

JUSTIFICATION FOR NON-COMPETITIVE PROCUREMENT

COMPLETE THIS SECTION IF NEW CONTRACT

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 _____ for the product and/or services described herein.
(Name of Person or Firm)

This is a request for _____ (One-Time Contractor 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
 _____ (Program Name) _____ (Attach List) Pre-Assigned Specification No. _____
 Pre-Assigned Contract No. _____

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 #: 12222

Company or Agency Name: ARGONNE NATIONAL LAB.

Specification #: 48684

Contract or Program Description: CHICAGO PROTECT PILOT PROG.

Mod. #: 1

(Attach List, if multiple)

KEVIN SCHNOES
Originator Name

4-4034
Telephone

Kevin Schnoes
Signature

ENVIRONMENT
Department

7/18/08
Date

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

<input checked="" type="checkbox"/> PROCUREMENT HISTORY	SEE ATTACHED DOCUMENT
<input checked="" type="checkbox"/> ESTIMATED COST	SEE ATTACHED DOCUMENT
<input type="checkbox"/> SCHEDULE REQUIREMENTS	
<input checked="" type="checkbox"/> EXCLUSIVE OR UNIQUE CAPABILITY	SEE ATTACHED DOCUMENT
<input type="checkbox"/> OTHER	

DATE 4-20-08
 APPROVED 4-20-08
 CONDITIONALLY APPROVED
 RETURN TO
 DISAPPROVED

APPROVED BY: Michael Wmbr
DEPARTMENT HEAD OR DESIGNEE

7/18/08
DATE

William
BOARD CHAIRPERSON

8/5/08
DATE

**JUSTIFICATION FOR NON-COMPETITIVE PROCUREMENT
(Attachment)**

1. Procurement History

Since the horrific occurrence of September 11, 2001, the country is forever looking at ways to protect American's and minimize the risk of another 9/11.

The City is in the process on installing an early warning monitoring system that will detect various chemical contaminants. At this time, the program will focus on publicly accessible city facilities (city hall, pedway, and CTA).

2. Estimated Cost for Extension

\$290,000.00

3. Scheduled Requirements

- Task 1. Detailed Site Survey and Plan
- Task 2. Detector Background Environment Testing
- Task 3. Equipment and System Bench Testing
- Task 4. Customization of Command and Control Software
- Task 5. Installation and Shakedown of System
- Task 6. Concept of Operations

4. Exclusive or Unique Capability

The command and control software is propriety and unique to Argonne National Laboratory (ANL). This is the only entity to our knowledge that is providing this type of services to cities throughout the United States. ANL has installed early warning monitoring systems in Washington DC, New York City, and Boston. They are also installing such systems with Amtrak at Penn Station in New York; 30th St. Station in Philadelphia; Union Station in Washington, DC; and Union Station in Chicago. ANL has unique expertise in the command and control software associated with the system as well as the chemical sensor packages (i.e. monitors).

ANL is operated by the University of Chicago under contract with the U.S. Department of Energy.

DPS PROJECT CHECKLIST

For DPS Use Only	
Date Received	_____
Date Returned	_____
Date Accepted	_____
CA/CN's Name	_____

IMPORTANT: PLEASE READ AND FOLLOW THE INSTRUCTIONS FOR COMPLETING THE PROJECT CHECKLIST AND CONTACT THE APPROPRIATE UNIT MANAGER IF YOU HAVE ANY FURTHER QUESTIONS. ALL INFORMATION SHOULD BE COMPLETED, ATTACH ALL REQUIRED MATERIALS AND SUBMIT FOR HANDLING TO THE DEPARTMENT OF PROCUREMENT SERVICES, ROOM 403, CITY HALL, 121 N. LASALLE STREET, CHICAGO, ILLINOIS 60602.

GENERAL INFORMATION:

Date: 07/18/08
REQ No.: 39191

Contact Person: Lynn Jackson-Terry
Tel: 4-7302 Fax: 4-5272 E-mail:ljackson@cityofchicago.org

Specification No.: (if known): 48684
PO No.: (if known): 12222

Project Manager:Kevin Schnoes
Tel: 4-4034 Fax: 4-5272 E-mail:kschnoes@cityofchicago.org

Modification No.: (if known):1

Previous PO No.: (if known): 12222

Project Description: Consulting Services For Implementation Of An Early Warning Monitoring System

FUNDING:

City: Corporate Bond Enterprise Grant* Other
 State: IDOT/Transit IDOT/Highway Grant* Other
 Federal: FHWA FTA FAA Grant* Other

LINE	FY	FUND	DEPT	ORGN	APPR	ACTV	OBJT	PROJECT	RPTG	\$ DOLLAR AMOUNT
1	006	0M02	72	2005	0140	220140		06DJ3C		350000

Estimated Value \$350000

*IF GRANT FUNDED, A COPY OF THE APPROVED GRANT AND APPLICATION ARE REQUIRED and any other Terms and Conditions that may apply.

SCOPE STATEMENT:

Attached is a Detailed Scope of Services and/or Specification

IMPORTANT: THIS IS A CRITICAL PORTION OF YOUR SUBMITTAL. IN ORDER FOR DPS TO ACCEPT YOUR SUBMITTAL YOU MUST COMPLETE THE SPECIFIC SCOPE REQUIREMENTS AS SET FORTH IN THE SUPPLEMENTAL CHECKLIST FOR THAT UNIT.

The following is a general description of what should be included in a Scope of Services or Specification:

A clear description of all anticipated services and products, 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.

TYPE OF PROCUREMENT REQUESTED (check all that apply):

NEW REQUEST

Blanket Agreement
 Standard Agreement
 Small Orders

MOD/AMENDMENT

Time Extension
 Vendor Limit Increase
 Scope Change/Price Increase/Additional Line Item(s)
 Other (specify):

FORMS: Requisition Special Approvals Non-Competitive Review Board (NCRB)

CONTRACT TERM: Requested Term (number of months):

PRE BID/SUBMITTAL REQUIREMENTS:

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

DPS PROJECT CHECKLIST

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: Chicago Manufacturing Center

Contractor's Address: 247 S. State, St. Suite 1000

Chicago, IL 60604

Contractor's e-mail Address: trachuy@cmcusa.org

Contractor's Phone Number: 312/542-0431

Contractor's Contact Person: Tina Rachuy

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)
- OBM (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:

Contractor's Address:

Contractor's e-mail Address:

Contractor's Phone Number:

Contractor's Contact Person:

P-06105
Revision 1

CHICAGO - PROTECT PILOT PROGRAM
Revision 1

Work proposed by:

Argonne National Laboratory
Decision and Information Sciences Division
9700 South Cass Avenue
Argonne, IL 60439

Principal Investigators:

Patrick L. Wilkey
(630) 252-6258 - Phone
(630) 252-3379 - Fax

Gordon Lurie
(630) 252-4984 - Phone
(630) 252-3379 - Fax

Submitted to:

Kevin Schnoes, P.G.
Assistant Commissioner
Department of Environment
Permitting & Enforcement Division
30 North LaSalle, 25th Floor
Chicago, IL 60602
kschnoes@cityofchicago.org
(312) 744-4034 - Phone

(312) 744-5272 - Fax

June 2006

CHICAGO-PROTECT PILOT PROGRAM

P.L. Wilkey and G.R. Lurie, Argonne National Laboratory

INTRODUCTION

The City of Chicago is concerned with protecting "hot spots" in the city that may be subject to chemical and other terrorist attacks that could lead to mass casualties and disruption of the city's economy. The ability to save lives and recover rapidly from such attacks depends on the city's ability to quickly recognize attacks and, in the case of chemical attacks, to rapidly limit the extent of their spread.

The PROTECT system is an early warning crisis management system with dual uses. First, the system permits rapid identification of an attack by using chemical detectors to detect hazardous chemicals and then visually verifying the attack through the use of video cameras. Second, routine law enforcement can use the system (through the video cameras) to monitor and respond to any criminal activity, fire and smoke incidents, and forensic evaluation in case of accidents, hostage situations, etc.

The PROTECT system is in operation in the Washington, DC subway, a large transportation terminal in Boston, and a large transportation terminal in New York City. Amtrak has funding to add PROTECT to two large terminals it operates in major cities and will eventually complete the PROTECT system for four large terminals in four major cities.

Under the original proposal Argonne provided a pilot of the PROTECT system modified to meet the specific requirements in the Daley Center. The system was integrated into the OEMC. This revision expands the system to the Pedway and the connected Blue line subway station.

THE CHICAGO-PROTECT SYSTEM PILOT

The Pedway that links the Daley Center and the CTA subway is an area of concern because of the large number of people that pass through it daily, specifically during rush hours. That area would be monitored at the junction points of pedway sections with a chemical detector suite supported by pan-tilt-zoom cameras to visually monitor the detector area and the pedway sections between detectors. Wireless communications could be used to send video camera and detector data to a hub, which would be on a network to (1) an existing security station in the Daley Center and (2) the Office of Emergency Management and Communications (OEMC). A concept of operations (ConOps) plan would be set up to provide optimal response to a detector activation of an incident in that pedway section.

The command and control system installed with the original pilot links the following locations: a security station in the Daley Center, a monitoring station at the OEMC, a service and maintenance station at Argonne National Laboratory to diagnose any problems with the detectors, and a station at video contractor's headquarters to remotely diagnose and correct any

video problems. The remote access to the system (with appropriate security protections) greatly reduces maintenance costs.

STATEMENT OF WORK

The following tasks will be accomplished to expand the working pilot system to the Pedway and Blue line station.

Task 1: Detailed Site Survey and Plan

The Argonne and the video contractor team would design the PROTECT system in detail and provide conceptual drawings of the expanded system to the City of Chicago for review. The creation of the system would be the result of a team effort, including Chicago law enforcement, OEMC staff, city staff, and Daley Center staff. The design plan would be prepared and reviewed by city stakeholders.

Task 2: Detector Background Environment Testing

While other work continues, one detector would be placed in the pedway for two months to identify any background chemicals that could be interferences and could cause detector activations in that area. System planning would be performed to adjust for or counteract those incidents.

Task 3: Equipment Purchase and Benchtesting of System

The supporting detectors, computers, and video camera support system equipment would be purchased and set up in a bench testing lab to be checked before installation in Chicago.

Task 4: Customization of Command and Control Software

The PROTECT CB-EMIS software would be updated to handle the additional detectors and video cameras in the geometry for the expanded program in Chicago. The video software system would be set up by the video contractor and checked out with the Argonne detectors and command and control system. A variety of scenarios would be run to ensure the software is working well before installation in Chicago. The City of Chicago will provide electrical and communication lines for the expanded system to connect to the pilot server in Daley Center.

Task 5: Installation and Shakedown of the System

The Argonne and the video contractor team would install the expanded system and carry out testing for a three-month period. The output of the PROTECT system would go to a security station in the Daley Center as well as to the OEMC in Chicago.

Task 6: Concept of Operations

Argonne and the video contractor staff would work with Daley Center security, OEMC staff, and City of Chicago staff to develop a ConOps plan for the expanded system. The ConOps plan would also be implemented in the CB-EMIS software.

Task 7: System Training

Classes would be held with all users of the expanded system including CTA and others as designated by the City of Chicago to explain the system and how to use it effectively. Training scenarios would be prepared for practice, and a short reminder instruction card would be prepared for the users.

Task 8: Nagios System Monitoring

The Argonne system monitoring program would be customized so that Argonne and a video contractor could be alerted to any system issues at the time they occur. A VPN between the OEMC and Argonne and the video contractor would be set up to alert Argonne to such problems through remote access. This plan assumes that the OEMC would give permission for a VPN.

EQUIPMENT REQUIRED FOR THE PILOT SYSTEM

The following equipment is projected for the expanded program:

- a. Two detector units covering chemical agents and at least three toxic industrial chemicals (TICs) considered as threats in terrorist attacks (\$135K, including overhead cost of purchase).
- b. Four closed-circuit television (CCTV) video cameras with pan-tilt-zoom capability with high-resolution color that can focus on the pilot segment of the pedway between the Daley Center and the subway (\$75K, including overhead cost of purchase).
- c. implemented if a network connection can be reached from aboveground at or near the pedway segment (\$15K, including overhead cost of purchase).
- d. VPN software and hardware to allow connections from the OEMC to Argonne and the video contractor to monitor the system remotely and make any adjustments from our home stations (\$4K, including overhead cost of purchase).

ANNUAL MAINTENANCE

The incremental cost of annual maintenance is about \$25K, which covers emergency service and daily monitoring of the system for problems. As the system is expanded over time, the cost would decline as a percentage of design and installation costs. Maintenance would start at the time the City of Chicago accepts the system. Acceptance is assumed to occur two months after (due to shakedown) the four-month installation period, or six months from the start of the project.

BUDGET AND DELIVERABLES DATES

Table 1 lists the costs of design and construction of the system. The time for design and installation would be about four months from the time the contract begins. Shakedown would be for two months after installation at which time the City of Chicago would be expected to accept the system.

THE PROTECT TEAM

The PROTECT system was developed by Argonne National Laboratory in cooperation with a subcontractor for the video portion of the system. The PROTECT system was funded by Department of Energy, Federal Transit Administration, National Institute of Justice, and the Offices of Science and Technology and the Office for Domestic Preparedness of Department of Homeland Security. The PROTECT system has been in operation for three years in the Washington, DC subway, covering numerous underground stations. It also is in a large transportation terminal in Boston and one in New York City. It has been operating for about 18 months at each site. Further, Amtrak is funding efforts to get PROTECT at four large terminals in four major cities in which it operates.

The team has a unique capability, as no other organizations have designed and installed a PROTECT system or any PROTECT-like system anywhere in the world.

WORKING WITH ARGONNE NATIONAL LABORATORY

Argonne National Laboratory is owned by the U.S. Government and operated under a Prime Contract by the University of Chicago as manager of the facility. The University of Chicago complies with the requirement of the U.S. Department of Energy with respect to both minority- and women-owned business enterprises and as such is not subject to the city's MBE/WBE requirements.

Table 1 Summary of Costs for PROTECT-Chicago

Area	Organization	Description	Cost (\$)^a
Detectors (sensors) (2)	Argonne	Chemical sensors with TIC modules	135,000
CCTV system (4)	Video Contractor	Camera FirstView systems with 30-day storage; includes cameras, encoders, and servers.	75,000
Installation	Argonne / Video Contractor	Survey, installation of sensors, cameras and server configuration	40,000
Training and shakedown	Argonne / Video Contractor	System training on CB-EMIS/FirstView and on-site support during testing period	15,000
Incremental support, service, and maintenance	Argonne / Video Contractor	Hardware and software per year (includes next day support/remote diagnostics/monthly VPN)	25,000
Total Cost			\$ 290,000

^a Cost includes overhead cost of purchase.

CHICAGO - PROTECT PILOT PROGRAM

**P-06105
Revision 1
Phase 2**

Component	FY2008		FY2009	
	Person-Months	Cost (\$1,000)	Person-Months	Cost (\$1,000)
Direct Effort	2.6	35.5	2.5	35.3
Total Effort	2.6	35.5	3.4	35.3
Purchased Material		30.0		30.0
Subcontracts		50.0		50.0
Service Center		0.0		0.0
Other Direct Costs		0.5		0.6
Other Costs Subtotal		80.5		80.6
Total Direct Costs		116.0		115.9
Laboratory Indirect		29.0		29.0
Total ANL Cost		145.0		145.0
DOE Admin. Charge (3%)		0.0		0.0
Full-cost recovery rate		145.0		145.0

*Costs may be rounded.

**CITY OF CHICAGO
PRE-APPROVED
MODIFICATION / OVERRIDE REQUISITION**

Copy (Department)

DELIVER TO: 072-2005 30 LASALLE 30 N. LA SALLE ST. ROOM 2500 Chicago, IL 60602	REQUISITION: 39191 For PO Number: 12222 PAGE: 1 DEPARTMENT: 72 - DEPARTMENT OF ENVIRONMENT PREPARER: Lynn Jackson NEEDED: PRE-APPROVED 7/25/2008
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REQUISITION DESCRIPTION

AMENDMENT TO PO#12222- EARLY WARNING MONITORING SYSTEM-PO AMT LIMIT INCREASE AND 3 YEAR TIME EXTENSION
 SPECIFICATION NUMBER: 48684
 Mod Reason: TIME EXTENSION

COMMODITY INFORMATION

LINE	ITEM	QUANTITY	UOM	UNIT COST	TOTAL COST
1	91812	350,000	USD	0.00	0.00
Vendor Limit Increase of \$350,000 for Consulting Services for Implementation for an Early Warning Monitoring System					

SUGGESTED VENDOR:

REQUESTED BY: Lynn Jackson

DIST	BFY	FUND	COST CTR	APPR	ACCNT	ACTV	PROJECT	RPT CAT	GENRL	FUTR	TOTAL COST
1	006	0M02	0722005	0140	220140	0000	00000000	06DJ3C	00000	0000	0.00
LINE TOTAL:											0.00

LINE	ITEM	QUANTITY	UOM	UNIT COST	TOTAL COST
2	91812	3	Year	0.00	0.00
3 Year Time Extension from January 1, 2008 thru December 31, 2010					

SUGGESTED VENDOR:

REQUESTED BY: Lynn Jackson

DIST	BFY	FUND	COST CTR	APPR	ACCNT	ACTV	PROJECT	RPT CAT	GENRL	FUTR	TOTAL COST
1	006	0M02	0722005	0140	220140	0000	00000000	06DJ3C	00000	0000	0.00
LINE TOTAL:											0.00

REQUISITION TOTAL: 0.00

08 JUL 28 11:12:49

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.