

Metropolitan Washington Airports Authority
Request for Qualifications Information

Architectural / Engineering Design Services

For

**AUTOMATED PEOPLE MOVER SYSTEM
TUNNEL VENTILATION AND
STATION SMOKE MANAGEMENT DESIGN**

At

Washington Dulles International Airport

July 7, 2006

**METROPOLITAN WASHINGTON AIRPORTS AUTHORITY
REQUEST FOR QUALIFICATIONS
AUTOMATED PEOPLE MOVER SYSTEM
TUNNEL VENTILATION AND STATION SMOKE MANAGEMENT DESIGN
WASHINGTON DULLES INTERNATIONAL AIRPORT**

I. DESCRIPTION OF WORK

The Metropolitan Washington Airports Authority plans to retain professional Architectural and Engineering (A/E) services for the design of the Master Ventilation Control System for the Automated People Mover (APM) Tunnel Systems at Washington Dulles International Airport.

The Authority has multiple Construction Packages underway for APM system facilities/structures including stations, tunnel segments and a vehicle maintenance facility. These multiple facilities/structures have been designed with independent ventilation control systems that must now be coordinated and integrated into an overall master ventilation control system for both the initial APM System operation and the multiple phases leading to the completed APM System. The work shall include developing comprehensive operating and control procedures and designing the technical contract documentation for the integrated software and hardware to be located at the APM Central Control Facility (CCF) and Alternate Central Control Facility (ACCF) and the multiple facilities/structures required for system implementation. This comprehensive master ventilation control system shall integrate the individual control systems for APM Train Control and the multiple APM Stations and APM Tunnel Segments for initial APM System Operations (Ph I) and the incorporation of Ph II, Ph III and Ph IV as these construction phases are completed.

II. QUALIFICATIONS

Extensive professional experience with similar projects is required of the staff both in conceptual design and in construction document preparation for a functional design. Professional experience with ventilation controls systems at airports with underground (tunnel) people mover systems and/or metropolitan underground (tunnel) subway systems is especially significant. Significant design detail will be incorporated into the construction documents to ensure constructability and to carry the design intent to a quality completion. Work shall conform to the Authority's Design Manual which is posted on the Authority's website. Design and construction drawings, in addition to paper media, will be required to be delivered in electronic format using Bentley Microstation version J or above or AutoCAD 2000 or above.

The design services will include the following:

Controls and electrical design, support utilities, mechanical and fire protection.

- Design Development Drawings and Specifications
- Construction Documents including Specifications
- Estimating and Schedules
- Bid Support Services
- Construction Support Services (optional)

Professional Architectural and Engineering expertise that will be required of the successful A/E firm or joint venture is as follows:

- Controls Engineering
- Mechanical Engineering
- Electrical Engineering
- Telecommunications Engineering
- Fire Protection Engineering
- Cost Estimating (for life cycle costing and construction estimating)
- Scheduling

III. ESTIMATED CONSTRUCTION COST

The estimated cost of construction is \$1,750,000.

IV. SELECTION OF THE A/E WILL BE BASED ON THE FOLLOWING CRITERIA IN DESCENDING ORDER OF IMPORTANCE

1. Experience - Each offeror shall demonstrate specialized experience in the last 3 to 5 years in the design of underground (tunnel) transit systems master ventilation control systems of public people mover/subway applications. The offeror shall also demonstrate experience with preparation and coordination of plans, specifications, design reports, schedules and cost estimates for projects with multiple ventilation and fire suppression system interfaces in multiple facilities. Any and all experience with such ventilation control for underground (tunnel) transit systems in an operating environment should be emphasized. Experience with ventilation control systems for underground (tunnel) transit systems for municipalities should also be presented.

As part of this criterion, A/E firms are asked to submit a minimum of three references for projects that meet the experience described above including:

- Title of Project
 - Point of Contact
 - Phone Number
 - Estimated Design Cost
 - Estimated Construction Cost
 - Date Work Completed
2. Key Personnel - Each offeror shall submit the experience and availability of key personnel proposed for this project, including as a minimum, Project Manager, Lead Controls Engineer, Lead Mechanical Engineer, Lead Electrical Engineer, Lead Fire Protection Engineer, Quality Assurance Manager and Construction Cost Estimator/Scheduler.
 3. Past Performance - Each offeror shall submit evidence, minimum of three, demonstrating past performance on underground (tunnel) transit system master ventilation control system designs. Demonstration of past performance shall document compliance with original schedules and budgets for both the design and construction phases separately. Provide evidence of the communications and working relationship with the client for both the design and construction phases separately.

4. Team/Management Structure - Each offeror shall submit the prime consultant's experience and history in working with a team including the prime's management of in-house design teams and outside subconsultants. The offeror should include any past experience working with member firms and individuals of the proposed design team. Additionally, offerors shall submit a Management Plan for this project.

The criteria are listed in descending order of importance. E.g., criterion no. 1 is equal to or greater in scoring than criterion no. 2.

A Request for Proposal (RFP) will result from the evaluation of qualifications submitted by offerors responding to this announcement. It is anticipated that a selection committee will make the final selection. The subsequent contract will be a negotiated, firm, fixed-price contract.

V. SUBMITTAL INFORMATION REQUIRED

Firms which meet the requirements of this announcement are invited to submit an ORIGINAL (**clearly identify the original on the front cover**) and SIX COPIES (7 TOTAL) of the following:

- A. One page cover letter on the prime consultant's letterhead.
- B. Standard Form 330 together with no more than ten (8 ½" x 11") pages of correspondence describing the organization and responsibilities of the firm, subconsultants, or joint venture partners, and five pages of supporting graphic exhibits.
- C. Three references including Project Description, Point of Contact and Phone Number.

The due date and time for submittals is August 4, 2006 at 1:00 p.m. local time. Please identify the package with an exterior label stating "**RFQI No. 1-06-C099, A/E Qualifications – Automated People Mover Tunnel Ventilation and Station Smoke Management Operational Design and Control Procedures.**" Responses to this RFQ must be submitted to:

Metropolitan Washington Airports Authority
Procurement and Contracts Dept., MA-440
1 Aviation Circle, Suite 154
Ronald Reagan Washington National Airport
Washington, DC 20001-6000
Attention: David Swennes, Contracting Officer

No other general notification of this project will be made and no further action beyond submission of the information listed above is required or encouraged. This is not a request for proposal.

Note: The Airports Authority is not an agency of the United States Government.

Do not contact Airports Authority consultants or Airports Authority personnel, other than the Contracting Officer, regarding this solicitation.

Appendix A – Additional Instructions Standard Form 330

The following provides clarification to the Standard Form (SF) 330.

Section D should include the proposed team organization chart.

Sections E and F are to contain all information necessary to address Selection Criteria 1 through 4 above. The project experience listings of individuals (in Section E) and firms (in Section F) are expected to contain that individual's or firm's specific role on each project listed. Experience listings that are for "related" vs. "direct" project experience should contain a brief statement as to why that project's experience is considered related and/or relevant. All projects listed should be briefly but clearly explained as to the type of project (type of building, new vs. rehab. etc.), the specific role of the firm or individual (prime vs. sub-consultant role, planning vs. program/design management vs. detailed designer role, involvement in construction phase services, etc.) and the time period in that role. If the previous work experience cited for an individual was done while working for another firm that should be made clear. If the previous work experience cited for a firm (or business unit within a firm) was performed while operating under another name, was performed before acquisition by the current parent firm, or was performed by persons not proposed for this project, that should be made clear also.

Section F, Line 24 should include project presentation drawings and/or photographs.

Section F, Line 24, should include the Estimated Cost and should show both the firm's fee amounts and the project construction cost amounts, differentiated by parentheses around the fee amounts.

Section H:

- May contain up to 15 pages (in addition to the limit in V.B.), with a minimum 11-point type size.
- Is not to contain extensive repetition of material presented in previous sections.
- Should include an additional copy of the proposed organization chart, along with a discussion of the proposed project organization, specific responsibilities of the member firms, and all other pertinent information necessary to address Qualification Criterion 1 through 4 above. The organization chart and accompanying discussion should be well coordinated with the personnel resumes in Section E, particularly regarding job titles and responsibility designations.
- Should include all information and discussion necessary to address Selection Criteria 1 through 4 above.
- Should be used to elaborate on any relevant issues expected to influence the course of this design project, your ideas on dealing with them, and your experience in dealing with them in the past, including (a) coordination with large multi-departmental client organizations, (b) coordinating and taking full responsibility for the efforts of a large number of specialty sub-consultants working in different cities, (c) managing the design of projects remote from the various design production offices, and (d) any other issues you deem pertinent.

Tabbing and/or other easy-to-follow cross references between SF 330 text and the Selection Criteria being addressed would be greatly appreciated.