



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	Telephone	Date	Signature of Application Author
Aviation	James Harney	773.686.4604	9/25/2023	<i>[Signature]</i>
Contract Liaison	Email Contract Liaison	Telephone		<i>[Signature]</i>
Rosemary McDonnell	rosemary.mcdonnell3@cit yofchicago.org	773.894.1822		11/21/23

List Name of NCRB Attendees/Department

James Harney
Peter Butkovic
Rosemary McDonnell
Adella Gillespie

Request NCRB review be conducted for the product(s) and/or service(s) described herein.

Company: Siemens Industry, Inc. Infrastructure & Cities Sector Building Technologies Division Building Automation
1701 Golf Road, Rolling Meadows, IL 60008, Tower 3 Suite 500

Contact Person: AJ DeGeorge
Phone: (224)342-3448
Email: anthony.degeorge@siemens.com

Project Description: SuperO'Hare Building Automation Systems (BAS) and Fire Alarm System (FAS)

This is a request for:

New Contract

Amendment / Modification

Contract Type

Type of Modification

Blanket Agreement Term: _____ (# of mo)
 Standard Agreement

Time Extension Vendor Limit Increase Scope Change
Contract Number: **84871**
Specification Number: **784155**
Modification Number: **1**

<p>Department Request Approval</p> <p><i>[Signature]</i> _____ DEPARTMENT HEAD OR DESIGNEE DAVID P WINTERS PRINT NAME</p> <p style="text-align: right;">9/26/23 DATE</p>	<p>Recommended Approval</p> <p><i>[Signature]</i> _____ BOARD CHAIRPERSON Steven M. Lobola PRINT NAME</p> <p style="text-align: right;">12/6/2023 DATE</p>
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(FOR NCRB USE ONLY)

Recommend Approval/Date: _____

Return to Department/Date: _____

Initiated/Date: _____

Approved Rejected

[Signature]

CHIEF PROCUREMENT OFFICER 12/6/2023
DATE




CITY OF CHICAGO

CHICAGO DEPARTMENT OF AVIATION

To: Steve Loboda
Chair, Non-Competitive Review Board

Attention: Troy Nanan
Data Services Administrator

From: 
David P. Winters
Chief Accountability Officer/Managing Deputy Commissioner

Date: 10/12/23

Subject: CDA Revised Submission

“Support & Maintenance of the Supervisory Monitoring Systems (SMS)
and the Fire Alarm System (FAS)”

Vendor: Siemens Industry Inc. 01
Requisition Number: 552120
Specification Number: 784155
Expiring PO Number: 84871

The Chicago Department of Aviation (CDA) respectfully resubmits this packet to the Non-Competitive Review Board (NCRB). Enclosed in this revised packet are the required documents with corrections to the following:

1. DPS Checklist: Updated “PO End Date” to 12/31/2025
2. Standalone quote from Vendor with authorized signature
3. Updated documents for M/WBE Compliance.
 - Initial Concurrence letter to Deputy Procurement Officer.
 - Email to Deputy Procurement Officer
 - New Concurrence letter to Contracting Equity Officer
 - Email to Contracting Equity Officer
 - Supporting M/WBE documents previously submitted
4. Certificate of Filing for EDS from Vendor
5. Email correspondence with Vendor on current terms and conditions
6. Corrected date on the request Memo to the CPO

Thank you for your consideration.



CITY OF CHICAGO

CHICAGO DEPARTMENT OF AVIATION

To: Aileen Velazquez
Chief Procurement Officer

Attention: Steven Loboda
Chair, Non-Competitive Review Board

Lorel D. Blameuser
Deputy Procurement Officer

From: 
David P. Winters
Chief Accountability Officer

Date: 10/6/23

Subject: CDA Request for a Contract Modification for "Support & Maintenance of the Supervisory Monitoring Systems (SMS) and the Fire Alarm System) (FAS)

Vendor: Siemens Industry, Inc. 01
Requisition No.: 552120
Specification No.: 784155
Contract Award Date: January 1, 2019
Current End Date: December 31, 2023
Expiring PO No.: 84871

The Chicago Department of Aviation (CDA) is providing additional items for its request to the Non-Competitive Review Board (NCRB) that was submitted on September 26, 2023. The CDA requests a two-year time extension and vendor limit increase for the contract. The current contract expires December 31, 2023. The CDA requests the extension for two years in order to maintain continuity of operations. Siemens 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.

Request and Background

Siemens Industry Inc. 01 ("Siemens") is the manufacturer, designer, supplier, and installer of the equipment known as the Supervisory Monitoring System (SMS) and the Fire Alarm System (FAS) – also referred to as Building Automation System (BAS). The SMS and the FAS continue to be serviced, maintained, repaired, and upgraded throughout the terminals and other designated locations. Siemens originally was awarded the design and installation contract via the RFQ/RFP process in 1988. They were among three firms which submitted proposals. At that time, they were known as Landis & Staefa. They have maintained the system on a sole source

contract basis since then. The primary hardware components of the SMS and FAS system are either manufactured by or designed by and manufactured specifically for Siemens. The Supervisory Monitoring and the Fire Alarm Systems and software used are proprietary to Siemens and the company does not license any third-party vendors to use its equipment. The software that operates the systems on all levels (BACNet Controller, Data network Closet Central, Network Processor Insign and Desigo server, and interfaces, were designed and written by Siemens on a proprietary basis. This is an entirely proprietary system, and only Siemens has the capability to fully service the system. 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.

CDA has invested in open-protocol network infrastructure (BACNet) to link devices across the systems. While it is theoretically possible for devices from one manufacture 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 manufacture than the device hardware manufacturer. We plan 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, we believe the best value for the CDA can be achieved by building on the significant investment to date in Siemens hardware and software and continuing to standardize Siemens products. In addition, in order to maintain continuity of operations and ensure that the Supervisory Monitoring Systems and the Fire Alarm Systems do not fail, it is imperative to extend this contract with Siemens.

Current Requirements

Siemens has provided ongoing support of the above-mentioned systems and continues to complete the work for this contract because we manufacture the products and software for the Fire Life Safety and BAS systems currently installed at O'Hare. Siemens has proactively upgraded the BAS system to open communication protocol BACnet which facilitates communication to 3rd party systems and equipment.

Other BAS & Fire service providers would not have the software tools and factory authorized training to upgrade software, programming, or provide security patches which translates to major liability for the city on the installed Fire Life Safety and BAS assets. For another service provider to take over these systems they would have to provide extensive capital system upgrades.

Siemens offers a comprehensive program that allows CDA to operate without budget risk. Siemens owns, at its own risk, project integration, operations, IT and engineering support. The agreement includes labor and material required for CDA to manage their Building Automation and Fire System assets within the allotted budget. CDA receives Siemens' highest discounted preferred labor rates. The comprehensive program includes full preventative maintenance, current system architecture, and dedicated staff for the CDA, who are subject matter experts in the industry.

Estimated Costs For Original Sole Source and Two-Year Extension

The estimated cost for contract 84871 was \$18,254,692.35. This included estimates based on anticipated projects and time and material. The costs incorporated conversion of 300 panels to open BACNet protocol, the inclusion of the Consolidated Rental Car Facilities, the additional airport areas, and equipment covered, and the additional projects that were to be completed on T&M. In addition, this included work on the 1.2MM Square Foot Terminal 5 panel conversions and ongoing maintenance.

Under the current contract, Siemens has installed Desigo CC software platform, their next generation IT based platform used for total Building Solutions at O'Hare to integrate Automation, Life Safety, and Security systems. Siemens has also integrated 51 new area level (ALN) field panels and 858 new floor level (FLN) controllers. The systems installed at O'Hare are now made up of 660 ALN panels and 858 FLN controllers. Siemens also upgraded existing legacy panels to BACnet over the last 5 years, which means all Siemens panels communicate on the City Ethernet network.

The estimated costs for 2024 and 2025 include.

Full Preventative Maintenance Program

- Maintenance and services implemented under the following standards and guidelines: NFPA, OSHA, NEMA, ADA, MOPD, CEC, & ASHRAE.
- Full preventative maintenance program executed and documented.
- Performed ongoing calibrations and loop tuning on end devices.
- Resolved 800 plus work orders issued by CDA annually.
- Monthly fire systems reports to assist with insurance regulations.
- Performed 400 backups over 5-year term.
- Responded to over 400 plus after-hours emergency calls annually.
- Conducted CDA personnel training for 50 plus engineers twice annually.
- Provided consultative support of CDA approved engineering firms working on infrastructure planning.
- Provide ongoing operator coaching for CDA facility staff as required.
- Performed 11 annual fire pump tests.

Current System Architecture

- All capital projects under CDA Facilities leverage the Desigo CC software platform.
- Integrated 51 ALN panels over the past 5 years.
- Integrated 858 FLN controllers (VAV boxes) over past 5 years.
- Siemens BACNet Panels are completely forward and backward compatible allowing for cost effective equipment lifecycle planning.
- Upgraded Fire Life Safety systems to Single platform.
- XLS Desigo platform.
- Consolidated several stand-alone fire life systems to operate on a single consistent platform.
- Upgraded 100% of devices to smart addressable devices to improve

- fire alarm management and overall response times.
- Created centralized fire management dashboard at O'Hare Command Center which allows centralized dispatch.

The local Siemens branch has over 275 people on staff to service the Automation and Fire Life Safety systems installed at O'Hare. This depth of personnel ensures that no matter what might happen Siemens will have the resources to keep the airport Building Automation System & Fire Life Safety critical infrastructure running and under control. The CDA has reviewed the pricing proposal and per their quote and justification, concurs with these prices. In the past, the increase year to year has been 3%. However, Siemens has outlined the increases from 2023 – 2024 and 2024 – 2025 due to inflation, increases in labor rates, and increased costs of materials. The CDA has reviewed their rates against independent industry standards and Siemens' rates are below what Siemens typically charges customers. In addition, Siemens has increased its MBE compliance from 22% to 23% and its WBE compliance from 0% (full waiver) to 0.5%. Based on Siemens justification, opportunities for Minority and Women-Business Enterprises, and the critical nature of these services, the CDA concurs with Siemens' pricing.

Compliance

Under the current contract, PO 84871, Siemens requested a partial MBE waiver of 22% and a full WBE waiver. The City approved this request. Siemens has provided documentation that they are able to slightly increase their compliance, to 23% MBE and 0.5% WBE. Siemens has also stated that they will continue to research opportunities that will increase their MBE and WBE compliance. The CDA concurs with Siemens revised compliance plan.

Revised Economic Disclosure Statement and Certificate of Insurance

Siemens has provided a revised Certificate of Insurance and Economic Disclosure Statement. The Certificate of Insurance is valid through October 1, 2024. The Economic Disclosure Statement is valid through January 25, 2024.

If you have any questions or need additional information regarding this request, please contact Rosemary McDonnell at 773.894.1822. Thank you for your assistance.

Procurement Type: Two year time extension and Vendor Limit Increase

Duration: January 1, 2024 – December 31, 2025

Estimated Total Cost
January 1, 2024 – December 31, 2024: \$4,209,079.00
January 1, 2025 – December 31, 2025: \$4,421,481.00

Vendor Limit Increase
Total: \$8,630,560.00 for a PO limit from \$18,254,692.35 to \$26,885,252.35

Funding Strip: 85.0740.4035.0162.0162

Vendor Contact: AJ DeGeorge
Siemens Industry, Inc.
Smart Infrastructure
585 Slawin Ct.
Mount Prospect, IL 60056
224.342.3448
Anthony.degeorge@siemens.com

User Contact: Peter Butkovic Phone: 773.894.0162

User Managing Deputy: James Harney Phone: 773.686.4604

Project Checklist

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

Date:
10/2/2023

Department Name:
Aviation

Requisition No: 552120 **Specification No:** 784155

PO No: 84871 **Modification No:** 1

Contract Liaison:
Rosemary McDonnell

Telephone:
773.894.1822

Email:
Rosemary.McDonnell3@cityofchicago.org

Project / Program Manager:
Peter Butkovic

Telephone:
773.894.0162

Email:
Peter.butkovic@cityofchicago.org

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.

**By signing this form, I attest that all information provided is true and accurate.*

**Contract Liaison Signature*

Project Title:
Support & Maintenance of the Supervisory Monitoring System (SMS) and the Fire Alarm System (FAS)

Project Description:
Support & Maintenance of the Supervisory Monitoring System (SMS) and the Fire Alarm System (FAS)

- Funding:**
- Corporate Bond Enterprise Grant Other:
- IDOT/Transit IDOT/Highway FHWA FTA FAA

LINE	FY	FUND	DEPT	ORGN	APPR	ACTV	PROJECT	RPTG	ESTDOLLAR AMOUNT
23	0740	85	4035	0162	0162				\$8,630,560.00

Check One:

New Contract Request

**By signing below, I attest the estimates provided for this contract are true and accurate.*

**Project / Program Manager Signature*
Peter Butkovic

**Commissioner/Authorized Designee Signature*
Jamie Shea

Purchase Order Type:

Blanket/Purchase Order (DUR)

Master Consultant Agreement (Task Order)

Standard/One-Time Purchase

Procurement Method:

Bid RFP RFQ RFI

Small Order

Special Approvals Required:

Emergency

Non-Competitive Review Board (NCRB)

Request for Individual Contract Services

Information Technology Governance Board (ITGB)

Contract Type:

Architect Engineering Commodity Construction JOC SBI

Professional Services Revenue Generating Vehicle & Heavy Equipment

Work Service Joint Procurement Reference Contract

Modification or Amendment

Modification Information:

PO Start Date: 1/1/2019

PO End Date: 12/31/2025

Amount (Increase/Reduction):

MBE/WBE/DBE Analysis: (Attach MBE/WBE/DBE Goal Setting Memo)

Full Compliance Contract Specific Goals

No Stated Goals Waiver Request

Modification/Amendment Type:

Time Extension Scope Change/Price Increase /Additional Line Item(s)

Vendor Limit Increase Requisition Encumbrance Adjustment

Other (specify):

Risk Management / EDS

Insurance Requirements (included) Yes No

EDS Certification of Filling (included) Yes No

Vendor Info:

Name: Siemens Industry, Inc.

Contact: AJ DeGeorge

Address: 585 Slawin Ctt., Mount Prospect, IL 60056

E-mail: anthony.degeorge@siemens.com

Phone: 224.342.3448

SPECIFICATION 784155
SUPPORT AND MAINTENANCE OF THE SUPERVISORY MONITORING SYSTEM (SMS)
AND THE FIRE ALARM SYSTEM (SMS)
SCOPE OF SERVICES

The Contractor will provide ongoing maintenance for two years under PO 784155. This includes all of the facilities of Chicago O'Hare International Airport complex served by the Chicago Department of Aviation (CDA). 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 will perform all hardware/software/communications/networks upgrades including the related preventative maintenance, installations, training, and software support services for the Building Automation System (BAS) (also known as Supervisory Monitoring System) and the Fire Alarm System (FAS) and related controls. This includes the on-going maintenance, related controls, hardware, and software upgrades. This also includes procedures, testing, repairs, adjustments and component replacement for the BAS and Life Safety Systems, and all related apparatus at O'Hare International Airport. The Contractor will provide all labor, supervision, equipment, materials, and supplies as necessary in the performance of this work outlined in the Contract. All major service and equipment replacement and/or upgrades shall be documented and presented for CDA approval prior to purchase or installation.

The Contractor will perform complete maintenance of the BAS and Life Safety Systems 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.

The Contractor shall make all mandated and/or recommended periodic and routine inspections and tests of the BAS and Life Safety Systems in accordance with various requirements found in the Scope of Work from Siemens. Any testing or re-inspections required will not be charged to the City. For any new system (s) installed by Siemens and/or added on the Building Automation System (BAS) and/or the Fire Alarm System (FAS), the monitoring, controlling, maintenance, repairs, adjustments, and component replacements are all included and shall be part of the monthly fee.

The Contractor shall perform preventative maintenance on all BAS and FAS equipment, which includes, but is not limited to, the list of maintained equipment in Siemen's scope of work. Preventative maintenance will be performed in accordance with established industry associations, manufacturers' recommendations, common guidelines, and practices, and as directed by CDA. 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 complete review of the existing network configuration and recommendation to CDA of network performance enhancements.
- Software support and the monitoring of systems' networks.

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

The Contractor shall enable, by upgrading the 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 BAS, and devices to seamlessly communicate with each other utilizing BACnet (open protocol). The Contractor shall replace BAS 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 BAS upgrades and updates initiated on or after this Contract's effective date shall utilize BACnet (open protocol).

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 or 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.

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.

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.

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 subcontractors on maintenance and control issues, issue prompt writing work orders, and follow-up on problems in a timely manner.

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

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. The Contractor shall provide software consultation to resolve software issues.

The Contractor shall test the Fire Alarm System and related devices at the intervals recommended by the National Fire Protection Association 72 and the National Electrical Manufacturers Association Standards Publication SB 2-2016.

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

The Contractor shall test the BAS and related devices at the intervals recommended by the American Society of Heating Refrigerating, and Air-Conditioning Engineers Standard 180.

The Contractor shall test and repair or replace the failed or worn FAS and BAS 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. The Contractor shall provide the necessary consultants to assist the CDA in isolating, identifying, resolving, and verifying systems problems.

The Contractor shall provide professional engineering staff licensed in the State of Illinois to assist CDA to solve problems related to the BAS 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

The Contractor shall provide on-site training of the systems to all CDA Operating Engineers, O'Hare Communications Center (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.

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.

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 (4) 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.


The Contractor shall supply the parts manufactured by the Contractor, at the discounted price agreed, listed in the Contract's detailed scope of work and on the Bid lines. The Contractor shall acquire and supply to CDA all needed parts not manufactured by the Contractor.

The Contractor shall document each remote and on-site service call and furnish the CDA with a copy of the report which includes the time, date, and a brief description of the activity. The Contractor shall also complete all pertinent required documentation per the National Fire Protection Association 72 Chapter 7.

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.

The following CDA staff confirm that these services requested for the extension of the contract are covered under the current contract, and therefore, no additional changes are being made.

REVIEW AND APPROVAL


James Harney
Deputy Commissioner, Facilities
Chicago Department of Aviation


David L. Winters
Chief Accountability Officer,
Managing Deputy Commissioner
Chicago Department of Aviation



**DEPARTMENT OF PROCUREMENT SERVICES
NON-COMPETITIVE REVIEW BOARD (NCRB) APPLICATION
JUSTIFICATION FOR NON-COMPETITIVE PROCUREMENT WORKSHEET**

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.

This request is for a two year time extension and vendor limit increase for PO 84871. The CDA respectfully requests that this contract be extended so we can continue these critical services. The CDA has looked at bidding this contract out, and our current request is made due to the time required, and the funding needed, to fully bid this contract out. After discussions and analysis, the CDA will be bidding this out, and has already taken steps on scope and financial review and development. However, this will take time, and the CDA did not have enough time to prepare for a new contract before the current contract was to expire at the end of 2023. Therefore, we are requesting this time extension and vendor limit increase so as to maintain continuity of critical operations while we develop the scope and other requirements for the new contract.

These services are critical to the CDA operations, and this time extension will ensure that there are is no gap in critical services while the CDA prepares its detailed specifications for a competitive procurement. The CDA plans to submit the new requirements to DPS on or before June 30, 2024. The CDA requests that this contract be extended for two (2) years, through December 31, 2025 or until a new contract is awarded, whichever comes first. Siemens Industry Inc. 01 ("Siemens") is the manufacturer, designer, supplier, and installer of the equipment known as the Supervisory Monitoring System (SMS) and the Fire Alarm System (FAS)--also referred to as Building Automation System (BAS). The SMS and the FAS continue to be serviced, maintained, repaired, and upgraded throughout the terminals including the Consolidated Rental Car Facilities, Heating & Refrigeration Plant, and remote buildings at O'Hare Airport. Siemens is presently performing under a sole source contract PO 84871 with the Chicago Department of Aviation (CDA); the contract is due to expire on 12/31/2023. Siemens or their previous companies (Landis & Staefa) have held sole source contracts at O'Hare under various contracts since 1988. CDA seeks to extend this contract for 24 months for a new end date of December 31, 2025. 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 (BACNet Controller, Data Network Closet Central, Network Processor of Insight and Desigo server, and interfaces) were designed and written by Siemens on a proprietary basis. This is an entirely proprietary system, and only Siemens has the capability to fully service the system. At this time, it is essential to maintain continuity of operations for the existing system. The CDA has evaluated its systems and industry standards and determined that this can be competitively bid. We are preparing the detailed specifications and other paperwork in anticipation of a competitive procurement.

The CDA continues to monitor the industry's evolution toward full standardization around open-protocol technologies; to date and even with open protocol technologies, it is very difficult to mix, maintain and program different manufacturers' products. However, the CDA, based on its research and the evolution of the industry, believes that this can be competitively bid, and is preparing its detailed specifications for a competitive procurement. We anticipate submitting the documents to DPS on or before June 30, 2024. This time is needed to ensure that our scope of work ensures integration of potentially different systems.

CDA, to date, has invested heavily in upgrading hardware and software to standardize around a single manufacturers' products. Compatibility with the existing equipment, system, software is very critical and needs 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 may need to replace all of the Siemens equipment and software. Integration of different systems could be costly but it is not impossible; therefore,



**DEPARTMENT OF PROCUREMENT SERVICES
NON-COMPETITIVE REVIEW BOARD (NCRB) APPLICATION
JUSTIFICATION FOR NON-COMPETITIVE PROCUREMENT WORKSHEET**

the CDA is working on its detailed specifications in anticipation of future competitive procurement.

Previously, CDA engaged Cosentini (a Tetra Tech company), an independent consultant with extensive knowledge of the industry, in 2012 and again in 2018 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 but to summarize, the consultant recommended continuing to work solely with Siemens. However, due to the industry's evolution toward open-protocol technologies, future competitive bidding is possible.

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. The current contract, PO 84871, was awarded January 1, 2019 and will expire 12/31/2023. The CDA is requesting a two year time extension and vendor limit increase in order to ensure continuity of critical operations while we develop our detailed specifications for future competitive procurement. Siemens has partnered with the CDA for over 12 years. Prior to 2007, CDA was under contract with Landis & Staefa which Siemens purchased 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 to have a BACNet compatible system installed which can run on the City network was achieved during the current contract term. We have updated the rest of the SMS and FAS panels and controls in the Domestic Terminals 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, fiber was and will be installed by others.

We have the entire SMS operated by CDA and BACNet panels. This will allow all of the panels to communicate 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 communicate on the same network along with the Siemens panels and viewed through one Graphical Interface already installed at O'Hare.

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

The CDA has conducted research and reviewed industry standards, and is working on its detailed specifications for a future competitive procurement. In the past, the CDA engaged Cosentini (a Tetra Tech company) in 2012 and again in 2018 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, at that time, was that Cosentini Engineers believed 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. However, due to the industry's evolution to a more standardized system around open-protocol technologies, competitive bidding is now possible. The CDA is working on its detailed specifications for a future competitive procurement.

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.

In 2012 and in 2018, 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



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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 and United States include:

- Health Care Service Corporation, Enterprise, IL, TX, NM, OK, MT
- Exxon Mobile Headquarters, Houston, TX
- 111 W. Wacker Driver Residential Tower, Chicago, IL
- 150 North Riverside Center, Chicago, IL

Cosentini inspected and reviewed SMS/FAS configuration for the O'Hare Airport Domestic Terminal Buildings and Tunnels, the Heating & Refrigeration (H&R) Plant, consolidated rental car facility, and outlying buildings to understand the current extent of the FAS and SMS. Cosentini interviewed system programmers and maintenance contract staff to better understand all improvements, and upgrades that have been implemented over the last contract term. Cosentini compared major manufacturers and service providers, including:

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

The review 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 original research effort included a search of organizations capable of maintaining similar large campus-wide systems. This has made the conclusion 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. Within these large or campus-wide system, we found installations only by the few capable manufacturers. Where the manufacturer or the FAS and SMS were not the same, two separate maintenance contracts were required. In cases where the FAS and SMS are provided by a common manufacturer, both were maintained by that manufacturer.

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 request is for a two year time extension and vendor limit increase for PO 84871. The CDA is requesting this time extension to provide continuity of these critical operations while we develop the detailed specifications and other required paperwork for a competitive procurement. The CDA plans to submit the request packet to DPS on or before June 30, 2024. The CDA requests that PO 84871 be extended for two years, through December 31, 2025, or until a new contract is awarded, whichever comes first. The CDA has reviewed its operations and functional capabilities, and evaluated current industry standards, and has determined that this this can be competitively bid due to the industry's evolution toward standardization with open-protocol technologies. The CDA is reviewing the detailed justification and funding capacity, and is planning to request this be competitively bid. We plan to get the request packet to DPS on or before June 30, 2024. The CDA is reviewing its systems since, while competitive bidding is feasible, mixing, maintaining, and programming different manufacturer's systems can be challenging. The CDA requires substantial time to develop our detailed specifications that will allow for seamless integration of potentially different systems for the future competitive procurement.

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

a. Starting 2010, CDA IT/Unisys has started to administer and maintain the network.



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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.

6. Explain whether or not future competitive bidding is possible. If not, explain in detail.

CDA has reviewed its systems and evolving industry standards. Since the industry has evolved towards an open protocol system, the CDA now believes that competitive bidding is feasible. It will take time to develop our detailed specifications so as to ensure a seamless integration of systems if another Vendor is selected. As previously mentioned, mixing, maintaining and programming different systems may be challenging, so we require enough time to develop a solid detailed specification that incorporates potentially different systems. The industry continues to evolve to full standardization around open-protocol technologies, therefore, future competitive bidding is feasible.

These varied systems are partly due to the network infrastructure on which the systems are built, and partly due to 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. 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 continued 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 is now in a position to seek competitive bids from qualified firms. In the meantime, CDA believes that continuing this contract through December 31, 2025 or until a new contract is awarded, whichever comes first, will provide continuity of operations, which are critical to the CDA and the City of Chicago.

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 0162 0162

The costs for ongoing maintenance are broken out below. We included costs for 2023 (the last year of the base contract).

Year 2023: \$3,753,609.36

Year 2024: \$4,209,079

Year 2025: \$4,421,481

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 Building Automation System (BAS) 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 2-2016 (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



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excerpts from various Codes, Standards, and sample industry guidelines.

This Contract includes the on-going maintenance of Building Automation System (BAS) and the Fire Alarm System (FAS), related controls, hardware and software upgrades including, but not limited to:

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

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

The following breakout shows the costs for ongoing service and maintenance. It does not include the costs for work that has been completed to the Terminal 5 Building 325 and Tunnels.

	2023	2024	2025	Contract Totals
Monthly	\$291,967.45	\$329,923.15	\$347,623.42	
Yearly	\$3,503,609.36	\$3,959,079.00	\$4,171,481.00	\$11,634,169.36
Special Projects*	\$250,000.00	\$250,000.00	\$250,000.00	\$750,000.00
Budget	\$3,753,609.36	\$4,209,079.00	\$4,421,481.00	\$12,384,169.36

Over the course of the last five-year sole-source contract term, Siemens has installed Desigo CC software platform, our next generation IT based platform used for total Building Solutions at O'Hare to integrate Automation, Life Safety, and Security systems. We have also integrated 51 new area level (ALN) field panels and 858 new floor level (FLN) controllers. The systems installed at O'Hare are now made up of 660 ALN panels and 858 FLN controllers. Siemens also upgraded existing legacy panels to BACnet over the last 5 years, which means all Siemens panels communicate on the City Ethernet network.

Siemens installed both SMS & FAS at the new O'Hare Consolidated Rental Car Facilities (CRCF) that was completed in 2018. Siemens also absorbed the new Consolidated Rental Car Facilities coverage for comprehensive SMS and Fire Life Safety Agreement.

Siemens will provide full coverage under current comprehensive program to any Fire Life Safety and SMS equipment added on projects at no additional cost to City.

2. What is the estimated cost by fiscal year?

	2023	2024	2025
	Yr. 5	Yr. 6	Yr. 7
Monthly	\$291,967.45	\$329,923.15	\$347,623.42
Yearly	\$3,503,609.36	\$3,959,079.00	\$4,171,481.00
Special Projects*	\$250,000.00	\$250,000.00	\$250,000.00
Budget	\$3,753,609.36	\$4,209,079.00	\$4,421,481.00

(*) = Based on time and material line items- 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 2023 annual costs for the maintenance \$3,753,609.36 (not including work on Terminal 5 Building 325 and



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Tunnels) was submitted by Siemens, with approval by the City of Chicago. Siemens has provided its annual maintenance costs for 2024 and 2025. The annual maintenance cost for 2024 will be \$3,959,079. The 2024 special projects costs will be \$250,000. The total anticipated costs for 2024 will be \$4,209,079. The annual maintenance cost for 2025 will be \$4,171,481. The 2025 special projects costs will be \$250,000. The total anticipated costs for 2025 will be \$4,421,481.

This is an increase of 5% from 2024 to 2025. This is a competitive price for the City.

The cost was based on the current contract taking into account the completed conversion of 300 panels to open BACNet protocol, the inclusion of the Consolidated Rental Car Facilities, the additional airport areas and equipment covered and the additional projects that will be completed on T&M at CDA's discretion.

The Contractor's parts are discounted at 52% from the catalog prices, unchanged from the current base contract.

Non-Contractor's parts are marked up at 10% above cost, unchanged from the current base contract.

Subcontracting services are marked up at 10% above cost, unchanged from the current base contract. Siemens requested a full WBE waiver, and a full MBE waiver (22%) for the base contract. The City approved. For the extension, Siemens is increasing its MBE to 23% and adding in WBE to 0.5%. The CDA concur with their increase in compliance.

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). One scenario is that, 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 currently having significant lifecycle time remaining. An alternative scenario would be 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. In the past the CDA thought that the first alternative would result in degradation of system performance and loss of efficiency in the upgrade and maintenance program. The CDA also believed that 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. Now, due to the industry's evolution towards a more standardized open-protocol system the CDA believes that the systems should be able to be integrated. This could be challenging, both financially and technologically, so the CDA continues to research the best solution for this as we develop our detailed specifications for a future competitive procurement.

This extension includes a fully loaded monthly maintenance price that covers all labor and materials on a 24/7 basis. This will limit CDA's exposure to unexpected maintenance expenses as opposed to a Time & Material contract which could result in considerable unanticipated costs should the system 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.

a. The costs from 2024 to 2025 are 5% higher but this is a competitive price for the City and lower than the vendor's street rates. Siemens provided additional justification on the increase from 2023 to 2024 (included in this packet). Siemens standard average street rate for all disciplines above is \$301 per hour as shown in the attached published rate card for all of their labor disciplines.

Per the service contract, Siemens needs to staff (10) full time employees utilizing the disciplines listed in the attached document. These (10) fulltime employees equates to roughly 20,000 man hours per year. If Siemens were to apply



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a blended rate of \$301/hr, then the base contract to CDA for these services would be \$5,140,000. The base price for the 2024 contract extension is \$3,959,079, which is a discount of 23%.

Also, all repair and replacement parts, software licensing, and emergency calls (including holidays and overtime) are included in the contract at no cost to the CDA.

b. Siemens will maintain the fire equipment (central control panels, annunciators, pre-action panels, heat and smoke detectors, water flows, pull stations, flame detectors, low pressure and tamper switches, elevator recall, fire door testing, CO2 fire testing, fire pump testing, pneumatic fire devices (compressors) fitter, and FAA Tower report to central station).

Exhibit 1, "List of Maintained Equipment and Systems" in the attached Scope of Work, outlines all of the systems that Siemens will maintain.

c. Attached are the Field Service Labor Rates (Street Rates) and rates for their preferred for the Chicago area and their proposals to CDA.

SCHEDULE REQUIREMENTS

1. Explain how the schedule was developed and at what point the specific dates were known.

The extension of the current contract would start January 1, 2024 as the current contract will expire December 31, 2023.

2. Is a lack of drawing 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 drawings and/or specifications are not a constraining factor to competitive bidding. The CDA is preparing its detailed specification for future competitive procurement.

In the past, the CDA engaged Cosentini (a Tetra Tech company) in 2012 and in 2018 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 Associates 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 Associates, at that time, was 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. However, since the industry continues to evolve into a more standardized open-protocol technology, the CDA now believes that this can be competitively bid. The CDA is working on its detailed specifications and plans to submit the new contract request to DPS on or before June 30, 2024.

The goal of the CDA is to have a fully integrated system to effectively deliver critical safety and building management functions. Siemens has updated approximately 660 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.

Exhibit 1, "List of Maintained Equipment Systems" in the attached Scope of Work, outlines all of the systems that Siemens will maintain.

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, 2023 and it is critical to maintain continuity of these critical



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operations while the CDA prepares its detailed specifications and other paperwork needed for a competitive procurement.

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

The current contract will expire on December 31, 2023. It is critical that there be no gap in service while the CDA prepares its detailed specifications and other documents required for a competitive procurement.

In the past, 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 Associates 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 Associates, at that time, was 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. Siemens has updated approximately 660 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 current 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. However, due to the industry's ongoing evolution toward a standardized open-protocol technology, competitive bidding is now feasible. The CDA is preparing its detailed specifications for a competitive procurement.

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.

Siemens has provided ongoing support of the above-mentioned systems and continues to complete the work for this contract because we manufacture the products and software for the Fire Life Safety and BAS systems currently installed at O'Hare. Siemens has proactively upgraded the BAS system to open communication protocol BACnet which facilitates communication to 3rd party systems and equipment.

- Airport systems are industry standard are now open protocol BACnet, but the installed equipment firmware and programming is still Siemens based, which requires Siemens technician tools to interface with
- As technology continues to evolve and improve, Siemens can seamlessly upgrade firmware and make software and programming upgrades to its own software based on future needs of the airport
- Siemens software security patches continue to be upgraded and installed to keep the airport's Life Safety & BAS system secure from cyber threats

Other BAS & Fire service providers would not have the software tools and factory authorized training to upgrade software, programming, or provide security patches which translates to major liability for the city on the installed Fire Life Safety and BAS assets.

- Major liability to the city of Chicago and could result in issues with keeping the airport safe from fire and loss of life



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- The Fire Life Safety and BAS system are integrated through Siemens software which allows communication of all critical Life Safety data seamlessly to the O'Hare Command Center & HR Plant
- It is critical the BAS connection allows data to seamlessly flow due to need for fast response times during airport emergency events

For another service provider to takeover these systems they would have to provide extensive capital system upgrades including:

- Replace the servers and 600+ supervisory field panels
- Replace Life Safety and HVAC end devices due to capability issues with hardware.
- CDA personnel would be working on disparate systems, and needing extensive training on another system

The CDA believes that Siemens is uniquely qualified to fulfill this role for the contract time extension, and that no other provider can deliver the depth and range of expertise on Siemens hardware and software products that exists within the current Siemens organization. Siemens can uniquely provide access to software designers and engineers responsible for development of the Siemens Apogee/Desigo front-end management system to address complex coding and communication 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 experiences with the O'Hare systems, contracting directly with Siemens of 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?

The local Siemens branch has over 275 people on staff to service the Automation and Fire Life Safety systems installed at O'Hare. This depth of personnel ensures that no matter what might happen Siemens will have the resources to keep the airport Building Automation System & Fire Life Safety critical infrastructure running and under control.

Chicago Team and Resources

- 10 minimum fulltime technicians, electricians, pipefitters and software professionals on-site
- Fully staffed Cyber Security team and network IT team
- Licensed manufacturer and installer of automation & fire systems – Original Equipment Design Manufacturer (OEM)
- Technicians have extensive OEM factory training
- Branch location less than 10 miles from site with 275 Siemens employees
- Siemens US Home Office 15 miles from site with complete staff available to problem solve any situation
- Siemens Factory and warehouse located at US Home Office with an abundance of product that can be used at O'Hare which means easy access to full inventory
- 30+ year proven track record at O'Hare with high satisfaction at O'Hare
- Reached current Minority Business goals
- R&D and software development center in downtown Chicago
- Downtown office in Chicago loop

Siemens personnel are without doubt the predominant experts in building automation and fire alarm systems utilizing the Siemens Apogee/Desigo front-end management system and an installed asset base of majority Siemens hardware. Siemens has significantly 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



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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 to date on any changes made to the Siemens Operating System. The Siemens Apogee/Desigo 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 98% of the FAS and approximately 100% of the SMS control panels) and is managed by the Siemens Apogee/Desigo front-end management system. The Siemens service organization is highly specialized in the installed hardware and software components and can exclusively provide 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.

Siemens offers a comprehensive program that allows CDA to operate without budget risk. Siemens owns, at its own risk, project integration, operations, IT and engineering support. The agreement includes labor and material required for CDA to manage their Building Automation and Fire System assets within the allotted budget. CDA receives Siemens highest discounted preferred labor rates

A. Full Preventative Maintenance Program

- Maintenance and services implemented under the following standards and guidelines: NFPA, OSHA, NEMA, ADA, MOPD, CEC, & ASHRAE
- Full preventative maintenance program executed and documented
- Performed ongoing calibrations and loop tuning on end devices
- Resolved 800 plus work orders issued by CDA annually
- Monthly fire systems reports to assist with insurance regulations
- Performed 400 backups over 5 year term
- Responded to over 400 plus after hours emergency calls annually
- Conducted CDA personnel training for 50 plus engineers twice annually
- Provided consultative support of CDA approved engineering firms working on infrastructure planning
- Provide ongoing operator coaching for CDA facility staff as required
- Performed 11 annual fire pump tests

Over the course of the last five-year sole-source contract term, Siemens has installed Desigo CC software platform, our next generation IT based platform used for total Building Solutions at O'Hare to integrate Automation, Life Safety, and Security systems. We have also integrated 51 new area level (ALN) field panels and 858 new floor level (FLN) controllers. The systems installed at O'Hare are now made up of 660 ALN panels and 858 FLN controllers. Siemens also upgraded existing legacy panels to BACnet over the last 5 years, which means all Siemens panels communicate on the City Ethernet network.

B. Current System Architecture (reference scope of services for complete equipment list)

- All capital projects under CDA Facilities leverage the Desigo CC software platform
- Integrated 51 ALN panels over past 5 years
- Integrated 858 FLN controllers (VAV boxes) over past 5 years
- Siemens BACnet Panels are completely forward and backward compatible allowing for cost effective equipment



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lifecycle planning

- Upgraded Fire Life Safety systems to Single platform
- XLS-Desigo platform
- Consolidated several standalone fire life systems to operate on single consistent platform
- Upgraded 100% of devices to smart addressable devices to improve fire alarm management and overall response times
- Created centralized fire management dashboard at O'Hare Command Center which allows centralized dispatch

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 updates and newest 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 Power 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 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 application specific 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 brand or models, possess. Is compatibility with existing equipment critical from an operational standpoint? If so, provide detailed explanation?

CDA has procured 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 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



**DEPARTMENT OF PROCUREMENT SERVICES
NON-COMPETITIVE REVIEW BOARD (NCRB) APPLICATION
JUSTIFICATION FOR NON-COMPETITIVE PROCUREMENT WORKSHEET**

implementation and maintenance activities (due to standardized coding and configuration, and concentration of staff expertise around a single set of products). As the industry continues to evolve towards a standardized open-protocol technology, the CDA continues to evaluate the feasibility of a full system replacement or integration of two systems. However, the CDA now believes that this can be competitively bid since the industry has moved to more open-protocol technologies, and the CDA is preparing its detailed specifications for a competitive procurement. The CDA continues to review its systems and funding capacity for either scenario.

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 has continued to invest in open-protocol network infrastructure. With the technology at a point where there is opportunities to operate a multi-provider system (challenges notwithstanding), the CDA is now in a position to seek competitive bids from qualified firms. In the meantime, CDA believes the best value for the City for this extension is to maintain continuity of operations with Siemens.

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). It is possible that, 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 CDA is analyzing this scenario as we move towards a competitive procurement.

With respect to parts, while Siemens has various distributors for their products, buying from a distributor instead of the manufacturer, Siemens would simply add an additional level of mark up on the price and provide no additional value. Other manufacturer's products are not fully compatible/interchangeable with those manufactured by Siemens.

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 O-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.

Under the base contract, Siemens requested, and the City approved, a partial MBE waiver and a full WBE waiver. The MBE compliance was 22%. For the extension, Siemens has conducted outreach to identify potential increases in compliance, and are able to increase their MBE to 23% and their WBE to 0.5%.

OTHER

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

Not Applicable.



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

Under the base contract, compliance was set at 25% MBE and 5% WBE. Siemens requested, and the City approved, a full WBE waiver and a partial MBE waiver (to 22%). Under the extension, Siemens is able to increase its MBE goal for the 2 years up to 23%, and to increase its WBE goal to 0.5%. Siemens has stated that they will take appropriate measures to increase these MBE/WBE participation amounts. The CDA concurs with these increased goals and the Concurrence letter is in the packet. In addition, included in this packet is a copy of the email sent to the DPS Deputy of Compliance on September 29, 2023 that summarizes the compliance plan for the two year extension.



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?
6. 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

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.
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.



CDA/NCRB

Attn: Rosemary McDonnell

Subject: Siemens Contract Extension Discount Clarification

November 8, 2023

**Siemens Industry, Inc. Chicago Branch
Building Technologies Division Standard / Preferred Time and Material Service Rates
(November 1, 2023 thru October 31, 2024)**

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	\$334.00	\$501.00	\$668.00
Electrical Technician	\$312.00	\$468.00	\$624.00
Fire Tech	\$290.00	\$435.00	\$580.00
Fire Sprinkler Fitter	\$286.00	\$429.00	\$572.00
Security Specialist	\$298.00	\$447.00	\$596.00
HVAC Mechanic	\$286.00	\$429.00	\$572.00

Siemens' standard **average** street rate for all disciplines above is \$301 per hour as shown in our published rate card for all of our labor disciplines.

Per the service contract, Siemens needs to staff (10) full time employees utilizing all of the above disciplines. These (10) fulltime employees equates to roughly 20,000 man hours per year. If Siemens were to apply a blended rate of \$301/hr, then the base contract to CDA for these services would be \$5,140,000. The base price for the 2024 contract extension is \$3,959,079, which is a **discount of 23%**.

Also, all repair and replacement parts, software licensing, and emergency calls (including holidays and overtime) are included in the contract at no cost to the CDA.

Contract Summary Sheet

Contract (PO) Number: 84871

Specification Number: 784155

Name of Contractor: SIEMENS INDUSTRY INC. 01

City Department: DEPT OF AVIATION

Title of Contract: SUPPORT & MAINTENANCE OF THE SUPERVISORY MONITORING SYSTEM (SMS) AND THE FIRE ALARM SYSTEM (FAS)

Term of Contract: **Start Date:** 1/1/2019
 End Date: 12/31/2023

Dollar Amount of Contract (or maximum compensation if a Term Agreement) (DUR):
\$18,254,692.35

Brief Description of Work: SUPPORT & MAINTENANCE OF THE SUPERVISORY MONITORING SYSTEM (SMS) AND THE FIRE ALARM SYSTEM (FAS)

Procurement Services Contract Area: WORK SERV-AVIATION

Vendor Number: 1071466
Submission Date: 4.2.2019 MA

Spec. No.: 784155
P.O. No.: 84871
Vendor No.: 1071466
City-Funded

PROFESSIONAL SERVICES AGREEMENT

BETWEEN

**THE CITY OF CHICAGO
DEPARTMENT OF AVIATION**

AND

SIEMENS INDUSTRY, INC.



**SUPPORT AND MAINTENANCE OF THE SUPERVISORY MONITORING SYSTEM
(SMS) AND THE FIRE ALARM SYSTEM (FAS) AT O'HARE INTERNATIONAL
AIRPORT**

**RAHM EMANUEL
MAYOR**

**Shannon E. Andrews
Chief Procurement Officer**

A copy of any communications or notices to the City relating to **Contract interpretation**, a dispute, or indemnification obligations shall also be sent by the same **means** set forth above to the Department of Law, Room 600, City Hall, 121 N LaSalle Street, Chicago, Illinois 60602.

All communications and notices from the City to the Contractor, unless otherwise provided for, will be faxed, delivered personally, electronically mailed or mailed first class, postage prepaid, to the Contractor care of the name and to the address listed on the Bid Documents' proposal page. If this contract was awarded through a process that does not use bid or proposal documents, notices to contractor will be sent to an address specified in the Contract.

3.1.4.9. Amendments

Following **Contract award**, no change, amendment, or modification of the Contract **Documents** or any part thereof, is valid unless stipulated in writing and signed by the Contractor, **Mayor**, CPO, and Comptroller, unless specifically allowed for by the Contract Documents.

3.1.4.10. No Waiver of Legal Rights

Neither the acceptance by the City, or any representative of the City, nor any payment for or acceptance of the whole or any part of the deliverables, nor any extension of time, nor any possession taken by the City, shall operate as a waiver by the City of any portion of the Contract, or of any power herein reserved or any right of the City to damages herein provided.

A waiver of any breach of the Contract shall not be held to be a waiver of any other or subsequent breach. Whenever under this **Contract the City** by a proper authority waives the Contractor's performance in any respect or waives a requirement or condition to either the City's or the Contractor's performance, the waiver so granted, whether express or implied, shall only apply to the particular instance and will not be deemed a waiver forever or for subsequent instance of the performance, requirement, or condition. No such waiver shall be construed as a modification of this Contract regardless of the number of time the City may have waived the performance, requirement, or condition.

3.1.4.11. Non-appropriation of Funds

Pursuant to 65 ILCS 5/8-1-7, any contract for the expenditure of funds made by a municipality without the proper appropriation is null and void.

If no funds or insufficient funds are appropriated and budgeted in any fiscal period of the City for payments to be made under this Contract, then the City will notify the Contractor of that occurrence and this Contract shall terminate on the earlier of the last day of the fiscal period for which sufficient appropriation was made or whenever the funds appropriated for payment under this Contract are exhausted.

No payments will be made to the Contractor under this Contract beyond those amounts appropriated and budgeted by the City to fund payments under this Contract.

3.1.4.12. Participation By Other Government Agencies

Other Local Government Agencies (defined below) may be eligible to participate in this Contract if (a) such agencies are authorized, by law or their governing bodies, to execute such purchases, (b) such authorization is consented to by the City of Chicago's CPO, and (c) such purchases have no net adverse effect on the City of Chicago and result in no diminished services from the Contractor to the City's Departments.

Examples of such Local Government Agencies are: the Chicago Board of Education, Chicago Park District, City Colleges of Chicago, Chicago Transit Authority, Chicago Housing Authority, Chicago Board of Elections, Metropolitan Pier and Exposition Authority (McCormick Place, Navy Pier), and the Municipal Courts.

Said purchases will be made upon the issuance of a purchase order directly from the Local Government Agency. The City will not be responsible for payment of any amounts owed by any

participate, at its own cost, in the defense of any suit, without relieving Contractor of any of its obligations under this Contract. Any settlement must be made only with the prior written consent of the City Corporation Counsel, if the settlement requires any action on the part of the City.

The Contractor shall be solely responsible for the defense of any and all claims, demands, or suits against the Indemnified Parties, including without limitation, claims by an employee, subcontractors, agents, or servants of Contractor even though the claimant may allege that the Indemnified Parties were in charge of the work or service performed under the Contract, that it involves equipment owned or furnished by the Indemnified Parties, or allege negligence on the part of the Indemnified Parties. The City will have the right to require Contractor to provide the City with a separate defense of any such suit.

To the extent permissible by law, Contractor waives any limits to the amount of its obligations to indemnify, defend or contribute to any sums due to third parties arising out of any Losses, including but not limited to any limitations on Contractor's liability with respect to a claim by any employee of Contractor arising under the Workers Compensation Act, 820 ILCS 305/1 et seq. or any other related law or judicial decision (such as, *Kotecki v. Cyclops Welding Corporation*, 146 Ill. 2d 155 (1991)). The City, however, does not waive any limitations it may have on its liability under the Illinois Workers Compensation Act, the Illinois Pension Code or any other statute.

The indemnities in this section survive expiration or termination of this Contract for matters occurring or arising during the term of this Contract or as the result of or during the Contractor's performance of work or services beyond the term. Contractor acknowledges that the requirements set forth in this section to indemnify, keep and save harmless and defend the City are apart from and not limited by the Contractor's duties under this Contract, including the insurance requirements set forth in the Contract.

3.1.7. Non-Liability of Public Officials

Contractor and any assignee or Subcontractor of Contractor must not charge any official, employee or agent of the City personally with any liability or expenses of defense or hold any official, employee or agent of the City personally liable to them under any term or provision of this Contract or because of the City's execution, attempted execution or any breach of this Contract.

3.1.8. Contract Extension Option

The City may extend this Contract once following the expiration of the contract term for up to 181 Calendar Days or until such time as a new contract has been awarded for the purpose of providing continuity of services and/or supply while procuring a replacement contract subject to acceptable performance by the Contractor and contingent upon the appropriation of sufficient funds. The CPO will give the Contractor notice of the City's intent to exercise its option to renew the Contract for the approaching option period.

3.2. Compensation Provisions

3.2.1. Ordering, Invoices, and Payment

3.2.1.1. Purchase Orders

Requests for work, services or goods in the form of a Purchase Order will be issued by the Department and sent to the Contractor to be applied against the Contract. The Contractor must not honor any order(s), perform work or services or make any deliveries of goods without receipt of a Purchase Order issued by the City of Chicago. Any work, services, or goods provided by the Contractor without a Purchase Order is made at the Contractor's risk. Consequently, in the event such Purchase Order is not provided by the City, the Contractor releases the City from any liability whatsoever to pay for any work, services, or goods provided without said Purchase Order.

Purchase Orders will indicate quantities ordered for each line item, unit/total cost, shipping address, delivery date, fund chargeable information, catalog information (if applicable), and other pertinent instructions regarding performance or delivery.

3.2.1.2. Invoices

If required by the Scope of Work / Detailed Specifications, original invoices must be sent by the Contractor to the Department to apply against the Contract. Invoices must be submitted in

September 11, 2023

Chicago Department of Aviation
10510 West Zemke Road
Chicago, IL 60666
Attn: Rosemary McDonnell

Subject: O'Hare Building Automation & Fire System Sole Source Contract with Siemens Industry, Inc.
Contract # 84871
Spec # 784155

Dear Rosemary,

This document is an analysis and evaluation of the current and prospective Siemens Building Automation System (BAS) and Fire System contract with O'Hare International Airport. Refer to the Appendix for a) comprehensive list of industry standards, codes and guidelines and b) references.

- **Siemens/O'Hare Partnership**

- A. Siemens has provided ongoing support of the above-mentioned systems and continues to complete the work for this contract because we manufacture the products and software for the Fire Life Safety and BAS systems currently installed at O'Hare. Siemens has proactively upgraded the BAS system to open communication protocol BACnet which facilitates communication to 3rd party systems and equipment.
 - Airport systems are industry standard are now open protocol BACnet, but the installed equipment firmware and programming is still Siemens based, which requires Siemens technician tools to interface with
 - As technology continues to evolve and improve, Siemens can seamlessly upgrade firmware and make software and programming upgrades to its own software based on future needs of the airport
 - Siemens software security patches continue to be upgraded and installed to keep the airport's Life Safety & BAS system secure from cyber threats
- B. Other BAS & Fire service providers would not have the software tools and factory authorized training to upgrade software, programming, or provide security patches which translates to major liability for the city on the installed Fire Life Safety and BAS assets.
 - Major liability to the city of Chicago and could result in issues with keeping the airport safe from fire and loss of life
 - The Fire Life Safety and BAS system are integrated through Siemens software which allows communication of all critical Life Safety data seamlessly to the O'Hare Command Center & HR Plant
 - It is critical the BAS connection allows data to seamlessly flow due to need for fast response times during airport emergency events
- C. For another service provider to take over these systems they would have to provide extensive capital system upgrades including:
 - Replace the servers and 600+ supervisory field panels
 - Replace Life Safety and HVAC end devices due to capability issues with hardware.



- CDA personnel would be working on disparate systems, and needing extensive training on another system
- Siemens Comprehensive Program

Siemens offers a comprehensive program that allows CDA to operate without budget risk. Siemens owns, at its own risk, project integration, operations, IT and engineering support. The agreement includes labor and material required for CDA to manage their Building Automation and Fire System assets within the allotted budget. CDA receives Siemens highest discounted preferred labor rates

A. Full Preventative Maintenance Program

- Maintenance and services implemented under the following standards and guidelines: NFPA, OSHA, NEMA, ADA, MOPD, CEC, & ASHRAE
- Full preventative maintenance program executed and documented
- Performed ongoing calibrations and loop tuning on end devices
- Resolved 800 plus work orders issued by CDA annually
- Monthly fire systems reports to assist with insurance regulations
- Performed 400 backups over 5 year term
- Responded to over 400 plus after hours emergency calls annually
- Conducted CDA personnel training for 50 plus engineers twice annually
- Provided consultative support of CDA approved engineering firms working on infrastructure planning
- Provide ongoing operator coaching for CDA facility staff as required
- Performed 11 annual fire pump tests

Over the course of the last five-year sole-source contract term, Siemens has installed Desigo CC software platform, our next generation IT based platform used for total Building Solutions at O'Hare to integrate Automation, Life Safety, and Security systems. We have also integrated 51 new area level (ALN) field panels and 858 new floor level (FLN) controllers. The systems installed at O'Hare are now made up of 660 ALN panels and 858 FLN controllers. Siemens also upgraded existing legacy panels to BACnet over the last 5 years, which means all Siemens panels communicate on the City Ethernet network.

B. Current System Architecture (reference scope of services for complete equipment list)

- All capital projects under CDA Facilities leverage the Desigo CC software platform
- Integrated 51 ALN panels over past 5 years
- Integrated 858 FLN controllers (VAV boxes) over past 5 years
- Siemens BACnet Panels are completely forward and backward compatible allowing for cost effective equipment lifecycle planning
- Upgraded Fire Life Safety systems to Single platform
- XLS-Desigo platform
- Consolidated several standalone fire life systems to operate on single consistent platform
- Upgraded 100% of devices to smart addressable devices to improve fire alarm management and overall response times
- Created centralized fire management dashboard at O'Hare Command Center which allows centralized dispatch



Siemens Chicago Capabilities

The local Siemens branch has over 275 people on staff to service the Automation and Fire Life Safety systems installed at O'Hare. This depth of personnel ensures that no matter what might happen Siemens will have the resources to keep the airport Building Automation System & Fire Life Safety critical infrastructure running and under control.

Chicago Team and Resources

- 10 minimum fulltime technicians, electricians, pipefitters and software professionals on-site
- Fully staffed Cyber Security team and network IT team
- Licensed manufacturer and installer of automation & fire systems – Original Equipment Design Manufacturer(OEM)
- Technicians have extensive OEM factory training
- Branch location less than 10 miles from site with 275 Siemens employees
- Siemens US Home Office 15 miles from site with complete staff available to problem solve any situation
- Siemens Factory and warehouse located at US Home Office with an abundance of product that can be used at O'Hare which means easy access to full inventory
- 30+ year proven track record at O'Hare with high satisfaction at O'Hare
- Reached current Minority Business goals
- R&D and software development center in downtown Chicago
- Downtown office in Chicago loop

In conclusion, the Siemens team is best positioned and committed to responding to critical life safety issues through our team of specialists including certified technicians, project managers, cyber security and IT experts, having overall ownership of the software platform. A quick response time is critical when an alarm or malfunction occurs at O'Hare. Siemens has 30+ years of experience servicing the airport and collaborating with CDA to implement the Desigo CC platform. In addition to your current team, Siemens supplements city employees at the airport to ensure the airport is staffed with the most qualified and experienced personnel.

9/20/2023

Best regards,

AJ DeGeorge - O'Hare Account Manager
Siemens Industry, Inc.



PROPOSAL

O'HARE AIRPORT - SUPPORT & MAINTENANCE OF THE SUPERVISORY MONITORING SYSTEM (SMS)
AND THE FIRE ALARM SYSTEM (FAS)

PREPARED BY

Siemens Industry, Inc. ("Siemens")

PREPARED FOR

CITY OF CHICAGO DEPARTMENT OF AVIATION

DELIVERED ON

10/11/2023

SMART BUILDINGS

Transforming the Everyday





Contact Information

Proposal #: 7505966
Date: 10/11/2024

Sales Executive: AJ DeGeorge
1701 Golf Rd.
Branch Address: Rolling Meadows, IL 60008
Tower 3, Suite 500
Telephone: 224-342-3448
Email Address: anthony.degeorge@siemens.com

Customer Contact: CHICAGO DEPT OF AVIATION
Customer: CITY OF CHICAGO DEPARTMENT OF AVIATION
Address: 10510 W ZEMKE RD
CHICAGO IL 60666-5038

Services shall be provided at: CITY OF CHICAGO DEPARTMENT OF AVIATION
10510 W ZEMKE RD CHICAGO IL 60666-5038



Siemens Capabilities & Customer Commitment

Siemens Industry, Inc. is a leading single-source provider of cost-effective facility performance solutions for the comfort, life safety, security, energy efficiency and operation of some of the most technically advanced buildings in the world. For more than 150 years, Siemens has built a culture of long-term commitment to customers through innovation and technology. Siemens is a financially strong global organization with a Branch network that delivers personalized service and support to customers in multiple industries and locations.

References are available upon request.

Contract (PO) number: 84871

Specification Number: 784155

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 Building Automation System (BAS) 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 2-2016 (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 on-going maintenance of Building Automation System (BAS) and the Fire Alarm System (FAS), related controls, hardware and software upgrades including, but not limited to:

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

All 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, Testing 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). Exhibit One lists all maintained equipment and systems.

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 Building Automation System (BAS) and the Fire Alarm System (FAS) and related controls including the preventative maintenance, testing 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, testing, repairs, adjustments and component replacements for the BAS 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, testing 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 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 BAS and Life Safety Systems (FAS) in accordance with



the requirements of the latest edition, including, but not limited to the following associations and standards: (Exhibit 4)

- National Fire Protection Association (NFPA)
 - National Electrical Manufacturers Association (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)
 - City of Chicago Electrical Code (CCEC)
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.
9. For any new system (s) installed by Siemens and/or added on the Building Automation System (BAS) and/or the Fire Alarm System (FAS), the monitoring, controlling, maintenance, repairs, adjustments and component replacements are all included and shall be part of the monthly fee, Exhibit 2 Line 1.

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	Brief Responsibilities/Qualifications
Account Supervisor	Manage Daily activities
Software/Systems Engineer	Design, Program and Maintain Desigo CC BAS System / Database
Service/System Specialists (BAS)	Trouble Calls/ Preventive Maintenance/ Work Orders
Electrician (BAS) & Fire (FAS)	Preventive Maintenance / Repairs to BAS/FAS / Panel Migrations /
*Mechanical/Pipe Fitter	Preventive Maintenance of Pneumatic Control Systems (Union 597 Pipe Fitter) (*One day per week per Facilities recommendation)
Fire Safety Testing and Inspection Specialist (FAS)	Test and Inspect all Fire Life Safety / Preventive Maintenance
TOTAL FULL TIME EMPLOYEES	10

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 - Two Floating Holidays

E. Preventative Maintenance Standards & Requirements

The contractor shall perform preventative maintenance on all BAS 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:

- National Fire Protection Association (NFPA)
- National Electrical Manufacturers Association (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)
- City of Chicago Electrical Code (CCEC)

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 BAS and devices to seamlessly communicate with each other utilizing BACnet (open protocol). The Contractor shall replace BAS 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 BAS 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 & BAS 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 2-2016. 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. BAS Testing

The Contractor shall test the BAS 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 BAS 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 BAS 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 (4) 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.

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, testing 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, TESTING 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, TESTING 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, TESTING AND MONITORING FEE (PROPOSAL PAGES-LINE ITEM 24)**

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 24. The Contractor shall supply all subcontractors' invoices with the monthly billing.

1.6 **PERSONNEL RESPONSIBILITIES**

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.

Software Systems Engineer - 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.

Desigo CC Service Specialist BAS - 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.

Service Specialist Fire - 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.

Mechanical/Pipe Fitter - 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 BAS.

BAS and FAS- Electrician - 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.

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.

Fire Alarm Inspector - 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 CDA Commissioner 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 EQUIPMENT AND SYSTEMS

Fire Equipment	Repair/ Maintain	Replace/	Quantity As of February 2013	Quantity As of February 2018	Quantity as of Sept 2023
System					
Components					
CENTRAL CONTROL PANEL (Siemens XLS FACP)	X		9	35	51
ANNUNCIATORS	X		14	14	22
PRE-ACTION PANELS	X		51	55	70
Initiating Devices					
HEAT DETECTOR	X		387	400	701
SMOKE DETECTORS (CEILING & DUCT)	X		1751	1950	2495
WATER FLOWS	X		271	325	504
PULL STATIONS	X		132	233	675
FLAME DETECTORS	X		2	3	3
Supervisory					
Devices:					
LOW PRESSURE SWITCH	X		60	60	90
TAMPER SWITCHES	X		403	425	905
Outputs:					
ELEVATOR RECALL	X		59	60	60
FIRE DOOR TESTING	X		135	135	135

SMS TIE IN INTERFACE	X	13	22	311
Miscellaneous Systems:				
CO2 FIRE TESTING	X	2	4	4
FIRE PUMP TEST	X	8	9	12
PNEUMATIC FIRE DEVICES (COMPRESSORS) FITTER	X		135	135
FAA TOWER REPORT TO CENTRAL STATION	X		2	2

Devices	Siemens Interface	Type	Vendor	3 rd Party
Fire Systems				
BUILDING 122 FIRE SYSTEM-now 222 T1 B		XLS DRIVER	SIEMENS FIRE	
BUILDING 123 FIRE SYSTEM-now 226 T1 C		XLS DRIVER	SIEMENS FIRE	
BUILDING 200 FIRE SYSTEM -T2		XLS DRIVER	SIEMENS FIRE	
BUILDING 205 FIRE SYSTEM-T2		XLS DRIVER	SIEMENS FIRE	
BUILDING 210 FIRE SYSTEM-T2		XLS DRIVER	SIEMENS FIRE	
BUILDING 215 FIRE SYSTEM-T2		XLS DRIVER	SIEMENS FIRE	
BUILDING 250 FIRE SYSTEM-T2		XLS DRIVER	SIEMENS FIRE	
BUILDING 260 FIRE SYSTEM-T2		XLS DRIVER	SIEMENS FIRE	
BUILDING 300-T3		XLS DRIVER	SIEMENS FIRE	
BUILDING 305 T3		XLS DRIVER	SIEMENS FIRE	
BUILDING 310 T3		XLS DRIVER	SIEMENS FIRE	
BUILDING 315 T3		XLS DRIVER	SIEMENS FIRE	
BUILDING 320-T3		XLS DRIVER	SIEMENS FIRE	
ELEVATED PARKING 410/412 T4		XLS DRIVER	SIEMENS FIRE	
BUILDING 450 H&R Building		XLS DRIVER	SIEMENS FIRE	
BUILDING 804 Admin Office		XLS DRIVER	SIEMENS FIRE	
BUILDING 502 AMC		XLS DRIVER	SIEMENS FIRE	
BUILDING 512 AMC ext		XLS DRIVER	SIEMENS FIRE	
BUILDING 472-RB40		XLS DRIVER	SIEMENS FIRE	
BUILDING 451 RB40		XLS DRIVER	SIEMENS FIRE	
BUILDING 836-Monitoring Only NE Cargo		XLS DRIVER	SIEMENS FIRE	
BUILDING 837-Monitoring Only NE Cargo		XLS DRIVER	SIEMENS FIRE	
BUILDING 843-Monitoring Only Fuel Farm		XLS DRIVER	SIEMENS FIRE	

BUILDING 891-Monitoring OnlyTrades Building	XLS DRIVER	SIEMENS DESIGO FIRE
BUILDING 793-removed	XLS DRIVER	SIEMENS FIRE
BUILDING 702 Demoed	XLS DRIVER	SIEMENS FIRE
BUILDING 721 -N Lighting Vaults	XLS DRIVER	SIEMENS FIRE
BUILDING 830 Conrac	XLS DRIVER	SIEMENS FIRE
BUILDING 822 Conrac	XLS DRIVER	SIEMENS FIRE
BUILDING 821-Monitoring only ATS	XLS DRIVER	SIEMENS FIRE
BUILDING 820 Conrac	XLS DRIVER	SIEMENS FIRE
SOUTH ACCESS ROAD TUNNEL	XLS DRIVER	SIEMENS FIRE
SOUTH CARGO TUNNEL	XLS DRIVER	SIEMENS FIRE
BUILDING 602-Crash Rescue 1	XLS DRIVER	SIEMENS FIRE
BUILDING 604/607 South Lighting Vaults	XLS DRIVER	SIEMENS FIRE
POST OFFICE ROAD TUNNEL	XLS DRIVER	SIEMENS FIRE
810 Badging	XLS DRIVER	SIEMENS FIRE
Bessie Coleman (Monitor Only)	XLS DRIVER	SIEMENS FIRE
819 Pump House	XLS DRIVER	SIEMENS FIRE
850 Security	XLS DRIVER	SIEMENS FIRE
475 CR3	XLS DRIVER	SIEMENS FIRE
400 Ops Tower T2	XLS DRIVER	SIEMENS FIRE
103 DeICER	XLS DRIVER	SIEMENS FIRE
840 Travel Plaza	XLS DRIVER	SIEMENS FIRE
K9	XLS DRIVER	SIEMENS FIRE
Tank Farm	XLS DRIVER	SIEMENS FIRE
838 Cargo	XLS DRIVER	SIEMENS FIRE
	XLS DRIVER	SIEMENS FIRE

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

<u>Network / SMS Hardware</u>	Total Units As of Feb-13	Total Units As of Feb-18	Total Units As of Sep-23
Equipment			
COMPUTERS			
Datamate SERVER	1	1	1
DESIGO DATABASE Applications vm	1	1	3
Desigo Sql Server Application vm			1
Desigo web server application vm			1
Desigo Test servers			5

DESIGO SOFTWARE		ALL	ALL
ABT DATABASE			1
POINT COUNT OF OBJECTS IN DESIGO		62000	82117
GRAPHIC COUNT OF OBJECTS IN DESIGO		3360	4100
NETWORK			
Undamaged Switch	42	42	42
Moving legacy VLAN's to CI/CCI network			33 vlan need to move to vlan 2160 in year 2024
FIELD PANELS			
ALN BACNET\IP CONTROLLER	186	609	660
FLN BACNET\IP CONTROLLERS	0	0	858
SIEMENS XLS FACP DRIVER ETHERNET	11	36	36
BACNET MSTP CONTROLLER	182	510	639
TEC P1	272	272	356
Note 1: Any future add-ons will fall under the SMS Contract.			

Equipment tied into the Building automation system Designo				
BAU Interface Devices	Type	Vendor	3 rd Party	NOTE
	Total Units As of Feb-13	Total Units As of Feb-18	Total Units As of Sep-23	
HVAC				
Equipment Controls				
AC UNITS				
OCC	4	4	4	NOTE 3
AHUs				
FULL DDC CONTROL	165	192	216	
HEAT EXCHANGERS				

FULL DDC CONTROL	46	68	68	
AIR COMPRESSORS				
AIR COMPRESSOR (FULL DDC CONTROL)	6	6	5	NOTE 2 & 3
CHILLED WATER PUMP (FULL CONTROL)	12	12	12	
HTW SYSTEM PUMPS (FULL CONTROL)	1	1	1	
BOILER CONTROL (FULL CONTROL)	1	3	3	
VAV BOX CONTROL (FULL CONTROL)	467	510	1490	
HEAT PUMP CONTROL (FULL CONTROL)	11	11	11	
LTW PUMP (FULL CONTROL)	158	162	162	
ELTRON AIR FLOW STATION CALIBRATION	6	12	ALL	NOTE 3
HMI TOUCHSCREEN	-	30	ALL	NOTE 3
VFD INTERFACE		ALL	ALL	NOTE 3
SUB-METERING SYSTEMS (ELECTRICAL, GAS, WATER, ETC.)		H&R PLANT	H&R PLANT	NOTE 3
PNEUMATIC CONTROLS		SUPPORT AS NEEDED THRU ALL TERMINALS AND OUTLYING BUILDINGS PER CDA FITTER REQUEST	SUPPORT AS NEEDED THRU ALL TERMINALS AND OUTLYING BUILDINGS PER CDA FITTER REQUEST	NOTE 2 & 3
WATER METER CALIBRATION	14	14	ALL	NOTE 3
	Type	Vendor		3 rd Party
ELECTRICAL SWITCH GEAR MONITOR	Total Units As of Feb-13	Total Units As of Feb-18	Total Units As of Sep-23	NOTE



BUILDING 607 GENERATORS / SWITCHGEAR INTERFACE		ALL	ALL	NOTE 3
BUIDLING 450 C&D EATON SWITCHGEAR INTERFACE		ALL	ALL	NOTE 3
BUILDING 472 EMERGENCY GENERATOR INTERFACE		ALL	ALL	NOTE 3
BUILDING 721 EMERGENCY GENERATOR\SWITCH GEAR INTERFACE		ALL	ALL	NOTE 3

PUMPING STATIONS

900 BASIN			ALL	NOTE 3
957 BASIN			ALL	NOTE 3
505 DEICER SYSTEM			ALL	NOTE 3
BLDG 991 BASIN			ALL	NOTE 3

MISCELLANEOUS SYSTEMS

BUILDING 450 HTW GENERATORS			ALL	NOTE 3
BUILDING 819 GENERATOR			ALL	NOTE 3
HOT BOX AIRFIELD (5)			ALL	NOTE 3
491 EMERGENCY GENERATORS\ATS			ALL	NOTE 3

pump stations	Total Units As of Feb-13	Total Units As of Feb-18	Total Units As of Sep-23	NOTE
	BLDG993 plc	1	1	1
NORTH STORM WATER (ST140) PLC	1	1	1	NOTE 3
BURN PIT	1	1	1	NOTE 3
MIAMI BEACH	1	1	1	NOTE 3
BLD825			1	NOTE 3
BLD480			1	NOTE 3

BLD643		1	1	NOTE 3
9C-27C RUNWAY (539)	-	1	1	NOTE 3
FEDEX	1	1	1	NOTE 3
UNITED CARGO	1	1	1	NOTE 3
BUILDING 622	1	1	1	NOTE 3
BUILDING 640	1	1	1	NOTE 3
TANGO10			1	NOTE 3
VEEDER ROOT SYSTEM	1	1	1	NOTE 3
B539			1	NOTE 3
B648		1	1	NOTE 3
B439			1	NOTE 3
CENTRAL DEICING			1	NOTE 3
BLD550			1	NOTE 3
BLD840			1	NOTE 3
CYSTRAL CREEK PLC				NOTE 3
SNOW MELT SYSTEM	1			NOTE 3

	Total Units As of	Total Units As of	Total Units As of	
MOVING EQUIPMENT (ALARMS TO SMS)				
ELEVATORS	92	98	100	NOTE 3
ESCALATORS	69	69	69	NOTE 3

CO MONITOR	30		NOTE 3
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<p>NOTE 1: Any future add-ons will fall under SMS contract.</p>			
<p>Note 2: Siemens contracted Fitter to demo, troubleshoot, repair, and replace throughout terminals and outlying buildings. Fitter preventative maintenance is included under Line Item 1 Fixed Price, repair, projects are under T&M.</p>			
<p>Note 3: If needed, Third Party will be used on T&M thru line item</p>			

EXHIBIT 2-2024 – PRICE QUOTE



Line #	Item Description	UOM	Estimated Usage Quantity (Monthly)	Unit Price	Extended Price (Monthly)	Extended Price (Yearly)
1	PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS.	Monthly	12	\$329,923.25	\$329,923.25	\$3,959,079
	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 Item 1) paid for using Line Items 2-24					\$250,000.00
2	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR	Hour		\$257.00		
3	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME	Hour		\$386.00		
4	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, DESIGO BAS SPECIALIST	Hour		\$257.00		
5	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, DESIGO BAS SPECIALIST- OVERTIME	Hour		\$386.00		
6	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE	Hour		\$257.00		
7	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME	Hour		\$386.00		
8	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, DESIGO BAS ELECTRICAL	Hour		\$239.00		
9	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, DESIGO BAS ELECTRICAL-OVERTIME	Hour		\$359.00		
10	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER	Hour		\$209.00		
11	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER-OVERTIME	Hour		\$274.00		
12	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR	Hour		\$257.00		
13	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR-OVERTIME	Hour		\$386.00		
14	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS	Hour		\$207.00		

SIEMENS

15	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME	Hour		\$311.00		
16	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS	Hour		\$239.00		
17	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS -OVERTIME	Hour		\$359.00		
18	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST	Hour		\$207.00		
19	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST – OVERTIME	Hour		\$311.00		
20	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER	Hour		\$257.00		
21	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME	Hour		\$386.00		
22	PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE	Discount		-52%		
23	PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES	Mark up		+10%		
24	SUBCONTRACTOR SERVICES AT COST PLUS 10% MARK UP CONTRACT ADMINISTRATION MARK UP	Mark up		+10%		
25	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - TRIDIUM SPECIALIST			\$295.00		
26	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - TRIDIUM SPECIALIST- OVERTIME			\$442.00		
27	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - TRIDIUM ENGINEERING SOFTWARE	Hour		\$295.00		
28	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - TRIDIUM ENGINEERING SOFTWARE- OVERTIME	Hour		\$442.00		
	Total \$ 2024					\$4,209,079



EXHIBIT 2-2025 – PRICE QUOTE

Line #	Item Description	UOM	Estimated Usage Quantity (Monthly)	Unit Price	Extended Price (Monthly)	Extended Price (Yearly)
1	PREVENTATIVE & MONITORING LABOR, PARTS, MATERIALS.	Monthly	12	\$347,623.41	\$347,623.41	\$4,171,481
	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 Item 1) paid for using Line Items 2-24					\$250,000.00
2	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR	Hour		\$270.00		
3	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SUPERVISOR, OVERTIME	Hour		\$405.00		
4	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, DESIGO BAS SPECIALIST	Hour		\$270.00		
5	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, DESIGO BAS SPECIALIST- OVERTIME	Hour		\$405.00		
6	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE	Hour		\$270.00		
7	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEERING SOFTWARE- OVERTIME	Hour		\$405.00		
8	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, DESIGO BAS ELECTRICAL	Hour		\$251.00		
9	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, DESIGO BAS ELECTRICAL-OVERTIME	Hour		\$376.00		
10	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER	Hour		\$220.00		
11	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, MECHANICAL/PIPE-FITTER-OVERTIME	Hour		\$330.00		
12	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR	Hour		\$270.00		
13	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENGINEER, HIGH TEMPERATURE WATER GENERATOR-OVERTIME	Hour		\$405.00		

SIEMENS

14	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS	Hour		\$218.00		
15	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, SPECIALIST, FIRE SYSTEMS- OVERTIME	Hour		\$327.00		
16	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL, FIRE SYSTEMS	Hour		\$251.00		
17	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ELECTRICAL FIRE SYSTEMS -OVERTIME	Hour		\$376.00		
18	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST	Hour		\$218.00		
19	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, FIRE SYSTEMS-TESTING/INSPECTION SPECIALIST – OVERTIME	Hour		\$327.00		
20	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER	Hour		\$270.00		
21	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - LABOR, ENERGY ENGINEER - OVERTIME	Hour		\$405.00		
22	PARTS MFR BY SIEMENS AT A 52% DISCOUNT FROM LIST PRICE	Discount		-52%		
23	PARTS NOT MFR BY SIEMENS AT A 10% MARKUP FROM COST VERIFIABLE BY SUPPLIER'S INVOICES	Mark up		+10%		
24	SUBCONTRACTOR SERVICES AT COST PLUS 10% MARK UP CONTRACT ADMINISTRATION MARK UP	Mark up		+10%		
25	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - TRIDIUM SPECIALIST	Hour		\$310.00		
26	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - TRIDIUM SPECIALIST- OVERTIME	Hour		\$465.00		
27	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - TRIDIUM ENGINEERING SOFTWARE	Hour		\$310.00		
28	MAINTENANCE, CONTROLLING, INDICATING RECORDING EQUIPMENT - TRIDIUM ENGINEERING SOFTWARE- OVERTIME	Hour		\$465.00		
	Total \$ Year Five					\$4,421,481

SIGNATURE SECTION:

Siemens Pricing Summary:

For the past (10) years, the YOY escalations for this agreement have been fixed at 3%. Due to the economic impact of inflation, increased costs of materials, and labor rate increases, particularly for specialty trades over the past five years, Siemens is adjusting the annual cost of this agreement for 2024 to account for these measures. Also, the Fire System and Building Automation System (BAS) have grown considerably over the past five years (please reference Exhibit 1 above to see how the quantity of equipment has increased during the life of this agreement). The 2024 pricing reflects the inflationary impact we have experienced, labor and material increases, and the expanding responsibility of the Siemens team of trained technicians, project managers, and skilled trades to maintain these critical life safety systems at O'Hare Airport. For the reasons stated above, the price of this agreement for 2024 is being escalated by 12% from 2023. Then the agreement will escalate at a rate of 5% for the 2025 term. Please note, due to the markups and discounts stipulated in the terms of this agreement on materials and subcontractor costs respectively, O'Hare Airport is getting pricing well below Siemens' typical customer street rates.

Contract Extension Pricing

Period	Period Range	Billing Frequency	Annual Price
1	Jan 1, 2024 - Dec 31, 2024	Monthly	\$4,209,079
2	Jan 1, 2025 - Dec 31, 2025	Monthly	\$4,421,481

Siemens Industry, Inc.



Electronically signed by:
Richard Cillessen
Date: Oct 12, 2023 11:18 CDT

Signature

Rich Cillessen
Head of Sales, SI RSS RAM

Name

Date



Electronically signed by: Dirk
Glaser
Date Oct 12, 2023 11:52
PDT

Dirk Glaser-Field Organization, FBA

EXHIBIT 3

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

- Desigo CC Automation software upgrade subscription
- Software and hardware maintenance, troubleshooting, and upgrades for Desigo CC Automation and Fire System graphics, points, alarm, and database
- Training on new Desigo CC including Fire XLS platform for CDA personnel
- Automation healthy report to diagnose network and system performance
- Evaluation of data networks include analysis of bandwidth, disturbances, and network traffic
- Ensure CDA network data security by updating software patches, passwords, and firewalls
- Run point summary report including points in alarm and operator override points
- Run PPCL report and document unresolved points
- Add or modify applications, sensors, points, panels and /or software where needed to improve building operation and performance
- Desigo energy dashboard reports for HR Plant and CDA buildings
- Modify and perform necessary upgrades to system graphics to Desigo enhanced version
- Clean up and remove unused graphics
- All BAS and FAS equipment installed post construction project is to be phased into comprehensive coverage at project completion
- CDA directed support to troubleshoot issues and resolve work orders on BAS and Fire XLS systems
- 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 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 BAS Building Automation reports of PM performed
- Perform scheduled backups of workstation database and graphics and/or field panel databases and provide safe storage of critical business information on a weekly basis
- Secondary back up kept in separate Siemens virtual and physical location of airport
- Restore databases on-site within emergency response time frame when required
- Emergency Service on line within 2 hours.
- Emergency Service on-site within 4 hours
- Control Loop Evaluation and Tuning includes software control check's on Direct Digital

Controls for AHU's, Chilled Water Plant, and High Temperature Water System

- Provide system commissioning to verify system sequence of operation working as designed
- Utilize Siemens CAP+ Analysis tool to troubleshoot and optimize air flow and temperature parameters on VAVBoxes
- Ongoing operator coaching and training of 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 at field panel
- Check all electrical wiring and tighten loose connections at field panel
- Verify all pneumatics are working properly including air pressure and checking/fixing leaks on supply and branch lines
- Verify Sensor readings with computer and replace sensors as needed.
- Inspect operation of mechanical systems and verify capability of integrated systems.
- Bring in corporate resources for testing, training, and roll out for technology enhancements
- Work with program management and engineering consultants that are brought in by CDA.
- Any new systems installed by Siemens and/or put on Siemens Automation System or Fire Life Safety System
- Yearly Fire Pump Testing
- All materials that are found defective during normal PM or on an emergency call.
- All labor for emergency service after hours.

Samples of Items Not Within the Scope of Monthly Fixed Fee Coverage Line 1:

- When new equipment is replacing old HVAC equipment where the tier of Contractors is involved, this would be considered project or bid work.
- When an Act of God or accidental destruction of equipment by someone other than Siemens employee happens this will be replaced at billable rates for parts only, labor cost will be included in the monthly fixed fee up to 1 man day or less to perform.

EXHIBIT 4

Current Industry Standards & Guidelines:

Code	URL
National Electrical manufacturers Association (NEMA) Standards Publication SB 2-2016	https://www.nema.org/news/Pages/NEMA-Revises-Training-Manual-on-Fire-Alarm-Systems-NEMA-SB-2-2016.aspx
National Fire Protection Association (NFPA) 72	https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=72
American with Disabilities Act (ADA)	https://www.ada.gov/
City of Chicago Mayor's Office for People with Disabilities (MOPD)	https://www.cityofchicago.org/city/en/depts/mopd.html
City of Chicago Building Code (CBC)	https://www.cityofchicago.org/city/en/depts/bldgs/provdrs/inspect/svcs/chicago_buildingcodeonline.html
City of Chicago Electrical Code (CCEC)	https://www.cityofchicago.org/city/en/depts/bldgs/supp_info/electrical_inspections.html
American Society of Heating, Ventilation, Air Conditioning and Refrigeration Engineers (ASHRAE)	https://www.ashrae.org/
American Society of Heating, Ventilation, Air Conditioning and Refrigeration Engineers (ASHRAE 180) Standard 180	https://www.ashrae.org/standards-research--technology/standards-interpretations/interpretations-for-standard-180-2008
Telecommunications Industry Association (TIA)	https://www.tiaonline.org/
Electronic Industries Alliance (EIA)	https://www.ecianow.org/standards-practices/standards/
American National Standards Institute	https://www.ansi.org/
BACnet Standard 135	https://www.ashrae.org/resources--publications/bookstore/bacnet




CITY OF CHICAGO

CHICAGO DEPARTMENT OF AVIATION

To: Aileen Velazquez
Chief Procurement Officer

Attention: Lorel D. Blameuser
Deputy Procurement Officer

Gabriel Rodriguez
Deputy Procurement Officer

From: 
David P. Winters
Chief Accountability Officer

Date: 9/25/23

Subject: CDA Concurrence on MBE and WBE Compliance Goals:
"Support & Maintenance of the Supervisory Monitoring Systems (SMS)
and the Fire Alarm System (FAS)"

Vendor: Siemens Industry Inc. 01
Requisition Number: 552120
Specification Number: 784155
Expiring PO Number: 84871

The Chicago Department of Aviation (CDA) is in receipt of the letter from Siemens Industry Inc. 01 ("Siemens") dated September 15, 2023 regarding their revised compliance plan. The CDA has reviewed and concurs with this request. The original contract, PO 84871, awarded January 1, 2019, had a compliance goal set at 25% MBE and 5% WBE. Siemens requested a partial waiver request for MBE, to 22%, and a full WBE waiver request. The City of Chicago approved this request.

For the two year extension, Siemens has reviewed and requested a revised compliance plan. They are able to increase their MBE to 23% using the existing MBE firm of Quantum Crossings, LLC. Quantum Crossings, LLC will provide facilities management and operation services. Quantum Crossings, LLC is a certified firm under the following NAICS Codes:

- 236220 – Construction of Commercial and Institutional Buildings and Structures
- 237130 – Construction Management, Power and Communication Transmission Line
- 541512 – Computer Systems Design Services
- 541512 – Network Systems Integration Design Services, Computer
- 541513 – Computer Systems Facilities (i.e., clients' facilities) Management and Operation Services
- 541614 – Telecommunications Management Consulting Services

In addition, Siemens has conducted outreach and can now provide a small opportunity for a certified WBE firm for this extension. The WBE firm is Align Consulting and Management, LLC and they will provide consulting work. Align Consulting and Management, LLC is a certified firm under the following NAICS Codes:

541513 – Computer Facilities Management Services
541519 – Computer Disaster Recovery Services; Software Installation Services, Computer
541618 – Telecommunications and Utilities Management Consulting Services
561110 – Office Administrative Services

The CDA concurs with Siemens compliance plan for the two year time extension.

Thank you for your assistance.

Fw: NCRB request for extension and VLI for Siemens, PO 84871

Rosemary McDonnell <Rosemary.McDonnell3@cityofchicago.org>

Fri 9/29/2023 10:22 PM

To: Gabriel Rodriguez <Gabriel.Rodriguez2@cityofchicago.org>

Cc: Gwendolyn King <Gwendolyn.King@cityofchicago.org>; James Harney <James.Harney@cityofchicago.org>; Peter Butkovic <PETER.BUTKOVIC@cityofchicago.org>

📎 1 attachments (970 KB)

DOC_Siemens 84871 extension Compliance_CDA Concurrence.pdf;

Good evening Gabriel,

The CDA is requesting to present to the NCRB for an extension for PO 84871 with Siemens. Siemens has provided their compliance plan for the extension. The base contract was 25% MBE and 5% WBE. However, Siemens requested, and the City approved, a full WBE waiver and a MBE reduction to 22%.

Attached is the compliance documents for your review. Siemens is increasing their MBE to 23% and their WBE to 0.5%. The CDA concurs with their compliance plan for the extension.

Thank you,

Rosemary

Rosemary C. McDonnell

Assistant Commissioner



Chicago Department of Aviation
10510 W. Zemke Road | Building 804
Chicago, IL 60666
Office: (773) 894-1822
Email: Rosemary.McDonnell3@cityofchicago.org

Visit us at flychicago.com.Contact us at aviation@flychicago.com.

From: Rosemary McDonnell <Rosemary.McDonnell3@cityofchicago.org>**Sent:** Tuesday, September 26, 2023 1:12 PM**To:** Steve Loboda <Steve.Loboda@cityofchicago.org>; Troy Nanan <Troy.Nanan@cityofchicago.org>**Cc:** Lorel Blameuser <Lorel.Blameuser2@cityofchicago.org>; Stephanie Pawlyshyn <Stephanie.Pawlyshyn@cityofchicago.org>; James Harney <James.Harney@cityofchicago.org>; Peter Butkovic



CITY OF CHICAGO

CHICAGO DEPARTMENT OF AVIATION

To: Aileen Velazquez
Chief Procurement Officer

Attention: Tammi Morgan
Contracting Equity Officer/Managing Deputy Commissioner

Gabriel Rodriguez
Deputy Procurement Officer

From: 
David P. Winters
Chief Accountability Officer/Managing Deputy Commissioner

Date: 10/12/23

Subject: CDA Revised Submission

CDA Concurrence on MBE and WBE Compliance Goals:
"Support & Maintenance of the Supervisory Monitoring Systems (SMS)
and the Fire Alarm System (FAS)"

Vendor: Siemens Industry Inc. 01
Requisition Number: 552120
Specification Number: 784155
Expiring PO Number: 84871

The Chicago Department of Aviation (CDA) respectfully resubmits this Memo to the Department of Procurement Services (DPS) Office of Contracting Equity. The CDA originally submitted this Memo to DPS on September 26, 2023. Per DPS, we are revising this Memo and will send it via email to DPS' Office of Contracting Equity. This signed Memo and a copy of the email to DPS will be included.

The CDA is in receipt of the letter from Siemens Industry Inc. 01 ("Siemens") dated September 15, 2023 regarding their revised compliance plan. The CDA has reviewed and concurs with this request. The original contract, PO 84871, awarded January 1, 2019, had a compliance goal set at 25% MBE and 5% WBE. Siemens requested a partial waiver request for MBE, to 22%, and a full WBE waiver request. The City of Chicago approved this request.

For the two year extension, Siemens has reviewed and requested a revised compliance plan. They are able to increase their MBE to 23% using the existing MBE firm of Quantum Crossings, LLC. Quantum Crossings, LLC will provide facilities management and operation services. Quantum Crossings, LLC is a certified firm under the following NAICS Codes:

- 236220 – Construction of Commercial and Institutional Buildings and Structures
- 237130 – Construction Management, Power and Communication Transmission Line
- 541512 – Computer Systems Design Services
- 541512 – Network Systems Integration Design Services, Computer
- 541513 – Computer Systems Facilities (i.e., clients' facilities) Management and Operation Services
- 541614 – Telecommunications Management Consulting Services

In addition, Siemens has conducted outreach and can now provide a small opportunity for a certified WBE firm for this extension. The WBE firm is Align Consulting and Management, LLC and they will provide consulting work. Align Consulting and Management, LLC is a certified firm under the following NAICS Codes:

- 541513 – Computer Facilities Management Services
- 541519 – Computer Disaster Recovery Services; Software Installation Services, Computer
- 541618 – Telecommunications and Utilities Management Consulting Services
- 561110 – Office Administrative Services

The CDA concurs with Siemens compliance plan for the two year time extension.

Thank you for your assistance.

Cc: Lorel D. Blameuser, DPS
Stephanie Pawlyshyn, DPS

CDA request for contract modification for PO 84871/CDA Compliance Concurrence

Rosemary McDonnell <Rosemary.McDonnell3@cityofchicago.org>

Thu 10/12/2023 11:55 AM

To: Tammi Morgan <Tammi.Morgan@cityofchicago.org>

Cc: Gabriel Rodriguez <Gabriel.Rodriguez2@cityofchicago.org>; James Harney <James.Harney@cityofchicago.org>; David Winters <David.Winters2@cityofchicago.org>; Peter Butkovic <PETER.BUTKOVIC@cityofchicago.org>

📎 1 attachments (1 MB)

MEM_CDA Compliance Concurrence_Rv1_20231012.pdf;

Good morning Managing Deputy Commissioner Morgan:

The CDA is requesting to present to the NCRB for a contract modification for PO 84871 with Siemens. Siemens has provided their compliance plan for the extension. The base contract's compliance was 25% MBE and 5% WBE. However, Siemens requested, and the City approved, a full WBE waiver and a MBE reduction to 22%.

Attached is their compliance plan for the extension. Siemens is able to increase their MBE to 23% and their WBE to 0.5%. The CDA concurs with their compliance plan for the contract modification.

Thank you,

Rosemary

Rosemary C. McDonnell

Assistant Commissioner



Chicago Department of Aviation
10510 W. Zemke Road | Building 804
Chicago, IL 60666
Office: (773) 894-1822
Email: Rosemary.McDonnell3@cityofchicago.org

Visit us at flychicago.com.

Contact us at aviation@flychicago.com.

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recipient), you are hereby notified that any dissemination, distribution, printing or copying of this e-mail, and any attachment thereto, is strictly prohibited. If you have received this e-mail in error, please respond to the individual sending the message, and permanently delete the original and any copy of any e-mail and printout thereof.



September 15, 2023

Chicago Department of Aviation
10510 West Zemke Road
Chicago, IL 60666
Attn: Rosemary McDonnell

Subject: ORD BAS & Fire Systems Service Agreement - Siemens MBE/WBE Requirements

Dear Rosemary,

The subject contract currently in place between CDA and Siemens stipulates 25% MBE and 5% WBE participation. Siemens requested, and the City granted a waiver of 3% for the MBE participation and a full waiver of 5% for the WBE participation. This is due to the lack of qualified MBE/WBE firms that can perform the specialty nature of the services Siemens provides. The Building Automation System (BAS) and Fire Systems at ORD are critical systems that have major impact on life safety at the airport. Siemens certified technicians go through extensive training programs to be able to support these critical building systems.

Siemens takes the MBE/WBE participation goals very seriously and have always shown good faith efforts during our tenure at the airport. We have consistently met our MBE goal of 22% or have overachieved by an additional percent year over year.

Siemens has continued to review opportunities for MBE and WBE firms under this contract. To stay in compliance of these requirements and with the 3% MBE and 5% WBE waivers in place for the current contract and the two-year contract extension, Siemens was able to slightly increase its MBE and WBE goals. Siemens can commit to a 23% MBE goal and a 0.5% WBE goal, which is an increase of 1% for MBE and 0.5% for WBE. This is based on the availability of identified firms that have the specialized capabilities and expertise for this contract. is committing to an MBE participation goal of 23% and a WBE goal of 0.5% However, through the life of the two-year term of this extension, Siemens vows to continuously research opportunities and take appropriate measures to increase these MBE/WBE participation amounts.

Best regards,


AJ DeGeorge - O'Hare Account Manager
Siemens Industry, Inc.

9/20/2023



FOR
NON-CONSTRUCTION
PROJECTS ONLY

SCHEDULE C-1
MBE/WBE Letter of Intent to Perform as a
Subcontractor, Supplier, or Consultant

Project Name: ORD BAS and Fire System Maintenance Specification No.: 784155

From: Quantum Crossings, LLC
(Name of MBE/WBE Firm)

To: Siemens and the City of Chicago.
(Name of Prime Contractor)

The MBE or WBE status of the undersigned is confirmed by the attached City of Chicago or Cook County, Illinois 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 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:

Facilities Management and Operation Services

The above described performance is offered for the following price and described terms of payment:
Contract invoiced monthly and paid net 30 days. Minimum hourly rate is \$74.56 and Maximum hourly rate is \$125.00

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.

0 % of the dollar value of the MBE or WBE subcontract that will be subcontracted to non MBE/WBE contractors.

0 % 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.

The undersigned has entered into a formal written mentor protégé agreement as a subcontractor/protégé with you as a Prime Contractor/mentor: () Yes (X) No

NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES.

Roger J. Martinez
(Signature of President/Owner/CEO or Authorized Agent of MBE/WBE)

9/13/2023
(Date)

Roger J. Martinez / President & CEO
(Name/Title-Please Print)

rmartinez@quantumcrossings.com 312-467-0065
(Email & Phone Number)



SCHEDULE D-1
 Compliance Plan Regarding MBE/WBE Utilization
Affidavit of Prime Contractor

FOR
**NON-CONSTRUCTION
 PROJECTS ONLY**

MUST BE SUBMITTED WITH THE BID. FAILURE TO SUBMIT THE SCHEDULE D-1 WILL CAUSE THE
 BID TO BE REJECTED. DUPLICATE AS NEEDED.

Project Name: ORD BAS and Fire System Maintenance

Specification No.: 784155

In connection with the above captioned contract, I HEREBY DECLARE AND AFFIRM that I am a duly authorized representative of Siemens
 (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 and/or Cook County, Illinois (Letters of Certification Attached).

I. Direct Participation of MBE/WBE Firms:

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 joint venture and one or more joint venture partners are certified MBEs or WBEs, attach copies of Letters of Certification, Schedule B form and a copy of Joint Venture Agreement clearly describing the role of each MBE/WBE firm(s) and its ownership interest in the joint venture.

B. Complete this section for each MBE/WBE Subcontractor/Supplier/Consultant participating on this contract:

1. Name of MBE/WBE Quantum Crossings, LLC

Address: 111 E Wacker Drive, Suite 990, Chicago, IL 60601

Contact Person: Roger J. Martinez

Phone Number: 312-467-0065

Dollar Value of Participation \$ Dependent Upon Review

Percentage of Participation % 23

Mentor Protégé Agreement (attach executed copy): () Yes () No Add'l Percentage Claimed¹ %

Total Participation %

2. Name of MBE/WBE:

Address:

Contact Person:

¹ The Prime Contractor may claim an additional 0.333 percent participation credit (up to a maximum of five (5) percent) for every one (1) percent of the value of the contract performed by the MBE/WBE protégé firm.

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

Phone Number: _____
Dollar value of participation \$ _____
Percentage of Participation % _____
Mentor Protégé Agreement (attach executed copy): () Yes () No Add'l Percentage Claimed: ____%
Total Participation % _____

3. Name of MBE/WBE: _____
Address: _____
Contact Person: _____
Phone Number: _____
Dollar Value of Participation \$ _____
Percentage of Participation % _____
Mentor Protégé Agreement (attach executed copy): () Yes () No Add'l Percentage Claimed: ____%
Total Participation % _____

4. Name of MBE/WBE: _____
Address: _____
Contact Person: _____
Phone Number: _____
Dollar Value of Participation \$ _____
Percentage of Participation % _____
Mentor Protégé Agreement (attach executed copy): () Yes () No Add'l Percentage Claimed: ____%
Total Participation % _____

5. Attach Additional Sheets as Needed

II. Indirect Participation of MBE/WBE Firms

NOTE: This section need not be completed if the MBE/WBE goals have been met through the direct participation outlined in Section I. If the MBE/WBE goals have not been met through direct participation, Contractor will be expected to demonstrate that the proposed MBE/WBE direct participation represents the maximum achievable under the circumstances. Only after such a demonstration will indirect participation be considered.

MBE/WBE Subcontractors/Suppliers/Consultants proposed to perform work or supply goods or services where such performance does not directly relate to the performance of this contract:

1. Name of MBE/WBE: _____
Address: _____
Contact Person: _____

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

Phone Number _____

Dollar Value of Participation \$ _____

Percentage of Participation % _____

Mentor Protégé Agreement (attach executed copy): () Yes () No Add'l Percentage Claimed: ____%

Total Participation % _____

2. Name of MBE/WBE: _____

Address: _____

Contact Person: _____

Phone Number: _____

Dollar Value of Participation \$ _____

Percentage of Participation % _____

Mentor Protégé Agreement (attach executed copy): () Yes () No Add'l Percentage Claimed: ____%

Total Participation % _____

3. Name of MBE/WBE: _____

Address: _____

Contact Person: _____

Phone Number: _____

Dollar Value of Participation \$ _____

Percentage of Participation % _____

Mentor Protégé Agreement (attach executed copy): () Yes () No Add'l Percentage Claimed: ____%

Total Participation % _____

4. Name of MBE/WBE: _____

Address: _____

Contact Person: _____

Phone Number: _____

Dollar Value of Participation \$ _____

Percentage of Participation % _____

Mentor Protégé Agreement (attach executed copy) () Yes () No Add'l Percentage Claimed: ____%

Total Participation % _____

5. Attach Additional Sheets as Needed

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

III. Summary of MBE/WBE Proposal

A. MBE Proposal (Direct & Indirect)

1. MBE Direct Participation

MBE Firm Name	Dollar Amount Participation (\$)	Percent Amount Participation (%)
Quantum Crossings, LLC	DUR	23
Total Direct MBE Participation		

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-MBE/WBE Compliance Plan

The Prime Contractor designates the following person as its MBE/WBE Liaison Officer:

AJ DeGeorge

224-342-3448

(Name- Please Print or Type)

(Phone)

I DO SOLEMNLY DECLARE AND AFFIRM UNDER PENALTIES OF PERJURY THAT THE CONTENTS OF THE FOREGOING DOCUMENT ARE TRUE AND CORRECT, THAT NO MATERIAL FACTS HAVE BEEN OMITTED, AND THAT I AM AUTHORIZED ON BEHALF OF THE PRIME CONTRACTOR TO MAKE THIS AFFIDAVIT.

Siemens Industry, Inc.

(Name of Prime Contractor - Print or Type)

State of: Illinois

[Handwritten Signature]

(Signature)

County of: Cook

AJ DeGeorge - Account Executive

(Name/Title of Affiant - Print or Type)

9/13/2023

(Date)

On this 12th day of September, 2023, the above signed officer AJ DeGeorge

(Name of Affiant)

personally appeared and, known by me to be the person described in the foregoing Affidavit, acknowledged that (s)he executed the same in the capacity stated therein and for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and seal.

[Handwritten Signature]

(Notary Public Signature)

Commission Expires: 9-21-24

SEAL:





CITY OF CHICAGO

*

DEPARTMENT OF PROCUREMENT SERVICES

FEB - 8 2024

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

Dear Mr. Martinez:

We are pleased to inform you that Quantum Crossings, LLC is recertified as a **Minority-Owned Business Enterprise ("MBE")** by the City of Chicago ("City"). This MBE certification is valid until **1/31/2026**; however, your firm's certification must be revalidated annually. In the past the City has provided you with an annual letter confirming your certification; such letters will no longer be issued. Therefore, we require you to be even more diligent in filing your **annual No-Change Affidavit 60 days** before your annual anniversary date.

It is now your responsibility to check the City's certification directory and verify your certification status. As a condition of continued certification during the five-year period stated above, you must file an **annual No-Change Affidavit**. Your firm's annual No-Change Affidavit is due by **1/31/2022, 1/31/2023, 1/31/2024 and 1/31/2025**. Please remember, you have an affirmative duty to file your No-Change Affidavit 60 days prior to the date of expiration. Failure to file your annual No-Change Affidavit may result in the suspension or rescission of your certification.

Your firm's five-year certification will expire on **1/31/2026**. You have an affirmative duty to file for recertification **60 days** prior to the date of the five-year anniversary date. Therefore, you must file for recertification by **11/30/2025**.

It is important to note that you also have an ongoing affirmative duty to notify the City 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, gross receipts and or personal net worth that exceed the program threshold. Failure to provide the City with timely notice of such changes may result in the suspension or rescission of your certification. In addition, you may be liable for civil penalties under Chapter 1-22, "False Claims", of the Municipal Code of Chicago.

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

- File your **annual No-Change Affidavit within the required time period**;
- Provide financial or other records requested pursuant to an audit within the required time period;

OW

- Notify the City of any changes affecting your firm's certification **within 10 days** of such change; or
- File your recertification within the required time period.

Please be reminded of your contractual obligation to cooperate with the City with respect to any reviews, audits or investigation of its contracts and affirmative action programs. We strongly encourage you to assist us in maintaining the integrity of our programs by reporting instances or suspicions of fraud or abuse to the City's Inspector General at chicagoinspectorgeneral.org, or **866-IG-TIPLINE (866-448-4754)**.

Be advised that 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. 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 the individual or entity, or the individual or entity assisted 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 and not more than \$10,000 or both.

Your firm's name will be listed in the City's Directory of Minority and Women-Owned Business Enterprises in the specialty area(s) of:

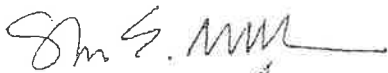
NAICS Code(s):

- 236220 – Construction of Commercial and Institutional Buildings and Structures
- 237130 – Construction Management, Power and Communication Transmission Line
- 541512 – Computer Systems Design Services
- 541512 – Network Systems Integration Design Services, Computer
- 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 MBE goals in your area(s) specialty. While your participation on City contracts is not limited to your area of specialty, credit toward goals will be given only for work that is self-performed and providing a commercially useful function that is done in the approved specialty category.

Thank you for your interest in the City's Minority, Women-Owned Business Enterprise, Veteran-Owned Business Enterprise and Business Enterprise Owned or Operated by People with Disabilities (MBE/WBE/VBE/BEPD) Program.

Sincerely,



Shannon E. Andrews
Chief Procurement Officer

SEA/bbo

ARTICLE 1. SCHEDULE C-1. LETTER OF INTENT FROM MBE/WBE TO PERFORM AS SUBCONTRACTOR, SUPPLIER AND/OR CONSULTANT



FOR
NON-CONSTRUCTION
PROJECTS ONLY

SCHEDULE C-1
MBE/WBE Letter of Intent to Perform as a
Subcontractor, Supplier, or Consultant

Project Name: ORD BAS FIRE ALARM Specification No.: 784158
 From: Align Consulting and Mgmt. LLC
(Name of MBE/WBE Firm)
 To: Siemens JMC. and the City of Chicago.
(Name of Prime Contractor)

The MBE or WBE status of the undersigned is confirmed by the attached City of Chicago or Cook County, Illinois 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 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.

consulting services for contract work

The above described performance is offered for the following price and described terms of payment.

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.

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.

_____ % 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, 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.

One or more owners or principals of the Prime Contractor () does / () does not have an ownership interest in the undersigned. Provide names of such individuals and their respective ownership percentages, or indicate "none." Attach additional sheets if necessary: _____

The undersigned has entered into a formal written mentor protégé agreement as a subcontractor/protégé with you as a Prime Contractor/mentor: () Yes () No

NOTICE: THIS SCHEDULE AND ATTACHMENTS REQUIRE ORIGINAL SIGNATURES.

Thomas P. Rice 9/13/2023
(Signature of President/Owner, CEO or Authorized Agent of MBE/WBE) (Date)

Owner
(Name (or Please Print))

Thomas P. Rice@alignconsulting.com
(Email & Phone Number)



Schedule D-1: Affidavit of Implementation of MBE/WBE Goals and Participation Plan

SCHEDULE D-1
Compliance Plan Regarding MBE/WBE Utilization
Affidavit of Prime Contractor

FOR
NON-CONSTRUCTION
PROJECTS ONLY

MUST BE SUBMITTED WITH THE BID. FAILURE TO SUBMIT THE SCHEDULE D-1 WILL CAUSE THE BID TO BE REJECTED. DUPLICATE AS NEEDED.

Project Name ORD GAS and Fire System Maintenance
Specification No 784155

In connection with the above captioned contract, I HEREBY DECLARE AND AFFIRM that I am a duly authorized representative of Siemens
(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 and/or Cook County Illinois (Letters of Certification Attached)

I. Direct Participation of MBE/WBE Firms:

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 joint venture and one or more joint venture partners are certified MBEs or WBEs, attach copies of Letters of Certification, Schedule B form and a copy of Joint Venture Agreement clearly describing the role of each MBE/WBE firm(s) and its ownership interest in the joint venture

B. Complete this section for each MBE/WBE Subcontractor/Supplier/Consultant participating on this contract

1. Name of MBE/WBE Align Consulting + Mgmt LLC
Address 7521 N. Milwaukee Ave, Niles, IL 60714
Contact Person Tamie Perea
Phone Number 773 - 879 - 4100
Dollar Value of Participation \$ 20,000
Percentage of Participation % 0.5%
Mentor Protégé Agreement (attach executed copy) () Yes () No Add'l Percentage Claimed ¹ ___ %
Total Participation % _____

2. Name of MBE/WBE _____
Address _____
Contact Person _____

¹ The Prime Contractor may claim an additional 0.5 percent participation credit (up to a maximum of five (5) percent) for every one (1) percent of the value of the contract performed by the MBE/WBE protégé firm

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

Phone Number _____
Dollar Value of Participation \$ _____
Percentage of Participation % _____
Mentor Protégé Agreement (attach executed copy) () Yes () No Add'l Percentage Claimed ____%
Total Participation % _____

3. Name of MBE/WBE _____
Address _____
Contact Person _____
Phone Number _____
Dollar Value of Participation \$ _____
Percentage of Participation % _____
Mentor Protégé Agreement (attach executed copy) () Yes () No Add'l Percentage Claimed ____%
Total Participation % _____

4. Name of MBE/WBE _____
Address _____
Contact Person _____
Phone Number _____
Dollar Value of Participation \$ _____
Percentage of Participation % _____
Mentor Protégé Agreement (attach executed copy) () Yes () No Add'l Percentage Claimed ____%
Total Participation % _____

5. Attach Additional Sheets as Needed

II. Indirect Participation of MBE/WBE Firms

NOTE: This section need not be completed if the MBE/WBE goals have been met through the direct participation outlined in Section I. If the MBE/WBE goals have not been met through direct participation, Contractor is required to demonstrate Good Faith Efforts pursuant to the MBE/WBE Special Conditions in a request for a waiver or reduction of MBE/WBE goals. Indirect participation may be considered as part of such Good Faith Efforts in support of the requested waiver or reduction.

MBE/WBE Subcontractors/Suppliers/Consultants proposed to perform work or supply goods or services where such performance does not directly relate to the performance of this contract

1. Name of MBE/WBE _____
Address _____
Contact Person _____

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

1. Name of MBE/WBE _____

Dollar Value of Participation \$ _____

Percentage of Participation % _____

Mentor Protégé Agreement (attach executed copy) () Yes () No Add'l Percentage Claimed ____%

Total Participation % _____

2. Name of MBE/WBE _____

Address _____

Contact Person _____

Phone Number _____

Dollar Value of Participation \$ _____

Percentage of Participation % _____

Mentor Protégé Agreement (attach executed copy) () Yes () No Add'l Percentage Claimed ____%

Total Participation % _____

3. Name of MBE/WBE _____

Address _____

Contact Person _____

Phone Number _____

Dollar Value of Participation \$ _____

Percentage of Participation % _____

Mentor Protégé Agreement (attach executed copy) () Yes () No Add'l Percentage Claimed ____%

Total Participation % _____

4. Name of MBE/WBE _____

Address _____

Contact Person _____

Phone Number _____

Dollar Value of Participation \$ _____

Percentage of Participation % _____

Mentor Protégé Agreement (attach executed copy) () Yes () No Add'l Percentage Claimed ____%

Total Participation % _____

5. Attach Additional Sheets as Needed

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

III. Summary of MBE/WBE Proposal

A. MBE Proposal (Direct & Indirect)

1. MBE Direct Participation

MBE Firm Name	Dollar Amount Participation (\$)	Percent Amount Participation (%)
Align Consulting LLC	20,000	0.5
Total Direct MBE Participation		

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-MBE/WBE Compliance Plan

The Prime Contractor designates the following person as its MBE/WBE Liaison Officer

AJ DeGeorge 224-342-3448
(Name - Please Print or Type) (Phone)

One or more owners or principals of the Prime Contractor () does / () does not have an ownership interest in any MBE or WBE listed in this Schedule D. Provide names of such individuals and their respective ownership percentages, and identify the MBE/WBE firms in which such ownership is held, or indicate "none". Add additional sheets if necessary.

I DO SOLEMNLY DECLARE AND AFFIRM UNDER PENALTIES OF PERJURY THAT THE CONTENTS OF THE FOREGOING DOCUMENT ARE TRUE AND CORRECT, THAT NO MATERIAL FACTS HAVE BEEN OMITTED, AND THAT I AM AUTHORIZED ON BEHALF OF THE PRIME CONTRACTOR TO MAKE THIS AFFIDAVIT.

Siemens Industry, Inc. State of Illinois
(Name of Prime Contractor - Print or Type)

[Signature] County of Cook
(Signature)

AJ DeGeorge - Account Executive
(Print or Type of Affiant)

9/13/2023
(Date)

On this 13 day of 09, 2023, the above signed officer AJ DeGeorge
(Name of Affiant)

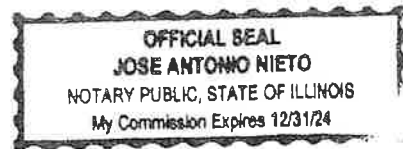
personally appeared and, known by me to be the person described in the foregoing Affidavit, acknowledged that (s)he executed the same in the capacity stated therein and for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and seal

[Signature]
(Notary Public Signature)

Commission Expires December 31, 2024

SEAL





CITY OF CHICAGO

DEPARTMENT OF PROCUREMENT SERVICES

FEB 19 2025

Tamie Perea
Align Consulting and Management, LLC
7521 N. Milwaukee Ave.
Niles, IL 60714

Dear Ms. Perea:

We are pleased to inform you that **Align Consulting and Management, LLC** is certified as a **Minority-Owned Business Enterprise ("MBE") and Women-Owned Business Enterprise ("WBE")** by the City of Chicago ("City"). This certification will remain effective for as long as your firm continues to meet all certification eligibility requirements and is contingent upon the firm affirming its eligibility by filing an annual No-Change Affidavit each year. In the past, the City has provided you with an annual letter confirming your certification; such letters will no longer be issued. Therefore, we require you to be even more diligent in filing your annual No-Change Affidavit 60 days before your annual anniversary date of February 1st.

It is now your responsibility to check the City's certification directory and verify your certification status. As a condition of continued certification, you must file an annual No-Change Affidavit by your anniversary date of February 1st. Please remember, you have an affirmative duty to file your No-Change Affidavit 60 days prior to the anniversary date for timely processing. Failure to file your annual No-Change Affidavit may result in the suspension or rescission of your certification.

It is important to note that you also have an ongoing affirmative duty to notify the City 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, gross receipts and or personal net worth that exceed the program threshold. Failure to provide the City with timely notice of such changes may result in the suspension or rescission of your certification. In addition, you may be liable for civil penalties under Chapter 1-22, "False Claims", of the Municipal Code of Chicago.

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

- File your annual No-Change Affidavit within the required time period;
- Provide financial or other records requested pursuant to an audit within the required time period;
- Notify the City of any changes affecting your firm's certification within 10 days of such change; or

- File your recertification within the required time period.

Please be reminded of your contractual obligation to cooperate with the City with respect to any reviews, audits or investigation of its contracts and affirmative action programs. We strongly encourage you to assist us in maintaining the integrity of our programs by reporting instances or suspicions of fraud or abuse to the City's Inspector General at chicagoinspectorgeneral.org, or 866-IG-TIPLINE (866-448-4754).

Be advised that 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. 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 the individual or entity, or the individual or entity assisted 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 and not more than \$10,000 or both.

Your firm's name will be listed in the City's Directory of Minority and Women-Owned Business Enterprises in the specialty area(s) of:

NAICS Code(s):

541513 – Computer Facilities Management Services

541519 – Computer Disaster Recovery Services; Software Installation Services,
Computer


541618 – Telecommunications and Utilities Management Consulting Services


561110 – Office Administrative Services

Your firm's participation on City contracts will be credited only toward MBE/WBE goals in your area(s) specialty. While your participation on City contracts is not limited to your area of specialty, credit toward goals will be given only for work that is self-performed and providing a commercially useful function that is done in the approved specialty category.

Thank you for your interest in the City's Minority, Women-Owned Business Enterprise, Veteran-Owned Business Enterprise and Business Enterprise Owned or Operated by People with Disabilities (MBE/WBE/VBE/BE PD) Program.

Sincerely,


Tammi Morgan
Contracting Equity Officer

TM/fn 



CERTIFICATE OF FILING FOR
CITY OF CHICAGO ECONOMIC DISCLOSURE STATEMENT

EDS Number: 189221

Date of This Filing:10/11/2023 10:06 AM

Certificate Printed on: 10/11/2023

Original Filing Date:10/11/2023 10:06 AM

Disclosing Party: SIEMENS INDUSTRY INC Title:Licensing Manager

Filed by: Mrs. Pauline Ciotola

Matter: SUPPORT & MAINTENANCE
OF THE SUPERVISORY MONITORING
SYSTEM AND THE FIRE ALARM SYSTEM
2 YEAR EXTENSION

Applicant: SIEMENS INDUSTRY INC

Specification #: 784155

Contract #: 84871

The Economic Disclosure Statement referenced above has been electronically filed with the City. Please provide a copy of this Certificate of Filing to your city contact with other required documents pertaining to the Matter. For additional guidance as to when to provide this Certificate and other required documents, please follow instructions provided to you about the Matter or consult with your City contact.

A copy of the EDS may be viewed and printed by visiting <https://webapps1.chicago.gov/eds> and entering the EDS number into the EDS Search. Prior to contract award, the filing is accessible online only to the disclosing party and the City, but is still subject to the Illinois Freedom of Information Act. The filing is visible online to the public after contract award.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
10/04/2023

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(ies) must have ADDITIONAL INSURED provisions or 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, LLC
445 SOUTH STREET
MORRISTOWN, NJ 07960-6454

CONTACT NAME:
PHONE (A/C, No, Ext): **FAX (A/C, No):**
E-MAIL ADDRESS:

CN102147003-RAM-23/24 4433 JOHNS NOC60

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: HDI Global Insurance Company	41343
INSURER B: Travelers Property Casualty Co. of America	25674
INSURER C: Travelers Casualty & Surety Company	19038
INSURER D:	
INSURER E:	
INSURER F:	

INSURED
SIEMENS INDUSTRY, INC.
1000 DEERFIELD PARKWAY
BUFFALO GROVE, IL 60089-4513

COVERAGES **CERTIFICATE NUMBER:** NYC-011671787-06 **REVISION NUMBER:**

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 SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER		GLD1110115	10/01/2023	10/01/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 100,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 10,000,000 PRODUCTS - COMP/OP AGG \$ INCL
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY		TC2J-CAP-7440L34A-TIL-23	10/01/2023	10/01/2024	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ N/A BODILY INJURY (Per accident) \$ N/A PROPERTY DAMAGE (Per accident) \$ N/A
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION \$		CUD11102-15	10/01/2023	10/01/2024	EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ 4,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		UB-8P83929A-23-51-K (AOS)	10/01/2023	10/01/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER
C	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	UB-8P79233A-23-51-R (AZ,MA,WI)	10/01/2023	10/01/2024	E.L. EACH ACCIDENT \$ 1,000,000
B	if yes, describe under DESCRIPTION OF OPERATIONS below	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N / A	TWXJ-UB-7440L338-23 (OH) *****\$500K LIMIT / \$500K SIR*****	10/01/2023	10/01/2024	E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE 440P-360164 - ORD TWY KL PUMP STATION

SEE ATTACHED

CERTIFICATE HOLDER	CANCELLATION
CITY OF CHICAGO CHICAGO DEPT OF AVIATION 10510 WEST ZEMKE RD CHICAGO, IL 60606	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE of Marsh USA LLC

AGENCY CUSTOMER ID: CN102147003

LOC #: Morristown



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY MARSH USA, LLC.		NAMED INSURED SIEMENS INDUSTRY, INC. 1000 DEERFIELD PARKWAY BUFFALO GROVE, IL 60089-4513	
POLICY NUMBER			
CARRIER	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

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

RE: 44OP-360164 - ORD TWY KL PUMP STATION

REYES GROUP LTD., TURNER PASCHEN AVIATION PARTNERS, A JV, F. H. PASCHEN, S.N. NIELSEN & ASSOCIATES LLC; TURNER CONSTRUCTION COMPANY, CITY OF CHICAGO, CHICAGO DEPARTMENT OF AVIATION; CONNECT CHICAGO ALLIANCE; D'ESCOTO, INC.; SPAAN TECH, INC.; GMA CONSTRUCTION GROUP; BROWN & MOMEN INC.; EXP US SERVICES, INC.; HNTB; SKIDMORE, OWINGS & MERRILL ARE HEREBY ADDITIONAL INSURED AS OBLIGATED UNDER CONTRACT UNDER THE REFERENCED GENERAL LIABILITY AND AUTOMOBILE LIABILITY INSURANCE POLICIES.

SUCH INSURANCE AS IS AFFORDED BY THE ADDITIONAL INSURED ENDORSEMENT SHALL APPLY AS PRIMARY INSURANCE & OTHER INSURANCE MAINTAINED BY THE CERTIFICATE HOLDER SHALL BE EXCESS ONLY & NOT CONTRIBUTING WITH INSURANCE PROVIDED UNDER THIS POLICY

WAIVER OF SUBROGATION IS EFFECTUAL WHERE REQUIRED BY WRITTEN CONTRACT

COMPLETED OPERATIONS COVERAGE IS INCLUDED IN THE GENERAL LIABILITY POLICY

UMBRELLA IS FOLLOW FORM OF PRIMARY SUBJECT TO POLICY TERMS, CONDITIONS AND EXCLUSIONS.

IF THESE POLICIES ARE CANCELLED FOR ANY REASON OTHER THAN NON-PAYMENT OF PREMIUM, THE INSURER WILL DELIVER NOTICE OF CANCELLATION TO THE CERTIFICATE HOLDER UP TO 60 DAYS PRIOR TO THE CANCELLATION OR AS REQUIRED BY WRITTEN CONTRACT, WHICHEVER IS LESS.