and easy modification by the end user in the field.

1. The software shall consist of a suite of off-the-shelf modular components from a single software manufacturer that are tightly integrated together to perform all SCADA system functions. The suite shall contain an HMI for process visualization, Real-Time relational database for historical data collection, client tools for trending and reporting within the HMI and as standalone and communication drivers for PLCs/RTUs. It shall be scaleable so that a small, single, stand alone application can easily be expanded into a large distributed control network with either single or redundant database servers, single or redundant communication servers providing information to multiple workstation clients. The software shall also have the ability to easily interface with Computerized Maintenance Management Systems (CMMS), Laboratory Information Management Systems (LIMS) and Geographic Information Systems (GIS).
2. The Development Environment shall provide a mechanism to develop Object Templates. These object templates shall be used to create the individual instances of the objects that perform the SCADA tasks. Object Templates shall be able to contain other object templates in a hierarchical relationship. Objects shall contain general object configuration, Input/Output definitions, internal attribute definitions, internal documentation for configuration help, user defined attribute definitions, alarm definition, history definition, and contained scripts.

3. The Development Environment shall utilize the concept of deployment. Deployment shall be defined as the remote installation of any Application Object, its children, dependencies, and any other software required and bound by the Application Object for the Application Object to successfully operate. All installed Application Object components shall be configured and deployed from the Development Environment to target workstations and servers. The Development Environment shall provide visual feedback as to the deployed status of any Application Object.

4. The Development and Runtime Environments shall be capable of utilizing Microsoft operating system security, for example Active Directory Domains, to allow users access to view, configure, or modify templates and Application Objects. The security system shall support an object based, hierarchical model. This model shall allow for the creation of Security Groups that contain Configuration Database Application Objects. The model shall allow for the creation of Operator Roles that can be assigned to Security Groups. Operator Roles shall allow for the assignment of configuration database permissions, and for runtime operational permissions, and access to visualization of certain windows.

5. Alarms shall be detected and reported by an Alarm Manager service. The Alarm Manager Service shall support no less than two hundred (200) simultaneous alarm client displays. In the event of an alarm storm (hundreds or thousands of alarms detected within one second), the Alarm Manager shall report and the client shall be capable of displaying up to one thousand (1000) new alarms within ten (10) seconds of the detection of the alarms.

6. The run-time environment shall be based on distributed, peer-to-peer system architecture. It shall be possible to scale the architecture from a single, self-contained node, to over 500 nodes. The architecture shall contain a multi-computer model that is seen as a single distributed namespace in the run-time environment and does not require replication of data from one node to another. Application Objects and their attributes shall be accessible by the objects Hierarchical Names, or globally unique Tag names. The architecture shall allow for remote re-deployment of communication application programs without manually re-installing software. The architecture shall be able to monitor and respond to high volumes of asynchronous data and event messages at a rate of thousands of messages per second. It shall be capable of supporting a minimum of one million (1,000,000) IO and five hundred (500) nodes.

7. The SCADA system software shall provide redundancy for all functions within a normal SCADA controls environment. The specific components that require redundancy within the SCADA system are Application Object/Application Object Hosting, PLC/RTU communications, alarm reporting, and logging of historical process data. In redundant configuration, there shall be a Primary and a Backup system object that manages contained Primary and Backup objects. The system shall execute active objects and synchronize active objects with standby objects. In the event of detection of any failure in active object execution or communication with the active object, standby objects shall begin executing and communicating within the system.

8. The system shall provide for the handling of alarms from standby application objects that become active upon the failure of execution of active objects or failure to communicate with the active objects. Separate configuration of alarms in standby objects is not required. As with application redundancy, objects are allocated to a Primary manager object that in turn insures that contained standby objects are created and deployed as standby for handling of alarms.

9. The system shall provide for historization of data values from active objects. Upon the failure of execution of active primary objects, standby objects shall be activated and assumed the task of providing data for historization. Separate configuration of historization for standby objects shall not be required. If the Historian is off-line or unreachable, the engines servicing active objects shall store the historized data locally, and forward the buffered data to the Historian when the historian server is available. Primary and standby object engines shall synchronize any buffered historization data. If the Historian is off-line or unreachable and the primary object engine fails, the failover engine shall assume that task of storing the historized data locally, and forward the buffered data to the Historian when the historian server is available. There shall be no practical limit, other than disk space, as to the size of the historized data stored locally.

10. The SCADA system operator shall have the ability to execute all monitoring and supervisory control functions from the workstations. Typical operator commands include modifying set points for control loops, alarm acknowledgment and set point adjustment, auto/manual switching and on/off control of field devices and taking points or devices on/off scan. The operator shall be able to access all SCADA tag name/hierarchical names or graphic displays from any workstation on

the network without needing to know where the point resides. The system software shall include an object-oriented color graphics display generator with full animation capabilities to provide users with a realistic visualization of the system process. All graphical editing operations shall be point-and-click; selecting icons from a floating and docking tool bars, pull down menus or keyboard commands. It shall be possible to perform a functional test of any graphic display by switching to the runtime mode with a single mouse click. The graphics editor shall include a broad library of complex objects and process symbols such as meters, pushbuttons, sliders, gauges, pumps, motors, tanks, valves, trends, alarms, and controller faceplates. All complex objects shall be scaleable to any size and may include animation links to provide dynamic response based on real-time data or user action. This workstation shall utilize the Win2000 Workstation /Server, WinXP Professional/XP Tablet, or Server2003 operating system.

11. The Operator Workstation shall be able to utilize the security model defined by the configuration database. The software shall utilize data level security where the ability to modify a set point or other value is determined in the configuration database. Any changes to the data level security model shall be seen by all operator stations without any modifications to the operator stations. The security system shall be capable of disabling access to all Microsoft Windows controls (file menu, close, minimize, etc.) and keyboard commands (Ctrl-ESC, Alt-Tab, and Ctrl-Alt-Del).

12. The operator interface workstation shall be able to be run as a Microsoft Windows service. This provides windows service capabilities for key HMI components such as historical logging, alarms and I/O communications. The service capabilities allow continuous operation through operating system logons and logoffs such as operator shift changes. All SCADA software shall support running as a Windows service so that following a power failure or when the machine is turned on, an automatic start-up to the runtime mode will occur. This function assures unmanned station startup without compromising operating system security.

13. All operator actions shall be able to be logged to an event logger. The event logger shall keep track of each new operator log-on, log-off, set point change, or device control. Each event log shall record the date, time, operator logged in and the type of action taken (set point change, state change, etc.).

14. A client tool shall be included that allows users to view any or all of the tag names in either a trend chart or tabular format. The client tool shall have a user interface that allows for easy selection of tag names using a Windows Explorer-like browser with a search filter to quickly find tag names in a data historian with thousands of points. The user shall be able to create folders for selected groups of tag names and plot them individually or in groups by dragging them into the trend area. The user shall be able to save trend files for recall at a later time. It shall be possible for the user to switch from the real time to the historical viewing mode using a simple check box. The user shall be able to toggle from viewing trends either in the superimposed or the stacked mode. In the superimposed mode, all trends overlap and are in a single scale range based on the largest vertical scale range in the group. In the stacked mode, each trend has its own vertical scale range. Trend plots shall automatically be scaled based on the

widest vertical range of the tag name or optimized based on the maximum and minimum range within the selected time period.

15. The user shall be able to trend up to 256 different tag names in real time including analog, discrete, string or event tag names within the same trend. The user shall pick tag names from the browser. The time span and vertical range of the trend shall be user configurable at run time. Standard time spans shall be configured for the last 5, 10, 30 or 60 minutes or the last 2, 4 or 8 hours. The user shall be able to adjust the range of the tag names in run time.

16. The user shall be able to plot historical data for any tag name or groups of tag names in the database based any user-selected start and stop time. Two hairline cursors may be turned on and dragged across the trend area to provide the user with the exact value for each trended tag name at the point of intersection. The time span and the value between the cursors shall also be displayed. It shall be possible to overlay data from different start/end times to compare the performance of equipment / compare the process for different time intervals. It shall be possible to overlay 'live' trends onto history traces to compare performance. The trend tool shall display statistical data for each trended analog tag name within the time period selected. Statistical values shall include the minimum, maximum, average, and standard deviation. Icons or menu pull down commands shall be available for analyzing the data such as horizontal, vertical or rubber band zooming pan left or right and zoom between the hairline cursors. It shall also be possible for the user to create text annotations anywhere on the trend. These annotations shall be visible from other workstations on the network with the same trend tool. It shall be possible to export the data in the trend area into a Comma Separated Values (CSV) file. Printing of the trends with all statistical data shall be supported.

17. A data analysis software tool shall be included that allows users to easily select tag names and historical values from the real time or historical database via a browser and then utilize them in a standard Microsoft Excel spreadsheet for reporting or presentation to management. The selection of tag names shall be accomplished by use of drag and drop or point and click commands. It shall not be required to write any macros to retrieve the data. The tag values selected can be output to specific cells in the spreadsheet and processed as number data types. The user shall be able to select historical data for the most recent values or go back and select any start or stop time as far back as the data is available. The historical data can be recalled at the granularity that it was stored or in a selected number of data points over a period of time. The user shall be able to retrieve raw historical data or summarized data such as the minimum, maximum or average over a predetermined time period. Updates to the current values once they are in the spreadsheet shall be refreshed with a single click of the mouse. The quality of the data shall be analyzed and displayed. The user shall be able to select if poor quality data is to be displayed or replaced with an interpolated value. The user shall be able to specify relative or absolute value choices.

18. When a client node loads an application from the network server, the client shall be able to maintain a copy of the application on its local hard drive and become registered as a user of that application. When a change to the server application

is detected, each registered user node shall be able to be notified of the change. The Network Application Development (NAD) manager shall be able to allow the user to define how the client node is notified of the change in the application. The client node shall be able to either automatically load the new application, prompt the user to load changes or ignore, or automatically ignore such changes. If a network failure occurs between the server and client, then the client shall be able to continue to run the last distributed application. When the network is restored and the server application has changed, the NAD manager will be able to distribute the server application to the client.

19. Application log files shall reside on the local hard drive for a user-defined number of days. Each network node shall maintain an independent log file for the applications that are unique to each node. A new log file will be created and archived daily according to the user specified time and location. The viewer shall support color distinctions for different threads, processes or programs. The log file viewer shall support viewing remote node application log files.

20. The SCADA system software shall provide a real-time relational database historian for long-term storage of process data. The Data Historian shall provide for the storage of real-time and historical data for each analog, discrete or string tag name. The data historian shall also store summary, event, alarm and configuration data. The database engine for the historian shall be based on a full licensed copy of Microsoft SQL Server and supports client/server architecture. The user shall not be required to know Microsoft SQL Server to install and implement the historian. The data historian database shall acquire and store process data at full resolution. The data historian database shall include normalized extension tables for real time data and include a set of client tools for data analysis and reporting such as those described in earlier sections. The Data Historian shall be capable of running in a stand-alone mode without connection to, or configuration from, the SCADA system while there are always physical limiting factors such as disk space, there shall be no programmatic limit to the amount of data that may be stored on-line. Additionally, there shall be no performance penalty for long-term data storage. There shall be no discernable difference in retrieval speed of data based on the age of the data. For example, the retrieval of two hours data stored two years prior shall be the same as for two hours of data stored one day ago.

21. The historian shall automatically begin to acquire tag data immediately after a tag configuration has been committed to the database. Adding a single or multiple tags to an existing historian database shall not affect the data acquisition of previously defined tag names. Client connections will not be affected during reconfiguration due to dynamic configuration. Additionally, there will be no loss of data for tags where data acquisition configuration is not changed. Tags that require a change in data acquisition configuration will obviously lose data during the period of their re-initialization.

PART 3 EXECUTION

3.01 TESTS (GENERAL)

A. All testing requirements shall be provided by the AES for the new version of InTouch with Application Server Platform. All finalized testing documentation shall be submitted by the AES within 30 days of each completed test.

B. As a minimum, the testing shall include the following:

1. Functional Demonstration Tests (FDT). This will be performed for each facility, one at a time.

2. Verify I/O communications at each site, one location at a time.

3. Verify historical collection and retrieval at each site, one location at a time.

4. Verify store-and-forward functionality at each site, one location at a time.

5. Verify real-time plant data availability, one location at a time.

6. Final overall general system verification after all sites have been completed, to assure all sites continue to communicate correctly.

3.02 FUNCTIONAL DEMONSTRATION TEST (FDT)

A. After the AES has installed and configured the new software, a general test of the I/O shall be required by the AES including the store-and-forward functionality of the historical data, basic I/O tests which include all types of I/O such as analog, digital, alarms, etc. The AES shall have a test plan prepared prior to the testing of each computer/plant. The AES shall perform their own testing of the system prior to executing the FDT, and allow the Owner to be present, to limit any interruptions to the FDT. The FDT is meant to verify that the upgraded software and communication drivers have been properly installed and are completely functional throughout the entire system. This test is not meant to catch any anomalies or basic mistakes in the system, since these should have been corrected before the commencement of this test. Substantial completion is based on acceptance of all FDT's by the Owner.

3.03 TRAINING

A. The AES shall provide onsite training that is specific to this project. Training shall be done by someone who is familiar with the system and the installation of the software and has been certified to train on the ArchestrA software product. The AES shall provide as a minimum:

1. Software training – this is to be done during the installation and development of all the different types of software including but not limited to:

a. InTouch/Wonderware onsite training
b. Application Server
c. Driver software
d. Operating systems

e. Historical Server
f. Onsite integrator training on system configuration

2. The AES shall include 5 days of onsite training (at the SER water treatment facility) for 6 people by a certified Wonderware trainer.

3. The AES shall coordinate ALL software installations with the Owner, allow the Owner to be present during installation of the software, and shall provide ample opportunities to witness these activities.

4. Training shall commence after the software has been installed, configured, and is up and successfully running on the system.

3.04 CONTROL SYSTEM DIAGRAMS AND DETAILS

A. Drawings provided in the Technical Memorandum which was written on March 5, 2008.

Project Schedule:
150 Calendar days for Substantial Completion
30 calendar days for final completion

DCR Engineering Services, Inc.

PROPOSER:_____

Seminole County

RFP-600681-09/BJC

"Wonderware Industrial Application Server (IAS) Enterprise Platform"

RFP Section 3
Management Plan

Approach/Technical/Implementation Plan

Time Schedule

Training

IFB Section 3 – Management Plan

The purpose of this proposal is to state our scope of work for the referenced project above. DCR Engineering will upgrade the Supervisory Control and Data Acquisition (SCADA) system to the latest version of InTouch at the following plants:

1. Apple Valley WTP
2. Southeast Regional WTP (SER)
   - SER Industrial SQL Server
   - Field 1 – SER (Located in Maintenance Building)
   - Main 1
   - Main 2
3. Greenwood WWTP
   - Greenwood
   - Greenwood 2
   - Greenwood Industrial SQL Server
   - GWLWWTP
4. Greenwood Lakes WTP
5. Hanover WTP
6. Heathrow WTP
7. Indian Hills WTP
8. Lake Hayes WTP
9. Lynwood WTP
10. Markham Regional WTP
11. Lake Monroe WTP
12. Yankee Lake WWTP
    - NWRWWTP
    - YL Industrial SQL Server
13. OPSRM SCADA

The final system upgrade will have the latest version of InTouch, provided by the County, running on all computers in the County's current SCADA system, with complete functionality of all programs, reports, data storage, etc. as is currently running on the original system.

MODBUS IO Server Mapping

DCR Engineering will reconfigure all tags at each Plant location unless otherwise specified. This will require reconfiguration and testing of every tag that is associated with the FIELD1-240 MDLC Gateway IO server and redirecting them to the Modbus Serial driver. The new system architecture will require a serial connection at each location to be constructed and installed by our technicians.

Upon completion of reconfiguration of the tagname databases at each plant,

DCR Engineering will setup a Functional Demonstration Test to confirm with the owner that all IO is reporting on the new version of the HMI just like it was on the old version of the HMI.

The MDLC Gateway and IO Servers at the following plants will not be modified and converted to utilize the Modbus Serial Driver because they are already stand alone systems on their own network.

- South East Regional Water Treatment Facility
- Markham Water Treatment Facility
- Yankee Lake Waste Water Treatment Facility
- Greenwood Waste Water Treatment Facility

Historical Servers

Historical servers will be upgraded to the latest Industrial Application Server system platform available by Wonderware. The servers will be installed to accommodate redundancy and be capable of the "Store and Forward" functionality of the Wonderware Industrial Application Server Platform.

Store and Forward

DCR Engineering will utilize the Plant Model and Object Hierarchy provided by the "Ready To Go" services to establish Store and Forward functionality of the System Platform. Plant Model will not be extended beyond what is provided by the Ready To Go Services. The "Store and Forward" will be tested as part of the Functional Demonstration Test.

Sequence of Installation

DCR Engineering understands that Seminole County's SCADA system is a fully operation system that must remain active at all times. We will coordinate all installation of new software or any modifications to existing software with the owner before proceeding. Coordination with the owner will be done to minimize any loss of data, data collection, or control of the existing system. The sequence of installation is as follows for the existing system:

1. Installation of the latest version of InTouch to bring the software on all SCADA computers up to the current version of Wonderware. This will be done with minimal disruption to the existing system and arranged with the owner before installation is started. DCR Engineering recommends to start with the systems that are running on site at the South East Regional WTP (SER). Upon completion of software installation and modifications at SER, we will coordinate with the owner to see which sites will have priority over others.
2. Historical Server installation and configuration.
3. Installation of Wonderware Industrial Application Server (IAS) Enterprise

software.

4. Modifications to the Historical Server.
5. Ready to Go Services as stated in the next section.

Ready To Go Services

These services will include the following items as specified in the RFP provided by InSource Software Solutions:

Service and Training includes:

- Training Certificate good for one (1) seat in System Platform Part 1 Course and System Platform Part 2 course at any InSource training location. Note these are separate courses that can be scheduled independently.
- Deliverables completed at one (1) customer location

IAS Deliverables

- Install Microsoft SQL Server 2005 (Latest compatible release supported by Wonderware including all Microsoft service packs and "hot fixes")
- Install Wonderware InTouch View software (latest compatible release)
- Install Wonderware Industrial Application Server (latest compatible release)
    - Software includes:
        - Archestra bootstrap
        - Integrated Development Environment (IDE)
        - Galaxy Repository (the configuration database)
- Install service packs and hot fixes for Microsoft and Wonderware products (if required)
- Install device drivers as required (software drivers must be present for non-InSource supplied hardware)
- Validate customer network architecture's suitability for use IAS
- Configure Industrial Application Sever as follows:
    - Configure one platform and one application engine
    - Build a simple plant model containing up to four levels, as follows:
        - Plant
            - Area
                - Process Cell / Line
                - Unit / Major Equipment
    - Develop object templates representing 2 major equipment items, with up to 20 attributes each

        - Derive up to 5 instances of each
    - Connect to one PLC or other I/O data source, using Wonderware standard data access servers (list of supported device types available on demand)
        - Connect to a maximum of 100 I/O points

- Develop a sample InTouch application to display attributes associated with the major equipment item instances
    - The application will be primarily text-based, with graphics limited to a few simple shapes
    - The application will contain scripting necessary for screen navigation only

- System orientation
    - Discuss Industrial Application Server concepts
        - Templates / Instances
        - Containment
        - Referencing other IAS object attributes
        - Scripting (quickscript & .NET)
        - Data acquisition redundancy
        - Application engine redundancy
        - Using the object viewer
        - Security

Wonderware Historian Deliverables:

- Install Wonderware Historian (latest compatible release including all Wonderware service packs and "hot fixes")
- Configure up to six (6) users on the server
- Install device drivers as required (software drivers must be present for non-InSource supplied hardware)
- Validate customer network architecture's suitability for use with Wonderware Historian
- Install and configure server backup system software (if required)
- Install Historian client tools
    - Option A (ActiveFactory) software on the server:
        - ActiveFactory Workbook (Must have MS Excel 2000 or better)
    - Option B (ActiveFactory Web) software on separate IIS Server
- If NOT using IAS, import tags for up to two (2) InTouch nodes via the tag importer in the Historian Configure program
- Configure the Event Subsystem for Simple Event as described below:
    - Configuring a Simple Events Table (SET) in SQL Server
    - Configuring Event Subsystem to populate SET which contains the

following fields only
- SetID
- Line/MfgCell
- Machine/Equip
- StartTime
- EndTime

  - Configuring Public Name Space (PNS) "WorkCenters" to facilitate the SET (see figure 1).
    - A maximum of two (2) groups per level and 2 levels deep from "WorkCenters". The hierarchy is at root, WorkCenters to Line/MfgCell to Machine/Equip.
    - A maximum of five (5) tags per Machine/Equip group
  - Building a Simple Production Report (based on correlation of SET and Historian Tag History
  - Configuring an ActiveFactory Trend (.NET Control) for correlation of SET, PNS and Historian Tag History)
  - Building a sample Historian Tag based Downtime Report based on time in State and %Up/Down (if tags exist)

- System orientation

Wonderware Information Server Deliverables:

On the designated Web Server (specified on following pages):

- Install SQL Server 2005 (plus options) and supported Service Pack (if required)
- Install Windows Sharepoint Services (WSS) and supported Service Pack (SV 2.6 and higher)
- Install Wonderware Information Server and currently supported Service Pack, licenses, and documentation
  - Install ActiveFactory Web (RWS)
- Up to 3 InTouchView screens exported and arranged into screen sets (up to 3 levels)
- Connect Wonderware Information Server to Wonderware Historian (up to 3 servers)
- Wonderware Information Server user and security configuration (up to 10 users and 3 security levels)
- Provide three (3) InTouch based Dashboards
  - Data Source is IAS (I/O or Database) or InTouch (I/O or Database)
  - Dashboards are not InTouch windows, but predefined windowed Dials, Meters, Thermometers, Bar Charts, and SmartSymbols that are populated by the datasource
  - Example InTouch App with Dashboards should/will be provided

(show dashboards to IAS, I/O and SQL DB)

- System configuration overview and portal orientation (On Site Training)

Prerequisites for Scheduling the Site Visit:

- Completion of training course for Wonderware System Platform 1 and 2
- Completed and signed Client Site Survey
- Signed Agreement or Indemnity Form

Local Preparations prior to Site Visit:

- All necessary I/O for any Historian Tags exist
- On (IIS-based) Wonderware Information Server
  - Server OS's are Windows 2003 Server (SP1 or R2)
  - IIS Installed/Enabled
- Back up all existing PC's that are to be modified during the project
- Identify and schedule appropriate resources for duration of project (IT/Engineering personnel)
- Identify and schedule work area for site visit
- Formalize arrangements for access to facility (parking, security clearance, etc.)
- Schedule resources for participation in system orientation.
- Identify client personnel authorized to sign a Project Completion document authorizing invoicing upon completion of final day on site.

Implementation Requirements:

Hardware requirements:

Hardware should meet the requirements listed below (provided in the Microsoft Windows 2000/3
Hardware Compatibility List (respectively) and provided by Microsoft in the Windows 2000/3 software packages or on their websites).

- Intel processor based machine with large hard-drives
- Processor minimum of P4 3.2 GHz CPU
- RAM minimum of 1 GB
- 1 GB network interface card (NIC)
- All InTouch PC's network cards in the Windows 2000/3 hardware compatibility list (100 BaseT or faster).
- Adequate UPS power supply available for server(s)

Software:

- IAS – Microsoft Windows 2000 Server SP4 or Microsoft Windows 2003 Server (SP1 or R2) (No OEM Versions please)
- Wonderware Information Server - Microsoft Windows 2003 Server (SP1 or R2) (No OEM Versions please)
- Compatible network card drivers for Windows 2003 Server (if not already in the OS)
- FactorySuite CD kit and all respective license files (InSource/WW)
- FactorySuite Service Pack CD's
- Windows 2003 Server compatible backup software (if required)

Network:

TCP/IP network is necessary to take advantage of SuiteLink protocol.

- Networking hardware: CAT 5 cables, switches, hubs (100BaseT or better).
- Internet access to be able to download patches and license activation.

Security:

All servers (including SQL, InSQL, I/O, reporting, database, web server, etc.) and clients (InTouch, web browsers, client apps, etc.) must reside on the same active directory domain.

InTouch Nodes:

To ensure the longevity and stability of your Historian system, we strongly recommend that all InTouch nodes be on the most current version of InTouch and I/O Driver software. We also strongly recommend that the nodes run the latest Wonderware supported Microsoft operating system and have the appropriate hardware configuration for the intended applications. Microsoft is rapidly dropping support on legacy operating systems. If you have questions, please contact your InSource Account Executive.

- All InTouch nodes used for Historian data collection must be at version 7.11.06 or higher.
- NetDDE will be used by special request only. Please review Wonderware Tech Alert 4 for more information.
- If using NetDDE, the InTouch nodes from which tags will be imported must have the DDE Share " *|* " shared and trusted, if NetDDE is being used, so as to facilitate data acquisition for the Historian Server.
- All InTouch node logons and passwords for all PC's providing data (above) must be listed
- All I/O for any Historian Tags that are expected for use must be

present at arrival on site
- All InTouch node logons and passwords for all PC's providing data (above) must be listed
- Screen shots of graphics to be displayed on Wonderware Information Server web site
- The Wonderware Information Server machine must be capable of communicating with the nodes that have exported screens
- Client must identify any nodes that will be set as 'write back' capable

Internet connection specifications:

- Modem 28.8K: 5 Users
- Dedicated Digital 56K: 10 Users
- ISDN 128K: 20 Users
- T1 1.5M: 56 Users
- T3: 4500 Users
- .Net Framework Version 2

Internet server software specifications:

- Microsoft Windows 2003 (SP1 or R2) + Internet Information Server 6.0 (and MTS)
- MS-SQL Server 2005 is required to be installed and accessible on the local network by all System Platform components
- Internet Explorer 6.0 or later (Not IE 7.0 yet)
- Windows SharePoint Services 2.0 SP2 *Note: Disable or remove FrontPage Server Extensions before installing SharePoint.*
- ASP.NET version 2

Client software specifications:

- XP or Windows 2000 (compatible MS service packs - see Wonderware's Tech Alert 4)
- Internet Explorer 6.0 or later

Designer tool specifications:

- Process Graphics FactorySuite InTouch v8.0 SP2 Patch 4, 9.0 Patch 2, 9.5, or higher

Data Providers: (1 required)

- InTouch v8.0 SP2 Patch 4, 9.0 Patch 2, 9.5, or higher
- InTouch Distributed Alarms
- IndustrialSQL Server v8.0 SP3 Patch 1, 9.0, or higher
- DDE or SuiteLink I/O Server
- IAS 2.0 P1, 2.1, or higher

Functional Demonstration Testing

Upon completion of installation and configuration of all new software, an extensive test of the I/O for each plant will be tested thoroughly to include digital, analog and all alarm functionality. This will be accomplished by setting up a PC displaying the screens that are still communicating with the MDLC Gateway currently in place using the old software. The new software will be tested on the Plant computer to verify that all screens match the previous version of the software.

After the owner has agreed that the screens match and are fully functional, finalized testing documentation will be generated and signed by the owner for each site tested. Upon approval by the owner the topic will be removed from the MDLC Gateway and all Wonderware nodes will be redirected to look at the local plant IO instead of the MDLC Gateway driver located on the Field 1-240 computer.

Implementation Plan (see above)

Time Schedule: Project Final Completion is expected to be 180 days after receipt of order and approval of submittals.

Training

System training will be provided onsite and tailored to the specifics of the Seminole County SCADA system. This owner training will take place while software is being installed on all SCADA computers to aid the owner in the process necessary for configuring of the system.

DCR Engineering will provide training by a certified Wonderware trainer onsite at the SER facility to include the following agenda items for up to 6 students:

- InTouch Administrator orientation
- Application Server Administrator orientation
- Historian Server Administrator orientation
- Device Integration Servers Administrator orientation

- Information Server and ActiveFactory User orientation

Exclusions:

1. Graphical Animations on all HMI screens will not be redirected to Application Server Objects.

MOTOROLA

National Quality Award

June 10, 2009

Betsey J. Cohen, CPPB, Purchasing Supervisor
Purchasing and Contracts Division
Seminole County
1101 E. 1st Street
Sanford, Florida 32771

Re: RFP-600681-09/BJC
DCR Engineering Services' Authorized *Motorola Fixed-Data VAR* Recognition

Dear Ms. Cohen,

I am pleased to inform you that **DCR Engineering Services** has met successfully all criteria sufficient to achieve the status of Authorized *Motorola Fixed-Data VAR*. **DCR Engineering Services ("DCR.")** has maintained this authorization since 1991.

An Authorized *Motorola Fixed-Data VAR* is required to demonstrate both a high degree of technical achievement through project implementation and a professional business ethic backed by a proven commitment to customer service. Their experience and qualifications play a crucial role in completing projects on schedule while maintaining Motorola's high standards of quality. I examine rigorously every candidate for the status of Authorized *Motorola Fixed-Data VAR*, and the same applies to **DCR Engineering Services.** My evaluation has shown that **DCR Engineering Services** meets and exceeds these criteria.

As this authorization has been mutually beneficial from both a technological and economic standpoint, Motorola proudly asserts that **DCR Engineering Services** is highly proficient in designing, deploying, and servicing installations of Motorola SCADA equipment.

Sincerely,

Kreg Christoff
Manager, Indirect Distribution – MOSCAD and ACE
Motorola Fixed Data Systems

MOTOROLA

Authorized Value Added Reseller

DCR Engineering Services, Inc.

Effective: January 2002

PO Box 935 502 County Road 640 East Mulberry, FL 33860
Phone: 863.428.8080 Fax: 863.428.8036

Standard End User Warranty and License Agreement

Software Limited Lifetime

Warranty:

This warranty covers all custom software manufactured by DCR Engineering Services, Inc. for use with Motorola Fixed Data Products, inclusive of Motorola MOSCAD, MOSCAD-L, MOSCAD-M, Intrac, Network Fault Management, IP Gateway, MCPM, RIX, MCPT, DARCOM, and associated Motorola products. Support configuration services of third party software applications integrated into systems incorporating Motorola Fixed Data Products, and supplied by DCR Engineering Services, Inc., are included in this warranty and considered software supplied by DCR Engineering Services, Inc. Third party software applications would include Operator Interfaces, Human Machine Interfaces, Man Machine Interfaces, Database Interfaces, Network Interfaces, and Operating systems. Software configuration includes the setup for proper operation and the development of value-added features for third party software applications supplied by DCR Engineering Services, Inc. DCR Engineering Services, Inc. extends this Limited Warranty to the original end user for the life of the Motorola Fixed Data Product or system for which it is manufactured.

In the event of a defect that prevents the software as defined above from performing its intended function, as specified by the original project, DCR Engineering Services, Inc. will repair, correct, rewrite, or reconfigure the supplied software as necessary to perform its original specified purpose at no expense to the original user. DCR Engineering Services, Inc. will not be liable for consequential damages arising from use or inability to use software provided under this agreement.

This warranty, at the discretion of DCR Engineering Services, Inc., may be voided by any of the following actions: unauthorized modifications to the supplied software, unauthorized modifications to the supplied hardware, or installation on non-DCR Engineering Services, Inc. supplied hardware.

Third party software applications supplied by DCR Engineering Services, Inc. will have their respective manufacturer's warranty transferred to the end user, and are not covered by DCR Engineering Services, Inc. Third party software may include applications supplied by Motorola, Trihedral, Intellution, Wonderware, Infolink, Kepware, Kepserver, Microsoft, Specter, Rockwell, etc. For a period of one year after acceptance, DCR Engineering Services, Inc. will assist in correcting third party software defects, if the software was supplied by DCR Engineering Services, Inc., and will work with the third party supplier on behalf of the end user at no expense to the end user.

License and Usage Agreement:

Software as described above and supplied by DCR Engineering Services, Inc. may only be used for the benefit of the end user and DCR Engineering Services, Inc. The end user may not transfer or disclose any software supplied by DCR Engineering Services, Inc. to any person, firm, or corporation for any purpose whatsoever without written authorization from DCR Engineering Services, Inc. Installation of DCR Engineering Services, Inc. software on non-DCR Engineering Services, Inc. supplied equipment or hardware, or configuration of the pre-programmed functionality beyond the intended use of DCR Engineering Services, Inc., is prohibited unless permission is granted, in writing, by DCR Engineering Services, Inc. In addition, installation of DCR Engineering Services, Inc. software on non-DCR Engineering Services, Inc. supplied equipment or hardware, or configuration of the pre-programmed functionality beyond the intended use of DCR Engineering Services, Inc., may, at the discretion of DCR Engineering Services, Inc., void the software warranty and additional license fees may apply.

All application software, control algorithms, and value-added configuration services provided by DCR Engineering, Inc. remain the intellectual property of DCR Engineering Services, Inc. Inclusion of any part of any software supplied by DCR Engineering Services, Inc. in end user or third party supplied software relegates this end user or third party software to the same licensing and usage agreements as the original software supplied by DCR Engineering Services, Inc.

Material and Labor Warranty

All Motorola hardware supplied will have a warranty period equal to two years from acceptance. During this period, DCR Engineering Services, Inc. will repair or replace all defective Motorola equipment at no cost to the original purchaser. Non-Motorola equipment will have a warranty period equal to the greater of one year from acceptance, or the original manufacturer's warranty period. During the first year after acceptance, DCR Engineering Services, Inc. will replace all defective third party equipment at no cost to the original purchaser.

All engineering, design, and workmanship services will be warranted for a period of one year from date of acceptance, except that DCR Engineering Services, Inc. will correct faulty design and engineering, based on the original project, for the life of the project, if such errors are brought to its attention. During the first year, if engineering, design, and workmanship errors are brought to the attention of DCR Engineering Services, Inc., DCR Engineering Services, Inc. will make corrections to all DCR Engineering Services, Inc. supplied components at no charge to the original purchaser.

The only exclusions from coverage are common sense items such as abuse; vandalism; improper installation by non-DCR Engineering Services, Inc. employees; and acts of God (fire, flood etc.) excluding lightning. Lightning and surge damage will be treated as a standard RTU failure and are covered in this warranty.

In no event will DCR Engineering Services, Inc. by responsible for consequential damages due to hardware, software, workmanship, or installation failure, including RTU and system components consisting of RTU failures, faulty design, improper installation, loss of use, system failures, software errors, or faulty control logic.

MOTOROLA
Authorized Value-Added Reseller
Fixed Data Products

EXHIBIT B

SUBMIT PROPOSALS TO: Seminole County 1101 E. 1st Street, Room 3208 Sanford, Florida 32771 **Attn.: PURCHASING DIVISION**	**REQUEST FOR PROPOSALS** and Proposer Acknowledgment
Contact: Betsy J Cohen, CPPB Purchasing Supervisor 407-665-7112 bcohen@seminolecountyfl.gov	**RFP-600681-09/BJC** **Wonderware Industrial Application Server (IAS) Enterprise Platform**
Proposal Due Date: **June 10, 2009** Proposal Due Time: **2:00 P.M.**	**Location of Public Opening:** County Services Building, Room #3208 1101 E. 1st Street, Sanford, Florida 32771
Proposer Name: DCR Engineering Services, Inc.	Federal Employer ID Number or SS Number: 59-3441751
Mailing Address: 502 C.R. 640 E.	If returning as a "No Submittal", state reason (if so, return only this page):
City, State, Zip: Mulberry, FL 33860	
Type of Entity: *(Circle one)* X Corporation Partnership Proprietorship Joint Venture	X _____ Authorized Signature (Manual)
Incorporated in the State of: Florida	
Telephone Number: 863.428.8080	Typed Name: Clark Crain
Toll Free Telephone Number: (800)866.513.1604	Title: Sales Manager
Fax Number: 863.428.8036	Date: June 10, 2009

THIS FORM MUST BE COMPLETED AND RETURNED WITH YOUR PROPOSAL

The Applicant is expected to completely analyze the information contained in this Request for Proposals as guidance for the preparation of the submittal. The Applicant's submittal shall be sufficiently specific, detailed, and complete to clearly and fully demonstrate the Applicant's understanding of the proposed work requirements.

Section 5
Price Proposal

PROJECT: **Wonderware Industrial Application Server (IAS) Enterprise Platform**

COUNTY CONTRACT NO. **RFP-600681-09/BJC**

Name of Proposer: DCR Engineering Services, Inc.

Mailing Address: 502 C.R. 640 E.

City/State/Zip: Mulberry, FL 33860

Phone Number: (863) 428.8080 FAX Number: (863) 428.8036

E-mail Address: ccrain@dcreng.com

Pursuant to and in compliance with the Request for Proposals, Instructions to Proposers, and the other documents relating thereto, the undersigned Proposer, having familiarized himself with the terms of the Contract Documents, local conditions affecting the performance of the Work, hereby proposes and agrees to perform the Work and complete in a workmanlike manner, all of the Work required in connection with the required services, all in strict conformity Contract Documents, including Addenda Nos. n/a through n/a, on file at the Purchasing Division for the amount hereinafter set forth.

The undersigned, as Proposer, declares that the only persons or parties interested in this proposal as principals are those named herein; that this proposal is made without collusion with any person, firm or corporation; and he proposes and agrees, if the proposal is accepted, that he/she will execute an Agreement with the COUNTY in the form set forth in the Contract Documents; that he/she will furnish Insurance Certificates, that he is aware that failure to properly comply with the requirements set out in the "Instructions to Proposers" and elsewhere in the Contract Documents may result in a finding that the Proposer is non-responsive.

The fixed rates shall include all costs for work in place, including, but not limited to:

- General Administrative Overhead
- Fringe and benefits
- Profit
- Transportation of material to the project site
- Tools and related items
- Cost associated with company officers and support staff, superintendents, inspectors, project managers, estimators, administrators, buyers, etc.

RFP-600681-09/BJC
Price Schedule

WONDERWARE INDUSTRIAL APPLICATION SERVER (IAS) ENTERPRISE PLATFORM
CIP No. 24803 WBS No. 10203001

ITEM	QTY	UNIT	DESCRIPTION OF ITEM	AMOUNT IN FIGURES
1.	1	LS	General Conditions	$ 20,000.00
2.	1	LS	Submittals and Final Documentation	$ 5,555.00
3.	1	LS	Upgrade Installation, Programming, and Configuration Services	$ 45,000.00
4.	1	LS	Historical Server Installation, Programming, and Configuration	$ 40,000.00
5.	1	LS	Functional Demonstration Testing	$ 15,000.00
6.	1	LS	Training Services	$ 25,000.00
7.	1	LS	Warranty	$ 4,894.00
TOTAL			**Base Bid Price for Contract (Total Item Nos. 1 – 7)**	$ 155,449.00
8.	100	HOURS	Troubleshooting Services (Hourly rate for providing services as authorized by Seminole County)	$ 80.00 per hour or $ 8,000.00

EXHIBIT C
Board of County Commissioners
Seminole County, Florida

PURCHASE ORDER

Page 1

ORDER NUMBER:

TAX EXEMPTION NUMBERS
FLORIDA SALES: 69-11-033995-53C
FEDERAL SALES/USE: 59-74-0013K

NOTE: ALL PACKING SLIPS, INVOICES & CORRESPONDENCE MUST REFERENCE THIS PURCHASE ORDER NUMBER

ORDER TYPE
ORDER DATE
REQ NUMBER
REQ DEPT
VENDOR NUMBER

SHIP TO
COUNTY SERVICES BUILDING
1101 EAST FIRST STREET
SANFORD FL 32771

VENDOR

FOR INQUIRIES REGARDING THIS ORDER, CONTACT:
FISCAL SERVICES DEPARTMENT - PURCHASING AND CONTRACTS DIVISION
1101 E. 1st STREET - COUNTY SERVICES BLDG. - RM. #3208
SANFORD FLORIDA 32771
PHONE: (407) 665-7116 / FAX: (407) 665-7956

DELIVER BY

ITEM	QUANTITY	UNIT	ITEM DESCRIPTION	UNIT PRICE	EXTENDED PRICE

REQUESTING DEPT/DIV

TOTAL AMOUNT

THIS ORDER IS SUBJECT TO THE TERMS & CONDITIONS ON THE REVERSE SIDE OF THIS ORDER.

SUBMIT ALL INVOICES IN DUPLICATE TO:
CLERK - B.C.C. FINANCE DIVISION
POST OFFICE BOX 8080
SANFORD, FL 32772-0869
Accts. Payable Inquiries - Phone (407) 665-7681

PURCHASING AND CONTRACTS DIVISION -AUTHORIZED SIGNATURE
for: SEMINOLE COUNTY BOARD OF COUNTY COMMISSONERS

Evaluations

RFP-600681-09/BJC - Wonderware Industrial Application Server (IAS) Enterprise Platform

Edit Response | Delete Response | Alert Me | Go Back to Survey

Congratulations on your selection as an Evaluation Team Member!
Your evaluation is key in awarding quality contracts. You must examine each proposal against the evaluation criteria in the solicitation and provide supportive narrative for your selection. Are you willing to evaluate in a fair, comprehensive, and impartial manner?
Are you willing to present a clear picture of the issues considered during the evaluation?
I have read and will comply with the above requirement:
:

Yes

Conflict of Interest Statement – Policies and Procedures address employee and elected official onflicts, ss. 112.313, Fl. Stat.; Seminole County Code; Personnel Policies and Procedures of Seminole County. Conflicts may occur when public officials or employees are in a position to make decisions which affect their private gain or the gain of family members and friends.
County policy encourages the disclosure process to remind officials or mployees of their obligation to put the public interest above personal considerations.
I state that I have considered my obligation to put the public interest above personal interest::

Yes

RESPONSE #1: DCR ENGINEERING SERVICES, INC.:

Acceptable for award

#1: Overall experience of the firm in providing Wonderware Upgrade and related services for turn-key operation in accordance with all applicable rules and regulations - Remarks:

Based on DCR documentation, the company has more than enough experience to complete the project

#1: Understanding of scope of work, purposes and objectives of the project & understanding of the Firm's role and responsibilities, management plan - Remarks:

DCR has documented their understanding of the project and it appears to be correct

#1: Quality of the content and the sufficiency of resources and ability of the Proposer to comply with the contract and provide the services - Remarks:

Based on DCR documentation, the company has more than enough resources to complete the project

#1: Cost proposal, Warranty and Maintenance - Remarks:

DCR is the apparent low bidder $80.00 hourly rate
Both contractors have appeared to bid relatively the same amount time for the actual work, the difference appears to be in the hourly rates. Revere's hourly rate is 150% more than DCR's

#1: Overall Ranking of Proposer #1:

	HA	A	M	
	1	2	3	Unacceptable
< >				
Proposer #1	☐	☐	☐	☐

RESPONSE #2: REVERE CONTROL SYSTEMS:

Based on information provided by Revere, unacceptable

#2: Overall experience of the firm in providing Wonderware Upgrade and related services for turn-key operation in accordance with all applicable rules and regulations - Remarks:

Revere supplied no information

#2: Understanding of scope of work, purposes and objectives of the project & understanding of the Firm's role and responsibilities, management plan - Remarks:

Revere supplied no information

#2: Quality of the content and the sufficiency of resources and ability of the Proposer to comply with the contract and provide the services - Remarks:

Revere supplied no information

#2: Cost proposal, Warranty and Maintenance - Remarks:

Revere is the apparent high bidder $203.00 hourly rate
Both contractors have appeared to bid relatively the same amount time for major portions of the work, the difference appears to be in the hourly rates. Revere's hourly rate is

150% more than DCR's

#2: Overall Ranking of Proposer #2:

	HA	A	M	
	1	2	3	Unacceptable
< >				
Proposer #2	☐	☐	☐	☐

Created at 6/12/2009 3:49 PM by Owens, Tom
Last modified at 6/12/2009 3:49 PM by Owens, Tom

Evaluations

RFP-600681-09/BJC - Wonderware Industrial Application Server (IAS) Enterprise Platform

Edit Response | Delete Response | Alert Me | Go Back to Survey

Congratulations on your selection as an Evaluation Team Member!
Your evaluation is key in awarding quality contracts. You must examine each proposal against the evaluation criteria in the solicitation and provide supportive narrative for your selection. Are you willing to evaluate in a fair, comprehensive, and impartial manner?
Are you willing to present a clear picture of the issues considered during the evaluation?
I have read and will comply with the above requirement:
:

Yes

Conflict of Interest Statement – Policies and Procedures address employee and elected official onflicts, ss. 112.313, Fl. Stat.; Seminole County Code; Personnel Policies and Procedures of Seminole County. Conflicts may occur when public officials or employees are in a position to make decisions which affect their private gain or the gain of family members and friends.
County policy encourages the disclosure process to remind officials or mployees of their obligation to put the public interest above personal considerations.
I state that I have considered my obligation to put the public interest above personal interest::

Yes

RESPONSE #1: DCR ENGINEERING SERVICES, INC.:

Response meets the requirements identified in the RFP

#1: Overall experience of the firm in providing Wonderware Upgrade and related services for turn-key operation in accordance with all applicable rules and regulations - Remarks:

History of progressive experience

#1: Understanding of scope of work, purposes and objectives of the project & understanding of the Firm's role and responsibilities, management plan - Remarks:

DCR understands the scope of work and all deliverables

#1: Quality of the content and the sufficiency of resources and ability of the Proposer to comply with the contract and provide the services - Remarks:

DCR has available resources for this project

#1: Cost proposal, Warranty and Maintenance - Remarks:

Cost seem consistent with the job requirements

#1: Overall Ranking of Proposer #1:

	HA	A	M	
	1	2	3	Unacceptable
< >				
Proposer #1	☐	☐	☐	☐

RESPONSE #2: REVERE CONTROL SYSTEMS:

Responded did not meet all RFP requirements

#2: Overall experience of the firm in providing Wonderware Upgrade and related services for turn-key operation in accordance with all applicable rules and regulations - Remarks:

#2: Understanding of scope of work, purposes and objectives of the project & understanding of the Firm's role and responsibilities, management plan - Remarks:

Not sure it they understand scope as no management plan provided

#2: Quality of the content and the sufficiency of resources and ability of the Proposer to comply with the contract and provide the services - Remarks:

#2: Cost proposal, Warranty and Maintenance - Remarks:

Costs seem high for the required scope.

#2: Overall Ranking of Proposer #2:

	HA	A	M	
	1	2	3	Unacceptable

< >

Proposer # 2 ☐☐☐ ☐

Created at 6/29/2009 10:43 AM by Taylor, John
Last modified at 6/29/2009 10:43 AM by Taylor, John

Evaluations

RFP-600681-09/BJC - Wonderware Industrial Application Server (IAS) Enterprise Platform

Edit Response | Delete Response | Alert Me | Go Back to Survey

Congratulations on your selection as an Evaluation Team Member!
Your evaluation is key in awarding quality contracts. You must examine each proposal against the evaluation criteria in the solicitation and provide supportive narrative for your selection. Are you willing to evaluate in a fair, comprehensive, and impartial manner?
Are you willing to present a clear picture of the issues considered during the evaluation?
I have read and will comply with the above requirement:
:

Yes

Conflict of Interest Statement – Policies and Procedures address employee and elected official onflicts, ss. 112.313, Fl. Stat.; Seminole County Code; Personnel Policies and Procedures of Seminole County. Conflicts may occur when public officials or employees are in a position to make decisions which affect their private gain or the gain of family members and friends.
County policy encourages the disclosure process to remind officials or mployees of their obligation to put the public interest above personal considerations.
I state that I have considered my obligation to put the public interest above personal interest::

Yes

RESPONSE #1: DCR ENGINEERING SERVICES, INC.:

Response meets the requirements identified in the RFP

#1: Overall experience of the firm in providing Wonderware Upgrade and related services for turn-key operation in accordance with all applicable rules and regulations - Remarks:

History of progressive experience

#1: Understanding of scope of work, purposes and objectives of the project & understanding of the Firm's role and responsibilities, management plan - Remarks:

DCR understands the scope of work and all deliverables

#1: Quality of the content and the sufficiency of resources and ability of the Proposer to comply with the contract and provide the services - Remarks:

DCR has available resources for this project

#1: Cost proposal, Warranty and Maintenance - Remarks:

Cost seem consistent with the job requirements

#1: Overall Ranking of Proposer #1:

	HA	A	M	
	1	2	3	Unacceptable
< >				
Proposer #1	☐	☐	☐	☐

RESPONSE #2: REVERE CONTROL SYSTEMS:

Responded did not meet all RFP requirements

#2: Overall experience of the firm in providing Wonderware Upgrade and related services for turn-key operation in accordance with all applicable rules and regulations - Remarks:

#2: Understanding of scope of work, purposes and objectives of the project & understanding of the Firm's role and responsibilities, management plan - Remarks:

Not sure it they understand scope as no management plan provided

#2: Quality of the content and the sufficiency of resources and ability of the Proposer to comply with the contract and provide the services - Remarks:

#2: Cost proposal, Warranty and Maintenance - Remarks:

Costs seem high for the required scope.

#2: Overall Ranking of Proposer #2:

	HA	A	M	
	1	2	3	Unacceptable

< >

Proposer # 2 ☐☐☐ ☐

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