

DEPARTMENT OF PROCUREMENT SERVICES NON-COMPETITIVE REVIEW BOARD (NCRB) APPLICATION

Complete this cover form and the Non-Competitive Procurement Application Worksheet in detail. Refer to the page entitled "Instructions for Non-Competitive Procurement Application" for completing this application in accordance with its policy regarding NCRB. Complete "other" subject area if additional information is needed. Subject areas must be fully completed and responses merely referencing attachments will not be accepted and will be immediately rejected.

| Department | Originator Name | Tel | ephone | Date | Signature of Application Author |
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| Aviation | Abder R. Messar | 773 | 3 686-2370 | 06/17/13 | |
| Contract Liaison James Bator | james.bator@slemens.com | | ephone 7) 493-7708 | | J. Usar |
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| Request NCRB review | w be conducted for the produc | t(s) and/ | or service(s) de | scribed herei | n. |
| Company: Siemens I | ndustry, Inc. Infrastructure & (| Cities Se | ector Bullding Te | echnologies D | Division Building Automation |
| | Ct. Mt. Prospect, IL 60056 | | 3 | | 3 |
| Contact Person: | Phon | e: | Email: | ,,, | A STATE AND ADDRESS AND ADDRES |
| James Bator | SAME AND | 493-770 | The state of the s | bator@sieme | |
| Project Description: | O'Hare Airport Supervisory Mo | nitoring | System (SMS) | and Fire Alarr | n System (FAS) |
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| New Contract | | | Amendment / Mo | odification | |
| Contract Type | | Тур | e of Modificatio | <u>n</u> | |
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All applicable information on this worksheet must be addressed using each question found on the "Instructions for Non-Competitive Procurement Application" in this application.

Justification for Non-Competitive Procurement Worksheet

☑ PROCUREMENT HISTORY

1. Describe the requirement and how it evolved from initial planning to its present status.

Siemens is the manufacturer, designer, supplier, and installer of the equipment known as the Supervisory Monitoring System (SMS) and the Fire Alarm System (FAS). The SMS and the FAS are to be serviced, maintained, repaired, and upgraded throughout the terminals, Heating & Refrigeration Plant, and remote buildings at O'Hare Airport. Siemens is presently performing under a sole source contract PO12752 with the Chicago Department of Aviation (CDA); the contract is due to expire on 12/31/2013 after seven years of continuous service, in reality the services started in 1988. CDA would like to renew the contract for maintenance service and repair. The SMS and FAS at O'Hare consist of hardware and software designed, supplied, installed, commissioned, and warranted and serviced by Siemens. The primary hardware components of the SMS and FAS are either manufactured by or designed by and manufactured specifically for Siemens. The software that operates the systems on all levels (DSC, DNC, CNP, and interfaces) were designed and written by Siemens on a proprietary basis. This is an entirely proprietary system, and only Siemens may service the system, therefore no attempt was made to competitively bid this requirement at this time; however after this contract is over, CDA believes that competitive bidding may be possible for future procurement cycles if the industry evolves to full standardization around open-protocol technologies.

After a thorough analysis and discussion internally at CDA, we were faced with a need to make a choice of whether to attempt to competitively bid or to request for sole source procurement. CDA engaged Cosentini (a Tetra Tech company), an independent consultant with extensive knowledge of the industry, to review the existing Fire Alarm System (FAS) and Supervisory Monitoring System (SMS), assess industry standards for system procurement at other large facilities, and to provide a professional opinion on the procurement options available. The resulting consultant's recommendations are summarized throughout this application.

2. Is this a first time requirement or a continuation of previous procurement from the same source? If so, explain the procurement history.

This is a continuation of previous procurement from the same source. Siemens has had a Service Agreement at CDA O'Hare for the past 7 years. Prior to 2007, CDA was under contract with Landis & Staefa which Siemens bought them in 2001. Landis & Staefa originally was awarded the design and installation contract via the RFQ/RFP process in 1988. They were among three (3) firms which submitted proposals. This agreement is mainly used to perform preventive maintenance on the Building Automation System and the Fire and Life Safety System. When funds were available, additional tasks to update defective panels were completed. The goal of the CDA is to have a BACNet compatible system installed which can run on the City network. We have updated approximately 200 of the 500 (40%) panels in Terminals 1-3 and various other outlying buildings to BACNet or BACNet ready (when the Fiber is available will be put on City network). This contract will not be used to install fiber to facilitate this task.

With this proposal, Siemens, for the next five years, will replace the remaining 300 panels (5 per month) and have the entire system operated by CDA with BACNet panels. This will allow all the panels to be on the City Network where the City network fiber is available. By being on the network the system will run faster and be a nonproprietary BACNet system. This will allow other BACNet products to be put on the same network with the Siemens panels and viewed through one Graphical Interface already installed at O'Hare.

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3. Explain attempts made to competitively bid the requirement (attach copy of sources contacted).

CDA engaged Cosentini (a Tetra Tech company) to review the existing Fire Alarm System (FAS) and Supervisory Monitoring System (SMS), assess industry standards for system procurement at other large facilities, and to provide a professional opinion on the procurement options available. Following a thorough investigation, Cosentini Engineers concluded that the two systems require fully integrated hardware, software, and O&M services to effectively deliver critical life safety and building management functions. Separating out a component of the system, such as O&M services, while theoretically possible, would have a series of impacts on performance quality, operating efficiency, and cost; which could include either replacement of the installed hardware and software asset base, substantially higher cost of replacement parts and software upgrades, or reduced efficiency and added complexity related to implementation of component upgrades or replacements. A competitive process designed to identify the best value professional O&M services must also ensure the continued integrity of the full system, including the hardware and software components, and would therefore require bidders to propose solutions for the full system. The opinion of Cosentini Engineers is that a competitive bidding process would not result in a practical solution for CDA's requirements given the heavy CDA investment in standardized hardware and software and the significant lifecycle time remaining on the installed asset base.

4. Describe in detail all research done to find other sources; list other cities, companies in the industry, professional organizations contacted. List periodicals and other publications used as references.

On behalf of CDA, Cosentini reviewed the existing CDA FAS and SMS systems, identified potential service providers, and conducted research into standard industry practices for similar large campus systems. Cosentini was established in 1952 to provide consulting services in the mechanical and electrical engineering disciplines. Engineering services include heating, ventilating, and air-conditioning (HVAC), electrical, plumbing and fire protection. The mechanical engineers in the HVAC discipline design and specify HVAC systems including building automation systems. The electrical engineers specify power distribution systems and equipment and fire alarm systems. Recent large projects in the Chicago area include:

- AT&T Center, Hoffman Estates, Illinois
- Blue Cross Blue Shield Headquarters, Chicago, Illinois
- Queen City Square Tower, Cincinnati, Ohio
- 2550 N. Lakeview Condominiums, Chicago, Illinois
- 500 N. Lake Shore Drive Residential Tower, Chicago, Illinois
- 111 W. Wacker Drive Residential Tower, Chicago, Illinois

Cosentini inspected the O'Hare Airport Domestic Terminal Buildings and Tunnels, the Heating & Refrigeration (H & R) Plant, Remote Parking/Bus/Shuttle Center, and outlying buildings to understand the facilities and the operation of the FAS and SMS. Cosentini interviewed CDA operating engineers including the assistant chief operating engineers (ACOEs) and fire desk personnel from the O'Hare Communications Center (OCC) to understand the history and use of the existing systems and how well they have been operating. Following the O'Hare systems review, Cosentini researched major manufacturers and service providers, including:

Siemens



- EST
- Honeywell/Notifier
- Automated Logic
- Johnson Controls

The research efforts focused on the interchangeability of equipment, open and proprietary communications protocols, open and proprietary device designs, and the practicality and cost of replacing and upgrading elements of the systems through a different contractor.

The research effort included a search for organizations capable of maintaining similar large campus-wide systems. The research concluded that there are few capable organizations. Large or campus-wide fire alarm systems consisting of varied manufacturers are unlikely to exist as it invalidates the UL listing of the fire alarm system. There are a few large or campus-wide building automation systems managed and maintained by a contractor. Even fewer are campus-wide fire alarm system and building automation systems managed by the same contractor. Large systems are rare and campus-wide systems in which the fire alarm system manufacturer and the building automation system manufacturer are the same and managed and maintained by the same manufacturer are even rarer.

5. Explain future procurement objectives. Is this a one-time request or will future requests be made for doing business with the same source?

This is a request for a 5-year term contract; however, CDA believes that competitive bidding may be possible for future procurement cycles if the industry evolves to full standardization around open-protocol technologies.

CDA has taken management control of the networking hardware and firmware and user account and network device management.

- a. Starting 2 years ago Unisys has started to administer and maintain the network.
- b. As part of the process CDA has expanded the number of network routers and converters to more areas of the airport to allow for more BACNet cabinet installations.
- c. The new contract has funds assigned within its budget to ensure that by the end of the contract there are no remaining proprietary P2 networked devices in the SMS network.
- d. One more requirement of the new contract is to replace the remaining panels within the length of the contract to allow for open BACNet protocol and eventually competitive bidding.
- 6. Explain whether or not future competitive bidding is possible. If not, explain in detail.

CDA believes that competitive bidding may be possible for future procurement cycles if the industry evolves to full standardization around open-protocol technologies. This is partly an issue of the network infrastructure on which the systems are built, and partly an issue of the coding required for devices to communicate with the front-end management software and the related configuration of the front-end software. CDA has invested in open-protocol network infrastructure (BACNet) to link devices across the systems. Due the scale and complexity of the systems, the full network is not currently open-protocol and additional investment is required to complete the conversion. While it is theoretically possible for devices from one manufacturer to communicate across an open-protocol network with front-end management software from a different provider, this requires custom coding and configuration, potentially reducing the effectiveness of the system and increasing the cost of implementation. In Cosentini's experience, it is extremely rare for building automation or fire alarm systems to contain front-end management software from a



different manufacturer than the device hardware manufacturer. CDA plans to continue to invest in open-protocol network infrastructure so that when the technology evolves to the point where it is practical to efficiently operate a multi-provider system, CDA will be in a position to seek competitive bids from qualified firms. In the meantime, CDA believes the best value for the City can be achieved by building on the significant investment to date in Siemens hardware and software and continuing to standardize around Siemens products.

■ ESTIMATED COST

1. What is the estimated cost for this requirement or for each contract, if multiple awards are contemplated? What is the funding source?

O&M Funding: 740 85 4035 1162 0162

| | Yr1 | Yr2 | Yr3 | Yr4 | Yr5 | Totals |
|---------------|-----------------------|--------------|--------------|--------------|--------------|---------------|
| Monthly | 249,474.00 | 254,463.48 | 262,097.38 | 269,960.31 | 278,059.12 | |
| Yearly | 2,993,688.00 | 3,053,561.76 | 3,145,168.61 | 3,239,523.67 | 3,336,709.38 | 15,768,651.43 |
| Special Proje | ects/year* 250,000.00 | 250,000.00 | 250,000.00 | 250,000.00 | 250,000.00 | 1,250,000.00 |
| Budget | 3,243,688.00 | 3,303,561.76 | 3,395,168.61 | 3,489,523.67 | 3,586,709.38 | 17,018,651.43 |

2. What is the estimated cost by fiscal year?

| | Yr1 | Yr2 | Yr3 | Yr4 | Yr5 | Totals |
|---------------|-----------------------|--------------|--------------|--------------|--------------|---------------|
| Monthly | 249,474.00 | 254,463.48 | 262,097.38 | 269,960.31 | 278,059.12 | |
| Yearly | 2,993,688.00 | 3,053,561.76 | 3,145,168.61 | 3,239,523.67 | 3,336,709.38 | 15,768,651.43 |
| Special Proje | ects/year* 250,000.00 | 250,000.00 | 250,000.00 | 250,000.00 | 250,000.00 | 1,250,000.00 |
| Budget | 3,243,688.00 | 3,303,561.76 | 3,395,168.61 | 3,489,523.67 | 3,586,709.38 | 17,018,651.43 |

- (*) = Based on time and material Projects are performed at the discretion of CDA. Vendor will only be paid for services requested by CDA.
- 3. Explain the basis for estimating the cost and what assumptions were made and/or data used (i.e., budgeted amount, previous contract price, current catalogue or cost proposal from firms solicited, engineering or in-house estimate, etc.)

The cost was based on the current contact taking into account the additional work which we are requesting to move to the open protocol BACNet and to allow for additional projects that will be done at CDA's discretion.

Line 1 of the contract, PREVENTATIVE & MONITORING LABOR, PARTS, MATERIAL, is within the current monthly average that CDA is paying now; however for this new request we are including the installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year at no additional cost. The panels cost from \$10,000 to \$17,000 each installed.



The yearly increase is capped at 2% for year two and 3% thereafter. It is a fully loaded monthly maintenance price that covers all labor and materials on a 24/7 basis thus limiting CDA's exposure to unexpected maintenance expenses. Current contract is Time & Material which could result in considerable unanticipated costs if the system should incur large failures/breakdowns.

The rest of the labor and material lines (Lines 2 -25) that may be used for CDA special projects are based on the current 2013 contract rates with a 2% increase for the first year, 2% increase for the second year and 3% increase thereafter.

Contractor's parts are discounted at 52% from the catalog prices, under the current contract, the parts are discounted at 50%.

Non-Contractor's parts are marked up at 10% above cost, under the current contract; these parts are marked up at 12%.

Subcontracting services are marked up at 10%, under the current contract the markup is 10% plus 5% administrative costs.

4. Explain whether the proposed Contractor or the City has a substantial dollar investment in original design, tooling or other factors which would be duplicated at City expense if another source was considered. Describe cost savings or other measurable benefits to the City which may be achieved.

CDA has invested heavily in upgrading hardware and software to standardize around a single manufacturer's products. The standardization program brings substantial benefits in terms of the quality of system performance (eliminating communications issues between devices and management software) and cost efficiencies associated with upgrade implementation and maintenance activities (due to standardized coding and configuration, and concentration of staff expertise around a single set of products). In order to achieve the same performance on quality and efficiency, a different provider would need to replace all of the Siemens equipment and software. This would require a very large investment by the City and would result in replacement of equipment with significant lifecycle time remaining. The alternatives are to reverse the standardization program and begin to introduce another manufacturer's products over the lifetime of the contract per regular upgrade and maintenance schedules; or to require a new service provider to acquire and install Siemens products and software. CDA expects that the first alternative would result in degradation of system performance and a loss of efficiency in the upgrade and maintenance programs. The second alternative would result in a higher cost for Siemens products due to the addition of third-party mark-up and loss of direct access to Siemens personnel for maintenance and support of the installed assets.

This new contract will have a fully loaded monthly maintenance price that covers all labor and materials on a 24/7 basis thus limiting CDA's exposure to unexpected maintenance expenses. Current contract is Time & Material which could result in considerable unanticipated costs if the system should incur large failures/breakdowns.

5. Explain what negotiation of price has occurred or will occur. Detail why the estimated cost is deemed reasonable.

We have met with the vendor on several occasions and discussed the pricing requiring them to stay at the current rate level or below for the same services. The rates offered to CDA are very competitive and significantly lower than the vendor's street rates.

Attached are the Field Service Labor Rates (Street Rates) for Chicago Area fom Siemens and their first and second proposals.



SCHEDULE REQUIREMENTS

1. Explain how the schedule was developed and at what point the specific dates were known. Contract would start January 1, 2014; current contract will expire December 31, 2013.

2.Is lack of drawings and/or specifications a constraining factor to competitive bidding? If so, why is the proposed Contractor the only person or firm able to perform under these circumstances? Why are the drawings and specifications lacking? What is the lead time required to get drawings and specifications suitable for competition? If lack of drawings and specifications is not a constraining factor to competitive bidding, explain why only one person or firm can meet the required schedule.

No, the lack of drawigs and/or specicifications are not a constraing factor to competitive bidding, however, CDA engaged Cosentini (a Tetra Tech company) to review the existing Fire Alarm System (FAS) and Supervisory Monitoring System (SMS), assess industry standards for system procurement at other large facilities, and to provide a professional opinion on the procurement options available. Following a thorough investigation, Cosentini Engineers concluded that the two systems require fully integrated hardware, software, and Operations and Maintenance (O&M) services to effectively deliver critical life safety and building management functions. Separating out a component of the system, such as O&M services, while theoretically possible, would have a series of impacts on performance quality, operating efficiency, and cost; which could include either replacement of the installed hardware and software asset base, substantially higher cost of replacement parts and software upgrades, or reduced efficiency and added complexity related to implementation of component upgrades or replacements. A competitive process designed to identify the best value professional O&M services must also ensure the continued integrity of the full system, including the hardware and software components, and would therefore require bidders to propose solutions for the full system. The opinion of Cosentini Engineers is that a competitive bidding process would not result in a practical solution for CDA's requirements given the heavy CDA investment in standardized hardware and software and the significant lifecycle time remaining on the installed asset base.

The goal of the CDA is to have a BACNet compatible system installed which can run on the City network. Siemens has updated approximately 200 of the 500 (40%) panels in Terminals 1-3 and various other outlying buildings to BACNet or BACNet ready; when the Fiber is available will be put on City network.

3. Outline the required schedule by delivery or completion dates and explain the reasons why the schedule is critical.

The current contract will expire on December 31, 2013, the new contract should start on January 1st, 2014.

4.. Describe in detail what impact delays for competitive bidding would have on City operations, programs, costs and budgeted funds.

CDA engaged Cosentini (a Tetra Tech company) to review the existing Fire Alarm System (FAS) and Supervisory Monitoring System (SMS), assess industry standards for system procurement at other large facilities, and to provide a professional opinion on the procurement options available. Following a thorough investigation, Cosentini Engineers concluded that the two systems require fully integrated hardware, software, and Operations and Maintenance (O&M) services to effectively deliver critical life safety and building management functions. Separating out a component of the system, such as O&M services, while theoretically possible, would have a series of impacts on performance quality, operating efficiency, and cost; which could include either replacement of the installed hardware and software asset base, substantially higher cost of replacement parts and software upgrades, or reduced efficiency and added complexity related to implementation of component upgrades or replacements. A competitive process designed to identify the best value professional O&M services must also ensure the continued integrity of the full system, including the hardware and software components, and would therefore require bidders to propose solutions for the full system. The opinion of Cosentini Engineers is that a competitive bidding process would not result in a practical solution for



CDA's requirements given the heavy CDA investment in standardized hardware and software and the significant lifecycle time remaining on the installed asset base. The goal of the CDA is to have a BACNet compatible system installed which can run on the City network. Siemens has updated approximately 200 of the 500 (40%) panels in Terminals 1-3 and various other outlying buildings to BACNet or BACNet ready (when the Fiber is available will be put on City network). Furthermore if the the curent system is not being maintained, we may lose the capabilities to control and monitor our Heating and Refrigeration equipment, fire alarm systems, and many other essential systems at the airport that depend on the current SMS and/or FAS.

□ EXCLUSIVE OR UNIQUE CAPABILITY

1. If contemplating hiring a person or firm as a Professional Service Consultant, explain in detail what professional skills, expertise, qualifications, and/or other factors make this person or firm exclusively or uniquely qualified for the project. Attach a copy of the cost proposal, scope of services, and Temporary Consulting Services Form.

The FAS and SMS are integrated systems of hardware, software, and services. CDA has invested heavily in Siemens hardware and software and plans to continue to build on a system standardized around Siemens products, until such time as truly open-protocol technology standards exist in the industry. The professional O&M services element of the contract could, in theory, be separated from the provision of hardware and software components, however CDA believes that Siemens is uniquely qualified to fulfill this role, and that no other provider can deliver the depth and range of expertise on Siemens hardware and software products that exists within the Siemens organization. Siemens can uniquely provide access to software designers and engineers responsible for development of the Siemens Apogee front-end management system to address complex coding and communications issues across all devices managed by the system. Siemens personnel also provide highly detailed knowledge of the existing O'Hare systems, configurations, and bespoke coding. The existing knowledge base is very important and cannot be quickly replicated by a third-party services provider. In addition to the unique nature of Siemens qualifications and their experience with the O'Hare systems, contracting directly with Siemens for O&M services provides a direct channel to Siemens for hardware and software components, avoiding third-party mark-up costs.

2. Does the proposed firm have personnel considered unquestionably predominant in the particular field?

Siemens personnel are without doubt the predominant experts in building automation and fire alarm systems utilizing the Siemens Apogee front-end management system and an installed asset base of majority Siemens hardware. Siemens has as a more detailed knowledge of the existing O'Hare system and CDA maintenance requirements than any other potential provider. Siemens technicians have a minimum of 4-6 weeks of initial classroom training that is performed at Siemens Training Center. This training encompasses the software and hardware programming and maintenance routines. Once this initial training is completed the technicians need to attend a minimum of one training program per year. This additional training is to ensure the technicians are up up to date on any changes made to the Siemens Operating System. The Siemens Apogee system programming is one part of the training the technicians receive and ensures that when programs are written they are similar in nature to allow for ease of servicing when required.

3. What prior experiences of a highly specialized nature does the person or firm exclusively possess that is vital to the job, project or program?

The FAS and SMS are integrated systems composed of hardware, software, and services. CDA has invested heavily in Siemens hardware and software and currently operates an installed asset base that is composed primarily of Siemens equipment (approximately 85% of the FAS and approximately 80% of the SMS control panels) and is

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managed by the Siemens Apogee front-end management system. The Siemens service organization is highly specialized in the installed hardware and software components and can exclusively provide a deep expertise in Siemens products from front-line service personnel to software designers and system engineers. Fire alarm and building automation systems for a campus at the scale of O'Hare are highly complex and require software customization and configuration that can only be provided by the manufacturer.

4. What technical facilities or test equipment does the person or firm exclusively possess of a highly specialized nature which is vital to the job?

Siemens software development teams continually provide O'Hare with the latest and new versions of software and equipment due to the complex nature of the O'Hare systems. CDA benefits from the focus of the Siemens development teams in addressing the complexities of the O'Hare systems in new versions, and from the focus of the software experts in optimizing the performance of the existing system.

Siemens is the Manufacturer of all the components that are used in their Building Automation and Fire Systems.

The Powers Process Control Language is a software operating system which is a copywritten product owned and maintained by Siemens Industry, Inc.

Siemens has R&D and troubleshooting teams available in Buffalo Grove Illinois to assist with any problems that may occur with software or hardware items manufactured and installed by Siemens Branches.

Specialized tools only distributed to Siemens factory trained technicians include:

- Commissioning Interface Software which allows technician to talk to terminal equipment controllers and make changes and determine the operation of unit.
- · Commissioning Tool which helps with the start-up of field cabinets when they go down or are initially installed.
- Job Editor Software which allows the technician to backup the database of the system and having a current copy in case of the system going down.
- · Designer Software is the software used by the Technician to design the graphics that are installed in the system.
- 5. What other capabilities and/or capacity does the proposed firm possess which is necessary for the specific job, project or program which makes them the only source who can perform the work within the required time schedule without unreasonable costs to the City?

Due to the complexity of the FAS and SMS, software upgrades to the front-end system require significant installation and related customization work that requires the expertise of Siemens software engineers. In addition, much of the upgrade and installation work is currently carried out as part of test bed initiatives by Siemens, which provides significant benefit to CDA with minimal associated cost. CDA would likely incur significantly higher costs for installation and customization services delivered by a third-party; by personnel that are not part of the Siemens organization.

6. If procuring products or equipment, describe the intended use and explain any exclusive or unique capabilities, features and/or functions the items have which no other brands or models, possess. Is compatibility with existing equipment critical from an operational standpoint? If so, provide detailed explanation?

CDA is procuring upgrade and replacement hardware and software, as well as support services for maintenance and upgrade of the FAS and SMS systems. CDA, to date, has invested heavily in upgrading hardware and software to standardize around a single manufacturer's products. Compatibility with the existing equipment, system, software is

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very critical and need to be maintained from an operational standpoint, cost, quality, efficiency and standardization. The standardization program brings substantial benefits in terms of the quality of system performance (eliminating communications issues between devices and management software) and cost efficiencies associated with upgrade implementation and maintenance activities (due to standardized coding and configuration, and concentration of staff expertise around a single set of products). In order to achieve the same performance on quality and efficiency, a different provider would need to replace all of the Siemens equipment and software. This would require a very large investment by the City and would result in replacement of equipment with significant lifecycle time remaining; this would also likely result in a sole source scenario for operation and maintenance of the system with the new provider.

7. Is competition precluded because of the existence of patent rights, copyrights, trade secrets, technical data, or other proprietary data (attach documentation verifying such)?

Competition is not precluded only because of the existence of patent rights, copyrights, trade secrets, technical data, or other proprietary data but also because while it is theoretically possible for devices from one manufacturer to communicate across an open-protocol network with front-end management software from a different provider, this requires custom coding and configuration, potentially reducing the effectiveness of the system and increasing the cost of implementation. In Cosentini's experience, it is extremely rare for building automation or fire alarm systems to contain front-end management software from a different manufacturer than the device hardware manufacturer. CDA plans to continue to invest in open-protocol network infrastructure so that when the technology evolves to the point where it is practical to efficiently operate a multi-provider system, CDA will be in a position to seek competitive bids from qualified firms. In the meantime, CDA believes the best value for the City can be achieved by building on the significant investment to date in Siemens hardware and software and continuing to standardize around Siemens products.

8. If procuring replacement parts and/or maintenance services, explain whether or not replacement parts and/or services can be obtained from any other sources? If not, is the proposed firm the only authorized or exclusive dealer/distributor and/or service center? If so, attach letter from manufacturer on company letterhead.

CDA is procuring upgrade and replacement hardware and software, as well as support services for maintenance and upgrade of the FAS and SMS systems. CDA, to date, has invested heavily in upgrading hardware and software to standardize around a single manufacturer's products. The standardization program brings substantial benefits in terms of the quality of system performance (eliminating communications issues between devices and management software) and cost efficiencies associated with upgrade implementation and maintenance activities (due to standardized coding and configuration, and concentration of staff expertise around a single set of products). In order to achieve the same performance on quality and efficiency, a different provider would need to replace all of the Siemens equipment and software. This would require a very large investment by the City and would result in replacement of equipment with significant lifecycle time remaining; this would also likely result in a sole source scenario for operation and maintenance of the system with the new provider.

MBE/WBE COMPLIANCE PLAN

All submissions must contain detailed information about how the proposed firm will comply with the requirements
of the City's Minority and Women Owned Business program. All submissions must include a completed C-1 and 0-1
form, which is available on the Procurement Services page on the City's intranet site. The City Department must
submit a Compliance Plan, including details about direct and indirect compliance.

Siemens plans to meet the MBE/WBE requirements under the contract as follows: MBE direct participation of 21.4%.



| OTHER |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Explain other related considerations and attach all applicable supporting documents, i.e. an approved "ITGB Form" or "Request For Individual Hire Form" |
| Not Applicable. |
| OTHER |
| |



DEPARTMENT OF PROCUREMENT SERVICES NON-COMPETITIVE REVIEW BOARD (NCRB) APPLICATION INSTRUCTIONS FOR NON-COMPETITIVE PROCUREMENT APPLICATION

INSTRUCTIONS FOR PREPARATION OF NON-COMPETITIVE PROCUREMENT APPLICATION

If a City Department has determined that the purchase of supplies, equipment, work and/or services cannot be done on a competitive basis, a justification must be prepared on this "Justification for Non-Competitive Procurement Application" in which procurement is requested on a or non-competitive basis in accordance with 65 ILCS 5/8-10-4 of the Illinois Compiled Statutes. Using this instruction sheet, all applicable information must be addressed on the worksheet. The information provided must be complete and in sufficient detail to allow for a decision to be made by the Non-Competitive Procurement Review Board. For Amendments, Modifications, describe in detail the change in terms of dollars, time period, scope of services, etc., its relationship to the original contract and the specific reasons for the change. Indicate both the original and the adjusted contract amount and/or expiration date with this change.

Attach a DPS Checklist and any other required documentation; the Board will not consider justification with incomplete information documentation or omissions.

PROCUREMENT HISTORY

- 1. Describe the requirement and how it evolved from initial planning to its present status.
- 2. Is this a first time requirement or a continuation of previous procurement from the same source? If so, explain the procurement history.
- 3. Explain attempts made to competitively bid the requirement (attach copy of sources contacted).
- 4. Describe in detail all research done to find other sources; list other cities, companies in the industry, professional organizations contacted. List periodicals and other publications used as references.
- 5. Explain future procurement objectives. Is this a one-time request or will future requests be made for doing business with the same source?
- Explain whether or not future competitive bidding is possible. If not, explain in detail.

ESTIMATED COST

- 1. What is the estimated cost for this requirement or for each contract, if multiple awards are contemplated? What is the funding source?
- 2. What is the estimated cost by fiscal year?
- 3. Explain the basis for estimating the cost and what assumptions were made and/or data used (i.e., budgeted amount, previous contract price, current catalog or cost proposal from firms solicited, engineering or in-house estimate, etc.)
- 4. Explain whether the proposed Contractor or the City has a substantial dollar investment in original design, tooling or other factors which would be duplicated at City expense if another source was considered. Describe cost savings or other measurable benefits to the City which may be achieved.
- 5. Explain what negotiation of price has occurred or will occur. Detail why the estimated cost is deemed reasonable.

SCHEDULE REQUIREMENTS

- 1. Explain how the schedule was developed and at what point the specific dates were known.
- 2. Is lack of drawings and/or specifications a constraining factor to competitive bidding? If so, why is the proposed Contractor the only person or firm able to perform under these circumstances? Why are the drawings and specifications lacking? What is the lead time required to get drawings and specifications suitable for competition? If lack of drawings and specifications is not a constraining factor to competitive bidding, explain why only one person or firm can meet the required schedule.
- 3. Outline the required schedule by delivery or completion dates and explain the reasons why the schedule is critical.
- 4. Describe in detail what impact delays for competitive bidding would have on City operations, programs, costs and budgeted funds.

EXCLUSIVE OR UNIQUE CAPABILITY

- If contemplating hirring a person or firm as a Professional Service Consultant, explain in detail what professional skills, expertise, qualifications, and/or other factors make this person or firm exclusively or uniquely qualified for the project. Attach a copy of the cost proposal, scope of services, and <u>Temporary Consulting Services Form.</u>
- 2. Does the proposed firm have personnel considered unquestionably predominant in the particular field?
- 3. What prior experiences of a highly specialized nature does the person or firm exclusively possess that is vital to the job, project or program?
- 4. What technical facilities or test equipment does the person or firm exclusively possess of a highly specialized nature which is vital to the job?
- 5. What other capabilities and/or capacity does the proposed firm possess which is necessary for the specific job, project or program which makes them the only source who can perform the work within the required time schedule without unreasonable costs to the City?
- 6. If procuring products or equipment, describe the intended use and explain any exclusive or unique capabilities, features and/or functions the items have which no other brands or models, possess. Is compatibility with existing equipment critical from an operational standpoint? If so, provide detailed explanation?
- 7. Is competition precluded because of the existence of patent rights, copyrights, trade secrets, technical data, or other proprietary data (attach documentation verifying such)?
- 8. If procuring replacement parts and/or maintenance services, explain whether or not replacement parts and/or services can be obtained from any other sources? If not, is the proposed firm the only authorized or exclusive dealer/distributor and/or service center? If so, attach letter from manufacturer on company letterhead.

MBE/WBE COMPLIANCE PLAN

* All submissions must contain detailed information about how the proposed firm will comply with the requirements of the City's Minority and Women Owned Business program. All submissions must include a completed C-1 and D-1 form, which is available on the Procurement Services page on the City's intranet site. The City Department must submit a Compliance Plan, including details about direct and indirect compliance.

OTHER

1. Explain other related considerations and attach all applicable supporting documents, i.e., an approved "ITGB Form" or "Request For Individual Hire Form".

REVIEW AND APPROVAL

This application must be signed by both Originator of the request and signed by the Department Head. After review and final disposition from the Board, this application will be signed by the Board Chairman. After review and final disposition from the Board, this form will be presented to the Chief Procurement Officer recommending approval.

Department of Procurement Services Project Checklist

Attach required forms for each procurement type and detailed scope of services and/or specifications and forward original documents to City Hall, Room 806, Attention: Chief Procurement Officer.

For blanket agreements, original or lead department must consult with other potential departments who may want to participate on the blanket agreement. If grant funded, attach copy of the approved grant application and other terms and conditions of the funding source. Note: 1) Funding: Attach information if multiple funding lines; 2) Individual Contract Services: Include approval form signed by Department Head and OBM; 3) ITGB: IT project valued at \$100,000.00 or more, attach approval transmittal sheet.

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Commissioner's Letter to Procurement



CHICAGO DEPARTMENT OF AVIATION CITY OF CHICAGO

To:

Jamie L. Rhee

Chief Procurement Officer

Attention:

James McIsaac

Deputy Procurement Officer

From:

Rosemarie S. Andolino

Commissioner

Subject:

Request for New Non Competitive Procurement Contract

Maintenance of the Supervisory Monitoring System (SMS) and

the Fire Alarm System (FAS) Expiring PO Number: 12752

Expiring Specification Number: 29817

Current Expiration: 12/31/2013 Current Vendor: Siemens

The Chicago Department of Aviation (CDA) requests approval and assistance in awarding a five (5) year non-competitive procurement contract for the Maintenance of the Supervisory Monitoring System (SMS) and Fire Alarm System (FAS) at O'Hare International Airport.

The current maintenance contract for the SMS and the FAS will expire on December 31, 2013. Siemens holds the existing non-competitively procured contract and has done an exceptional job maintaining the monitors for all fire alarms, life safety alarms, and electrical and mechanical building systems throughout O'Hare International Airport for approximately twenty five (25) years.

Siemens manufactured, designed, supplied, installed, commissioned and warranted all of the existing equipment which they originally designed and installed via the RFQ/RFP process in 1988. They were among three (3) firms which submitted proposals. At that time they were known as Landis & Staefa. They have maintained the system on a non-competitive procurement contract basis since then. The primary hardware components of the SMS and FAS are either manufactured by, or designed by and manufactured specifically for, Siemens. The SMS and FAS and software used are proprietary to Siemens and they do not license any third party vendors to maintain their equipment.

The operating system cannot be maintained by anyone other than Siemens due to its proprietary nature. However, when components such as air handling units are added to the system, any manufacturer's operating controls can be used, so long as there is an "open protocol communication" installed which translates the other manufacturers language to Siemens language and vice versa. The CDA believes that competitive bidding may be possible for future procurement cycles if the industry evolves to full standardization around open-protocol technologies. This is partly an issue of the network infrastructure on which the systems are built, and partly an issue of the coding required for devices to communicate with the front-end management software and the related configuration of the front-end software.

The CDA has invested in open-protocol network infrastructure (BACNet) to link devices across the systems. Due the scale and complexity of the systems, the full network is not currently open-protocol and additional investment is required to complete the conversion. While it is theoretically possible for devices from one manufacturer to communicate across an open-protocol network with front-end management software from a different provider, this requires custom coding and configuration, potentially reducing the effectiveness of the system and increasing the cost of implementation. It is extremely rare for building automation or fire alarm systems to contain front-end management software from a different manufacturer than the device hardware manufacturer. The CDA plans to continue to invest in open-protocol network infrastructure so that when the technology evolves to the point where it is practical to efficiently operate a multi-provider system, the CDA will be in a position to seek competitive bids from qualified firms.

In the meantime, the CDA believes the best value can be achieved by building on the significant investment to date in Siemens hardware and software and continuing to standardize around Siemens products.

The goal of the CDA is to have a BACNet compatible system installed which can run on the City network. The CDA has updated approximately 200 of the 500 panels in Terminals 1-3 and various other buildings to BACNet or BACNet ready and when the City network fiber is available, the equipment will be put on the City network.

With this proposal, Siemens, for the next five years, will replace the remaining 300 panels (5 per month) and have the entire system operated with BACNet panels. This will allow all the panels to be on the City network when and where the City network fiber is available. By being on the City network, the system will run faster and be a non-proprietary BACNet system. This will allow other BACNet products to be put on the same network with the Siemens panels and viewed through one Graphical Interface, which has already been installed at O'Hare.

Until such time that we have a much higher percentage of an open protocol system, it would be virtually impossible to competitively bid this contract. It is technologically impossible at this time to have an "open protocol system" between the Siemens operating system and another manufacturer's operating system that would allow other manufacturers to maintain the Supervisory Monitoring System. With respect to fostering competition, it would require installing a completely new system at a cost that is estimated to be approximately \$20 million dollars. Even in that scenario it is likely the selected vendor would end up in a non-competitive procurement situation for maintaining the new system.

Type of Procurement: Non-Competitive

Contract Duration: Five (5) Years + 181 days

Estimated Annual Costs:

| | Yr1 | Yr2 | Yr3 | Yr4 | Yr5 | Totals |
|---------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Monthly Fees | 249,474.00 | 254,463.48 | 262,097.38 | 269,960.31 | 278,059.12 | |
| Yearly Fees | 2,993,688.00 | 3,053,561.76 | 3,145,168.61 | 3,239,523.67 | 3,336,709.38 | 15,768,651.43 |
| Special Projects/Year* | 250,000.00 | 250,000.00 | 250,000.00 | 250,000.00 | 250,000.00 | 1,250,000.00 |
| Budget | 3,243,688.00 | 3,303,561.76 | 3,395,168.61 | 3,489,523.67 | 3,586,709.38 | 17,018,651.43 |

^{(*) =} Based on time and material – Projects are performed at the discretion of CDA. Vendor will only be paid for services requested by CDA.

The cost was based on the current contact taking into account the additional work which we are requesting to move to the open protocol BACNet and to allow for additional projects that will be performed at the CDA's discretion.

Line 1 of the contract, PREVENTATIVE & MONITORING LABOR, PARTS, MATERIAL, is within the current monthly average that the CDA is paying now; however for this new request we are including the installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year at no additional cost. The panels cost from \$10,000 to \$17,000 each installed.

The yearly increase is capped at 2% for year two and 3% thereafter. It is a fully loaded monthly maintenance price that covers all labor and materials on a 24/7 basis thus limiting CDA's exposure to unexpected maintenance expenses. Current contract is Time & Material which could result in considerable unanticipated costs if the system should incur large failures/breakdowns.

The rest of the labor lines (Lines 2 -25) that may be used for CDA special projects are the current 2013 contract rate with a 2% increase for the first year, 2% increase for the second year and 3% increase thereafter. Contractor's parts are discounted at 52% from the catalog prices; under the current contract the parts are discounted at 50%. Non-Contractor's parts are marked up at 10% above cost; under the current contract these parts are marked up at 12%. Subcontracting services are marked up at 10%; under the current contract the markup is 10% plus 5% administrative costs.

Funding: 740-85-4035-0162-0162

User Contact: A Lea a Abder R. Messar
User Deputy: Paul W. Brown Phone: 773-686-2370

Phone: 773-686-4604

The following CDA employees participated in drafting the Specifications and/or negotiating with the Contractor:

Abder Messar

Manager, O'Hare Maintenance Control Center

Dominic Henry

Assistant Chief Engineer

Paul Brown

Deputy Commissioner

David Bowman

Supervisor of Contracts

Date $\frac{6/24/13}{24/13}$

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CITY OF CHICAGO PURCHASE REQUISITION

Copy (Department)

DELIVER TO:

221

FACILITIES DIVISION
P.O. BOX 66142
CHICAGO, IL 60666

REQUISITION: 84675

PAGE: 1
DEPARTMENT: 85 - DEPT OF AVIATION
PREPARER: James F Hankin
NEEDED:
APPROVED: 9/16/2013

REQUISITION DESCRIPTION

REQUEST FOR NEW NON-COMPETITIVE BID BLANKET CONTRACT FOR PREVENTATIVE MAINT, TRAINING AND SOFTWARE SUPPORT SERVICES FOR THE SMS 600 FOR O'HARE INT'L AIRPORT WITH SIEMENS INDUSTRY, INC. CONTRACT TERM 5 YEARS PLUS 181 DAY EXTENSION OPTION

SPECIFICATION NUMBER: 118417

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CITY OF CHICAGO PURCHASE REQUISITION

Copy (Department)

DELIVER TO:

FACILITIES DIVISION P.O. BOX 66142 CHICAGO, IL 60666

REQUISITION: 84675

PAGE:

DEPARTMENT: 85 - DEPT OF AVIATION

PREPARER:

James F Hankin

NEEDED:

APPROVED:

9/16/2013

REQUISITION DESCRIPTION

REQUEST FOR NEW NON-COMPETITIVE BID BLANKET CONTRACT FOR PREVENTATIVE MAINT, TRAINING AND SOFTWARE SUPPORT SERVICES FOR THE SMS 600 FOR O'HARE INT'L AIRPORT WITH SIEMENS INDUSTRY, INC. CONTRACT TERM 5 YEARS PLUS 181 DAY **EXTENSION OPTION**

SPECIFICATION NUMBER: 118417

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| LINE 8 | ITEM 9381746206 | 3 | | | | | | | NTITY | | INIT COST | TOTAL COST |
| | 9381746206 | - | ONTROLL | LING, INDICAT | ING REC | ORDING E | QUIPME | QUA | NTITY 50.00 | UOM U | INIT COST 0.00 | |
| | 9381746206 | NCE, CC | | LING, INDICAT | ING REC | ORDING E | QUIPME | QUA | NTITY 50.00 SMS / BAS | UOM U | O.00 | TOTAL COST |
| | 9381746206 MAINTENA | NCE, CC | | LING, INDICAT | ING REC | ORDING E | QUIPME | QUA NT - LABOR, S | NTITY 50.00 SMS / BAS | UOM U Hour ELECTRIC James F Ha | O.00 O.00 AL | TOTAL COST |
| | 9381746206 MAINTENA SUGGESTE | NCE, CO | OR: | | | | | QUA NT - LABOR, S REQUESTE | NTITY 50.00 SMS / BAS | UOM U Hour ELECTRIC James F Ha | O.00 O.00 AL | TOTAL COST 0.00 |

PU079G_Pre-Appd_Req_DPS_Schedul ed_Dept_Burst_APSRPT.rep Page 3 of 7 Run 12/20/11 15:36

CITY OF CHICAGO PURCHASE REQUISITION

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DELIVER TO:

1

FACILITIES DIVISION P.O. BOX 66142

CHICAGO, IL 60666

REQUISITION: 84675

PAGE:

AGE: 3

DEPARTMENT: 85 - DEPT OF AVIATION

PREPARER:

James F Hankin

NEEDED:

APPROVED: 9/16/2013

REQUISITION DESCRIPTION

REQUEST FOR NEW NON-COMPETITIVE BID BLANKET CONTRACT FOR PREVENTATIVE MAINT, TRAINING AND SOFTWARE SUPPORT SERVICES FOR THE SMS 600 FOR O'HARE INT'L AIRPORT WITH SIEMENS INDUSTRY, INC. CONTRACT TERM 5 YEARS PLUS 181 DAY EXTENSION OPTION

SPECIFICATION NUMBER: 118417

| COM | | | | | | | | | | | | |
|------|---------------------------------|---------------------------------|------------------------------------|--------------------------------------|------------------|--------------------|------------------|---------------------------------------------------------------------|------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------|
| | MODITY IN | FORMAT | ION | | | | | | | | | |
| LINE | ITEM | | | | | | | QUA | ANTITY | UOM | UNIT COST | TOTAL COS |
| 9 | 93817462 | :08 | | | | | | | 10.00 | Hour | 0.00 | 0.0 |
| | MAINTEN OVERTIM | IANCE, C | ONTRO | LLING, INDICA | TING RE | CORDING | EQUIPME | NT - LABOR, | SMS/BAS | S ELECTRI | CAL, | |
| | SUGGES | TED VEN | IDOR: | | | | | REQUEST | ED BY: | James F F | lankin | |
| | DIST | BFY | FUND | COST CTR | APPR | ACCNT | ACTV | PROJECT | RPT CAT | GENRI | . FUTR | Dist. Amt |
| | 1 | 013 | 0740 | 0854035 | 0162 | 220162 | 0000 | 00000000 | 000000 | 00000 | 0000 | 0.00 |
| | | | | | | | | | _ | Li | NE TOTAL: | 0.00 |
| | | | | | | | | | | | | 0.00 |
| LINE | ITEM | | | | | | | QUA | NTITY | UOM I | UNIT COST | TOTAL COST |
| 10 | 93817462 | . • | | | | | | | | Hour | 0.00 | 0.00 |
| | MAINTEN | ANCE, C | ONTROL | LING, INDICAT | TING REC | CORDING | EQUIPME | NT-LABOR, | PIPEFITTE | R | | |
| | SUGGEST | ED VEN | DOR: | | 2.72 | -225 | | REQUEST | ED BY: | James F H | ankin | |
| | DIST | BFY | FUND | COST CTR | APPR | ACCNT | ACTV | PROJECT | RPT CAT | GENRL | FUTR | Dist. Amt. |
| | 1 | 013 | 0740 | 0854035 | 0162 | 220162 | 0000 | 00000000 | 000000 | 00000 | 0000 | 0.00 |
| | | | | | | | | | | LI | NE TOTAL: | 0.00 |
| LINE | ITEM | | | | | | | QUA | NTITY | UOM (| JNIT COST | TOTAL COST |
| 11 | 938174621 | 2 | | | | | | | 10.00 | Hour | 0.00 | 0.00 |
| | MAINTEN | ANCE, C | ONTROL | LING, INDICAT | ING REC | ORDING I | QUIPME | NT - LABOR, I | PIPEFITTE | R, OVERT | | 0.00 |
| | OHOOFOT | | | | | | | | | | | |
| | SUGGEST | ED VENI | DOR: | | | | | REQUESTI | ED BY: | James F Ha | ankin | |
| | DIST | | DOR: | COST CTR | APPR | ACCNT | ACTV | REQUESTI PROJECT | | James F Ha | | Dist. Amt. |
| | | ED VENI | | COST CTR 0854035 | APPR 0162 | ACCNT 220162 | ACTV 0000 | | | GENRL | FUTR | Dist. Amt. |
| | DIST | ED VENI BFY | FUND | | | | | PROJECT | RPT CAT | GENRL 00000 | FUTR 0000 | 0.00 |
| | DIST | ED VENI BFY | FUND | | | | | PROJECT | RPT CAT | GENRL 00000 | FUTR | |
| LINE | DIST 1 | ED VENI BFY | FUND | | | | | PROJECT 00000000 | RPT CAT 000000 | GENRL 00000 LIN | FUTR 0000 | 0.00 |
| 12 | DIST 1 ITEM 938174644 | BFY 013 | FUND 0740 | 0854035 | 0162 | 220162 | 0000 | PROJECT 00000000 QUA | RPT CAT 000000 NTITY U 50.00 | GENRL 00000 Lin JOM U | FUTR 0000 IE TOTAL: | 0.00 0.00 |
| 12 | DIST 1 ITEM 938174644 | BFY 013 0 | FUND 0740 ONTROLL | 0854035 | 0162 | 220162 | 0000 | PROJECT 00000000 QUA | RPT CAT 000000 NTITY U 50.00 | GENRL 00000 Lin JOM U | FUTR 0000 SE TOTAL: | 0.00 0.00 TOTAL COST |
| 12 | DIST 1 ITEM 938174644 MAINTENA | BFY 013 0 0 NCE, CO | FUND 0740 ONTROLL ATER GE | 0854035 | 0162 | 220162 | 0000 | PROJECT 00000000 QUA | NTITY U | GENRL 00000 Lin JOM U | FUTR 0000 IE TOTAL: NIT COST 0.00 | 0.00 0.00 TOTAL COST |
| 12 | ITEM 938174644 MAINTENA | BFY 013 0 0 NCE, CO | FUND 0740 ONTROLL ATER GE | 0854035 | 0162 | 220162 | 0000 | PROJECT 00000000 QUA NT - LABOR, E | RPT CAT 000000 NTITY U 50.00 H ENGINEER | GENRL 00000 LIN JOM U Hour , HIGH | FUTR 0000 IE TOTAL: INIT COST 0.00 | 0.00 0.00 TOTAL COST 0.00 |
| | ITEM 938174644 MAINTENA TEMPERA | BFY 013 0 NOCE, COTURE W/ | FUND 0740 ONTROLL ATER GE | 0854035 LING, INDICAT ENERATOR | 0162 | 220162 ORDING E | 0000 EQUIPME! | PROJECT 00000000 QUAI NT - LABOR, E REQUESTE PROJECT | RPT CAT 000000 NTITY U 50.00 H ENGINEER | GENRL 00000 Lin JOM U Hour , HIGH | FUTR 0000 IE TOTAL: INIT COST 0.00 | 0.00 0.00 TOTAL COST |

PU079G_Pre-Appd_Req_DPS_Schedul ed_Dept_Burst_APSRPT.rep Page 4 of 7 Run 12/20/11 15:36

CITY OF CHICAGO PURCHASE REQUISITION

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DELIVER TO:

221

FACILITIES DIVISION P.O. BOX 66142 CHICAGO, IL 60666 **REQUISITION: 84675**

PAGE:

DEPARTMENT: 85 - DEPT OF AVIATION

PREPARER:

James F Hankin

NEEDED:

APPROVED:

9/16/2013

REQUISITION DESCRIPTION

REQUEST FOR NEW NON-COMPETITIVE BID BLANKET CONTRACT FOR PREVENTATIVE MAINT, TRAINING AND SOFTWARE SUPPORT SERVICES FOR THE SMS 600 FOR O'HARE INT'L AIRPORT WITH SIEMENS INDUSTRY, INC. CONTRACT TERM 5 YEARS PLUS 181 DAY EXTENSION OPTION

SPECIFICATION NUMBER: 118417

| LINE | ITEM | | | | | | | QU | ANTITY | UOM | UNIT COST | TOTAL COST |
|------------|------------------------------------------------------|-----------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|--------------|---------------------------------------------|-------------------------------------------------|--------------------------------------------------------------|------------------------------------------|--------------------------------------------------|
| 13 | 93817464 | 42 | | | | | | | 10.00 | Hour | 0.00 | 0.00 |
| | MAINTEN TEMPER | IANCE, C ATURE W | ONTROI | LING, INDICA ENERATOR, C | TING RED | CORDING E | EQUIPME | NT - LABOR | ENGINEE | R, HIGH | 0.00 | 0.00 |
| | SUGGES | TED VEN | IDOR: | | | | | REQUEST | ED BY: | James F H | ankin | |
| | DIST | BFY | FUND | COST CTR | APPR | ACCNT | ACTV | PROJECT | RPT CA | T GENRL | FUTR | Dist. Amt. |
| | 1 | 013 | 0740 | 0854035 | 0162 | 220162 | 0000 | 00000000 | 000000 | 00000 | 0000 | 0.00 |
| | | | | | | | | | | LI | NE TOTAL: | 0.00 |
| LINE | ITEM | | | | | | | QUA | NTITY | UOM (| JNIT COST | TOTAL COST |
| 14 | 93817464 | 64 | | | | | | | 50.00 | Hour | 0.00 | 0.00 |
| | MAINTEN | ANCE, C | ONTROL | LING, INDICAT | TING REC | CORDING | EQUIPME | NT - LABOR, | SPECIALI | ST, FIRE S | YSTEM | 3.33 |
| | SUGGEST | TED VEN | DOR: | | | | | REQUEST | ED BY: | James F H | ankin | |
| | DIST | BFY | FUND | COST CTR | APPR | ACCNT | ACTV | PROJECT | RPT CAT | T GENRL | FUTR | Dist. Amt. |
| | 1 | 013 | 0740 | 0854035 | 0162 | 220162 | 0000 | 00000000 | 000000 | 00000 | 0000 | 0.00 |
| | | | | | | | | | | LIP | IE TOTAL: | 0.00 |
| LINE | ITEM | - | | | - | | | QUA | NTITY | UOM L | INIT COST | TOTAL COST |
| 15 | 938174646 | 88 | | | | | | | 10.00 | Hour | 0.00 | 0.00 |
| | | | | | | | | | | | | |
| | OVERTIMI | ANCE, CO E | ONTROL | LING, INDICAT | ING REC | ORDING I | EQUIPMEI | NT - LABOR, | SPECIALIS | ST, FIRE SY | STEM, | 0.00 |
| | MAINTEN/ OVERTIMI SUGGEST | E | | LING, INDICAT | ING REC | ORDING I | EQUIPMEI | NT - LABOR, | | ST, FIRE SY James F Ha | - | |
| | OVERTIM | E | | LING, INDICAT | ING REC | ACCNT | ACTV | | ED BY: | James F Ha | ankin | |
| | SUGGEST | ED VENI | DOR: | | - | | | REQUEST | ED BY: | James F Ha | ınkin | Dist. Amt. |
| | SUGGEST | ED VENI BFY | DOR: | COST CTR | APPR | ACCNT | ACTV | REQUEST | ED BY: | James F Ha GENRL 00000 | ankin FUTR | |
| LINE | SUGGEST | ED VENI BFY | DOR: | COST CTR | APPR | ACCNT | ACTV | PROJECT 00000000 | ED BY: RPT CAT 000000 | James F Ha GENRL 00000 LIN | FUTR 0000 E TOTAL: | Dist. Amt. 0.00 0.00 |
| LINE 16 | SUGGEST DIST 1 | ED VENI BFY 013 | DOR: | COST CTR | APPR | ACCNT | ACTV | PROJECT 00000000 | ED BY: RPT CAT 000000 | James F Ha GENRL 00000 LIN | FUTR 0000 | Dist. Amt. 0.00 0.00 TOTAL COST |
| | SUGGEST DIST 1 ITEM 938174621 | ED VENI BFY 013 | FUND 0740 | COST CTR 0854035 | APPR 0162 | ACCNT 220162 | ACTV 0000 | PROJECT 00000000 | ED BY: RPT CAT 000000 NTITY 50.00 | James F Ha GENRL 00000 LIN UOM U Hour | FUTR 0000 IE TOTAL: NIT COST 0.00 | Dist. Amt. 0.00 0.00 |
| | SUGGEST DIST 1 ITEM 938174621 | BFY 013 | FUND 0740 | COST CTR | APPR 0162 | ACCNT 220162 | ACTV 0000 | PROJECT 00000000 | ED BY: RPT CAT 000000 NTITY 50.00 ELECTRIC | James F Ha GENRL 00000 LIN UOM U Hour | FUTR 0000 IE TOTAL: NIT COST 0.00 YSTEMS | Dist. Amt. 0.00 0.00 TOTAL COST |
| | SUGGEST DIST 1 ITEM 938174621 MAINTENA | BFY 013 | FUND 0740 | COST CTR 0854035 | APPR 0162 | ACCNT 220162 | ACTV 0000 | PROJECT 00000000 QUA | ED BY: RPT CAT 000000 NTITY 50.00 ELECTRIC | James F Ha GENRL 00000 LIN UOM U Hour AL, FIRE S' James F Ha | FUTR 0000 SE TOTAL: NIT COST 0.00 YSTEMS | Dist. Amt. 0.00 0.00 TOTAL COST 0.00 |
| | SUGGEST DIST 1 ITEM 938174621 MAINTENA SUGGEST | BFY 013 4 ANCE, CO | FUND 0740 ONTROLL | COST CTR 0854035 | APPR 0162 ING REC | ACCNT 220162 ORDING E | ACTV 0000 | PROJECT 00000000 QUA IT - LABOR, I | ED BY: RPT CAT 000000 NTITY 50.00 ELECTRIC | James F Ha GENRL 00000 LIN UOM U Hour AL, FIRE S' James F Ha | FUTR 0000 SE TOTAL: NIT COST 0.00 YSTEMS | Dist. Amt. 0.00 0.00 TOTAL COST |

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CITY OF CHICAGO PURCHASE REQUISITION

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DELIVER TO:

221

FACILITIES DIVISION P.O. BOX 66142 CHICAGO, IL 60666 **REQUISITION: 84675**

PAGE:

3E: 5

DEPARTMENT: 85 - DEPT OF AVIATION

PREPARER:

James F Hankin

NEEDED:

APPROVED:

9/16/2013

REQUISITION DESCRIPTION

REQUEST FOR NEW NON-COMPETITIVE BID BLANKET CONTRACT FOR PREVENTATIVE MAINT, TRAINING AND SOFTWARE SUPPORT SERVICES FOR THE SMS 600 FOR O'HARE INT'L AIRPORT WITH SIEMENS INDUSTRY, INC. CONTRACT TERM 5 YEARS PLUS 181 DAY EXTENSION OPTION

SPECIFICATION NUMBER: 118417

| | ITEM | | | | | | | QUA | YTITM | UOM | UNIT COST | TOTAL COST |
|------------|----------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------|------------------------------------------|-------------------------|-----------------------------|--------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------|--------------------------------------|
| 17 | 938174621 | 16 | | | | | | | 10.00 | Hour | 0.00 | 0.00 |
| | MAINTEN/ OVERTIMI | ANCE, C E | ONTRO | LLING, INDICA | TING RE | CORDING | EQUIPME | ENT - LABOR, | ELECTRIC | CAL, FIRE | SYSTEMS, | 0.00 |
| | SUGGEST | ED VEN | DOR: | 200 | | | | REQUEST | EDBY: | James F H | lankin | |
| | DIST | BFY | FUND | COST CTR | APPR | ACCNT | ACTV | PROJECT | RPT CAT | Γ GENRI | FUTR | Dist. Amt. |
| | 1 | 013 | 0740 | 0854035 | 0162 | 220162 | 0000 | 00000000 | 000000 | 00000 | 0000 | 0.00 |
| | | | | | | | | | | LI | NE TOTAL: | 0.00 |
| LINE | ITEM | | | | 1778/L2-02-03- | | | QUA | NTITY | UOM | UNIT COST | TOTAL COST |
| 18 | 938174621 | | | | | | | | 50.00 | Hour | 0.00 | 0.00 |
| | MAINTENA SPECIALIS | NCE, C ST, FIRE | ONTROL SYSTEM | LING, INDICA ⁻ 1S | TING REC | CORDING | EQUIPME | NT - LABOR, | TESTING | INSPECT | ION | |
| | SUGGEST | ED VEN | DOR: | | | | | REQUEST | ED BY: | James F H | ankin | |
| | DIST | BFY | FUND | COST CTR | APPR | ACCNT | ACTV | PROJECT | RPT CAT | GENRL | FUTR | Dist. Amt. |
| | 1 | 013 | 0740 | 0854035 | 0162 | 220162 | 0000 | 00000000 | 000000 | 00000 | 0000 | 0.00 |
| | | | | | | | | | | 1.0 | NE TOTAL: | 0.00 |
| | | | | | | | | | | LII | WE TOTAL: | 0.00 |
| LINE | ITEM | | | | | | | QUA | NTITY | | JNIT COST | TOTAL COST |
| LINE 19 | 9381746220 | - | · | 7.112 | | | | | 10.00 | UOM (| JNIT COST 0.00 | |
| | 9381746220 MAINTENA | NCE, CO | ONTROLI SYSTEM | LING, INDICAT | ING REC | CORDING E | EQUIPME | | 10.00 | UOM (| JNIT COST 0.00 | TOTAL COST |
| | 9381746220 MAINTENA | NCE, CO | SYSTEM | LING, INDICAT IS OVERTIME | 'ING REC | CORDING E | EQUIPME | | 10.00 FESTING/ | UOM (| JNIT COST 0.00 ON | TOTAL COST |
| | 9381746220 MAINTENA SPECIALIS | NCE, CO | SYSTEM | LING, INDICAT IS OVERTIME COST CTR | ING REC | CORDING E | EQUIPME | NT - LABOR, " | 10.00 TESTING / | UOM (Hour INSPECTI James F Ha | JNIT COST 0.00 ON ankin | TOTAL COST |
| | 9381746220 MAINTENA SPECIALIS SUGGESTE | NCE, CO T, FIRE ED VENI | SYSTEM DOR: | IS OVERTIME | _ | | | NT - LABOR, | 10.00 TESTING / | UOM (Hour INSPECTI James F Ha | JNIT COST 0.00 ON ankin | TOTAL COST 0.00 Dist. Amt. |
| | 9381746220 MAINTENA SPECIALIS SUGGESTE | NCE, CO T, FIRE ED VENI BFY | SYSTEM DOR: FUND | COST CTR | APPR | ACCNT | ACTV | NT - LABOR, TREQUESTE PROJECT | 10.00 FESTING / ED BY: | Hour INSPECTI James F Ha GENRL 00000 | UNIT COST 0.00 ON ankin FUTR | TOTAL COST 0.00 |
| | 9381746220 MAINTENA SPECIALIS SUGGESTE DIST 1 | NCE, CO T, FIRE ED VENI BFY | SYSTEM DOR: FUND | COST CTR | APPR | ACCNT | ACTV | REQUESTE PROJECT 00000000 | 10.00 FESTING / ED BY: RPT CAT 000000 | Hour INSPECTI James F Ha GENRL 00000 | ON ON ENKIN OOOO | Dist. Amt. |
| 19 | 9381746220 MAINTENA SPECIALIS SUGGESTE DIST 1 | NCE, CO T, FIRE ED VENI BFY 013 | SYSTEM DOR: FUND 0740 | COST CTR 0854035 | APPR 0162 | ACCNT 220162 | ACTV 0000 | REQUESTE PROJECT 00000000 | TO.00 TESTING / ED BY: RPT CAT 000000 NTTY 50.00 | UOM U Hour INSPECTI James F Ha GENRL 00000 Lin UOM U Hour | UNIT COST 0.00 ON ankin FUTR 0000 | Dist. Amt. 0.00 0.00 |
| 19 | 9381746220 MAINTENA SPECIALIS SUGGESTE DIST 1 | NCE, CO T, FIRE ED VENI BFY 013 | SYSTEM DOR: FUND 0740 | COST CTR | APPR 0162 | ACCNT 220162 | ACTV 0000 | REQUESTE PROJECT 00000000 | TO.00 TESTING / ED BY: RPT CAT 000000 NTTY 50.00 | UOM U Hour INSPECTI James F Ha GENRL 00000 Lin UOM U Hour | ON ankin FUTR 0000 NE TOTAL: | Dist. Amt. 0.00 0.00 TOTAL COST |
| 19 | 9381746220 MAINTENA SPECIALIS SUGGESTE DIST 1 | NCE, CC T, FIRE ED VENI BFY 013 | SYSTEM DOR: FUND 0740 | COST CTR 0854035 | APPR 0162 | ACCNT 220162 | ACTV 0000 | REQUESTE PROJECT 00000000 | 10.00 FESTING / FD BY: RPT CAT 000000 NTITY 50.00 | UOM U Hour INSPECTI James F Ha GENRL 00000 Lin UOM U Hour | ON ankin FUTR 0000 SE TOTAL: UNIT COST 0.00 | Dist. Amt. 0.00 0.00 TOTAL COST |
| 19 | 9381746226 MAINTENA SPECIALIS SUGGESTE DIST 1 ITEM 9381746222 MAINTENAI | NCE, CC T, FIRE ED VENI BFY 013 | SYSTEM DOR: FUND 0740 | COST CTR 0854035 | APPR 0162 | ACCNT 220162 | ACTV 0000 | REQUESTE PROJECT 000000000 QUAR | TO.00 TESTING / | Hour INSPECTI James F Ha GENRL 00000 Lin Hour NGINEER | ON ankin FUTR 0000 NE TOTAL: UNIT COST 0.00 | Dist. Amt. 0.00 0.00 TOTAL COST |
| 19 | 9381746226 MAINTENA SPECIALIS SUGGESTE DIST 1 ITEM 9381746222 MAINTENAI SUGGESTE | NCE, CC T, FIRE ED VENI BFY 013 | SYSTEM DOR: FUND 0740 DNTROLL DOR: | COST CTR 0854035 | APPR 0162 ING REC | ACCNT 220162 ORDING E | ACTV 0000 | REQUESTE PROJECT 00000000 QUAN NT - LABOR, E REQUESTE PROJECT | TO.00 TESTING / | Hour INSPECTI James F Ha GENRL 00000 Lin Hour NGINEER James F Ha | ON ankin FUTR 0000 NE TOTAL: UNIT COST 0.00 | Dist. Amt. 0.00 0.00 TOTAL COST 0.00 |

PU079G_Pre-Appd_Req_DPS_Schedul ed_Dept_Burst_APSRPT.rep Page 6 of 7 Run 12/20/11 15:36

CITY OF CHICAGO PURCHASE REQUISITION

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DELIVER TO:

221 FACILITIES DIVISION P.O. BOX 66142

CHICAGO, IL 60666

REQUISITION: 84675

PAGE:

AGE: 6

DEPARTMENT: 85 - DEPT OF AVIATION

PREPARER:

James F Hankin

NEEDED:

APPROVED: 9/16/2013

REQUISITION DESCRIPTION

REQUEST FOR NEW NON-COMPETITIVE BID BLANKET CONTRACT FOR PREVENTATIVE MAINT, TRAINING AND SOFTWARE SUPPORT SERVICES FOR THE SMS 600 FOR O'HARE INT'L AIRPORT WITH SIEMENS INDUSTRY, INC. CONTRACT TERM 5 YEARS PLUS 181 DAY EXTENSION OPTION

SPECIFICATION NUMBER: 118417

| | ITEM | | | | | | | QUA | ANTITY | UOM | UNIT COST | TOTAL COST |
|------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------|------------------------------------------|----------------------------------|-----------------------------|------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------|
| 21 | 9381746224 | 4 | | | | | | | 10.00 | Hour | 0.00 | 0.00 |
| | MAINTENA OVERTIME | NCE, C | ONTROL | LING, INDICA | TING REC | CORDING | EQUIPME | NT - LABOR, | ENERGY | ENGINEER | ₹, | 3.30 |
| | SUGGESTE | D VEN | DOR: | | | | | REQUEST | ED BY: | James F F | lankin | |
| | DIST | BFY | FUND | COST CTR | APPR | ACCNT | ACTV | PROJECT | RPT CA | T GENRI | FUTR | Dist. Amt. |
| | 1 | 013 | 0740 | 0854035 | 0162 | 220162 | 0000 | 00000000 | 000000 | 00000 | 0000 | 0.00 |
| | | | | | | | | | | LI | NE TOTAL: | 0.00 |
| LINE | ITEM | | | | of gire | | | QUA | YTITW | UOM | UNIT COST | TOTAL COST |
| 22 | 93817.12 | | | | | | | | 000.00 cou | ant From | 0.00 | 0.00 |
| | PARTS MAN | NUFAC | TURED B | Y SIEMENS A | T A 52% | DISCOUNT | FROML | IST PRICE | | | | |
| | SUGGESTE | D VEN | DOR: | | | | | REQUEST | ED BY: | James F H | ankin | |
| | DIST | BFY | FUND | COST CTR | APPR | ACCNT | ACTV | PROJECT | RPT CAT | GENRL | FUTTR | Dist. Amt. |
| | 1 | 013 | 0740 | 0854035 | 0162 | 220162 | 0000 | 00000000 | 000000 | 00000 | 0000 | 0.00 |
| | | | | | | | | | | LII | NE TOTAL: | 0.00 |
| LINE | ITEM | | ······································ | | | | | OUA | NTITY | UOM L | JNIT COST | |
| | | | | | | | | QUA | ****** | OOM (| Mill COST | TOTAL COST |
| 23 | 93817.13 | | | | | | | 30,0 | 000.00 M | lark Up | 0.00 | TOTAL COST 0.00 |
| 23 | 93817.13 | NS MAI BY SU | NUFACTI PPLIER'S | URED PARTS S INVOICE | AND MAT | TERIALS A | T A 10% I | 30,0 | 000.00 M | lark Up | 0.00 | |
| 23 | 93817.13 NON SIEME | BYSU | PPLIER'S | URED PARTS S INVOICE | AND MAT | TERIALS A | T A 10% I | 30,0 | OM CONT | lark Up | 0.00 COST | |
| 23 | 93817.13 NON SIEME VERIFIABLE | BYSU | PPLIER'S | URED PARTS S INVOICE COST CTR | AND MAT | TERIALS A | T A 10% I | 30,0 MARK UP FR | OOO.OO MOOM CONT | lark Up RACTOR'S James F H | 0.00 COST ankin | 0.00 |
| 23 | 93817.13 NON SIEME VERIFIABLE SUGGESTEI | BY SU | PPLIER'S | SINVOICE | | | | 30,0 MARK UP FR REQUESTI | OOO.OO MOOM CONT | lark Up RACTOR'S James F H | 0.00 COST ankin | 0.00 Dist. Amt. |
| 23 | 93817.13 NON SIEME VERIFIABLE SUGGESTEI DIST | BY SU D VEND BFY | PPLIER'S OR: FUND | COST CTR | APPR | ACCNT | ACTV | 30,0 MARK UP FR REQUESTI PROJECT | OOO.OO MOOM CONT | lark Up RACTOR'S James F Ha GENRL 00000 | 0.00 COST ankin FUTR | 0.00 |
| 23 | 93817.13 NON SIEME VERIFIABLE SUGGESTEI DIST 1 | BY SU D VEND BFY | PPLIER'S OR: FUND | COST CTR | APPR | ACCNT | ACTV | 30,0 MARK UP FR REQUESTI PROJECT 00000000 | OOO.OO M OM CONT ED BY: RPT CAT OOOOOO | lark Up RACTOR'S James F Ha GENRL 00000 LIN | 0.00 COST ankin FUTR 0000 | 0.00 Dist. Amt. 0.00 |
| 23 | 93817.13 NON SIEME VERIFIABLE SUGGESTEI DIST 1 | BY SU D VEND BFY | PPLIER'S OR: FUND | COST CTR | APPR | ACCNT | ACTV | 30,0 MARK UP FR REQUESTI PROJECT 000000000 | O00.00 M OM CONTI | lark Up RACTOR'S James F Ha GENRL 00000 LIN | 0.00 COST ankin FUTR 0000 IE TOTAL: | 0.00 Dist. Amt. 0.00 0.00 TOTAL COST |
| LINE | 93817.13 NON SIEME VERIFIABLE SUGGESTEI DIST 1 ITEM 9381746226 MAINTENAN | BY SU D VENE BFY 013 | PPLIER'S POR: FUND 0740 ONTROLL | COST CTR | APPR 0162 | ACCNT 220162 | ACTV 0000 | 30,0 MARK UP FR REQUESTE PROJECT 000000000 | OOO.OO MOM CONTI | lark Up RACTOR'S James F Ha GENRL 00000 LIN UOM U Hour | 0.00 COST ankin FUTR 0000 IE TOTAL: UNIT COST 0.00 | 0.00 Dist. Amt. 0.00 0.00 |
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CITY OF CHICAGO PURCHASE REQUISITION

Copy (Department)

DELIVER TO:

221

FACILITIES DIVISION P.O. BOX 66142 CHICAGO, IL 60666 **REQUISITION: 84675**

PAGE:

DEPARTMENT: 85 - DEPT OF AVIATION

PREPARER:

James F Hankin

NEEDED:

APPROVED: 9/16/2013

REQUISITION DESCRIPTION

REQUEST FOR NEW NON-COMPETITIVE BID BLANKET CONTRACT FOR PREVENTATIVE MAINT, TRAINING AND SOFTWARE SUPPORT SERVICES FOR THE SMS 600 FOR O'HARE INT'L AIRPORT WITH SIEMENS INDUSTRY, INC. CONTRACT TERM 5 YEARS PLUS 181 DAY EXTENSION OPTION

SPECIFICATION NUMBER: 118417

COMMODITY INFORMATION

| LINE | ITEM | | | | | | | QUA | NTITY | UOM | UNIT COST | TOTAL COST | |
|------|--------------------------------------------------------------------------------------|-----|------|----------|------|--------|------|----------|--------|----------|-------------|------------|--|
| 25 | 93817.14 | | | | | | | 100, | 00.00 | Mark Up | 0.00 | 0.00 | |
| | SUBCONTRACTOR SERVICES AT CONTRACTOR'S COST PLUS 10% CONTRACT ADMINISTRATION MARK UP | | | | | | | | | | 0.00 | | |
| | SUGGESTED VENDOR: REQUESTED BY: James F Hankin | | | | | | | | ankin | | | | |
| | DIST | BFY | FUND | COST CTR | APPR | ACCNT | ACTV | PROJECT | RPT C | AT GENRL | FUTR | Dist. Amt. | |
| | 1 | 013 | 0740 | 0854035 | 0162 | 220162 | 0000 | 00000000 | 000000 | 00000 | 0000 | 0.00 | |
| | | | | | | | | | | Li | LINE TOTAL: | | |

REQUISITION TOTAL:

0.00

Siemens Certificate of Insurance



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 09/24/2012

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(les) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

| PRODUCER MARSH USA, INC. 445 SOUTH STREET MORRISTOWN, NJ 07960-6454 | CONTACT NAME: PHONE (A/C, No. Ext): E-MAIL ADDRESS: | AME: HONE A/C, No, Ext): HAJI. (A/C, No): | | | | |
|---------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|--|--|--|--|
| | INSURER(S) AFFORDING COVERAGE | NAIC# | | | | |
| 100129-6-7BA-SBT1-12/13 220 KMETY | INSURER A: HDI-Gerling America Insurance Company | 41343 | | | | |
| INSURED SIEMENS INDUSTRY, INC. INCLUDING | INSURER B: Liberty Mutual Fire Ins Co | 23035 | | | | |
| BUILDING TECHNOLOGIES DIVISION | INSURER C: LM Insurance Corporation | 33600 | | | | |
| 1000 DEERFIELD PARKWAY BUFFALO GROVE, IL 60089-4513 | INSURER D: | | | | | |
| BOTTALO GROVE, IL 00000-4010 | INSURER E: | | | | | |
| | INSURER F: | | | | | |
| COVERAGES CERTIFICATE NUMBER. | ANC COCCOCCA 22 | | | | | |

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SLICH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. | | | | | | | | |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------|------------------------------|----------------------------|----------------------------|-------------------------------------------|-----|------------|
| INSR LTR | TYPE OF INSURANCE | addl su Insr W | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMIT | | |
| Α | GENERAL LIABILITY | | GLD1110104 | 10/01/2012 | 10/01/2013 | EACH OCCURRENCE | \$ | 1,000,000 |
| | X COMMERCIAL GENERAL LIABILITY | | | | | DAMAGE TO RENTED PREMISES (Ea occurrence) | \$ | 1,000,000 |
| | CLAIMS-MADE X OCCUR | | | | | MED EXP (Any one person) | \$ | 100,000 |
| | | | | | | PERSONAL & ADV INJURY | \$ | 1,000,000 |
| | | | | | | GENERAL AGGREGATE | \$: | 10,000,000 |
| 1 | GEN'L AGGREGATE LIMIT APPLIES PER: | | | | | PRODUCTS - COMP/OP AGG | \$ | INCL |
| Ĺ | X POLICY PRO- JECT LOC | | | | | | \$ | |
| В | AUTOMOBILE LIABILITY | | AS2631004334212 | 10/01/2012 | 10/01/2013 | COMBINED SINGLE LIMIT (Ea accident) | \$ | 2,000,000 |
| | X ANY AUTO | | | | | BODILY INJURY (Per person) | \$ | N/A |
| | X ALL OWNED SCHEDULED AUTOS | İ | | | | BODILY INJURY (Per accident) | \$ | N/A |
| | X HIRED AUTOS X NON-OWNED AUTOS | | | | | PROPERTY DAMAGE (Per accident) | \$ | N/A |
| | | | | | | | \$ | |
| Α | X UMBRELLA LIAB X OCCUR | | CUD1110204 | 10/01/2012 | 10/01/2013 | EACH OCCURRENCE | \$ | 5,000,000 |
| | EXCESS LIAB CLAIMS-MADE | | | | | AGGREGATE | \$ | 5,000,000 |
| | DED RETENTION\$ | | | | | | \$ | |
| С | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | WA563D004334012 (AOS) | 10/01/2012 | 10/01/2013 | X WC STATU- OTH- TORY LIMITS ER | | |
| С | ANY PROPRIETOR/PARTNER/EXECUTIVE | N/A | WC5631004334022 (OR, WI) | 10/01/2012 | 10/01/2013 | E.L. EACH ACCIDENT | \$ | 1,000,000 |
| С | (Mandatory in NH) | N/A | EW563N004334422 (OH) | 10/01/2012 | 10/01/2013 | E.L. DISEASE - EA EMPLOYEE | \$ | 1,000,000 |
| | If yes, describe under DESCRIPTION OF OPERATIONS below | | "\\$500K LIMIT / \$500K SIR" | | | E.L. DISEASE - POLICY LIMIT | \$ | 1,000,000 |
| | | | | | | | | |
| | | | | 1 | : | | | |
| | | | | | | | | |
| | | | | | | | | |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, If more space is required)

RE: JOB NO N/A

SEE ATTACHED

| CERTIFICATE HOLDER | CANCELLATION | | | | | |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| CITY OF CHICAGO - AIRPORT OPERATIONS RESOURCES ATTN: R. SMITH P.O. BOX 66551 - AMF/O'HARE INTERNATIONAL AIRPORT | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. | | | | | |
| CHICAGO, IL 60666 | AUTHORIZED REPRESENTATIVE of Marsh USA Inc. | | | | | |
| | Manashi Mukherjee Manashi Mukherjee | | | | | |

AGENCY CUSTOMER ID: 100129

LOC #: Morristown



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

| AGENCY MARSH USA, INC. | 0 | NAMED INSURED SIEMENS INDUSTRY, INC. INCLUDING BUILDING TECHNOLOGIES DIVISION 1000 DEERFIELD PARKWAY BUFFALO GROVE, IL 60089-4513 | | | |
|------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| POLICY NUMBER | | | | | |
| CARRIER | NAIC CODE | 1 | | | |
| | | EFFECTIVE DATE: | | | |
| ADDITIONAL DEMARKS | | | | | |

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM, FORM TITLE: Certificate of Liability Insurance 25 FORM NUMBER: _

RE: JOB NO N/A

CITY OF CHICAGO IS INCLUDED AS ADDITIONAL INSURED UNDER THE ABOVE REFERENCED GENERAL LIABILITY AND AUTOMOBILE LIABILITY INSURANCE POLICIES AND THE COVERAGE AFFORDED THE ADDITIONAL INSURED UNDER THESE POLICIES SHALL BE PRIMARY AND NON-CONTRIBUTORY INSURANCE TO THE EXTENT THAT A CLAIM ARISES FROM THE NEGLIGENCE OF SIEMENS INDUSTRY, INC. OR ITS SUBCONTRACTORS WITH RESPECT TO ALL OPERATIONS OF THE INSURED BUT ONLY WITH RESPECT TO ALL WORK PERFORMED BY AND ON BEHALF OF THE NAMED INSURED, SIEMENS INDUSTRY, INC. FOR CERTIFICATE HOLDER UNDER CONTRACT.

Siemens Sole Source Contract Justification Letter

Industry

DOA Chicago O'Hare Airport 10510 West Zemke Road Chicago, IL 60666 Attn: Paul Brown and Abder Messar

Subject: O'Hare SMS and Fire Sole Source Contract with Siemens Industry, Inc.

Paul and Abder,

Siemens manufactures the panels that are installed at O'Hare and uses a company owned branch service network to maintain and upgrade the panels we sell. The local Siemens branch has over 300 people on staff to service the automation at O'Hare. This depth of personnel insures that no matter what might happen Siemens will have the manpower to keep the airport Building Automation System running and controlling. Siemens offers a Comprehensive program which covers all PM labor, R&R labor, Materials and panel upgrades and can be done over 5 years which allows for CDA to manage their Building Automation and Fire System asset within the budget allotted.

The Building Automation System installed at O'Hare is currently made up of a variety of Bacnet and non-Bacnet panels. Once this contract is complete at the end of 5 years the entire system will be Bacnet compliant. This means that the panels installed will reside on the City Ethernet and as new equipment is brought on line it will be able to reside on this same network. There are 300 panels that need to be upgraded to Bacnet, over 250 have already been done.

Time is of the essence when an alarm or malfunction happens at O'Hare, because Siemens has written all the code for the operation of the Heating, Ventilating, Air Conditioning and Fire Systems we are best to maintain these systems. By having Siemens augment the City employees at the airport you can be assured you are receiving the most experienced team on how the system was put together and how the system should function.

The following points will show you the background and makeup of the Siemens proposal:

- 9 fulltime technicians, electricians, pipefitters and software professionals on site.
- Technicians have a minimum of 4 weeks factory training and 1-2 weeks of additional training per year.
- Branch location less than 10 miles from site with 300 Siemens employees
- Siemens US Home office 15 miles from site with complete staff to problem solve any situation.

Industry

- Factory and warehouse located at US Home Office with tens of millions of dollars worth of product used at O'Hare.
- A seven year track record of getting the job done with high satisfaction of owner.
- Siemens pro actively upgraded 250 panels to Bacnet during the current contract to meet the goals of the CDA.
- Siemens worked with the IT provider at the airport to put the Building Automation system on the City Network for more speed and ease of use by airport personnel.
- Factory type training has been performed on a regular basis for current and new personnel to make them more familiar with the Automation system..
- Siemens has a Forward Migration Program which has allowed the newest Bacnet products by Siemens to be put on the same system as retired products. This Program allows the migration to a complete Bacnet system to happen over 5 years with no more money spent than regular maintenance. This is due to the fact that the panels are replaced as they fail or construction takes place where the panels are located.
- At the end of the 5 year contract, the O'Hare system will be as current as any system installed by us at that time.
- Siemens offers complete Asset Management of the entire Building Automation and Fire System for a fixed yearly cost.
- Siemens Software Proprietary Tools which are used by Technicians to maintain, enhance and start up Fire and SMS Building Automation.
- R&D program where the newest software and hardware is installed and verified at O'Hare at no additional cost.

Best regards,

Jim Bator

O'Hare Account Manager

Siemens Industry, Inc.

Cell:847-561-7555

Office:847-493-7708

Tel: +1 847 803-2700

Industry

July 1, 2013

DOA Chicago O'Hare Airport 10510 West Zemke Road Chicago, IL 60666

RE: O'Hare SMS and Fire Sole Source Contract with Siemens

Attention: Paul Brown and Abder Messar,

Starting in 1990 Siemens has been providing Building Automation Products and Services (Building Automation and Energy Management (BMS) for O'Hare Airport. The BMS includes direct digital control automation panels, sensors, valves and actuators for the mechanical and electrical systems. BMS controls and monitors the chilled water, steam and hot water, and air handling systems that are vital to keeping the public, air travelers and airline workers both comfortable and safe. Also, the BMS monitors critical equipment and infrastructure in the H&R plant and passenger terminals.

Currently, O'Hare airport has installed since 1990 over 500 direct digital control panels that control and monitor the critical mechanical and electrical systems infrastructure. At that time the building automation industry incorporated proprietary communication methods into the each manufacturer's system. DDC products from a given manufacturer could not operate within a single system with other manufacturer's products, interoperability. Although, it did make sense to standardize on a common BMS platform for the following reasons: common interface, training, inventory, consistency on Airport standards. If multiple manufacturers were installed at O'Hare, we would have to duplicate all of above. This would make it very challenging for O'Hare Operations & Maintenance department to be knowledgeable on multiple systems and effectively monitor and maintain BMS system. At that time this was not cost effective solution.

Now with the maturity of the ASHRAE standard BACnet and "Open Systems" ie interoperability, O'Hare has adopted the standard that all new direct digital control panels installed will communicate via "open system" or BACnet protocol.

The Siemens Building Management System at O'Hare Airport is a combination of legacy proprietary protocol direct digital control panels and open system BACnet direct digital control panels. Because majority of the installation of the BMS system at O'Hare was at a time when open systems weren't available, the majority of the BMS system is still legacy proprietary.

Industry

To provide preventative maintenance, repairs and emergency service to the Siemens BMS system requires many tools that are only provided and available only thru Siemens. The Desigo CC operating system, all source code and configuration tools are intellectual property ownership by Siemens. For example:

- Desigo Operating system- Graphical User Interface.
- DDC commissioning tool- Direct Digital Panels
- CAPP tool- VAV box commissioning and troubleshooting
- NPDT network diagnostic and troubleshooting

All these tools and software that are critical components to maintain, troubleshoot, service and repair the Siemens system. Also, all are Intellectual property of Siemens and are only available thru the local branch office.

The Siemens BMS system at O'Hare is very large and complex. To effectively maintain the current system requires at least 8 Siemens factory trained technicians to be on site each and every day. As well as have the additional capacity to support the Airport 24x7, 365 days per year. With standard Holidays, vacations and sick time along with possible after hours support, a company needs at least 13 factory trained technicians that understand how to program, troubleshoot, repair and replace the Siemens system. The local Siemens branch office is the only local supplier that has the bench strength, (50 technicians) and expertise to fulfill O'Hare's service needs.

Another objective of this 5 year program is to migrate the entire Siemens BMS system to an open system platform with complete interoperability per the ASHRAE standards. This program has already been started on the migration of legacy proprietary DDC panels to BACnet open system DDC panels. Siemens can migrate an existing Siemens DDC panel very cost effectively with minimal downtime. When migrating a panel, Siemens has a intellectual property in a Siemens PPCL programming code convertor that translates the current PPCL source code for seamless installation into the new BACnet DDC panel. Since the programming code is operational prior to migration, minimal checkout and equipment downtime is necessary. Another company would have to replace the DDC controller, replace all the sensors connected to the DDC controller, rewrite all code in new controller, re-verify, commission the system, create a new graphic at Graphical User interface and map all associated points to the GUI platform. This is more costly and includes much more downtime which can impact the Airport and Terminal operations. Upon completion of the 5 year program, O'Hare will have a 100% open protocol system.

To change service providers in the middle of the open system migration would be very costly to the DOA. If another provider were to take over the contract they would have to replace all 500 panels to have a seamless BAS system. They would also need to replace the Graphical User Interface Operating System. This would add at least \$6 Million cost to the job because all new software, programming and graphics that would need to be installed. As well as all the interruption of service of critical mechanical and electrical equipment and possible impact to Airlines and the passengers. Siemens is the only

Industry

company that can replace the non Bacnet panels to Bacnet and have them operate on the current system immediately after changing it out.

By executing this program with Siemens is the best value for CDA. This program avoids large capital cost outlays for BMS infrastructure upgrades. This program will insure O'Hare has a complete "open system" upon completion. This will give CDA the opportunity to competitively bid this service agreement upon completion and open up to free and open competition. Currently, Siemens bench strength in manpower and technical expertise to service this contract provides the least amount of risk to CDA, Airlines and passengers.

James D. Bator

Account Executive

Siemens Industry, Inc.

EDS is in the process of being assembled by the Vendor

Siemens Compliances



CHICAGO DEPARTMENT OF AVIATION CITY OF CHICAGO

MEMORANDUM

To:

Jamie L. Rhee

Chief Procurement Officer

Attention:

James McIsaac

Deputy Procurement Officer

Monica Jimenez

Deputy Procurement Officer

From:

Rosemarie S. Andolino

Commissioner

Subject:

MBE/WBE Goals for New Non-Competitive Procurement for Preventative

Maintenance, Training and Software Support Services for the Supervisory

Monitoring System 600 for Chicago O'Hare International Airport

Prime Contractor: Siemens Industry, Inc.

The Chicago Department of Aviation (CDA) requests stated goals be set for MBE/WBE participation for the above mentioned bid specification at 21.4% MBE and 0% WBE. This request is based on the specialized nature of Preventative Maintenance, Training and Software Support Services for the Supervisory Monitoring System 600 and the lack of qualified and capable WBE subcontractors.

The reason for this request is that Siemens Industry, Inc. is unable to find a WBE firm qualified and able to perform in the specialized area required by this contract. The WBE subcontractor on their current contract (PO 12752) is a one person shop and does not have the capacity to fulfill the requirements of the contract. In addition, there would be an overlap of the services with the MBE subcontractor which has a large number of Electricians on staff qualified to perform the specialized services required. The new contract will require an Electrician to be on site full time.

Attached are the proposed C-1 and D-1 along with the certification letter.

If you have any questions or need additional information regarding this recommendation, please contact David Bowman at (773) 686-7089.



SCHEDULE C-1

FOR
NON-CONSTRUCTION
PROJECTS ONLY

MBE/WBE Letter of Intent to Perform as a Subcontractor, Supplier, or Consultant

| WBE participation is credited for the use of a MBE or WBE "manufacturer." 60% participation is credited for the use of a MBE or WBE "regular dealer." The undersigned is prepared to perform the following services in connection with the above named project/contract. If more space is required to fully describe the MBE or WBE proposed scope of work and/or payment schedule, including a description of the commercially useful function being performed. Attach additional sheets as necessary: **PLEATMACTION** TO SME PURIOUS AND TOWN MAINTEANAGE OF SME PLES SYSTEM **LECTION** TO SME PURIOUS AND TOWN MAINTEANAGE.** The above described performance is offered for the following price and described terms of payment: **JURIOUS SME PURIOUS NET 30 **SME PURIOUS NET 30 **S | Project Name: SMS/FIRE Preventive Mtce. Specification No.: NA. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| To: GEMENS SHOUSTY INC. (Name of Prime Contraction) The MBE or WBE status of the undersigned is confirmed by the attached City of Chicago Certification Letter. 100% MBE or WBE participation is credited for the use of a MBE or WBE "manufacturer." 60% participation is credited for the use of a MBE or WBE "manufacturer." 60% participation is credited for the use of a MBE or WBE proposed scope of work and/or payment schedule, including a description of the commercially useful function being performed. Attach additional sheets as necessary: Selectrician for payment function with the above named project/contract. If more space is required to fully describe the MBE or WBE proposed scope of work and/or payment schedule, including a description of the commercially useful function being performed. Attach additional sheets as necessary: Selectrician for payment function with the above named project/contract. If more space is required to the commercially useful function being performed. Attach additional sheets as necessary: Selectrician for payment function with the above described performance is offered for the following price and described terms of payment: Selectrician for payment function with the function with the function with the subcontracting any of the work listed or attached to this schedule. O | From: QUANTUM CROSSINGS CLC (Name of MBEWBE Firm) |
| WBE participation is credited for the use of a MBE or WBE "manufacturer." 60% participation is credited for the use of a MBE or WBE "regular dealer." The undersigned is prepared to perform the following services in connection with the above named project/contract. If more space is required to fully describe the MBE or WBE proposed scope of work and/or payment schedule, including a description of the commercially useful function being performed. Attach additional sheets as necessary: **PLEATMACTION** TO SME PURIOUS AND TOWN MAINTEANAGE OF SME PLES SYSTEM **LECTION** TO SME PURIOUS AND TOWN MAINTEANAGE.** The above described performance is offered for the following price and described terms of payment: **JURIOUS SME PURIOUS NET 30 **SME PURIOUS NET 30 **S | To: SIEMENS INDUSTRY INC and the City of Chicago. |
| Space is required to fully describe the MBE or WBE proposed scope of work and/or payment schedule, including a description of the commercially useful function being performed. Attach additional sheets as necessary: Place Plac | The MBE or WBE status of the undersigned is confirmed by the attached City of Chicago Certification Letter. 100% MBE or WBE participation is credited for the use of a MBE or WBE "manufacturer." 60% participation is credited for the use of a MBE or WBE "regular dealer." |
| The above described performance is offered for the following price and described terms of payment: yer i - # 6/10 6/19 yew 2 # 653,462 yew 3 \$613,066 year 4 \$693,258 Year 5 # 714,055 Frequent traws NET 30 SUB-SUBCONTRACTING LEVELS A zero (0) must be shown in each blank if the MBE or WBE will not be subcontracting any of the work listed or attached to this schedule. O % of the dollar value of the MBE or WBE subcontract that will be subcontracted to non MBE/WBE contractors. NOTICE: If any of the MBE or WBE scope of work will be subcontracted to MBE or WBE contracted. NOTICE: If any of the MBE or WBE scope of work will be subcontracted to MBE or WBE contracted. Its the name of the vendor and attach a brief explanation, description and pay Item number of the work that will be subcontracted. MBE/WBE credit will not be given for work subcontracted to Non-MBE/WBE contractors, except for as allowed in the Special Conditions Regarding Minority Business Enterprise Commitment and Women Business Enterprise Commitment. The undersigned will enter into a formal written agreement for the above work with you as a Prime Contractor, conditioned upon your execution of a contract with the City of Chicago, within three (3) business days of your receipt of a signed contract monthe City of Chicago. NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES. (Signedire of Pigestient Original Signature) Roger J. Martinez/President & CEO (Name/Title-Please Print) | The undersigned is prepared to perform the following services in connection with the above named project/contract. If more space is required to fully describe the MBE or WBE proposed scope of work and/or payment schedule, including a description of the commercially useful function being performed. Attach additional sheets as necessary: Electrician to perform freventing Maintenance of SMS FIS SYSTEM Technician file Maintening Maintenance |
| WERT 5 # 714 055 Payment Teams NET 30 Sub-subcontracting any of the work listed or attached to this schedule. O % of the dollar value of the MBE or WBE subcontract that will be subcontracted to non MBE/WBE contractors. % of the dollar value of the MBE or WBE subcontract that will be subcontracted to MBE or WBE contractors. NOTICE: If any of the MBE or WBE scope of work will be subcontracted to MBE or WBE contractors. NOTICE: If any of the MBE or WBE scope of work will be subcontracted, list the name of the vendor and attach a brief explanation, description and pay Item number of the work that will be subcontracted. MBE/WBE credit will not be given for work subcontracted to Non-MBE/WBE contractors, except for as allowed in the Special Conditions Regarding Minority Business Enterprise Commitment and Women Business Enterprise Commitment. The undersigned will enter into a formal written agreement for the above work with you as a Prime Contractor, conditioned upon your execution of a contract with the City of Chicago, within three (3) business days of your receipt of a signed contract from the City of Chicago. NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES. (Signature of Provident/Owner/CEO or Authorized Agent of MBE/WBE) Roger J. Martinez/President & CEO (Name/Title-Piesse Print) | |
| A zero (0) must be shown in each blank if the MBE or WBE will not be subcontracting any of the work listed or attached to this schedule. Wo fithe dollar value of the MBE or WBE subcontract that will be subcontracted to non MBE/WBE contractors. Wo fithe dollar value of the MBE or WBE subcontract that will be subcontracted to MBE or WBE contractors. NOTICE: If any of the MBE or WBE scope of work will be subcontracted, list the name of the vendor and attach a brief explanation, description and pay Item number of the work that will be subcontracted. MBE/WBE credit will not be given for work subcontracted to Non-MBE/WBE contractors, except for as allowed in the Special Conditions Regarding Minority Business Enterprise Commitment and Women Business Enterprise Commitment. The undersigned will enter into a formal written agreement for the above work with you as a Prime Contractor, conditioned upon your execution of a contract with the City of Chicago, within three (3) business days of your receipt of a signed contract rom the City of Chicago. NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES. (Signature of Prograden/Owner/CEO or Authorized Agent or MBE/WBE) Roger J. Martinez/President & CEO (Namo/Tille-Please Print) | Ven 5 & 714,055 |
| A zero (0) must be shown in each blank if the MBE or WBE will not be subcontracting any of the work listed or attached to this schedule. **O of the dollar value of the MBE or WBE subcontract that will be subcontracted to non MBE/WBE contractors. **O of the dollar value of the MBE or WBE subcontract that will be subcontracted to MBE or WBE contractors. **NOTICE: If any of the MBE or WBE scope of work will be subcontracted, list the name of the vendor and attach a brief explanation, description and pay item number of the work that will be subcontracted. MBE/WBE credit will not be given for work subcontracted to Non-MBE/WBE contractors, except for as allowed in the Special Conditions Regarding Minority Business Enterprise Commitment and Women Business Enterprise Commitment. The undersigned will enter into a formal written agreement for the above work with you as a Prime Contractor, conditioned upon your execution of a contract with the City of Chicago, within three (3) business days of your receipt of a signed contract from the City of Chicago. **NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES.** **Goger J. Martinez/President & CEO** **(Name/Tibe-Please Print)* **ROGET J. Martinez/President & CEO** **(Name/Tibe-Please Print)* **ROGET J. Martinez/President & CEO** **(Name/Tibe-Please Print)* **The work that will be subcontracted to MBE/WBE)* **(Name/Tibe-Please Print)* **ROGET J. Martinez/President & CEO** **(Name/Tibe-Please Print)* **(Name | forment terms NET30 |
| % of the dollar value of the MBE or WBE subcontract that will be subcontracted to MBE or WBE contractors. NOTICE: If any of the MBE or WBE scope of work will be subcontracted, list the name of the vendor and attach a brief explanation, description and pay item number of the work that will be subcontracted. MBE/WBE credit will not be given for work subcontracted to Non-MBE/WBE contractors, except for as allowed in the Special Conditions Regarding Minority Business Enterprise Commitment and Women Business Enterprise Commitment. The undersigned will enter into a formal written agreement for the above work with you as a Prime Contractor, conditioned upon your execution of a contract with the City of Chicago, within three (3) business days of your receipt of a signed contract from the City of Chicago. NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES. (Signature of Provident/Owner/CEO or Authorized Agent of MBE/WBE) (Date) Roger J. Martinez/President & CEO (Name/Title-Please Print) | SUB-SUBCONTRACTING LEVELS A zero (0) must be shown in each blank if the MBE or WBE wlll not be subcontracting any of the work listed or attached to this schedule. |
| NOTICE: If any of the MBE or WBE scope of work will be subcontracted, list the name of the vendor and attach a brief explanation, description and pay item number of the work that will be subcontracted. MBE/WBE credit will not be given for work subcontracted to Non-MBE/WBE contractors, except for as allowed in the Special Conditions Regarding Minority Business Enterprise Commitment and Women Business Enterprise Commitment. The undersigned will enter into a formal written agreement for the above work with you as a Prime Contractor, conditioned upon your execution of a contract with the City of Chicago, within three (3) business days of your receipt of a signed contract from the City of Chicago. NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES. (Signature of Prosident/Owner/CEO or Authorized Agent of MBE/WBE) (Date) Roger J. Martinez/President & CEO (Name/Title-Please Print) | % of the dollar value of the MBE or WBE subcontract that will be subcontracted to non MBE/WBE contractors. |
| brief explanation, description and pay item number of the work that will be subcontracted. MBE/WBE credit will not be given for work subcontracted to Non-MBE/WBE contractors, except for as allowed in the Special Conditions Regarding Minority Business Enterprise Commitment and Women Business Enterprise Commitment. The undersigned will enter into a formal written agreement for the above work with you as a Prime Contractor, conditioned upon your execution of a contract with the City of Chicago, within three (3) business days of your receipt of a signed contract from the City of Chicago. NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES. 6-27-13 (Signature of Prosident/Owner/CEO or Authorized Agent of MBE/WBE) Roger J. Martinez/President & CEO (Name/Title-Please Print) | % of the dollar value of the MBE or WBE subcontract that will be subcontracted to MBE or WBE contractors. |
| Appen your execution of a contract with the City of Chicago, within three (3) business days of your receipt of a signed contract from the City of Chicago. NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES. (Signature of Prosident/Owner/CEO or Authorized Agent of MBE/WBE) (Date) Roger J. Martinez/President & CEO (Name/Title-Please Print) | credit will not be given for work subcontracted to Non-MBE/WBE contractors, except for as allowed in the Special Conditions Regarding Minority Business Enterprise Commitment and Women Business Enterprise |
| (Signature of Prosident/Owner/CEO or Authorized Agent of MBE/WBE) Roger J. Martinez/President & CEO (Name/Title-Please Print) | The undersigned will enter into a formal written agreement for the above work with you as a Prime Contractor, conditioned upon your execution of a contract with the City of Chicago, within three (3) business days of your receipt of a signed contract from the City of Chicago. |
| (Signature of Prosident/Owner/CEO or Authorized Agent of MBE/WBE) (Date) Roger J. Martinez/President & CEO (Name/Title-Please Print) | NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES. |
| Roger J. Martinez/President & CEO (Name/Title-Please Print) | (Signature of President/Owner/CEO or Authorized Agent of MBE/WBE) (Date) |
| 212 467 0065 | Roger J. Martinez/President & CEO |
| rmartinez(@quantumcrossings.com 312-467-0065 (Email & Phone Number) | rmartinez@quantumcrossings.com 312-467-0065 (Email & Phone Number) |



DEPARTMENT OF PROCUREMENT SERVICES CITY OF CHICAGO

Roger Martinez
Quantum Crossings, LLC
111 E. Wacker Drive, Suite 990
Chicago, IL 60601

Certificate Expires: October 1, 2013

Dear Roger Martinez:

Congratulations on your continued eligibility for certification as a **Minority Business Enterprise (MBE)** by the City of Chicago. This certification is valid until **October 1, 2013**.

You have an affirmative duty to file for recertification 60 days prior to the date of expiration. Therefore, you must file for recertification by **October 1, 2013.**

It is important to note that you also have an ongoing affirmative duty to notify the City of Chicago of any changes in ownership or control of your firm, or any other fact affecting your firm's eligibility for certification within 10 days of such change. These changes may include but are not limited to a change of address, change of business structure, change in ownership or ownership structure, change of business operations, and/or gross receipts that exceed the program threshold.

Please note – you shall be deemed to have had your certification lapse and will be ineligible to participate as a MBE/WBE/BEPD if you fail to:

- o file your No Change Affidavit within the required time period;
- provide financial or other records requested pursuant to an audit within the required time period; or
- notify the City of any changes affecting your firm's certification within 10 days of such change.
- o re-certify with the city within prescribed time frame.

NAICS Codes

Further, if you or your firm is found to be involved in certification, bidding and/or contractual fraud or abuse, the City will pursue decertification and debarment. And in addition to any other penalty imposed by law, any person who knowingly obtains, or knowingly assists another in obtaining, a contract with the city by falsely representing that the individual or entity, or the individual or entity assisted, is a minority-owned business or a woman-owned business, is guilty of a misdemeanor, punishable by incarceration in the county jail for a period not to exceed six months or a fine of not less than \$5,000.00 and not more than

Your firm is listed in the City's Directory of Minority Business Enterprises (MBE) and Women Business Enterprises (WBE) in the specialty area(s) of:

| INAIO | <u> </u> |
|--------|---------------------------------------------------------------------------------------------|
| 237130 | Construction management, power and communication transmission line |
| 238210 | Communication equipment installation |
| 238210 | Computer and network cable installation |
| 238210 | Electric contracting |
| 238210 | Electrical contractors |
| 238210 | Electrical wiring contractors |
| 238210 | Telecommunications equipment and wiring (except transmission line) installation contractors |
| 541512 | Computer Systems Design Consulting Services |
| 541512 | Network systems integration design services, computer |

Description

541513 Computer systems facilities (i.e., clients' facilities) management and operation services

541618 Telecommunications management consulting services

Your

firm's participation on City contracts will be credited only toward Minority Business Enterprise (MBE) goals in your area(s) of specialty. While your participation on City contracts is not limited to your specialty, credit toward Minority Business Enterprise (MBE) goal will be given only for work done in a specialty category.

Thank you for your continued participation in the City's Minority Business Enterprises (MBE) and Women Business Enterprises (WBE) Diversity Programs.

Sincerely,

Jamie L. Rhee

Chief Procurement Officer



SCHEDULE D-1

FOR NON-CONSTRUCTION PROJECTS ONLY

Compliance Plan Regarding MBEWBE Utilization Affidavit of Prime Contractor

MUST BE SUBMITTED WITH THE BID. FAILURE TO SUBMIT THE SCHEDULE D WILL CAUSE THE BID TO BE REJECTED. DUPLICATE AS NEEDED.

| Project Name: SMS (Fire Preventive Maintenure |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specification No.: No.: |
| In connection with the above captioned contract, I HEREBY DECLARE AND AFFIRM that I am a duly authorized representative of (Name of Prime Consultant/Contractor) |
| and that I have personally reviewed the material and facts set forth herein describing our proposed plan to achieve the MBE/WBE goals of this contract. |
| All MBE/WBE firms included in this plan have been certified as such by the City of Chicago (Letters of Certification Attached). |
| I. Prime Consultant/Contractor: |
| NOTE: The bidder/proposer shall, in determining the manner of MBE/WBE participation, first consider involvement with MBE/WBE firms as joint venture partners, subcontractors, and suppliers of goods and services directly related to the performance of this contract. |
| A. If bidder/proposer is a certified MBE or WBE firm, attach copy of the City of Chicago Letter of Certification. (Certification of the bidder/proposer as a MBE satisfies the MBE goal only. Certification of the bidder/proposer as a WBE satisfies the WBE goal only.) |
| B. If bidder/proposer is a joint venture and one or more joint venture partners are certified MBEs or WBEs, attach copies of Letters of Certification and a copy of Joint Venture Agreement clearly describing the role of the MBE/WBE firm(s) and its ownership interest in the joint venture. |
| C. MBE/WBE Subcontractors/Suppliers/Consultants: |
| 1. Name of MBE/WBE: QUANTUM CROSSINGS LLC |
| Address: 455 North CityFront Plaza Drive Suite 3100 Chicago II 60611 |
| Contact Person: Roger J. Martine Z |
| Phone Number: 312 - 467 - 0374 |
| Dollar Amount Participation; \$ 3,374,490.00 For 5 years. |
| Percent Amount Participation % |
| Schedule C-1 Attached? YES NO* |
| 2. Name of MBE/WBE: |
| Address: |
| Contact Person: |
| Phone Number: |

Dollar Amount Participation; \$__

Schedule D-1: Prime Contractor Affidavit-MBE/WBE

| | Percent Amount Participation % |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Schedule C-1 Attached? YES NO* |
| 3. | Name of MBE/WBE: |
| | Address: |
| | Contact Person: |
| | Phone Number: |
| | Dollar Amount Participation; \$ |
| | Percent Amount Participation % |
| | Schedule C-1 Attached? YES NO* |
| 4. | Name of MBE/WBE: |
| | Address: |
| | Contact Person: |
| | Phone Number: |
| | Dollar Amount Participation; \$ |
| | Percent Amount Participation % |
| | Schedule C-1 Attached? YES NO* |
| 5. | Attach Additional Sheets as Needed |
| | C-1s and Letters of Certification not submitted with bid/proposal must be submitted so as to t by the Contract Administrator within three (3) business days after bid opening (or proposal due |
| II. Indirect Pa | articipation of MBE/WBE Firms |
| outlined in expected if | nis section need not be completed if the MBE/WBE goals have been met through the direct participation. Section I. If the MBE/WBE goals have not been met through direct participation, Contractor will be to demonstrate that the proposed MBE/WBE direct participation represents the maximum achievable under stances. Only after such a demonstration will indirect participation be considered. |
| | contractors/Suppliers/Consultants proposed to perform work or supply goods or services where such oes not directly relate to the performance of this contract: |
| 1. | Name of MBE/WBE: |
| | Address: |
| | Contact Person: |
| | Phone Number: |
| | Dollar Amount Participation: \$ |

Schedule D-1: Prime Contractor Affidavit-MBE/WBE

| | Percent Amount Participation % |
|----|-------------------------------------------|
| | Schedule C-1 Attached? YES NO* *See Below |
| 2. | Name of MBE/WBE: |
| | Address: |
| | Contact Person: |
| | Phone Number: |
| | Dollar Amount Participation; \$ |
| | Percent Amount Participation % |
| | Schedule C-1 Attached? YES NO* |
| 3. | Name of MBE/WBE: |
| | Address: |
| | Contact Person: |
| | Phone Number: |
| | Dollar Amount Participation; \$ |
| | Percent Amount Participation % |
| | Schedule C-1 Attached? YES NO* |
| 4. | Name of MBE/WBE: |
| | Address: |
| | Contact Person: |
| | Phone Number: |
| | Dollar Amount Participation; \$ |
| | Percent Amount Participation % |
| | Schedule C-1 Attached? YES NO* |

5. Attach Additional Sheets as Needed

^{*}All Schedule C-1s and Letters of Certification not submitted with bid/proposal must be submitted so as to assure receipt by the Contract Administrator within three (3) business days after bid opening (or proposal due date.)

Schedule D-1: Prime Contractor Affidavit-MBE/WBE

III. Summary of MBE/WBE Proposal

A. MBE Proposal (Direct & Indirect)

1. MBE <u>Direct</u> Participation

| MBE Firm Name | Dollar Amount Participation (\$) | Percent Amount Participation (%) |
|---------------------------------|-------------------------------------|----------------------------------|
| QUANTUM | #3,374,490,00 | 21.4 |
| With the training of the second | | |
| Total Direct MBE Participation | (100 151) annotes | |

2. MBE Indirect Participation

| MBE Firm Name | Dollar Amount Participation (\$) | Percent Amount Participation (%) |
|----------------------------------|-------------------------------------|----------------------------------|
| | | |
| | | |
| Total Indirect MBE Participation | | |

B. WBE Proposal (Direct & Indirect)

1. WBE Direct Participation

| WBE Firm Name | Dollar Amount Participation (\$) | Percent Amount Participation (%) |
|--------------------------------|-------------------------------------|----------------------------------|
| | | |
| | | |
| Total Direct WBE Participation | | |

2. WBE Indirect Participation

| WBE Firm Name | Dollar Amount Participation (\$) | Percent Amount Participation (%) |
|----------------------------------|-------------------------------------|----------------------------------|
| | | |
| | | |
| Total Indirect WBE Participation | | |

Schedule D-1: Prime Contractor Affidavit-DBE

To the best of my knowledge, information and belief, the facts and representations contained in the aforementioned attached Schedules are true, and no material facts have been omitted.

| andonoa conoaarco i | are true, and no material facts have been offitted. | |
|---------------------|--------------------------------------------------------------|---------|
| The Prime Contracto | or designates the following person as its MBE/WBE Liaison Of | fficer: |

| Jim BATOR | (847) 493-7708 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| (Name- Please Print or Type) | (Phone) |
| | PENALTIES OF PERJURY THAT THE CONTENTS OF THE T, AND THAT I AM AUTHORIZED ON BEHALF OF THE PRIME |
| (Name of Prime Contractor - Print or Type) | State of: |
| (Signature) | County of: Cook |
| Paul Hayes Zone Manager Siemens Industry, Inc. (Name/Title of Affiant – Print or Type) Building Technologies Division Court Mount Prospect, IL 60056 | Vision B |
| (Date) On this 27 day of June, 20 13, the above signed | d officer |
| personally appeared and, known by me to be the person of executed the same in the capacity stated therein and for the | described in the foregoing Affidavit, acknowledged that (s)he he purposes therein contained. |
| IN WITNESS WHEREOF, I hereunto set my hand and sea | al. |
| (Notary Public Signature) OFFICIAL SEAL TERRY CORAM NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION EXPIRES: 10/02/16 | |

SEAL:

Commission Expires:

FW: SECOND REQUEST MBE/WBE Goals for new Siemens System 600 Sole Source Contract

Hankin, James

Sent:

Monday, July 01, 2013 12:21 PM

To:

Jimenez, Monica

Cc:

McIsaac, James; Leach, Jonathan; DAVID BOWMAN

Attachments: New Siemens System 600 Sol~1.pdf (341 KB)

Monica,

Please find attached the MBE/WBE Goals memo, C-1, certification letter and D-1 showing goals of 21.4% MBE and 0% WBE for the new Siemens System 600 Sole Source Contract as we discussed last Wednesday (6/26/13).

Thank you.

From: Hankin, James

Sent: Monday, June 24, 2013 10:28 AM

To: Jimenez, Monica

Cc: McIsaac, James; Leach, Jonathan; DAVID BOWMAN

Subject: SECOND REQUEST MBE/WBE Goals for new Siemens System 600 Sole Source Contract

Monica,

In order for this contract request to be on the August 2013 NCRB agenda, the package needs to be submitted by July 2. As the package cannot be completed without your answer, your immediate response is requested.

Thank you.

From: Hankin, James

Sent: Thursday, June 20, 2013 1:05 PM

To: Jimenez, Monica

Cc: McIsaac, James; Leach, Jonathan; DAVID BOWMAN

Subject: MBE/WBE Goals for new Siemens System 600 Sole Source Contract

Monica,

We are in the process of putting together the Sole Source package for the new Siemens System 600 contract which will replace the current Siemens System 600 sole source contract (PO 12752).

Siemens has requested an MBE commitment of 21.4% with no WBE goal. The reason for this request is they are unable to find a WBE firm qualified and able to perform in the specialized area required by this contract. The WBE subcontractor on the current contract is a one man shop and does not have the capacity to fulfill the requirements of the contract as well as there being an overlap of the services with the MBE subcontractor which has a large number of Electricians on staff qualified to perform the specialized services required. The new contract will require an Electrician to be on site full time.

As we need to set goals for this contract, can we set the goals at 21.4% MBE and 0% WBE or does the Vendor need to complete a partial waiver request?

Please advise as soon as possible as time is of the essence due to the NCRB timeframe.

Thank you.

Siemens 2013 Chicago Branch Street Rates

Siemens Industry, Inc. **Building Technologies Division**

Field Service Labor Rates - Chicago Area

Rates effective from January 1, 2013 through December 31, 2013

Please note: Rates shown are for the period referenced above but are subject to change without notice.

| Standard Labor Rates: | Straight Time (M-F 7 AM to 5 PM) excl. Holidays | Regular Overtime (M-F 5 PM to 7 AM, & Sat) excl. Holidays | Sundays & Holidays |
|---------------------------|-------------------------------------------------------|-----------------------------------------------------------------|--------------------|
| Automation Specialist | \$175.00 | \$228.00 | \$280.00 |
| Electrical Technician | \$184.00 | \$240.00 | \$295.00 |
| Fire Safety Specialist | \$160.00 | \$208.00 | \$256.00 |
| Security Specialist | \$160.00 | \$208.00 | \$256.00 |
| Engineer | \$196.00 | \$255.00 | \$314.00 |
| Energy Engineer | \$204.00 | \$265.00 | \$326.00 |
| Electrical Engineer | \$204.00 | \$265.00 | \$326.00 |
| Mechanic | \$177.00 | \$230.00 | \$283.00 |

Customers with an active Service Agreement will be eligible for the preferred customer labor rates listed

| Preferred Customer Labor Rates: | ga.a. c.c.a. | | Sundays & Holidays |
|------------------------------------|--------------|----------|--------------------|
| Automation Specialist | \$159.00 | \$207.00 | \$255.00 |
| Electrical Technician | \$167.00 | \$217.00 | \$267.00 |
| Fire Safety Specialist | \$145.00 | \$189.00 | \$232.00 |
| Security Specialist | \$145.00 | \$189.00 | \$232.00 |
| Engineer | \$178.00 | \$232.00 | \$285.00 |
| Energy Engineer | \$185.00 | \$241.00 | \$296.00 |
| Electrical Engineer | \$185.00 | \$241.00 | \$296.00 |
| Mechanic | \$161.00 | \$209.00 | \$258.00 |

Material Rates: Customers with an active Service Agreement will benefit from a discount percentage off the standard pricing for Siemens Industry Inc. – BT Division products. Customers without a Service Agreement will pay standard pricing for Siemens Industry Inc. – BT Division products.

Straight rate 7 a.m. - 5 p.m. Monday - Friday except Holidays.

Service for customers <u>with</u> a Service Agreement involving travel to the customer site will incur a <u>two hour minimum</u> labor charge plus a flat \$75.00 Trip Charge (no additional mileage charges apply).

Service for customers <u>without</u> a Service Agreement involving travel to the customer site will incur a <u>four hour minimum</u> labor charge plus a flat \$75.00 Trip Charge (no additional mileage charges apply).

On-line diagnostic and other remote services, as well as consulting services provided by phone, will be charged at the engineering rate with a one hour minimum.

Customers with a current Service Agreement will receive a discount of 40% less 20% off list on standard catalog pricing for Siemens Industry Inc. – BT Division products except products listed in the catalog with the @ sign are limited to a 40% discount.

Customers without a current Service Agreement will receive a discount of 30% off list on standard catalog pricing for Siemens Industry Inc. – BT Division products.

Fire alarm products from EST will be charged at list price less 20% for our Fire Service Agreement customers and list price for all other customers.

Siemens First Response to CDA (1st Proposal)

EXHIBIT 2-Year One

| | EAIIIDII 2-1 car Olic | | | | <u> </u> | |
|-------|---------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------------|-------------------------------|
| Line# | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
| 1 | PREVENTATIVE & MONITORING LABOR | Monthly | 12ggc Months | \$238,059 | \$238,059 | \$2,856, 708.00 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | 8 | \$135.00 | \$1,080. | \$12,960. |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$202.50 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | 68 | \$111.00 | \$7.548. | \$90,576. |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$166.50 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | 26 | \$121.00 | \$3,146. | \$37,752. |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$181.50 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | 57 | \$129.00 | \$7,353. | \$88,236. |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$193.50 | | |
| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | 8 | \$129.00 | \$1,032. | \$12,384. |
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER-OVERTIME | Hour | | \$193.50 | | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | 2 | \$190.00 | \$380. | \$4,560. |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | | \$250.00 | | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | 42 | \$111.00 | \$4,662. | \$55,944. |

| | Total \$ Year One | | | | \$346,743. | \$4,160,91 |
|----|----------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------|------------|------------|
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 17 % CONTRACT ADMINISTRATION MARKUP | Mark up | \$34, 125 | \$29,167 | \$34,125 | \$409,504 |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$190.00 10 \$ | | \$1900 | \$1900. |
| 23 | PARTS NOT MFR BY SIEMENS AT A 17% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | \$9,749 | \$8,333 | \$9,749 | \$116,995 |
| 22 | PARTS MFR BY SIEMENS AT A 52 % DISCOUNT FROM LIST PRICE | Discount | \$66,839 | \$32,083 | \$32,083 | 384,996. |
| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY- ENGINEER - OVERTIME | Hour | | \$208.50 | | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | 13 | \$139.00 | \$1,807. | \$21,684. |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | | \$166.50 | | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST | Hour | 10 | \$111.00 | \$1,110. | \$13,320. |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS -OVERTIME | Hour | | \$193.50 | | |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | 21 | \$129.00 | \$2,709. | \$32,508. |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | | \$166.50 | | |

EXHIBIT 2-Year Two

| | EAHIBIT 2-Year Two | | | | | |
|--------|---------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------------|-------------------------------|
| Line # | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
| 1 | PREVENTATIVE & MONITORING LABOR | Monthly | 160 Months | \$245,200 | \$245,200 | \$2,942, 400. |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | 9 | \$139.00 | \$1251 | \$15012 |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | \$ | \$208.50 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | 71 | \$114 | \$8094 | \$97,128 |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$171.50 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | 28 | \$125.00 | \$3500 | \$42,000 |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$187 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | 60 | \$133 | \$7980 | \$95,760 |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$199 | | |
| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | 9 | \$133 | \$1197 | \$14,364 |
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER-OVERTIME | Hour | 0 | \$199 | | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | 2 | \$196 | \$392 | \$4704 |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | | \$259.50 | | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | 44 | \$114 | \$5016 | \$60,192 |

| | Total \$ Year Two | | | | \$360,713 | \$4,328,5 |
|----|----------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|-----------|-----------|
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 17_% CONTRACT ADMINISTRATION MARKUP | Mark up | \$35,831 | \$30,625 | \$35831 | \$429,975 |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$195 | 11 | \$2145 | \$25,740 |
| 23 | PARTS NOT MFR BY SIEMENS AT A 17 % MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | \$10,237 | \$8,750 | \$10,237 | \$122,850 |
| 22 | PARTS MFR BY SIEMENS AT A 52 % DISCOUNT FROM LIST PRICE | Discount | \$70,183 | \$33,688 | \$33,688 | \$404,256 |
| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | | \$215 | | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | 14 | \$143 | \$2002 | \$24,024 |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | | \$171.50 | | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST | Hour | 11 | \$114 | \$1254 | \$15,048 |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS -OVERTIME | Hour | | \$199 | | |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | 22 | \$133 | \$2926 | \$35,112 |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | | \$171.50 | | |

EXHIBIT 2-Year Three

| | EARIDII 2-Year Three | | | | | |
|-------|---------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------------|-------------------------------|
| Line# | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
| 1 | PREVENTATIVE & MONITORING LABOR | Monthly | 12 66X Months | \$252,556 | \$252,556 | \$3,030 672. |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | 9 | \$143 | \$1287 | \$15,444 |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$215 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | 75 | \$118 | \$8850 | \$106,200 |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$177 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | 29 | \$128 | \$3712 | \$44,544 |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$193 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | 63 | \$137 | \$8,631 | \$103,572 |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$205 | | |
| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | 9 | \$137 | \$1233 | \$14,796 |
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER-OVERTIME | Hour | | \$205 | | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | 2 | \$201.50 | \$403 | \$4,836 |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | | \$265 | | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | 46 | \$118 | \$5,428 | \$65,136 |

| , | . Total \$ Year Three | | <u></u> | | \$374727.50 | \$4,496, 730 |
|----|----------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|-------------|-----------------|
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 17 % CONTRACT ADMINISTRATION MARKUP | Mark up | \$37,622 | \$32,156 | \$37,622 | \$451,464 |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$202 | 11 | \$2,222 | \$26,664 |
| 23 | PARTS NOT MFR BY SIEMENS AT A 17 % MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | \$10,750 | \$9,188 | \$10,750 | \$129,000 |
| 22 | PARTS MFR BY SIEMENS AT A <u>52</u> % DISCOUNT FROM LIST PRICE | Discount | \$73,698 | \$35,372 | \$35,372 | \$424,464 |
| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | | \$221 | | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | 15 | \$147.50 | \$2212.50 | \$26,550 |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | | \$177 | | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST | Hour | 11 | \$118 | \$1298 | \$15,576 |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS -OVERTIME | Hour | u. | \$205 | | #3 |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | 23 | \$137 | \$3151 | \$37,812 |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | | \$177 | | |

EXHIBIT 2-Year Four

| | EARIBIT 2-Tear Four | | | | | |
|-------|---------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------------|-------------------------------|
| Line# | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
| 1 | PREVENTATIVE & MONITORING LABOR | Monthly | 12 60XX Months | \$260,133 | \$260,133 | \$3,121, 596. |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | 10 | \$147 | \$1470 | \$17,640 |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$221 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | 78 | \$121 | \$9,438 | \$113,256 |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$182 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | 30 | \$132 | 3,960 \$ | 47,520 |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | · | \$198 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | 66 | \$141 | \$9,306 | \$111,672 |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$211 | | |
| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | 10 | \$141 | \$1410 | \$16,920 |
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER-OVERTIME | Hour | | \$211 | | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | 2 | \$208 | \$416 | \$4992 |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | | \$273 | 4 | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | 48 | \$121 | \$5808 | \$69,696 |

| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | | \$182 | | |
|----|----------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|-----------|-----------------|
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | 24 | \$141 | \$3384 | \$40,608. |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS -OVERTIME | Hour | | \$211 | | to the |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST | Hour | 12 | \$121 | \$1452 | \$17,424 |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | | \$182 | | ā |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | 15 | \$152 | \$2280 | \$27,360 |
| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | | \$228 | | |
| 22 | PARTS MFR BY SIEMENS AT A 52 % DISCOUNT FROM LIST PRICE | Discount | \$77,275 | \$37,140 | \$37,140 | \$445,680 |
| 23 | PARTS NOT MFR BY SIEMENS AT A 17 % MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | \$11,287 | \$9,647 | \$11287 | \$135,444 |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$208 | 12 | \$2,496 | \$29,952 |
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 17 % CONTRACT ADMINISTRATION MARKUP | Mark up | \$39,504 | \$33,764 | \$39,504 | \$474,048 |
| | Total \$ Year Four | | • | | \$389,484 | \$4,673, 808 |

EXHIBIT 2-Year Five

| | EXHIBIT 2-Year Five | | | | | |
|--------|---------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------------|-------------------------------|
| Line # | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
| 1 | PREVENTATIVE & MONITORING LABOR | Monthly | 1260 Months | \$267,937 | \$267,937 | \$3,215, 244 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | 10 | \$152 | \$1520 | \$18,240 |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | , | \$228 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | 82 | \$125 | \$10,250 | \$123,000 |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$187 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | 32 | \$136 | \$4,352 | \$52,224 |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$204 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | 69 | \$145 | \$10,005 | \$120,060 |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$217 | | |
| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | 10 | \$145 | \$1450 | \$17,400 |
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER-OVERTIME | Hour | | \$217 | | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | 2 | \$214 | \$428 | \$5,136 |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | | \$281 | | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | 51 | \$125 | \$6,375 | \$76,500. |

| • | Total \$ Year Five | | | | \$404,833 | \$4,857,99 |
|----|----------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----------|-----------|------------|
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 17_% CONTRACT ADMINISTRATION MARKUP | Mark up | \$41,479. | \$35,452 | \$41,479. | \$497,746. |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$214 | 12 | \$2,568. | \$30,816. |
| 23 | PARTS NOT MFR BY SIEMENS AT A 17 % MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | \$11,851 | \$10,129 | \$11,851 | \$142,212 |
| 22 | PARTS MFR BY SIEMENS AT A 52 % DISCOUNT FROM LIST PRICE | Discount | \$81,243 | \$38,997 | \$38,997. | \$467,964 |
| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | | \$235 | | 76 |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | 16 | \$156 | \$2,496 | \$29,952. |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | | \$187 | | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST | Hour | 12 | \$125 | \$1,500 | \$18,000 |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS -OVERTIME | Hour | Æ | \$217 | | n |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | 25 | \$145 | \$3,625 | \$43,500. |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | | \$187 | | |

Siemens Three Service Agreement Options (2nd Proposal)

Industry

May 16, 2013

DOA O'Hare Airport 10510 W. Zemke Rd. Chicago, IL 60666

Attn: Abder Messar

Subject: Siemens Proposal for 5 year Maintenance of FIS and SMS System at O'Hare.

Abder,

Siemens has 3 alternatives to the maintenance of the Fire and SMS systems at O'Hare Airport. All of the alternatives include the Preventive Maintenance and the 5 cabinet updates per month.

- I. Preventive Maintenance with 5 panels per month, no overtime labor or materials are included. \$254,058 per month \$3,048,696 per year.
- II. Preventive Maintenance with 5 panels per month and Repair and Replace Labor during normal working hours and on overtime included. All Material replacements included in Service Agreement. \$264,058 per month \$3,168,696 per year.
- III. Preventive Maintenance with 5 panels per month and Repair and Replace
 Labor and Material replacements (everything noted in item II included) plus 6
 projects over 5 years. \$280,168 per month \$3,362,016 per year.

We look forward to discussing these options with you.

Best regards,

Jim Bator

Siemens Industry, Inc

Siemens Final Proposed Pricing

Januar 1/1/13

Industry

EXHIBIT 2-Year One

| _ | EXHIBIT 2-Year One | | | | | |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------------|---------------|
| Line # | | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Pric |
| 1 | PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS. Including installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year | Monthly | 12 Months | \$249,474 | \$249,474 | \$2,993,688 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | | \$115 | | |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$173 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | | \$98 | | |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$147 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | | \$103 | | |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$155 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | | \$119 | | |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$179 | | |

Siemens Industry, Inc.

585 Slawin Court Mount Prospect, IL 60056 USA Tel: +1 847 803-2700

-2700 Janub 7/13/12

Industry

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|----|---------------------------------------------------------------------------------------------------------------------------------|------|---------|------|
| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | \$98 | W 11 |
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER- OVERTIME | Hour | \$147 | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | \$182 | |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | \$272 | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | _\$98 | |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | \$147 | |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | \$119 | |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS OVERTIME | Hour | . \$179 | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST | Hour | . \$98 | |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | \$147 | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | \$139 | |
| 01 | mana laduata. Inc | | | |

Siemens Industry, Inc.

585 Slawin Court Mount Prospect, IL 60056 USA

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Industry

| | 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | \$208 | |
|------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-------------------------------|
| -0.0 | 22 | PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE | Discount | | |
| | 23 | PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | | |
| | 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$98 | |
| | 25 | SUBCONTRACTOR SERVICES AT COST PLUS 10% CONTRACT ADMINISTRATION MARKUP | Mark up | | |
| | | Up to \$250,000 shall be budgeted every year for the length of the contract to cover CDA special projects and work not included under the Monthly Preventative Maintenance and Monitoring Fee (Line 1) | | | \$250,000 |
| | - | Total \$ Year One | | | \$2,993,688 plus \$250,000 |

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EXHIBIT 2-Year Two

| | EXHIBIT 2-Year Two | | | | | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------|-----------------------|
| Line# | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended F (Yearly |
| 1 | PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS. Including installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year | Monthly | 12 Months | \$254,463 | \$254,463 | \$3,053,56 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | | \$118 | | |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$176 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | = | \$100 | · | 5 |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$150 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | | \$105 | | |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$158 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | is . | \$122 | | |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$183 | | |

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|------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------|-------------|---|-----|
| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | | \$100 | | |
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER- OVERTIME | Hour | | \$150 | | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | | \$185 | | |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | | \$278 | | 6 |
| 14 . | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | | \$100 | | |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour . | je. | \$150 | | |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | | \$122 | | |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS - OVERTIME | Hour | | \$183 | | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS: TESTING/INSPECTION SPECIALIST | Hour | | \$100 | | |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | - 1 | \$150 | | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | | \$142 | | |
| Sie | M | 35 Slawin Coul lount Prospect SA | | Tel: +1 847 | 4 | 106 |



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| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | | \$212 | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|-------|-------------------------------|
| 22 | PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE | Discount | | | |
| 23 | PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | | | |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | | \$100 | |
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 10% CONTRACT ADMINISTRATION MARKUP | Mark up | - | | |
| | Up to \$250,000 shall be budgeted every year for the length of the contract to cover CDA special projects and work not included under the Monthly Preventative Maintenance and Monitoring Fee (Line 1) | | | | \$250,000 |
| | Total \$ Year Two | | | | \$3,053,562 plus \$250,000 |

Jm Bota 7/1/13

Industry

EXHIBIT 2-Year Three

| Line# | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------|-------------------------|
| 1 | PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS. Including installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year | Monthly | 12 Months | \$262,097 | \$262,097 | \$3,145,169 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | | \$121 | | |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$182 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | | \$103 | | |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$154 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | | \$108 | | |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$162 | | • |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | | \$125 | | |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$188 | | |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------|------|---|-------|-------------|--|
| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | | \$103 | | |
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER- OVERTIME | Hour | | \$154 | | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | | \$191 | | |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | | \$286 | | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | · | \$103 | | |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | | \$154 | | |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | | \$125 | | |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS - OVERTIME | Hour | | \$188 | | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST | Hour | | \$103 | | |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | | \$154 | | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | | \$146 | | |
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| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | \$218 | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------------------------------|
| 22 | PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE | Discount | | |
| 23 | PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | | |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$103 | |
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 10% CONTRACT ADMINISTRATION MARKUP | Mark up | | |
| | Up to \$250,000 shall be budgeted every year for the length of the contract to cover CDA special projects and work not included under the Monthly Preventative Maintenance and Monitoring Fee (Line 1) | | | \$250,000 |
| | Total \$ Year Three | | | \$3,145,169 plus \$250,000 |

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Industry

EXHIBIT 2-Year Four

| | EXHIBIT 2-Year Four | | | | | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------------|------------------------|
| Line# | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended P (Yearly) |
| 1 | PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS. Including installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year | Monthly | 12 Months | \$269,960 | \$269,960 | \$3,239,52 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | | \$125 | | |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | ** | \$187 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | ~ <u>2</u> . | \$106 | | |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$159 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | | \$111 | | |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$167 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | | \$129 | 8 | |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$194 | | |

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| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | \$106 |
|----|--------------------------------------------------------------------------------------------------------------------------------------|------|---------------|
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER- OVERTIME | Hour | \$159 |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | \$196 |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | \$295 |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | \$10 <u>6</u> |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | \$159 |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | \$129 |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS - OVERTIME | Hour | \$194 |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST | Hour | \$106 |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | \$159 |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | \$150 |
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Industry

| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | \$225 | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------------------------------|
| 22 | PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE | Discount | | |
| 23 | PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | | |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$106 | |
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 10% CONTRACT ADMINISTRATION MARKUP | Mark up | | |
| | Up to \$250,000 shall be budgeted every year for the length of the contract to cover CDA special projects and work not included under the Monthly Preventative Maintenance and Monitoring Fee (Line 1) | | | \$250,000 |
| | Total \$ Year Four | | | \$3,239,524 plus \$250,000 |

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Industry

EXHIBIT 2-Year Five

| | EXHIBIT 2-Year Five | | | | | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------------|---------------|
| Line# | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Pric |
| 1 | PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS. Including installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year | Monthly | 12 Months | \$278,058 | \$278,059 | -\$3,336,709 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | | \$128 | | |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$193 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | | \$109 | ex 10.2 | |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$164 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | | \$115 | | |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$172 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | | \$133 | | |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$200 | | |

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| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | \$109 | |
|------|---------------------------------------------------------------------------------------------------------------------------------|------|-------|------|
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER- OVERTIME | Hour | \$164 | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | \$202 | |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | \$304 | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | \$110 | |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | \$164 | |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | \$133 | |
| 17 . | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS - OVERTIME | Hour | \$200 | |
| .18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST | Hour | \$109 | |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | \$164 | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | \$155 | |
| | | | | |

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| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | | \$232 | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|-------|-------------------------------|
| 22 | PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE | Discount | | | |
| 23 | PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | | | |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | | \$109 | |
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 10% CONTRACT ADMINISTRATION MARKUP | Mark up | | | |
| | Up to \$250,000 shall be budgeted every year for the length of the contract to cover CDA special projects and work not included under the Monthly Preventative Maintenance and Monitoring Fee (Line 1) | | · | | \$250,000 |
| | Total \$ Year Five | | | | \$3,336,709 plus \$250,000 |

In Bath 7/1/13

Siemens Rate Comparisons Over 5 Years - New Contract

James 1/1/13

| | | 2013 | rate | 2014 | rate | 2015 | 4 | 0700 | | | | |
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| | | | - | | | 2012 | rate | 2016 | rate | 2017 | rate | 2018 |
| supervisor | regular | 113 | 2% | 7 | 700 | • | | | | | | |
| supervisor | overtime | 170 | 2 200 | 2 1 | 67.0 | 212 | 3% | 121 | 3% | 125 | 3% | 128 |
| specialist | rodudor | 2 2 | 27 | 1/3 | 2% | 176 | 3% | 182 | 38 | 187 | à | 200 |
| | Gariai | 98 | 2% | 86 | 2% | 1001 | 96 | 100 | | 2 | श | 25 |
| specialist | overtime | 144 | 284 | 477 | 2 2 | | 278 | 2 | 3% | 106 | 3% | 109 |
| software engineer | negular | 100 | 200 | | 9,7 | 150 | 3% | 154 | 3%! | 159 | 38 | 184 |
| The state of the s | 1000 | 2 | 7.00 | 103 | 2% | 105 | 367 | 90, | èc | | | 3 |
| Soliwale engineer | loverame | 152 | 2% | 444 | 200 | | 200 | 2 | 2,0 | 111 | 3,5 | 15 |
| electrician | regular | 117 | 960 | 3 3 | 27 | 28 | 3% | 162 | 3% | 167 | 3% | 472 |
| electrician | overtime | 476 | 2 20 | BL. | 2% | 122 | 3% | 125 | 3% | 129 | 3 | 122 |
| month of the lates | | 0/- | 0%.7 | 179 | 2% | 183 | 702 | 100 | 1 | | | 3 |
| medianical labor | regular | 96 | 2% | 8 | è | | 2 | 8 | 3% | 194 | 3% | 200 |
| mechanical labor | overtime | 144 | 790 | 8 ; | 27 | 200 | 3% | 103 | 3% | 106 | 3% | 100 |
| high Temp Engineer | recular | 170 | 2 2 2 | 4 | 2% | 150 | 3% | 154 | 3% | 150 | 36 | 104 |
| high Temp Engineer | 1000 | 2 | %7 | 182 | 2% | 185 | 38 | 191 | 20% | 200 | | 5 |
| and I della Cilian | overame | 267 | % | 27.0 | /90 | 020 | 2 | | 2 | 981 | 200 | 202 |
| fire system specialist | regular | g | 190 | 1 2 2 | 2,78 | 8/7 | 3% | 286 | 3% | 295 | 3% | 304 |
| fire system specialist | Overtimo | | 27 | 8 | 7% | 9 | 3% | 103 | 3% | 406 | à | 3 |
| o) ordin opodalion | | 144 | 2% | 147 | 2% | 155 | 700 | | | 2 | 2 | 80 |
| | | | | | | 3 | 2/2 | 5 | 3.70 | 128 | ار الا | 164 |
| | | | | | | | | | | | | |

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|------------|------------|--------------|--------------|------------------|--------------|--------------|
| 1 | lotals | | 15 788 6E4 | 2 | 1.250.000.00 | 47 040 oca 4 |
| Vrf. /20/1 | (NC) CIT | | 3 336 709 38 | Ί | 250,000,00 | 2 ERR 700 20 |
| Yr4 (3%) | 200 000 04 | L03,500.3 | 3.239.523.67 | 2000000 | 250,000.00 | 3 480 523 67 |
| Yr3 (3%) | 262 007 38 | k | 3,145,168.61 | 250,000,00 | 230,000.00 | 3.395.168.61 |
| Y72 (2%) | 254.463.4R | 2 | 3,033,361.76 | 250,000,00 | 200,000,000 | 3,303,561,76 |
| LL | 249.474.00 | 2 002 600 00 | 2,333,000.00 | 250 000 00 | 00:000 | 3,243,688.00 |
| | Monthly | Vesity | Cally | Special Projects | | pagger |

17,018,6551.43 James & 18ath 7/1/13

SMS & Fire Alarm Maintenance Scope of Work Final Proposal

1. SCOPE OF SERVICES

1.1. INTRODUCTION

This Contract's scope of work includes all of the facilities of Chicago O'Hare International Airport complex served by the Chicago Department of Aviation (CDA). The Contractor shall determine with CDA the exact boundaries. This includes, but is not limited to, the following buildings:

- O'Hare Airport Domestic Terminal Buildings and Tunnels
- The Heating & Refrigeration (H & R) Plant
- Bus/Shuttle Center/Parking Structure
- All CDA Outlying Buildings

The Contractor must perform all hardware/software/communications/networks upgrades including the related preventative maintenance, installations, training, and software support services for the Supervisory Monitoring System (SMS) and the Fire Alarm System (FAS) and related controls. These shall be performed in a professional and satisfactory manner following, at minimum, CDA requirements, industry practices, guidelines, and Standards, National Electrical Manufacturers Association (NEMA) Standards Publication SB 2-2010 (or the latest edition), the latest edition of National Fire Protection Association (NFPA) 72, Americans with Disabilities Act (ADA), the City of Chicago's Mayor's Office for People with Disabilities (MOPD), and the requirements of the City of Chicago Building Code, the City of Chicago Electrical Code, ASHRAE, and any authorities having jurisdiction. Refer to the attached excerpts from various Codes, Standards, and sample industry guidelines.

This Contract includes the completion of presently incomplete Supervisory Monitoring System (SMS) hardware and software upgrades including, but not limited to:

- Graphics
- BACnet Panel Installation
- Software (updates and migration)
- Equipment such as controllers and integral panel components including, but not limited to-electro-pneumatic switches and transducers

Major service and equipment replacement and/or upgrades shall be documented and presented for CDA approval prior to purchase or installation.

Approval for minor service and equipment replacement and/or upgrades previously authorized by CDA is not required as it is included in the monthly Preventative Maintenance and Monitoring services as specified in this contract.

The Contractor must provide the services listed in the following sections in accordance with the attached Exhibit(s).

All preventative and monitoring labor hours including all parts, materials and all incidental costs provided under this contract shall be included in the monthly fee proposed by the Contractor. This contract requires the Contractor to become fully responsible for the preventative maintenance and monitoring as specified in this contract.

1.2 CONTRACTOR RESPONSIBILITIES

- A. The Contractor must provide labor and materials at a time or times further specified and described in other provisions of this Specification. The Services include all labor, transportation, supplies, materials, parts, tools, scaffolding, machinery, hoists, employee safety equipment, lubricants, supervision, applicable taxes, overhead, profit and all other work and materials expressly required under this Specification or reasonably inferred whether or not expressly stated herein. The Services must be performed by the Contractor as follows:
 - 1. Diligently and in a first class, complete and workmanlike manner, free of defect or deficiency, and in conformance with all applicable original manufacturer's specifications.
 - 2. In conformance with the City's rules, regulations, codes and requirements for work at O'Hare International Airport that may be modified and supplemented by the City during the term of the Contract.
 - 3. In such manner as to minimize any annoyance, interference, or disruption to occupants of the O'Hare International Airport, other contractors, their invitees and the general public.
 - 4. The Contractor agrees to perform maintenance services, preventative maintenance procedures, repairs, adjustments and component replacements for the SMS and Life Safety Systems, and related apparatus at the O'Hare International Airport as specified herein, and to furnish all labor, supervision, equipment, materials, supplies and other facilities and do all other things necessary or incidental thereto, all in strict accordance with the provisions of the Contract Documents and any future changes therein; and the Contractor further agrees to assume and perform all other duties and obligations imposed upon him by this Contract.

B. Coordinate with other projects at the Airport

1. The Contractor is required to arrange its operations so as not to interfere with the operations of other contractors that may be working within or adjacent to the limits of the project sites at the Airport.

- 2. The Contractor must protect and save harmless the City from any and all damages or claims that may arise due to inconvenience, delays or loss because of presence of other contractors working within limits of this Contract's work sites.
- C. It is expected that the Contractor shall maintain good communications with the CDA Commissioner to include the following action items:
 - 1. Prompt notification of major work required, safety related or serious problems
 - 2. Notification of any damaged or abused equipment
 - 3. Notification of any equipment not operating as designed
 - 4. Prior notification of shutdown of any equipment
 - 5. Submit fixed written time schedule for repairs as well as monthly, quarterly and annual maintenance and inspections as applicable

1.2-1 PREVENTATIVE MAINTENANCE & MONITORING (PROPOSAL PAGES LINE 1)

A. Terms and Condition:

- 1. The Contractor will provide full comprehensive repair, replacement, adjustment and related service coverage for all component systems unless specifically excluded herein. Failure to define a particular component, service or other procedure does not limit the Contractor's obligation or liability to provide the necessary work or service. The Contractor will perform complete maintenance of the BAS/SMS and Life Safety Systems (FAS) to ensure they may be operated safely in accordance with performance standards and other criteria specified in this agreement twenty-four (24) hours per day, seven (7) days per week except for scheduled preventative maintenance and safety test procedures approved by the CDA Commissioner.
- 2. Pricing for the Preventative Maintenance and Monitoring labor, parts and materials is based on the monthly fee provided by the Contractor as proposed in the proposal worksheet page Exhibit 2 Line 1. This is all inclusive line twenty-four (24) hours per day, seven (7) days per week, including all parts, materials and all incidental costs.
- 3. The monthly fee shall include all tasks under Section 1.2-1 Preventative Maintenance & Monitoring.

B. Routine Inspections and Testing:

1. The Contractor shall make all mandated and/or recommended periodic and routine inspections and tests of the SMS and Life Safety Systems in accordance with the requirements of the latest edition, including, but not limited to the following associations and standards:

NFPA

NEMA

Telecommunications Industry Association (TIA)

Electronic Industries Alliance (EIA)

American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) BACnet Standard 135

American National Standards Institute (ANSI)

- 2. The Contractor shall perform the inspections and tests as they become due without extra charge under the terms of the Contract.
- 3. Inspection and test procedures shall be conducted in accordance with the referenced standards based on dates of previous procedures and records which may be provided by the CDA Commissioner.
- 4. The applicable checklist for each Inspection/Test will be required by the CDA Commissioner as evidence that the Inspection/Test was performed. When required, the Contractor will obtain and file any other applicable inspection or test form as required by local or other governing authorities.
- 5. It will be the Contractor's responsibility to contact the CDA Commissioner to establish mutually convenient dates for the performance of the inspections and tests. Where possible, these inspections and tests will be scheduled so as to coincide with the Contractor's regular maintenance inspections on a not to interfere basis.
- 6. Any deficiencies discovered as a result of the inspections and tests performed by the Contractor will be corrected immediately by the Contractor, after which the equipment will be retested by the Contractor without extra charge to verify that the deficiencies have been corrected to the satisfaction of the CDA Commissioner. Upon completion of these inspections and tests and the correction of deficiencies, the Contractor shall render to the CDA Commissioner a written statement of the results of the inspections and tests. All retesting herein will be at no additional cost to the CDA. The Contractor must perform the annual inspection and test (no load or full load) as mandated under State and/or local law requirements.
- 7. The CDA Commissioner reserves the right to have all inspection and test procedures performed in the presence of a representative of the CDA Commissioner, but such representation does not limit the Contractor's responsibility for performance or recording of the procedures.
- 8. The Contractor, at no additional expense to the CDA, shall perform the inspection and test procedures under the Contract. Any required retesting or re-inspections shall be performed without extra charge to the satisfaction of the CDA Commissioner.
- C. Preventative Maintenance and Monitoring Minimum Staffing:

At a minimum the Contractor shall provide the below mentioned staffing Monday-Friday 7:00 am - 4:00 pm, including one hour lunch break. The Contractor is responsible for scheduling sufficient workers to be able to complete the required preventative maintenance, monitoring, and corrective work and be able to respond to all emergency call-backs as specified in Section 1.2-1 T.

(Qualifications and resumes for all staffing must be provided to CDA for approval before an employee is staffed at the airport).

The following chart contains the minimum onsite daily staffing requirements required under this contract. This daily staffing must be onsite all year around; Monday through Friday 7:00 am - 4:00 pm, including one hour lunch break, except for the Legal Holidays under Section 1.2-1 D. During these Legal Holidays, the Contractor must be able to respond to all emergency call-backs as specified in Section 1.2-1 T.

| Title/Position | Number | Brief Qualifications | | | |
|--------------------------------------------------------|--------|-----------------------------------------------------------------------------|--|--|--|
| Account Supervisor | 1 | Manage Daily activities | | | |
| Software/Systems Engineer | 1 | Design, Program and Maintain SMS System / Database | | | |
| Service/System Specialists (BAS/SMS) | 3 | Trouble Calls/ Preventive Maintenance/ Work Orders | | | |
| Electrician (BAS/SMS) & Fire (FAS) | 1 | Preventive Maintenance / Repairs to BAS/SMS/FAS / Pane Migrations / | | | |
| Mechanical/Pipe Fitter | 1 | Preventive Maintenance of Pneumatic Control Systems (Union 597 Pipe Fitter) | | | |
| Fire Safety Testing and Inspection Specialist (FAS) | 2 | Test and Inspect all Fire Life Safety / Preventive Maintenance | | | |

D. Legal Holidays

The following Legal Holidays will be observed at the Work Site:

New Year's Day - Memorial Day - Independence Day - Labor Day - Thanksgiving Day
Day After Thanksgiving Day - Christmas Eve - Christmas Day-New Year's Eve - One

Floating Holiday

E. Preventative Maintenance Standards & Requirements

The contractor shall perform preventative maintenance on all SMS and fire alarm equipment, which includes, but is not limited to, the list of maintained equipment. Preventative maintenance will be performed in accordance with established industry associations, manufacturers' recommendations, common guidelines and practices, etc., and as directed by CDA. This shall include, but not be limited to, the following associations and standards:

- NFPA
- NEMA

- Telecommunications Industry Association (TIA)
- Electronic Industries Alliance (EIA)
- American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)
 BACnet Standard 135
- American National Standards Institute (ANSI)

F. Wide Area Network

The Contractor shall consult with and recommend to CDA repairs, updates, and enhancements of the wide area network.

The Contractor shall also be responsible for the following:

- The inventory and maintenance of all existing equipment and storage of spare equipment throughout the airport. The inventory shall include the condition of each installed equipment categorized as "Very Good", "Good", "Satisfactory", and "Poor" including remarks on availability of replacement parts for each equipment. All spare equipment shall be stored on-site. The Contractor shall continuously update the inventory list and issue the list quarterly to CDA
- The complete review of the existing network configuration and recommendation to CDA of network performance enhancements
- Software support and the monitoring of systems' networks

G. System Updates

The Contractor shall provide the latest and most up-to-date versions of hardware operating systems, systems software, and firmware. All system software updates, support and licensing shall be included in the monthly fee, Exhibit 2 Line 1

The Contractor shall enable, by upgrading of components, the fire alarm system and devices to seamlessly communicate with each other as if all components of the fire alarm system are from one manufacturer. The Contractor shall replace fire alarm system components that are not able to meet this requirement with a new component presently manufactured and readily available that meets or exceeds the performance of the component/s to be replaced. The new component/s shall be branded and be from the manufacturer that the Contractor will predominantly use for this Contract.

The Contractor shall enable, by upgrading of components, the SMS and devices to seamlessly communicate with each other utilizing BACnet (open protocol). The Contractor shall replace SMS components that are not able to meet this requirement with

a new component presently manufactured and readily available that meets or exceeds the performance of the component to be replaced.

All SMS upgrades and updates initiated on or after this Contract's effective date shall utilize BACnet (open protocol).

H. Graphical User Interface

The Contractor shall create modern, simple, intuitive, but detailed graphics and other graphical user interfaces (GUI) to allow for the ease of use by the various user groups and user experience levels of the Operating Engineers and the O'Hare Communications Center (OCC). The graphics shall be kept up-to-date and shall include 3D models of the exterior and interior of every building and accurately depict the official naming designations of the buildings, its floors, and its spaces. The graphics must accurately depict the floor plans and device locations monitored by the systems. The alarm reporting on the GUI shall identify the exact location of the reporting device in simple and understandable terms and pinpoint precisely its location on the floor plan graphics. The graphics and GUI shall navigate the Operating Engineer to the reporting device in the same way that a navigation device leads a user to a destination. The 3D building models, features, and navigating graphics shall be similar to those on Google Maps and Google Earth.

I. System Backups

The Contractor shall create a back-up of the graphics, databases, and program sequences on a weekly basis, as a minimum, and whenever there are changes to the system unless required more frequently elsewhere in this document.

In the event of a system failure, the Contractor shall reload at each component such as desktop, controller, or other equipment able to store information, the graphics databases and system files using the most recent back-up.

In addition to the in-house regular back-up, as mentioned above, the Contractor shall create and maintain a secondary and current back-up in a remote location, in case the in-house back-up becomes unusable.

J. Field Panel Database/System File Backup

The Contractor shall perform a back-up of each field panel database and system files on a weekly basis, as a minimum, and whenever there are changes to the system unless required more frequently elsewhere in this document.

In the event of a failure, the Contractor shall reload the database using the most recent back-up.

In addition to the in-house regular back-up, as mentioned above, the Contractor shall create a secondary back-up in a remote location, in case if the in-house back-up becomes unusable.

K. Field Panel Database Diagnostics

The Contractor shall perform diagnostics of all field panels as part of the preventative maintenance. The Contractor shall analyze the results and recommend to CDA the needed changes to obtain optimal performance of the systems. The Contractor shall implement the changes after receiving approval from CDA.

The Contractor shall work with City personnel, trades or other sub-contractors on maintenance and control issues, issue prompt writing work orders, and follow-up on problems in a timely manner.

Analyze and submit for review any recommendations to improve system performance.

L. Control Loop Evaluation & Tuning

The Contractor shall provide evaluation and tuning of the control loops to maintain peak system control and efficiency as building and mechanical system characteristics change. These include but are not limited to energy management control within the air handling units, equipment critical for the heating and cooling or control of the Airport facilities, pumping, and Taxiway Bridge de-icing. Furthermore, the loop shall be evaluated with CDA regarding future plans for any facility equipment upgrades and/or system wide expansion.

The Contractor shall work with City personnel, trades or sub-contractors on maintenance and control issues, issue prompt written reports and follow-up on problems in a timely manner. As a minimum, the checklist for the preventative maintenance of control loops shall include the following:

- Dynamically plot and evaluate overall system performance for improper damping or instability which results in energy loss or poor operation.
- Check, clean, and calibrate input/output sensors.
- Verify sensor readings with the controller and replace as required. Calibration of devices shall occur on an annual basis unless noted more often within this document.
- Test and verify input and output signals/levels of controllers, and verify controller response against input signals.

- Check response and stability of control devices in relation to control elements, and calibrate/adjust to meet system sequences or equipment duty.
- Tune the process variables within the controller as necessary.
- Inspect operation of mechanical systems and verify functionality of the integrated system.
- Analyze and submit for review any recommendations to improve system performance.

M. System Upgrades

The Contractor shall provide the latest and most up-to-date versions of hardware, hardware operating systems, systems software, and firmware.

All upgrades and updates initiated on or after this Contract's effective date shall utilize BACnet.

N. Software Consultation

The Contractor shall provide software consultation to resolve software issues.

The Contractor shall provide consultants from one or all of the following three (3) sources:

- The Contractor's on-site technical staff described herein.
- District Wide Installation and Integration Engineers. The Contractor shall provide additional and expert technical staff on-site, if required.
- Corporate headquarters product design and manufacturing engineers. The Contractor shall obtain this level of assistance when necessary. Qualified personnel from this source shall be on-site with four (4) hours of the request. The Contractor and the source shall monitor and evaluate the problem condition until it is resolved.

O. Fire Alarm System & SMS Testing

a. Fire Alarm System Testing

The Contractor shall test the Fire Alarm System and related devices at the intervals recommended by NFPA 72 and NEMA SB 2. These items include, but are not limited to:

- Manual Pull Stations
- Heat Detectors
- Smoke Detectors

- Duct Detectors
- Speakers/Visual Alarms/Alarm Indicating Appliances
- Fire Door Releases
- Sprinkler System Components
- Fire Alarm System Control Units
- Zone Addressable Modules
- Auxiliary/Municipal Tie
- Fire Alarm Panels

Testing of all Fire Pumps and Smoke Control System sequence is part of this Contract and included here. This task must be coordinated with Chicago Fire Department.

b. SMS Testing

The Contractor shall test the SMS and related devices at the intervals recommended by ASHRAE Standard 180.

P. Corrective Maintenance & Component Replacement

The Contractor shall test and repair or replace failed or worn Fire Alarm System and SMS components to maintain the equipment and system reliability in peak operating condition and to minimize its obsolescence. The Contractor shall upgrade equipment by systematically modernizing existing components as directed by the leadership of the CDA. Components that are faulty must be repaired or replaced. The labor, parts and material costs are included within the scope of this Technical Support Program in the Monthly Fee, Exhibit 2 Line 1.

Q. System Consultation

The Contractor shall provide the necessary consultants to assist the CDA in isolating, identifying, resolving, and verifying systems problems. The Contractor shall provide consultants from one or all of the following three (3) sources:

- a. The Contractor's on-site technical staff described herein.
- b. Local installation and integration engineers. The Contractor shall provide additional and expert technical staff on-site, if required.
- c. Day-to-day monitoring of systems will be by CDA. The Contractor's technical staff will provide CDA with support as requested and as required.

R. System Engineering & Consultation

The Contractor shall provide professional engineering staff licensed in the State of Illinois to assist CDA to solve problems related to the SMS and Life Safety Systems, recommend sensible and practical upgrades and enhancements related to the systems previously described and including, but not limited to, fire and life safety and interlocks, energy management, HVAC systems, electrical power distribution systems, Plumbing and Fire Protection systems, and other associated engineering disciplines

S. User Training

On-Site Training

The Contractor shall provide on-site training of the systems to all CDA Operating Engineers, OCC Fire Desk personnel and other CDA employees. The Contractor shall schedule this training to meet the 24 hour CDA operational needs so that all CDA Operating Engineers, OCC Fire Desk personnel and other CDA employees are trained in all topics. The complete cycle of training courses shall repeat quarterly and/or as needed and include refresher as well as new courses to new CDA Operating Engineers, OCC Fire Desk personnel and other CDA employees' needs. Additional system training shall occur following the commissioning of any new system installation.

Training Station Materials

The Contractor shall make available an on-site training center complete with training materials that can be used as reference by the CDA Operating Engineers, OCC Fire Desk personnel and other CDA employees.

T. Emergency & Call-Back Options for Systems Performance Services

The Contractor shall provide emergency service Monday through Sunday including holidays, twenty four (24) hours per day to minimize systems and equipment downtime. The Contractor shall coordinate this need with the leadership of the CDA. The Contractor must respond within the following timeframes:

Emergency On-Line Response within Two (2) Hours: The Contractor shall respond to CDA emergency service requests via remote access within two hours of the request. The Contractor may diagnose the situation remotely. However, the Contractor shall be on-site within the response time required below should the Contractor's remote diagnosis determine that on-site work is required to resolve the problem.

• On-Site Response within Four (4) Hours: The Contractor shall be on-site to provide emergency service with four (hours) of the CDA emergency service request if on-site work is required to resolve the problem. The Contractor shall resolve non-emergency calls on the next weekday and inform the leadership of the CDA of this plan.

1.2-2 LABOR COMPENSATION FOR WORK NOT COVERED UNDER THE MONTHLY PREVENTATIVE MAINTENANCE AND MONITORING FEE (PROPOSAL PAGES LINES 2-21)

The Contractor, when executing the Proposal pages of this Specification, will quote only two (2) rates for the worker categories based on the Work Hours stated below. All work not covered within the monthly maintenance and monitoring fee must be approved in advance by the CDA Commissioner.

The Contractor may only charge the hourly rate for work that includes upgrade and modernization projects, or work not covered under the monthly preventative maintenance fee. This work must have prior approval of CDA Commissioner in the form of a purchase order (P.O.) release.

- a. Regular Time (Proposal Pages-Line Items 2, 4, 6, 8, 10, 12, 14, 16, 18, 20): Any nine (9) consecutive work hours with an unpaid one hour lunch period, between the hours of 7:00 a.m. and 4:00 p.m., Monday through Friday.
- b. Overtime (Proposal Pages-Line Items 3, 5, 7, 9, 11, 13, 15, 17, 19, 21):
 - i. Hours worked in excess of eight (8) hours between the hours of 7:00 a.m. 4:00 p.m., Monday through Friday.
 - ii. Any hours worked before 7:00 a.m. or after 4:00 p.m., Monday through Friday.
 - iii. All day Saturday, Sunday, and holidays as shown above

1.3 PARTS MANUFACTURED BY THE CONTRACTOR AT A CATALOG LIST PRICE DISCOUNT NOT COVERED UNDER THE MONTHLY PREVENTATIVE MAINTENANCE AND MONITORING FEE (PROPOSAL PAGES-LINE ITEM 22)

The Contractor shall supply the parts manufactured by the Contractor, at the discounted price agreed upon in Exhibit 2 Line 22. The list price catalog and subsequent revisions shall be made part of this contract.

1.4 PARTS NOT MANUFACTURED BY THE CONTRACTOR AT COST PLUS A MARK UP NOT COVERED UNDER THE MONTHLY PREVENTATIVE MAINTENANCE AND MONITORING FEE (PROPOSAL PAGES-LINE ITEM 23)

The Contractor shall acquire and supply to CDA all needed parts not manufactured by the Contractor. These parts will be charged at cost plus a markup percentage of the cost as agreed upon in Exhibit 2 Line 23. The Contractor shall supply all third party parts invoices with the monthly billing.

1.5 SUBCONTRACTOR SERVICES AT COST PLUS A MARK UP NOT COVERED UNDER THE MONTHLY PREVENTATIVE MAINTENANCE AND MONITORING FEE (PROPOSAL PAGES-LINE ITEM 25)

The Contractor shall have access to subcontractors, the services of these subcontractors shall be charged at cost plus a markup percentage of the cost as agreed upon in Exhibit 2 Line 25. The Contractor shall supply all subcontractors' invoices with the monthly billing.

1.6 PERSONNEL QUALIFICATIONS

Account Supervisor - Supervises the operation of multiple installations, including creating and implementing work plans. Completes maintenance contracts and service agreements and ensures they are being met. Supervises projects within the business, including project organization, definition, planning, implementation and control. Supervises operational activities on an ongoing daily basis, exercising tight cost control and maximizing price realization. Seeks customer feedback and takes action to ensure customer satisfaction. Assists with job cost re-estimates.

<u>Software Systems Engineer</u> - Performs on-site technical and operational support in the design, development, installation and maintenance of equipment and systems of a complex nature. Performs complex site surveys to develop base or installation design plans. Performs training customers to maintain and adjust complex equipment. Completes and submits reports covering all job activity. Performs in maintaining complex tools, test equipment, calibration items, etc. May complete the planning and estimating of labor categories, rates, material dollar costs, transportation expenses and per diem rates to complete complex proposals. Performs the review of complex task plans, drawings, and installation schematics and provides continual guidance throughout task duration.

<u>Service Specialist SMS</u> - Guides the most complex maintenance on tools, test equipment, etc., and completes documents of all installations, inspections, maintenance and repair work, and failures. Leads the most complex service or systems calls and interfaces with customer personnel to provide quality service and feedback on problem evaluation and resolution. Guides assessment of the most complex installation and service of product/equipment performance based on field support data and designs modifications or improvements.

<u>Service Specialist Fire</u> - Guides the most complex maintenance on tools, test equipment, etc., and completes documents of all installations, inspections, maintenance and repair work, and failures. Leads the most complex service or systems calls and interfaces with customer personnel to provide quality service and feedback on problem evaluation and resolution. Guides assessment of the most complex installation and service of product/equipment performance based on field support data and designs modifications or improvements.

<u>Mechanical/Pipe Fitter</u> - the Contractor shall provide the services of a journeyman Mechanic/Pipe Fitter, who shall possess the skills necessary to inspect service, upgrade, install, and calibrate the pneumatic and/or electronic control devices of the SMS.

<u>BAS/SMS Electrician</u> - The Contractor must provide access to the services of a highly skilled and capable control system electrician specialized in electrical installation capability for dedicated controllers interlocks and related fiber optic and fire life safety system installation.

<u>FAS - Fire Alarm Electrician</u> - The Contractor shall have the necessary expertise of experience in the installation of multiplexed fire alarm systems. The Contractor shall provide the services of a National Institute for Certification in Engineering Technologies (NICET) Level IV technician supplied by the fire alarm system manufacturer to supervise installation, adjustments, and tests of the system.

<u>Fire Alarm Inspector</u> - Assists with routine equipment installation, trial runs and service activity runs to ensure that it meets specifications. Provides assistance with training customers to maintain and adjust routine equipment. Performs routine maintenance on tools, test equipment, etc. and completes required service or systems paperwork. Assists with responding to routine service or systems calls. Performs routine work within technical or paraprofessional area. Identifies problems as they occur and suggests appropriate steps to solve them in situations where the problem is not difficult or complex. Seeks advice and guidance on non-routine or problem areas from others.

Energy Engineer - Conducts facility site visits, analyzes current situation and produces facility improvement measures plans. Performs and supervises preliminary and detailed facility audits to identify facility improvement measures (FIMS) and/or opportunities. Coordinates and leads facility site visits and communicates with outside vendors as it pertains to FIMS. Analyzes blue prints and performs site surveys to identify mechanical, electrical, and control systems and determines facility operational characteristics. Applies building energy simulation programs to develop energy, cooling, and heating load-building models using modeling software. Prepares financial models related to payment including an understanding of ROI, life cycle costing and internal rate of return. Participates in client meetings and presentations.

1.8 DOCUMENTATION AND QUALITY ASSURANCE

A. Documentation of All Services Provided

The Contractor shall document each remote and on-site service call and furnish CDA with a copy of the report which includes the time, date, and a brief description of the activity. Work orders for on-site system preventative maintenance shall list the inspection date, the reporting CDA personnel, equipment identification, work to be performed and any special instructions. Upon completion of the work, the Contractor shall obtain a signature from the leadership of the CDA confirming that the service work has been completed. Certified attendance payroll records must be submitted to CDA with the monthly invoices.

The Contractor shall also complete all pertinent required documentation per NFPA 72 Chapter 7.

B. Quality Assurance Program

The Contractor shall meet with the leadership of the CDA to evaluate the performance of the systems and to review the quality of the service that the Contractor is providing under this Technical Support Program. Provide this report and evaluation to the leadership of the CDA who will then submit this report and evaluation to the CDA Commissioner.

EXHIBIT 1

LIST OF MAINTAINED EQUIPMENTAND SYSTEMS

Contractor will maintain, repair, and replace all existing and new installations

| Fire Equipment | Repair/ Replace/ Maintain | Quantity As of February 2013 | |
|-----------------------------------------------|---------------------------------|------------------------------|-----------------------------------------------------|
| System Components | | | |
| CENTRAL CONTROL PANEL (Siemens XLS FACP) | X | 9 | |
| CENTRAL CONTROL PANEL (EST FCC FACP) OBSOLETE | X | 4 | |
| REMOTE CONTROL UNITS (IRC1,IRC3) | X | 78 | |
| ANNUNCIATORS | X | 14 | |
| PRIMARY POWER INPUT | х | 91 | |
| SECONDARY POWER INPUT(BATTERIES sets) | X | 91 | |
| NOTIFICATION APPLIANCES CIRCUITS | X | 1140 | |
| INDICATING DEVICES CIRCUITS | X | 80 | |
| SMOKE CONTROL PANELS | X | | |
| FIREFIGHTER SMOKE CONTROL STATION | X | | |
| PRE-ACTION PANELS (Siemens, Fenwal, Norifier) | X | 51 | |
| Initiating Devices | | | |
| HEAT DETECTOR | X | 387 | |
| SMOKE DETECTORS (CEILING & DUCT) | X | 1751 | CDA . |
| WATER FLOWS | X | 271 | CDA personnel to assist in test and reset of system |
| PULL STATIONS | X | 132 | |
| FLAME DETECTORS | X | 2 | |

| System Components | Repair/ Replace/ Maintain | Quantity As of February 2013 | |
|---------------------------------------------|---------------------------------|------------------------------|-----------------------------------------------------|
| Supervisory Devices | | | |
| LOW PRESSURE SWITCH | х | 60 | CDA personnel to assist in test and reset of system |
| TAMPER SWITCHES | X | 403 | |
| <u>Outputs</u> | | | |
| ELEVATOR RECALL | x | 59 | CDA personnel to assist in test and reset of system |
| FIRE DOOR TESTING | x | 135 | CDA personnel to assist in test and reset of system |
| SMS TIE IN INTERFACE | х | 13 | CDA personnel to assist in test and reset of system |
| Miscellaneous Systems | | | |
| CO2 FIRE TESTING | X | 2 | |
| CEASE FIRE VISUAL INSPECTION | X | 100 | / |
| FIRE PUMP TEST | X | 8 | |
| HALON TESTING | X | | |
| PNEUMATIC FIRE DEVICES (COMPRESSORS) FITTER | X | | CDA personnel to assist in test and reset of system |
| FAA TOWER REPORT TO CENTRAL STATION | X | 1 | |
| SMOKE DAMPERS | X | 4 | |
| FIRE DAMPERS | x | | |

SMS & FIRE INTERFACE DEVICES

Contractor will maintain, repair, and replace all existing and new installations

| Туре | 3 rd Party Vendor |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | |
| XLS DRIVER | SIEMENS FIRE |
| | SIEMENS FIRE |
| THE BILLY DIC | (OBSOLETE PARTIALLY REPLACED |
| EST DRIVER | WITH XLS DRIVER) |
| | (OBSOLETE PARTIALLY REPLACED |
| EST DRIVER | WITH XLS DRIVER) |
| | (OBSOLETE PARTIALLY REPLACED |
| EST DRIVER | WITH XLS DRIVER) |
| | IRC2 EST FIRE(OBSOLETE) |
| | IRC2 EST FIRE(OBSOLETE) |
| | |
| | |
| MODBUS | EATON |
| MODBUS | EATON |
| | |
| | |
| MODBUS | ALLEN\BRADLEY |
| | |
| | |
| MODBUS | |
| MODBUS | |
| | |
| | |
| MODBUS | SIEMENS ENERGY |
| MODBUS | CATERPILLAR |
| | XLS DRIVER EST DRIVER MODBUS MODBUS MODBUS MODBUS MODBUS MODBUS MODBUS MODBUS MODBUS |

| _ | Total Units | |
|------------------------------------------------------------------------------------|---------------------|--------|
| 3 rd Party Maintained Systems | As of February 2013 | Note |
| OCC LIEBERTS | 5 | NOTE 1 |
| FED X LIFT STATION PLC | 1 | NOTE 1 |
| UNITED CARGO LIFT STATION PLC | 1 | NOTE 1 |
| BUILDING 643 LIFT STATION PLC | 1 | NOTE 1 |
| BUILDING 800 LIFT STATION (SIGNATURE) PLC | 1 | NOTE 1 |
| ST140 PUMP STATION PLC | 1 | NOTE 1 |
| SOUTH BASIN PLC | 1 | NOTE 1 |
| NORTH BASIN PLC | 1 | NOTE 1 |
| CENTRAL BASIN PLC | 1 | NOTE 1 |
| BUILDING 505 DEICER PLC | 1 | NOTE 1 |
| WATER METER CALIBRATION | 14 | NOTE 1 |
| MWRD DATA STORAGE | 1 | NOTE 1 |
| BUILDING 450 HTW GENERATORS PLC\FRONT END | 10 | NOTE 1 |
| CLIENT COMPUTERS\PRINTERS | 35 | NOTE 1 |
| L-CONCOURSE AUTOMATED LOGIC CONTROLLER | 1 | NOTE 1 |
| PC AIR STATIONS | 1 | NOTE 1 |
| LIGHTING CONTROL | 3 | NOTE 1 |
| EBTRON AIR FLOW STATION CALIBRATION | 6 | NOTE 1 |
| CHART RECORDER TOUCHSCREENS | | NOTE 1 |
| UPS SYSTEM | | NOTE 1 |
| VFD INTERFACE | | NOTE 1 |
| SUB-METERING SYSTEMS (ELECTRICAL, GAS, WATER, ETC.) | | NOTE 1 |
| PNEUMATIC CONTROLS | | NOTE 2 |
| | | |
| Note 1: Any future add-ons will fall under the SMS contract. | | |
| Note 2: Fifter to demo, troubleshoot, repair, and replace throughout terminals and | | |
| outlying buildings. | | |

| N. 4 1 (0) (0 X 1 | Quantity | |
|-------------------------------------------------------------|---------------------|--------------|
| Network/SMS Hardware | As of February 2013 | |
| Equipment | | Manufacturer |
| COMPUTERS | | |
| APOGEE DATABASE SERVER | 1 | DELL |
| APOGEE WORKSTATIONS | 49 | VARIOUS |
| MONITORS | 49 | VARIOUS |
| PRINTERS | 17 | VARIOUS |
| APOGEE SOFTWARE | ALL | |
| DESIGO DATABASE SERVER | 1 | |
| NETWORK | | |
| MEDIA CONVERTERS | 14 | |
| HUBS | 5 | |
| Unmanaged Switch | 42 | |
| FIELD PANELS | | |
| BLN FIELD PANELS | 366 | SIEMENS |
| FLN FIELD PANELS | 311 | SIEMENS |
| TEC P1 | 272 | SIEMENS |
| AEM 100 (ETHERNET) | 2 | SIEMENS |
| MODEMS | 16 | VARIOUS |
| ALN BACNET\IP CONTROLLER | 186 | SIEMENS |
| ALN ETHERNET CONTROLLER | 11 | SIEMENS |
| BACNET MSTP CONTROLLER | 182 | SIEMENS |
| Note 1: Any future add-ons will fall under the SMS contract | | 110 |

| WW. C | Quantity | |
|--------------------------------------------------------------|---------------------|-------------|
| HVAC EQUIPMENT CONTROLS | As of February 2013 | Note NOTE 1 |
| AC UNITS | | NOIDI |
| OCC | 4 | |
| AHUs | · | |
| FULL CONTROL | 165 | |
| STATIC CONTROL | 4 | |
| AHU CONTROL DELTA INTERFACE | 9 | |
| HEAT EXCHANGERS | | |
| FULL CONTROL | 46 | |
| AIR COMPRESSORS | | |
| AIR COMPRESSOR (FULL CONTROL) | 6 | |
| PUMP SYSTEMS | | |
| CHILLED WATER PUMP (FULL CONTROL) | 12 | |
| HTW SYSTEM PUMPS (FULL CONTROL) | 1 | |
| DOMESTIC WATER PUMP (FULL CONTROL) | 1 | |
| BOILER CONTROL (FULL CONTROL) | 1 | |
| VAV BOX CONTROL (FULL CONTROL) | 467 | |
| HEAT PUMP CONTROL (FULL CONTROL) | 11 | |
| LTW PUMP (FULL CONTROL) | 158 | |
| Note 1: Any future add-ons will fall under the SMS contract. | | |

| Miscellaneous | Quantity | |
|--------------------------------------------------------------|---------------------|-------------|
| Equipment | As of February 2013 | Note NOTE 1 |
| CARBON MONOXIDE SYSTEMS | | NOIL |
| UAL BAGGAGE | 1 | |
| AAL BAGGAGE | 1 | |
| H&R | 1 | |
| PEOPLE MOVERS (ALARMS TO SMS) | | |
| ELEVATORS | 92 | |
| TRAVELATORS | 8 | |
| ESCALATORS | 69 | |
| <u>LIFT STATIONS</u> | | |
| TOUHY (EAST/WEST) | 2 | |
| DAYTONA BEACH | 1 | |
| LAKE O'HARE (SOUTH BASIN) | 1 | |
| BURN PIT | 1 | |
| MIAMI BEACH | 1 | |
| NORTH STORM WATER (ST140) | 1 | |
| <u>OTHERS</u> | | |
| HEAT TRACE ALARMS | | |
| VEEDER ROOT SYSTEM | | |
| Note 1: Any future add-ons will fall under the SMS contract. | | |

EXHIBIT 2-Year One

| | EARIBIT 2- Year One | | | | | |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------|-------------------------|
| Line # | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
| 1 | PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS. Including installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year | Monthly | 12 Months | \$249,474 | \$249,474 | \$2,993,688 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | | \$115 | | |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$173 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | | \$98 | | |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$147 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | | \$103 | | |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$155 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | | \$119 | | |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$179 | | |

| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | н | \$98 | |
|----|--------------------------------------------------------------------------------------------------------------------------------------|------|---|-------|----|
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER- OVERTIME | Hour | | \$147 | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | | \$182 | |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | | \$272 | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | | \$98 | |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | | \$147 | |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | | \$119 | |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS - OVERTIME | Hour | | \$179 | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST | Hour | | \$98 | |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | | \$147 | 39 |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | | \$139 | |

| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | | \$208 | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|-------|-------------------------------|
| 22 | PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE | Discount | ē | | |
| 23 | PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | | | |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | | \$98 | |
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 10% CONTRACT ADMINISTRATION MARKUP | Mark up | | | |
| | Up to \$250,000 shall be budgeted every year for the length of the contract to cover CDA special projects and work not included under the Monthly Preventative Maintenance and Monitoring Fee (Line 1) | | | | \$250,000 |
| | Total \$ Year One | | | | \$2,993,688 plus \$250,000 |

EXHIBIT 2-Year Two

| | EARIBIT 2-Year TWO | | | | | |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------|----------------------------|
| Line # | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
| 1 | PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS. Including installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year | Monthly | 12 Months | \$254,463 | \$254,463 | \$3,053,562 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | | \$118 | | |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$176 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | | \$100 | | |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$150 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | | \$105 | | |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$158 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | | \$122 | | |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$183 | | |

| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | \$100 | |
|----|---------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER- OVERTIME | Hour | \$150 | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | \$185 | |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | \$278 | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | \$100 | |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | \$150 | , per |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | \$122 | |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS - OVERTIME | Hour | \$183 | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST | Hour | \$100 | |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | \$150 | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | \$142 | |

| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | \$212 | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------------------------------|
| 22 | PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE | Discount | | |
| 23 | PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | | |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$100 | |
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 10% CONTRACT ADMINISTRATION MARKUP | Mark up | | |
| | Up to \$250,000 shall be budgeted every year for the length of the contract to cover CDA special projects and work not included under the Monthly Preventative Maintenance and Monitoring Fee (Line 1) | | | \$250,000 |
| | Total \$ Year Two | | | \$3,053,562 plus \$250,000 |

EXHIBIT 2-Year Three

| | EXILIBIT 2-1 car Three | | | | | |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------|-------------------------|
| Line # | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
| 1 | PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS. Including installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year | Monthly | 12 Months | \$262,097 | \$262,097 | \$3,145,169 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | | \$121 | 18 | |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$182 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | | \$103 | | |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$154 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | | \$108 | | |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$162 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | | \$125 | | 8 |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$188 | | |

| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | \$103 | |
|----|---------------------------------------------------------------------------------------------------------------------------------|------|-------|--|
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER- OVERTIME | Hour | \$154 | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | \$191 | |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | \$286 | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | \$103 | |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | \$154 | |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | \$125 | |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS - OVERTIME | Hour | \$188 | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST | Hour | \$103 | |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | \$154 | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | \$146 | |

| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | \$218 | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------------------------------|
| 22 | PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE | Discount | | |
| 23 | PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | | |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$103 | |
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 10% CONTRACT ADMINISTRATION MARKUP | Mark up | | |
| | Up to \$250,000 shall be budgeted every year for the length of the contract to cover CDA special projects and work not included under the Monthly Preventative Maintenance and Monitoring Fee (Line 1) | | | \$250,000 |
| | Total \$ Year Three | | | \$3,145,169 plus \$250,000 |

EXHIBIT 2-Year Four

| | EARIDIT 2-Year Four | | | | | |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------|-------------------------|
| Line # | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
| 1 | PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS. Including installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year | Monthly | 12 Months | \$269,960 | \$269,960 | \$3,239,524 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | | \$125 | | |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$187 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | | \$106 | 12 | |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$159 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | | \$111 | | |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$167 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | | \$129 | | |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$194 | | |

| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | \$106 | |
|----|---------------------------------------------------------------------------------------------------------------------------------|------|-------|--|
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER- OVERTIME | Hour | \$159 | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | \$196 | |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | \$295 | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | \$106 | |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | \$159 | |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | \$129 | |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS - OVERTIME | Hour | \$194 | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST | Hour | \$106 | |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | \$159 | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | \$150 | |

| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | \$225 | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------------------------------|
| 22 | PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE | Discount | | |
| 23 | PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | | |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$106 | |
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 10% CONTRACT ADMINISTRATION MARKUP | Mark up | | |
| | Up to \$250,000 shall be budgeted every year for the length of the contract to cover CDA special projects and work not included under the Monthly Preventative Maintenance and Monitoring Fee (Line 1) | | | \$250,000 |
| | Total \$ Year Four | | | \$3,239,524 plus \$250,000 |

EXHIBIT 2-Year Five

| Line# | Item Description | UOM | Estimated Usage Quantity (Monthly) | Unit Price | Extended Price (Monthly) | Extended Price (Yearly) |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------------|--------------------------|-------------------------|
| 1 | PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS. Including installation of five (5) new BACnet panels per month for a total of 60 new BACnet panels per year | Monthly | 12 Months | \$278,058 | \$278,059 | \$3,336,709 |
| 2 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR | Hour | | \$128 | | |
| 3 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME | Hour | | \$193 | | |
| 4 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST | Hour | | \$109 | | |
| 5 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS SPECIALIST- OVERTIME | Hour | | \$164 | | |
| 6 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE | Hour | | \$115 | | |
| 7 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME | Hour | | \$172 | | |
| 8 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL | Hour | at . | \$133 | | |
| 9 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SMS/BAS ELECTRICAL-OVERTIME | Hour | | \$200 | | |

| 10 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER | Hour | \$ | 5109 | |
|----|--------------------------------------------------------------------------------------------------------------------------------------|------|------|------|--|
| 11 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER- OVERTIME | Hour | s | 5164 | |
| 12 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR | Hour | \$ | 202 | |
| 13 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR- OVERTIME | Hour | \$. | 304 | |
| 14 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS | Hour | \$ | 110 | |
| 15 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME | Hour | \$1 | 164 | |
| 16 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS | Hour | \$1 | 133 | |
| 17 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS - OVERTIME | Hour | \$2 | 200 | |
| 18 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST | Hour | \$1 | 09 | |
| 19 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS- TESTING/INSPECTION SPECIALIST - OVERTIME | Hour | \$1 | 64 | |
| 20 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER | Hour | \$1: | 55 | |

| 21 | MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME | Hour | \$232 | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|----|-------------------------------|
| 22 | PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE | Discount | | | |
| 23 | PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES | Mark up | | 'n | |
| 24 | TRAINING OF DEPT OF AVIATION EMPLOYEES ON AN AS REQUESTED BASIS BY CDA | Hour | \$109 | | |
| 25 | SUBCONTRACTOR SERVICES AT COST PLUS 10% CONTRACT ADMINISTRATION MARKUP | Mark up | | | |
| | Up to \$250,000 shall be budgeted every year for the length of the contract to cover CDA special projects and work not included under the Monthly Preventative Maintenance and Monitoring Fee (Line 1) | | | | \$250,000 |
| | Total \$ Year Five | | | | \$3,336,709 plus \$250,000 |

EXHIBIT 3

Samples of Items Within the Scope of Monthly Fixed Fee Coverage Line 1:

- Installation and replacing five (5) non BACNet panels with five (5) new BACnet panels per month for a total of 60 new BACnet panels per year over the length of this contract
- CDA replaces HVAC equipment like for like, the Contractor will re-install controls on new pump, motor, damper etc.
- A point(s) need to be added to an existing piece of equipment to a local panel, this would be done under the contract.
- Small repairs/replacements of equipment not necessarily defective which takes 1 man day or less to perform
- FAA Tower reporting (alarms) to Central Station
- Preventive Maintenance Fire and SMS Building Automation System
- Provide all necessary manpower, tools, computers, software and training on site at the O'Hare International Airport.
- Repair and Replacement all Siemens equipment found defective.
- As equipment is found to be defective on normal PM, the equipment will be replaced to keep system operational, all labor for repair and replacement of equipment found defective.
- Monthly Fire System FAS reporting to help with insurance regulations
- Monthly SMS Building Automation reports of PM performed.
- System Software Backups on a weekly basis.
- Secondary back up in separate location of airport.
- System updates to latest revision of software available.
- Control Loop Evaluation and Tuning (Software system checks on all AHUs) Field Panel Data Base Diagnostics
- Field Panel Backup on each PM visit to the associated equipment.
- Emergency after hour response
- Maintain Client computers with appropriate Siemens software and updates. Analyze results of monthly information for optimal performance of systems.
- Train CDA personnel in operation of System(s)
- Analyze and submit for review any recommendations to improve system performance.
- Check clean and calibrate all input/output devices.
- Verify Sensor readings with computer and replace sensors as needed.
- Inspect operation of mechanical systems and verify capability of integrated systems.
- Bring in corporate support when needed.
- Work with consultants that are brought in by CDA.
- Emergency Service on line within 2 hours.