

JUSTIFICATION FOR NON-COMPETITIVE PROCUREMENT

COMPLETE THIS SECTION IF NEW CONTRACT(S)

For contract(s) in this request, answer applicable questions in each of the 4 major subject areas below in accordance with the Instructions for Preparation of Non-Competitive Procurement Form on the reverse side.

Request that negotiations be conducted only with ADB Airfield Solutions (formerly Siemens Airfield Solutions) for the product and/or services described herein.
(Name of Person or Firm)

This is a request for: (One-Time Contract Per Requisition # _____, copy attached) or Term Agreement or Delegate Agency (Check one). If Delegate Agency, this request is for "blanket approval" of all contracts within the _____ (Attach List) Pre-Assigned Specification No. _____
(Program Name) Pre-Assigned Contract No. _____

S. S. R. B.
DATE 01/05/10
APPROVED 4-0
CONDITIONALLY
APPROVED _____
RETURN TO DEPT. _____
DISAPPROVED _____

COMPLETE THIS SECTION IF AMENDMENT OR MODIFICATION TO CONTRACT

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, as applicable. Attach copy of all supporting documents. Request approval for a contract amendment or modification to the following:

Contract #: _____ Company, or Agency Name: _____

Specification #: _____ Contract or Program Description: _____
Mod #: _____ (Attach List, if multiple)

AL Perez 773-894-1823 AL Perez Aviation 11/25/09
Originator Name Telephone Signature Department Date

John F. Sisco 773-686-4604 John F. Sisco Aviation 11/25/09
Originator Name Telephone Signature Department Date

Indicate SEE ATTACHED in each box below if additional space needed:

() PROCUREMENT HISTORY

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

This current system is required by the Federal Aviation Administration (FAA), A/C #150/5345-3, A/C #150/5345-10, A/C #150/5345-9 & A/C #150/5345-5 to ensure all airfield navigation lighting, including runways, taxiways, etc., and associated emergency back-up generators are controlled and monitored 24 hours per day. The current Siemens Airfield Lighting Control Monitoring System (ALCS) was installed under the O'Hare Modernization Program (OMP) Project #OH.6130.220.50.181-Airfield Vaults and Associated Duct banks. This system is an updated and expanded direct replacement of the previous sole source, Edwards & Kelcey (E&K) ALCS. The E&K system, installed in 1996 could not be updated/upgraded to support additional navigation related lighting added as a result of the OMP.

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 first time requirement due to the OMP and airfield expansion. The previous sole source contract became incapable of providing additional necessary control and management of the airfield lighting system.

3. Explain attempts made to competitively bid the requirement.

The initial system was competitively bid through the OMP Project #OH.6130.220.50.181-Airfield Vaults and Associated Duct banks, and the new Siemens ALCS was selected after several types of lighting control systems were presented to the CDA and OMP by Siemens, Liberty, and Crouse-Hinds. Based on the evaluation of pros and cons of different types of ALCS, a recommendation was made to the City for a new airport-wide PC based system. The OMP with the concurrence from the CDA accepted the recommendation for the PC-based airport wide ALCS and the design was authorized.

4. Describe any research done to find other sources.

The system is proprietary and currently in use. There are no other sources available.

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

Dependent upon future needs, the five (5) year contract with an option to extend for up to two (2) additional years would be utilized for future software, graphic upgrades, new installations and additions to existing components necessary throughout the airport expansion.

6. Explain whether or not future competitive bidding is possible. If not, why not?

Since the current Siemens system is a proprietary system, upgrades or expansion would not be available. Also, all software associated with this system is held in an escrow account.

() ESTIMATED COST

1. What is the estimated cost for this requirement? What is the funding source?

The estimated cost for this requirement is for replacement parts, upgrades to graphics and software, travel expenses, and hourly rates per project/projects. Cost proposal must be submitted for review and approval by the Commissioner of Aviation prior to the commencement of any work. The funding source is Department of Aviation.

2. What is the estimated cost by fiscal year, if the job, project or program covers multiple years?

The cost is not to exceed \$50,000.00 per year or \$250,000.00 for the five (5) year contract.

3. Explain the basis for estimating the cost and what assumptions were made and/or data used (ie. budgeted amount, previous contract price, current catalog or cost proposal from firms solicited, engineering or in-house estimate, etc.).

The cost is comparable to the preceding sole source contract and in many instances the prices are lower. (See attached parts pricing and hourly rates.)

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 measureable benefits to the City which may be achieved.

Both the Vendor and the City have substantial dollars invested in the design and installation of the system. The City is in ownership of specialized equipment for use as airport visual aid equipment, a computer network to monitor and control lighting with equipment located in both FAA Air Traffic Control Towers for use by Air Traffic Control. The vendor has designed a specialized graphic program for O'Hare, including maintenance, historical trending, as well as the software programming to control the

lighting for runways and taxiways.

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

The current Contractor's shop is closer to the airport than previous vendor, which reduces travel reimbursement costs. There is a greater pool of manpower available with the expertise and knowledge necessary to work in this specialized field. Labor and parts are significantly lower.

() SCHEDULE REQUIREMENTS

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

The vendor is responsible & must be available three-hundred and sixty-five (365) days a year - twenty-four (24) hours a day, and must be on site if needed the morning of next day.

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 the constraining factor to competitive bidding, explain why only one person or firm can meet the required schedule.

No. The system was designed and installed by the vendor with an escrow agreement with the City, reviewed and approved by the FAA

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

The schedule is critical to ensure that the system continues to function to meet critical airfield lighting requirement.

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

The system is proprietary and currently in use. There are no options for a competitive bid.

() 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 or other factors make this person or firm exclusively or uniquely qualified for the project. Attach copy of cost proposal and scope of services.

The OMP through the competitive bid process selected this vendor to design and install the ALCS. Siemens maintains records of all wiring, PLC Logic and is the manufacturer of the equipment it operates.

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

Yes. Siemens personnel are solely qualified to maintain their proprietary system.

3. What prior experience of a highly specialized nature does the person or firm exclusively possess

that is vital to the job, project or program?

Siemens developed, built, and installed the current ALCS.

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?

This is a proprietary system and could only be maintained, supported, and updated by Siemens personnel.

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?

Parts and technical information necessary to maintain, update, and repair the ALCS installed under the current warranty and the ability to update the system as OMP projects are delivered.

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, etc. possess. Is compatibility with existing equipment critical from an operational standpoint? Explain why.

This is a proprietary system and could only be maintained, supported, and updated by Siemens personnel.

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

Yes. This is a proprietary system and could only be maintained, supported, and updated by Siemens personnel.

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.

Procuring and using replacement parts or service from another source would void any warranties currently in place. (See attached letter from manufacturer.)

() OTHER

1. Explain other related considerations and attach all applicable supporting documents (Information Technology Strategy Committee (ITSC) Approval Form. etc.)

Not Applicable for this system

2. Explain what opportunities of direct/indirect involvement of Minority or Women.

Business Enterprises (MBE) and Women Business Enterprises (WBE) have been discussed and/or are available with this contract. The Chief Procurement Officer had with the previous vendor determined that the nature of services to be provided under the contract is such that neither direct nor indirect subcontracting opportunities will be practicable or cost effective. Therefore, there will be no stated goals for MBE/WBE participation resulting from prior contract:

(Contract #11793)

(Vendor Code #104164)

(Specification #16873)

APPROVED BY: Joseph S. Andino 11/25/09 [Signature] 01/13/10
DEPARTMENT HEAD OR DESIGNNEE DATE BOARD CHAIRPERSON DATE

Jessie M. [Signature] 1/13/10
Chief Procurement Officer Date



MEMORANDUM

City of Chicago
Richard M. Daley, Mayor

Department of Aviation
Rosemarie S. Andolino
Commissioner

Chicago O'Hare International Airport
P.O. Box 66142
Chicago, Illinois 60666
(773) 686-2200
(773) 686-8333 (TTY)

O'Hare Modernization Program
P.O. Box 66848
10510 W. Zemke Road
Chicago, IL 60666
(773) 462-7300
(773) 462-8552 (Fax)

Chicago Midway International Airport
5700 South Cicero Avenue
Chicago, Illinois 60638
(773) 838-0600
(773) 838-0795 (TTY)

www.flychicago.com
www.OhareModernization.org

TO: Jamie L. Rhee
Chief Procurement Officer

ATTN: Terrence Glavin
General Counsel Procurement

James McIsaac
Chief Procurement Officer

FROM: Rosemarie S. Andolino
Commissioner

SUBJECT: Request for Non Competitive Bid Contract
Airfield Lighting Control and Monitoring
System (ALCMS)
Vendor: ADB Airfield Solutions (formerly
Siemens Airfield Solutions)
Estimated Cost: \$400,000.00

ZSA *NR* *2/11/09*

The Department of Aviation is requesting approval for a sole source contract with ADB Airfield Solutions (ADB) to provide future requests of software, graphics updates, new functionality and additions to the existing components of the Chicago O'Hare Airfield Lighting Control and Monitoring System (ALCMS).

The components of the system, including software, are proprietary to ADB Airfield Solutions and only ADB personnel can add new functionality to the system. The Primary purpose of the system is to control and monitor the airfield lighting. It is used by the Department of Aviation and FAA ATC personnel.

The system is currently under the construction warranty and an existing Preventive Maintenance Agreement is in place as per the requirements of the construction contract. The primary difference between the existing Warranty and Preventive Maintenance versus the proposed Sole Source Agreement is to allow for functionality upgrades that can only be performed by ADB personnel. Changes to the system's existing control methodology and monitoring abilities will be at the request of either the Department of Aviation or FAA personnel. Any failed components will be covered under the existing warranty as long as the failure is warranty related.



ADB Airfield Solutions has provided a letter noting their inability to provide MBE/WBE participation on this contract. DOA has reviewed same and given the scope of the work, requests the contract include "No Stated Goals" language as the work does not have practical means by which compliance can be achieved.

Thank you for your cooperation.

Procurement Type: Non Competitive

Duration: 8 years

Estimated Cost: \$400, 000.00
\$50, 000.00 per year

Funding: 740 85 4005 0161 0161

User Contact: John Antonacci Phone: 894-1867

User Deputy: John F. Sisco Phone: 686-4604

User Managing Deputy: Al Perez *ap* Phone: 894-1823

AM
12/31/09

Reviewed by Angela Manning, Managing Deputy Commissioner

Christopher J. Sullivan 12/2/09



DEPARTMENT OF AVIATION

MEMORANDUM

DATE: July 1, 2009

TO: Montel M. Gayles
Chief Procurement Officer

ATTN: James Bracewell
Head Purchase Contract Administration

FROM: Rosemarie S. Andolino *RS*
Commissioner

SUBJECT: Request for Non Competitive Bid Contract
Airfield Lighting Control and Monitoring System (ALCMS)
Vendor: ADB Airfield Solutions
(formerly Siemens Airfield Solutions)
Estimated Cost: \$400,000.00

The Department of Aviation is requesting approval for a sole source contract with ADB Airfield Solutions (ADB) to provide future requests of software, graphics updates, new functionality and additions to the existing components of the Chicago O'Hare Airfield Lighting Control and Monitoring System (ALCMS).

The components of the system, including software, are proprietary to ADB Airfield Solutions and only ADB personnel can add new functionality to the system. The Primary purpose of the system is to control and monitor the airfield lighting and is used by the Department of Aviation and FAA ATC personnel.

The system is currently under the construction warranty and an existing Preventive Maintenance Agreement is in place as per the requirements of the construction contract. The primary difference between the existing Warranty and Preventive Maintenance versus the proposed Sole Source Agreement is to allow for functionality upgrades that can only be performed by ADB personnel. Changes to the system's existing control methodology and monitoring abilities will be at the request of either the Department of Aviation or FAA personnel. Any failed components will be covered under the existing warranty as long as the failure is warranty related.




ADB Airfield Solutions has provided a letter noting their inability to provide MBE/WBE participation on this contract. DOA has reviewed same and given the scope of the work, requests the contract include "No Stated Goals" language as the work does not have practical means by which compliance can be achieved.



req 44011 spec 75588

If you require additional information regarding this request please contact Dave Bowman at 686-7089.

Thank you for your cooperation.

Procurement Type:	Non Competitive	
Duration:	8 years	
Estimated Cost:	\$400, 000.00 \$50, 000.00 per year	
Funding:	740 85 4005 0161 0161	
User Contact 	John Antonacci	Phone: 894-1867
User Deputy 	John F. Sisco	Phone: 686-4604
User Managing Deputy 	Al Perez	Phone: 894-1823

 Reviewed by Angela Manning, Managing Deputy Commissioner

 7/1/09

INSTRUCTIONS FOR PREPARATION OF NON-COMPETITIVE PROCUREMENT FORM (Rev 9/97)

If a City Department has determined that the purchase of supplies, equipment, work and/or services can not be done on a competitive basis, a sole source justification must be prepared on this Justification for Non-Competitive Procurement Form in which procurement is requested on a non-bid or non-competitive basis in accordance with 65 ILCS 5/8-10-4 of the Illinois Compiled Statutes. All applicable questions in each Subject Area below must be answered. 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. The Board will not consider justifications with incomplete information or documentation. Also, attach Form F-7 (if One Time Contract); F-8 (if Delegate Agency Contract) or F-26 (if Term Agreement) to obtain a pre-assigned Specification and Contract Number for each contract in this request.

PROCUREMENT HISTORY (INCLUDING FUTURE PROCUREMENT OBJECTIVES)

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 notices and list of sources contacted).
4. Describe any research done to find other sources (List other cities contacted, companies in the industry contacted, professional organizations, periodicals and other publications used).
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, why not?

ESTIMATED COST

1. What is the estimated cost for this requirement (or for each contract, if multiple awards contemplated)? What is the funding source?
2. What is the estimated cost by fiscal year, if the job, project or program covers multiple years?
3. Explain the basis for estimating the cost and what assumptions were made and/or data used (ie. 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 or other factors make this person or firm exclusively or uniquely qualified for the project. Attach copy of cost proposal and scope of services.
2. Does the proposed firm have personnel considered unquestionably predominant in the particular field?
3. What prior experience 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, etc possess. Is compatibility with existing equipment critical from an operational standpoint? Explain why.
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.

OTHER

1. Explain other related considerations and attach all applicable supporting documents (Information Technology Strategy Committee (ITSC) Approval form, etc.)
2. Explain what opportunities of direct/indirect involvement of Minority or Women Business Enterprises have been discussed and/or are available this contract.

REVIEW AND APPROVAL

This form must be signed by both the Originator of the request and approved by the Department Head or, authorized designee.

DPS PROJECT CHECKLIST

PRE BID/SUBMITTAL REQUIREMENTS:

Requesting Pre Bid/Submittal Conference? Yes No Requesting Site Visit? Yes No

ARCHITECTURAL/ENGINEERING SUPPLEMENTAL CHECKLIST

Required Attachments: Scope of Services, including location, description of project, services required, deliverables, and other information as required

Risk Management

Will services be performed within 50 feet of CTA train or other railroad property? Yes No
Will services be performed on or near a waterway? Yes No

If applicable, Pre-Qualification Category No. Category Description:

For Pre-Qualification Program, attach list of suggested firms to be solicited

Other Agency Concurrence Required: None State Federal Other (fill in)

AVIATION CONSTRUCTION SUPPLEMENTAL CHECKLIST

DOA sign-off for final design documents: Yes No

Required Attachments:

Copy of Draft Contract Documents and Detailed Specifications.

Risk Management:

Current Insurance Requirements prepared/approved by Risk Management: Yes No

Will work be performed within 50 feet of CTA or ATS structure or property? Yes No

Will work be performed airside? Yes No

*NOTE: Any non-construction Aviation request, complete the applicable section.

COMMODITIES SUPPLEMENTAL CHECKLIST

Required Attachments: Detailed Specifications (Scope of Services) including detailed description of the product, delivery location, user department contact, price escalation considerations, Bidder's qualification, contract term and extension options, Contractor's qualifications, citation of any applicable City/State/Federal statutes or regulations, citation of any applicable technical standards and Price Lists/Catalogs, technical drawings and other exhibits and attachments as appropriate.

If Modification request, please verify and provide the following:

Contractor's Name:

Contractor's Address:

Contractor's e-mail Address:

Contractor's Phone Number:

Contractor's Contact Person:

CONSTRUCTION SUPPLEMENTAL CHECKLIST

Required attachments:

Copy of Draft (80% Completion), Contract Documents and Detailed Specifications

Risk Management

Will services be performed within 50 feet of CTA train or other railroad property? Yes No

Will services be performed on or near a waterway? Yes No

DPS PROJECT CHECKLIST

VEHICLES/HEAVY EQUIPMENT SUPPLEMENTAL CHECKLIST

Required Attachments:

- Detailed Specifications including detailed description of the vehicle(s) or equipment, mounted equipment, if any, and options/accessories.
- Special Provisions (Delivery, Warranty, Manuals, Training, Additional Unit Purchase Options, Bid Submittal Information, etc.)
- Delivery Location(s)
- Technical Literature
- Drawings, if any
- Part Number List (Manufacturer; or Dealer; or Other Source:)
- Current Price List(s)/Catalog(s)
- Special Approval Form
- Exhibits and Attachments

If **Modification request**, please verify and provide the following:

Contractor's Name:

Contractor's Address:

Contractor's e-mail Address:

Contractor's Phone Number:

Contractor's Contact Person:

PROFESSIONAL SERVICES SUPPLEMENTAL CHECKLIST

- Detailed description of project listing obligations of each party.
 - The Schedule of Compensation
 - Deliverables
 - Request for individual contract services (if applicable)
 - The appropriate EPS form
 - ITSC (approved by BIS)
 - QBM (approved by Budget form/memo)
 - Grant document attached
- Attach any documentation indicating any previous purchase activity to assist in the procurement process

TELECOMMUNICATIONS AND UTILITIES SUPPLEMENTAL CHECKLIST

Required Attachments: Detailed Scope of Services/Specification which sets forth all of the anticipated services and products the user department wants provided, including time frame for completion, special qualifications of prospective vendors, special requirements or needs of the project, locations, anticipated participating user departments, citation of any applicable City ordinance or state/federal regulation or statute.

Has the project been reviewed by BIS? Yes No

Attach copy of BIS Recommendation; Reservation(s); or participate under current contract.

Does the project include software? Yes No

If yes, is signed ITSC form attached? Yes No

Does the location involve:
A public way? Yes No

Any concession in the City's facilities? Yes No

Is it anticipated City Council approval of the project or contract will be required? Yes No

DPS PROJECT CHECKLIST

WORK SERVICES/FACILITY MAINTENANCE SUPPLEMENTAL CHECKLIST

Required Attachments: Detailed Specifications (Scope of Services) including detailed description of the work, locations (with supporting detail), user department contacts, work hours/days, laborer/supervisor mix, compensation and price escalation considerations, Bidder's qualification, contract term and extension options, Contractor's qualifications, citation of any applicable City/State/Federal statutes or regulations, citation of any applicable technical standards and Price Lists/Catalogs, technical drawings and other exhibits and attachments as appropriate.

Risk Management:

Will services be performed within 50 feet (50') of CTA train or other railroad property? Yes No

Will services be performed on or near a waterway? Yes No

Will services require the handling of hazardous/bio-waste material? Yes No

Will services require the blocking of streets or sidewalks which may affect public safety? Yes No

If Modification or Amendment request, please verify and provide the following:

Contractor's Name: ADB Airfield Solutions

Contractor's Address: P.O. Box 30829 977 Gahanna Parkway
Columbus, Ohio 43230

Contractor's e-mail Address:

Contractor's Phone Number: (614) 573-8285

Contractor's Contact Person: William D. Weigel

*DOA obtaining vendor code
for ADB. 1/2/09*

**CITY OF CHICAGO
 PURCHASE REQUISITION**

Copy (Department)

DELIVER TO: 221 FACILITIES DIVISION P.O. BOX 66142 CHICAGO, IL 60666	REQUISITION: 44011 PAGE: 1 DEPARTMENT: 85 - DEPT OF AVIATION PREPARER: David A Bowman NEEDED: APPROVED: 7/1/2009
---	---

REQUISITION DESCRIPTION

REQUEST FOR NEW SOLE SOURCE CONTRACT FOR MAINTENANCE AND FUNCTIONALITY UPGRADES OF O'HARE AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM WITH ADB AIRFIELD SOLUTIONS. 8 YEAR CONTRACT NOT TO EXCEED \$400,000
 SPECIFICATION NUMBER: 75588

COMMODITY INFORMATION

LINE	ITEM	QUANTITY	UOM	UNIT COST	TOTAL COST							
1	93625	400,000.00	USD	0.00	0.00							
MAINTENANCE AND FUNCTIONALITY UPGRADES FOR O'HARE INTL AIRPORT AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM												
SUGGESTED VENDOR: ADB AIRFIELD SOLUTIONS						REQUESTED BY: David A Bowman						
DIST	BFY	FUND	COST CTR	APPR	ACCNT	ACTV	PROJECT	RPT CAT	GENRL	FUTR	Dist. Amt.	
1	009	0740	0854005	0161	220161	0000	00000000	000000	00000	0000	0.00	
LINE TOTAL:											0.00	
REQUISITION TOTAL:											0.00	

Where a commodity is for a particular or unique use other than standard quality, grades, color, size or other characteristics, give details of how it will be and for what purpose.
 Requisitions prepared incorrectly will be returned to the using department.

ADB

July 1, 2009

John Antonacci
General Superintendent Facilities
Aviation Maintenance Building
Chicago O'Hare International Airport
Chicago, Illinois 60666
773/ 686-2320

Mr. Antonacci:

At the request of the Department of Aviation (DOA), ADB Airfield Solutions, Inc. (ADB) formerly know as Siemens Airfield Solutions, would like to offer the following Sole Source proposal for future requests of software, graphics updates, new functionality and additions to the existing components of the Chicago O'Hare Airfield Lighting Control and Monitoring System (ALCMS).

History

The ADB ALCMS was competitively bid and installed under O'Hare Modernization Project (OMP) project number OH6130.220.50.181 "Airfield Vaults and Associated Duct Banks". ADB was the responsive low bidder to the successful low bid general contractor, Divane Brothers Electric, Inc.

Proprietary System

The primary purpose of the system is to control and monitor the airfield lighting and is used by DOA and FAA ATC personnel. The components of the system, including software, are proprietary to ADB and only ADB personnel can add new functionality to the system. Because of the proprietary nature of the system, ADB cannot find a means to meet the City of Chicago MBE/WBE goals.

Existing Contractual Requirement

The system is currently under warranty and an existing Preventative Maintenance Agreement (PMA) is in place as per the requirements of OMP #OH.6130.220.50.181. We have included the Warranty and Preventative Maintenance requirements as Exhibit B. The primary difference between the existing Warranty and PMA and the proposed sole source agreement is to allow for functionality upgrades that can only be performed by ADB personnel. Changes to the systems existing control methodology and monitoring abilities will be at the request of the City of Chicago personnel. Any failed components will be covered under the existing warranty as long as the failure is warranty related. ADB will be traveling to ORD twice a year to perform preventative maintenance tasks and these will not be impacted by a sole source agreement.

ADB Airfield Solutions

P.O. Box 30829
977 Gahanna Parkway
Columbus, OH 43230

Tel: (614) 861-1304
Fax: (614) 864-2069



Scope of Services

ADB Airfield Solutions, Inc (Contractor) will advise, assist and complement the appropriate City personnel in their efforts to ensure the integrity of the Airfield Lighting Control and Monitoring System (ALCMS).

A. New Functionality

When requested by the airport, the Contractor will provide services for upgrades to the system programming (software), and provide any necessary components (to be installed by others) required by the upgrade. Prior to beginning of these services the Contractor will provide a written Statement of Work (SOW) document detailing the work to be performed. The SOW and any other associated submittal documentation will need to be reviewed and approved by the City before the Contractor will schedule any work. New functionality is defined as any change to the existing system that is at the direct request of the City, and is not incorporated in any other project related work such as provided under FAA Airport Improvement Program (AIP) or O'Hare Modernization Program (OMP) type projects.

B. Maintenance and Repairs of ALCMS

When directed by the City, the Contractor will provide system maintenance and/or repair and replacement of failed portions of the ALCMS. Maintenance tasks, repairs and replacement parts will be billed per the hourly rates and associated job descriptions, and component pricing provided with this proposal (Exhibit A).

C. Training

1. The City will determine the topics and negotiate the schedule with the Contractor.
2. The Contractor will perform the training sessions in the time frame agreed to between the City and the Contractor. Training sessions will be conducted on site and to personnel involved in the maintenance and operation of the system.
3. Does not include training required under FAA Airport Improvement Program (AIP) or O'Hare Modernization Program (OMP) type projects.

ADB Airfield Solutions

P.O. Box 30829
977 Gahanna Parkway
Columbus, OH 43230

Tel: (614) 861-1304
Fax: (614) 864-2069



Following are ADB hourly rates, job descriptions and travel rates. Component prices are included in Exhibit A.

1. Hourly rates (Minimum 8 hour billing per job)

SAS Rates								
Current SAS Labor Category	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
Project Engineering Manager	\$149.29	\$153.77	\$158.39	\$163.14	\$168.03	\$173.07	\$178.27	\$183.61
Time and a Half	\$223.94	\$230.66	\$237.58	\$244.71	\$252.05	\$259.61	\$267.40	\$275.42
Double Time	\$298.59	\$307.55	\$316.77	\$326.28	\$336.06	\$346.15	\$356.53	\$367.23
Sr. Software Developer	\$121.29	\$124.92	\$128.67	\$132.53	\$136.51	\$140.60	\$144.82	\$149.17
Time and a Half	\$181.93	\$187.39	\$193.01	\$198.80	\$204.76	\$210.91	\$217.23	\$223.75
Double Time	\$242.57	\$249.85	\$257.34	\$265.06	\$273.02	\$281.21	\$289.64	\$298.33
Software Developer	\$111.72	\$115.07	\$118.52	\$122.08	\$125.74	\$129.51	\$133.40	\$137.40
Time and a Half	\$167.58	\$172.60	\$177.78	\$183.12	\$188.61	\$194.27	\$200.10	\$206.10
Double Time	\$223.44	\$230.14	\$237.04	\$244.16	\$251.48	\$259.02	\$266.79	\$274.80
Applications Engineer	\$111.18	\$114.51	\$117.95	\$121.49	\$125.13	\$128.89	\$132.75	\$136.74
Time and a Half	\$166.77	\$171.77	\$176.92	\$182.23	\$187.70	\$193.33	\$199.13	\$205.10
Double Time	\$222.36	\$229.03	\$235.90	\$242.98	\$250.26	\$257.77	\$265.51	\$273.47
Project Designer	\$91.88	\$94.64	\$97.48	\$100.40	\$103.41	\$106.52	\$109.71	\$113.00
Time and a Half	\$137.82	\$141.96	\$146.22	\$150.60	\$155.12	\$159.77	\$164.57	\$169.50
Double Time	\$183.76	\$189.28	\$194.95	\$200.80	\$206.83	\$213.03	\$219.42	\$226.01
Project Manager	\$121.29	\$124.92	\$128.67	\$132.53	\$136.51	\$140.60	\$144.82	\$149.17
Time and a Half	\$181.93	\$187.39	\$193.01	\$198.80	\$204.76	\$210.91	\$217.23	\$223.75
Double Time	\$242.57	\$249.85	\$257.34	\$265.06	\$273.02	\$281.21	\$289.64	\$298.33
Commissioning Engineer	\$101.07	\$104.10	\$107.23	\$110.44	\$113.76	\$117.17	\$120.68	\$124.31
Time and a Half	\$151.61	\$156.16	\$160.84	\$165.67	\$170.64	\$175.75	\$181.03	\$186.46
Double Time	\$202.14	\$208.21	\$214.45	\$220.89	\$227.51	\$234.34	\$241.37	\$248.61
Sr. Applications Engineer	\$111.18	\$114.51	\$117.95	\$121.49	\$125.13	\$128.89	\$132.75	\$136.74
Time and a Half	\$166.77	\$171.77	\$176.92	\$182.23	\$187.70	\$193.33	\$199.13	\$205.10
Double Time	\$222.36	\$229.03	\$235.90	\$242.98	\$250.26	\$257.77	\$265.51	\$273.47
Sr. Field Service Engineer	\$111.18	\$114.51	\$117.95	\$121.48	\$125.13	\$128.88	\$132.75	\$136.73
Time and a Half	\$166.76	\$171.77	\$176.92	\$182.23	\$187.69	\$193.32	\$199.12	\$205.10
Double Time	\$222.35	\$229.02	\$235.89	\$242.97	\$250.26	\$257.76	\$265.50	\$273.46
Sr. Field Service Technician	\$101.07	\$104.10	\$107.23	\$110.44	\$113.76	\$117.17	\$120.68	\$124.31
Time and a Half	\$151.61	\$156.16	\$160.84	\$165.67	\$170.64	\$175.75	\$181.03	\$186.46
Double Time	\$202.14	\$208.21	\$214.45	\$220.89	\$227.51	\$234.34	\$241.37	\$248.61

ADB Airfield Solutions

P.O. Box 30829
 977 Gahanna Parkway
 Columbus, OH 43230

Tel: (614) 861-1304
 Fax: (614) 864-2069



Work Hour Classifications:

- a. Regular Time: Monday through Friday, 8:00 a.m. through 5:00 p.m., for the first eight (8) hours on site, per hour per man. Travel time counts towards the first 8 hours.
- b. Time and a Half: (i) Monday through Friday for over eight (8) hours to twelve (12) hours, per hour per man on site; (ii) Saturdays and Sundays for the first eight (8) hours, per hour per man on site; and (iii) Holidays all hours, per man on site.
- c. Double Time: (i) Monday through Friday for over twelve (12) hours, per hour per man on site; (ii) Saturdays and Sundays per hour for over eight (8) hours, per hour per man on site; and (iii) Holidays all hours, per man on site.

NOTE: Holidays are defined as New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

The hourly rates set forth above include complete compensation for all labor, equipment, employee benefits, payroll taxes, overhead, general administrative costs, and profit.

2. Job Descriptions

Applications Engineer / Sr. Applications Engineer

Area of Responsibilities

- Generates and supports all software code, configurations, support documentation associated with airport custom projects
- Generates and supports all testing, debugging and version control of software configuration versions
- Supports general project activities as required including production, testing and installation when needed
- Performs field start-ups, testing and troubleshooting of advanced products as required by project manager
- Responsible for configuring, testing, and debugging advanced product and related airfield lighting control systems
- Responsible for setting up computer hardware and communication equipment as required for testing and debugging software

ADB Airfield Solutions

P.O. Box 30829
977 Gahanna Parkway
Columbus, OH 43230

Tel: (614) 861-1304
Fax: (614) 864-2069

ADB

- Responsible for becoming familiar with Federal Aviation Administration (FAA) airport policies, procedures and products.
- Responsible for becoming familiar with FAA Advisory Circulars and understand the airfield lighting industry and product lines.
- Responsible for generating quality software documentation, technical documentation for computer system specifications and operator manuals.
- Responsible for generating software training classes for customers or internal employees.

Software Developer / Sr. Software Developer

Area of Responsibilities

- Responsible for entire life cycle development of new software source code to support new software functions and requirements of custom projects. This includes flowcharting, coding, remarks/documentation, testing and debugging.
- Generates and supports all software code, configurations, support documentation associated with airport custom projects
- Generates and supports all testing, debugging and version control of software versions
- Responsible for configuring, testing, and debugging advanced product and related products.
- Responsible for generating quality software code documentation, technical documentation for computer system specifications and operator manuals.

Commissioning Engineer

Area of Responsibilities

- Field start-up and commissioning support for advanced products
- Supports Project Manager during factory acceptance and system acceptance testing with customer as required
- Supports Project Manager in testing, troubleshooting, installing advanced product
- Generates and supports all technical documentation including manuals, training handbooks, training certification programs and sales/marketing literature
- Performs technical training classes for advanced product to internal and external customers
- Responsible for becoming familiar with Federal Aviation Administration (FAA) airport policies, procedures and products.
- Responsible for becoming familiar with FAA Advisory Circulars and understand the airfield lighting industry and product lines.

ADB Airfield Solutions

P.O. Box 30829
977 Gahanna Parkway
Columbus, OH 43230

Tel: (614) 861-1304
Fax: (614) 864-2069



Project Designer

Area of Responsibilities

- Generates and supports all mechanical assembly and electrical wiring drawings associated with advanced products
- Generates and supports all bill of material entry and new parts generation
- Runs / supports Production Releases and release follow-up for advanced products
- Supports Project Manager activities including site visits and production support as required
- Familiar with Federal Aviation Administration (FAA) airport policies, procedures and products
- Familiar with FAA Advisory Circulars and understand the airfield lighting industry and product lines

Project Manager / Project Engineering Manager

Area of Responsibilities

- Accurately prepare and organize quote reviews with management
- Complete technical written Submittal packages for custom projects
- Manage design team to produce custom drawing packages for each project
- Utilize drawings standards and processes to design electrical and mechanical drawings
- Utilize electrical experience to review and approve ladder diagrams and wiring diagrams
- Manage software team to produce custom software configurations for each project
- Utilize software standards and processes to produce software configurations and test plans
- Generates and supports all factory acceptance and system acceptance testing with customer
- Prepares and performs technical presentations and training on advanced product
- Utilize commissioning team for complete on-site field installation and start-ups
- Complete on-site system readiness checks and troubleshooting of advanced products
- Complete on-site system acceptance tests with owner and receive owner acceptance of project
- Utilize commissioning team to complete onsite training on product
- Familiar with Federal Aviation Administration (FAA) airport policies, procedures and products.
- Familiar with FAA Advisory Circulars and understand the airfield lighting industry and product lines.
- Familiar with ICAO Advisory Circulars as required for international projects.

ADB Airfield Solutions

P.O. Box 30829
977 Gahanna Parkway
Columbus, OH 43230

Tel: (614) 861-1304
Fax: (614) 864-2069



Sr. Field Service Engineer

Area of Responsibilities

- Assists customers, both internal and external, in isolating defects in the field or in-house at ADB by troubleshooting over the phone or dispatching to the airport
- Repairs, overhauls & calibrates ADB airfield lighting equipment
- Assists ADB Service Techs in electrical/electronic troubleshooting on difficult or repeat problems
- Trains ADB Service Techs in the areas of the engineer's expertise
- Performs product presentations in ADB airfield lighting maintenance seminars
- Represents Technical Service department in product design processes
- Assists Project Engineering Group in modification of custom product line
- Evaluates ADB products and initiates Engineering Change Orders (ECO) and/or Corrective Action Reports to correct deficiencies
- Performs Preventative Maintenance Contracts at airports requesting them
- Reviews Tech Service schedule daily and assigns work tasks to Service Techs
- Monitors Test Equipment, Loaner Equipment and reports status to management
- Tasked to meet or exceed annual departmental and personal goals
- Temporarily assumes the duties of the Product Support Manager in his absence

Sr. Field Service Technician

Area of Responsibilities

- Assists customers, both internal and external, in isolating defects in the field or in-house at ADB by troubleshooting over the phone or dispatching to the airport
- Serves as the main POC between ADB and airport electricians
- Repairs, overhauls & calibrates ADB airfield lighting equipment
- Performs product presentations in ADB airfield lighting maintenance seminars
- Assists Project Engineering Group in modification of custom product line
- Evaluates ADB products and initiates Engineering Change Orders (ECO) and/or Corrective Action Reports
- Performs Preventative Maintenance Contracts at airports requesting them
- Tasked to meet or exceed annual departmental and personal goals

3. Travel Expenses

ADB will abide by the City of Chicago travel guidelines and expenses will not exceed the published rates for air transportation, rental car, hotel and meals. Detailed expense reports with receipts will be submitted.

ADB Airfield Solutions

P.O. Box 30829
977 Gahanna Parkway
Columbus, OH 43230

Tel: (614) 861-1304
Fax: (614) 864-2069



4. Parts/Components

ADB will provide the City of Chicago a price list (Exhibit A) each October. The price list will reflect two prices; ADB's list price, and ADB's price to the City of Chicago. The yearly update to the price list will reflect ADB price increases over the previous year. ADB reserves the right to update component prices affected by commodity pricing changes (i.e. copper, steel, etc...) at anytime during the contract period.

We thank you for this opportunity and look forward to providing any future Airfield Lighting Computer System (ALCS) services required. If you have any questions, please contact me at: 614-573-8285.

Sincerely,
William D. Weigel
William D. Weigel
Regional Sales Manager – Mid West/Great Lakes

ADB Airfield Solutions

P.O. Box 30829
977 Gahanna Parkway
Columbus, OH 43230

Tel: (614) 861-1304
Fax: (614) 864-2069

1.07 WARRANTIES AND GUARANTEES:

- A. See Specifications Section 16010 1.07
- B. The ALCS must be warranted against defects in workmanship, hardware and software for a period of five (5) years from the date of Final Acceptance by the Director.
- C. During the Warranty period, the Contractor must make technical service personnel available to the DOA. The ALCS Manufacturer must provide the technical assistance and support during the Warranty period.
- D. The ALCS Manufacturer's technical service personnel must be capable of making changes to the system hardware, system software and trouble shooting the signal between, and operation of, the components of the ALCS. Support must be available 24 hours a day, 7 days a week, 365 days a year within 8 hours notice. The DOA realizes that certain defects take longer to repair than others. However, it is felt that 24 hours is sufficient time to repair the majority of problems. The 24-hour duration starts upon DOA's notification of the problem to the ALCS Manufacturer.
- E. The ALCS Manufacturer must provide free phone consultation and technical support during the Warranty period. The ALCS Manufacturer must provide technical phone support within two (2) hours of the initial call.
- F. The ALCS system as designed has a modem for remote connection to the proposed SALCV and remote trouble shooting by the ALCS Manufacturer. The ALCS manufacturer must document and send to the Director all remote trouble shooting and diagnostics conducted over the phone line link during the warranty period.
- G. The ALCS Manufacturer must maintain and be equipped with an adequate spare parts inventory for the ALCS to allow for immediate restoration of service upon inspection.
- H. General Requirements
 - 1. The ALCS Manufacturer must submit a telephone number for the 7 day a week, 24-hour per day call center for the DOA to request on-call warranty support. The call center must be capable of documenting the time of all incoming calls.
 - 2. The ALCS Manufacturer must perform required maintenance and repair service under contract during "Normal Service" hours. Normal Service must be performed upon request during the period

of 8:00 A.M. to 5:00 P.M. However, services covered under the contract may be performed outside normal service hours upon the request of the DOA. The DOA agrees to provide reasonable means to access all equipment. The ALCS Manufacturer must coordinate the exact date and time with the DOA to ensure that there are no scheduling conflicts.

3. The Input Current Voltage Monitoring (CVM), Output CVM, Insulation Resistance Monitoring System (IRMS) and Distributed Control Board (DCB) units that are to be integrally mounted in the regulators in the proposed SALCV are part of the overall ALCS and must be included in the Warranty and Preventative Maintenance Contract Requirements defined in these Specifications.
4. The ALCS Manufacturer must assign one individual to serve as the Project Manager who must oversee and have complete and direct responsibility for the services defined in these Specifications. This individual must be the point of contact for the DOA and be responsible for coordinating all work.
5. Personnel assigned to maintain the ALCS must be fully insured and have formal training and experience installing and servicing all hardware and software specific to the system installed at O'Hare International Airport. Work must be performed in a professional manner according to the standards established by the equipment manufacturer.
6. Names and credentials of the ALCS Manufacturer's technicians, their assignments and their company affiliation must be provided. If the personnel assigned to O'Hare International Airport changes during the Warranty and Preventative Maintenance Contract periods, the Contractor must notify the DOA of proposed changes. The DOA will review proposed personnel changes. The proposed changes must not be made without written approval from the DOA.
7. The ALCS Manufacturer's service personnel must notify the DOA of any malfunctions found and the remedy take for said malfunction.
8. ALCS Manufacturer must perform all services required with that degree of skill, care, and diligence normally exercised by professionals performing the types of services in projects of a scope and magnitude comparable to the services defined herein.
9. The ALCS Manufacturer must provide all supplies, equipment, tools, materials, transportation and labor to fulfill required services.

10. The ALCS Manufacturer must provide a written report that gives a complete analysis of the ALCS, repairs made, recommendations of required maintenance or upgrades that would aid system performance, and any additional maintenance tools that are available.
11. The ALCS Manufacturer must have sufficient and appropriate test equipment to ensure swift and effective adjustment and repair of the ALCS.
12. The ALCS Manufacturer must maintain records in an orderly manner. Records for service and maintenance calls listing dates and reason for service must be maintained. Service manuals, parts list of equipment and written service reports must be maintained by the ALCS Manufacturer. A copy of all service manuals, parts list and written service reports is to be provided to the DOA.

1.08 EXTRA MATERIALS AND SPARE PARTS:

- A. See Specifications Section 16010 1.08.
- B. As a minimum the following spare parts must be provided:

Qty.	Description
3	19" LCD Flat Screen Tower Touchscreen
1	For all other ALCS system components, a minimum of 10% spare parts must be provided. Where 10% represents less than quantity of one, one item must be provided for that particular ALCS component.

1.09 ENVIRONMENTAL REQUIREMENTS:

- A. See Specifications Section 16010 1.09.

1.10 SPECIAL REQUIREMENTS:

- A. See Specifications Section 16010 1.10.

1.11 CONTRACT DRAWINGS:

- A. See Specifications Section 16010 1.11.

1.12 EXECUTION, CORRELATION AND INTENT OF DOCUMENTS:

- A. See Specifications Section 16010 1.12.

1.13 INSTRUCTIONS AND ADJUSTMENTS:

- A. See Specifications Section 16010 1.13.

1.14 OPERATION AND MAINTENANCE MANUALS:

- A. See Specifications Section 16010 1.14.
- B. The following additional information must be included with the Operation and Maintenance Manuals:
 - 1. Operational Overview And System Description
 - 2. Graphical User Interface (GUI) Screen Operation
 - 3. System Block Diagrams
 - 4. Detailed Input/Output Terminal Diagrams
 - 5. Original Equipment Manufacturer (OEM) Manuals
 - 6. Touchscreen Maintenance (I.E. Calibration)

1.15 BINDERS:

- A. See Specifications Section 16010 1.15.

1.16 PREVENTATIVE MAINTENANCE CONTRACT:

- A. During the Preventative Maintenance Contract period, the Contractor must make technical service personnel available to the DOA. The Preventative Maintenance Contract must take affect from the date of Final Acceptance by the Director and continue for five (5) years.
- B. The ALCS Manufacturer must provide the technical assistance and support during the Preventative Maintenance Contract period.
- C. Preventative maintenance on the ALCS must be performed on a semiannual basis. The ALCS Manufacturer must coordinate the date for the preventative maintenance with the DOA. The ALCS Manufacturer must provide the DOA a 3 week notice of his plans for conducting the

preventative maintenance. The DOA will review requested date to ensure it is satisfactory. If the date is not satisfactory, DOA will provide alternative dates. The ALCS Manufacturer must review the dates and a mutually agreeable upon date must be determined.

D. General Requirements

1. The Preventative Maintenance Contract and the Warrantee and Guarantee provisions of this specification have the same General Requirements. Refer to paragraph 1.07.H of this Specification.

E. The ALCS Manufacturer must perform routine maintenance and inspection of the ALCS in order to deter the occurrence of potential problems within the ALCS computers and networking systems, and ensure their operational integrity. The ALCS Manufacturer must provide the personnel to ensure the proper functioning of the equipment all times. The preventative measures must include, at a minimum, the inspection of all wiring, modems, cable and fiber optic cable elements associated with the ALCS subsystem components, and interface with switchgear and generator control panels. As part of our Preventative Maintenance Contract, the following items must be performed, as a minimum.

1. Communication system tests
2. Review of ALCS stored alarm conditions
3. Database Clean-up
4. Touchscreen calibrations
5. Input Current Voltage Monitoring (CVM), Output CVM, Insulation Resistance Monitoring System (IRMS) and Distributed Control Board (DCB) testing and diagnostics
6. ALCS equipment inspections
7. Software version updates
8. Enclosure inspections (fans/heating/cooling)
9. Computer diagnostics
10. Printer testing

11. Keyboard/Monitor cleaning
 12. Inspection of the Constant Current Regulators interface to the ALCS
 13. UPS functional testing
 14. Firmware version updates
 15. Record input current, input voltage, output current, output voltage, VA and IRMS readings for each CCR
 16. Calibration of Lamps Out
 17. Verify all L-827 functionality (i.e. Low VA, Open Circuit, Over Current, etc.
 18. Testing of all mechanical and Ethernet network switches
 19. Documentation replacement
- F. As required, the ALCS Manufacturer must replace printer toner cartridges, printer paper supplies, batteries for uninterruptible power supplies and any other consumable items that are associated with the ALCS.
- G. During this check up, the monitoring portion of the ALCS must be evaluated. The ALCS Manufacturer must recalibrate the monitoring system, as required, and return the ALCS to its optimal performance
- H. The ALCS Manufacturer must maintain and be equipped with an adequate spare parts inventory for the ALCS to allow for immediate restoration of service upon inspection.
- I. While the ALCS Manufacturer is performing the preventative maintenance, the DOA will have the option of assigning personnel to accompany the ALCS Manufacturer's technician, in an effort to aid in hands-on training. The ALCS Manufacturer technician must familiarize the DOA personnel with the capabilities and features of the ALCS and provide guidance on the operational, troubleshooting and maintenance characteristics of the system.