



PROJECT SPECIFIC
QUALIFICATION STATEMENT REQUIREMENTS
for
CONSTRUCTION MANAGEMENT SERVICES

**Central Power Plant 13,200 Volt Switchgear Upgrade
U-M Project Number P00012681**

AND

**Central Power Plant Expansion
U-M Project Number P00011088**

Submittal Deadline: April 25, 2017 by 2:00 PM EDT

**Issued by: University of Michigan
Architecture, Engineering and Construction
and
Procurement Services
326 East Hoover Avenue
Ann Arbor, MI 48109-1002**

*The University of Michigan Central Power Plant 13,200 Volt Switchgear Upgrade (U-M Project # P00012681) and
Central Power Plant Expansion (U-M Project # P00011088)*

Issued March 2017

Construction Management Services - QSR

I. INSTRUCTIONS

A. Purpose

This Project Specific Qualification Statement Requirements for Construction Management Services is issued to request qualifications from those Construction Management (“CM”) firms interested in providing preconstruction and construction management services for the following project:

**Central Power Plant 13,200 Volt Switchgear Upgrade
U-M Project # P00012681**

AND

**Central Power Plant Expansion
U-M Project # P00011088**

The projects are located at 1120 E. Huron Street, within the City of Ann Arbor, Washtenaw County, Michigan.

B. Selection Process

Interested CM firms must respond to the requirements included herein and submit ten (10) hard copies and one (1) electronic copy of their Qualification Statement Requirements (“QSR”) response as directed below. The information gathered will be evaluated by Project Team members and other Owner representatives to select which firms will be chosen to submit a technical proposal in response to a Request for Proposal (“RFP”) for Construction Management Services and invited for interviews. Firms receiving RFP’s will be provided additional information for the project to help them prepare their proposal. This technical proposal, as well as the interview, will be evaluated to determine the construction management firm best qualified to provide construction management services for this project. The Owner reserves the right to reject any and all applicants and may stop the selection process for the project at any time.

C. Selection Schedule

Ten (10) hard-copies of your QSR response must be provided. In addition, forward an email with an electronic copy of your response attached to Jim Bruce at jmbruce@umich.edu. Both hardcopies and electronic copy must be received no later than:

April 25, 2017 by 2:00 PM EDT

Submit responses to: The University of Michigan
Procurement – Facilities
Attn: Jim Bruce
The University of Michigan
326 E. Hoover Ave., Mail Stop D
Ann Arbor, Michigan 48109-1002
Phone: (734) 764-2240
Email: jmbruce@umich.edu

Any questions/comments regarding this QSR must be forwarded via email with specific reference(s) to the Section(s) in question to the attention of Jim Bruce at jmbruce@umich.edu.

The deadline for submittal of questions is: **April 19, 2017 by 2:00 PM EDT**

Responses to questions received will be posted on The University of Michigan's Architecture, Engineering and Construction website within two (2) business days of receipt:

<http://www.umaec.umich.edu/for-vendors/bids-proposals/>

The proposed schedule for the balance of this process as described in Section B. is as follows:

	<u>Date</u>
RFP issued to selected firms:	April 28, 2017
Proposal due:	May 23, 2017
Interviews:	June 8, 2017

II. PROJECT DETAILS

A. Location

The site of the two Central Power Plant (CPP) projects are as follows:

CPP 13,200 Volt Switchgear Upgrade (U-M Project # P00012681) is located on the University of Michigan's main campus within the existing Central Power Plant Building located at 1120 E. Huron Street, Ann Arbor.

CPP Expansion (U-M Project # P00011088) is to be located on the University of Michigan's main campus directly west of the existing CPP at 1120 E. Huron Street, Ann Arbor, in the existing parking lot adjacent to the CPP.

B. Project Description

Central Power Plant 13,200 Volt Switchgear Upgrade (U-M Project # P00012681)

The University of Michigan's CPP provides electrical power to the Central and Medical campuses through purchased electricity and on-site generation of electricity. The existing 13,200 (13.2kV) switchgear components in the CPP range from 25-60 years old and are at or beyond their useful lives. In order to increase the reliability of power to U-M campuses and

the CPP (for steam generation), U-M is proposing to replace the existing 13.2kV switchgear. The project will include a renovation of approximately 7,000 gross square feet of existing space to accommodate the new equipment while meeting current safety oriented codes. The new pre-purchased equipment will incorporate the latest technological and safety features. The project will also include a power preservation and load shedding system that will have the capability to maintain generated electric and steam supply at the CPP during a disruption or loss of purchased electricity. The scope of this project includes the architectural, electrical and mechanical work necessary to accomplish these improvements. This work will be complete while the plant remains fully in service.

Central Power Plant Expansion (U-M Project # P00011088)

The University of Michigan's Central Power Plant (CPP) is a highly efficient natural gas co-generation facility providing steam heat and electrical power to most Central and Medical campus buildings. The CPP Expansion project is constructing a new 12,000 gross square foot building addition west of the existing plant to house a new, pre-purchased 15-megawatt combustion turbine and steam generators. The new pre-purchased equipment will incorporate the best available technology and safety features. The project will include bringing needed utilities to the site as well as providing the necessary equipment to supply proper operating pressures of these utilities. The steam and power produced by the new combustion turbine will be incorporated into the existing distribution system. This work will be completed while the existing plant remains fully in service.

C. Fixed Limit of Construction Cost:

CPP 13,200 Volt Switchgear Upgrade (P00012681) approximately \$15,000,000

CPP Expansion (P00011088) approximately \$55,000,000

D. Design Professional: Black and Veatch, Ann Arbor, MI

E. Project Schedule

The following preliminary schedule has been developed in conjunction with the Design Professional. The Owner **may** permit a fast-track or phased schedule for this project. Phasing options are still being investigated and considered by the project team.

Tentative Schedule CPP 13,200 Volt Switchgear Upgrade (P00012681):

- | | | |
|----|--------------------------------------|----------------|
| 1. | Completion of Schematic Design | June 2017 |
| 2. | Completion of Design Development | September 2017 |
| 3. | Completion of Construction Documents | February 2018 |
| 4. | Substantial Completion | July 2019 |

Tentative Schedule CPP Expansion (P00011088):

- | | | |
|----|--------------------------------------|----------------|
| 1. | Completion of Schematic Design | September 2017 |
| 2. | Completion of Design Development | February 2018 |
| 3. | Completion of Construction Documents | November 2018 |
| 4. | Substantial Completion | August 2020 |

F. Contract Documents

The Contract Documents to be utilized for this project are available via the University of Michigan: Architecture, Engineering and Construction website:

<http://www.umaec.umich.edu/for-vendors/contracts-agreements/construction-management-contract/>

and consist of the following documents:

- a. *Agreement for Professional Construction Management Services;*
- b. *Agreement for Professional Construction Management Services Schedule of Project Details – Non-Tax Exempt; and*
- c. *Standard General Conditions Applicable To Projects Where The Owner Has Retained the Professional Services of a Construction Manager.*

III. QUALIFICATION STATEMENT REQUIREMENTS

NOTE – One combined Qualification Statement can be submitted for these two projects. In the Qualification Statement include two separate sections C. Construction Manager's Experience, see below, on pages 6 and 7. One shall be for the CPP 13.2kV Switchgear Upgrade project and a separate one for the CPP Expansion project.

A. Instructions for Completion

1. If your firm is not currently pre-qualified by the Owner, a U-M Contractor's Application for Qualification must be completed and submitted as part of your response to this QSR. The Application, along with Instructions for Completion, can be accessed at the following link:

<http://www.umaec.umich.edu/for-vendors/project-documents/>

Failure to successfully qualify will prohibit a CM from further consideration.

2. The following questions noted below beginning with Section B. require responses in sequential order. All questions must be answered as requested. If a question is not applicable to your firm, please respond accordingly.
3. The intention of these requirements are not to restrict the submittal of information but to streamline your response into a format which enhances the analysis procedures which must take place to allow the Owner's Project Team's time to be efficiently utilized.

B. Construction Manager's Safety Program

The safety of both our campus community and our contractors is of paramount importance on University of Michigan projects.

1. Provide a statement that describes in detail how your firm addresses project safety.
2. Describe the unique safety challenges a project such as this represents and your approach to addressing these challenges.
3. Describe a typical level of safety staffing your firm would find appropriate for such a project.
4. Describe how your safety program is designed to influence and impact all trades and laborers working on the site.
5. Describe your approach to site specific training.
6. Describe your safety role as construction manager versus the responsibilities of the trade contractors.
7. Describe your disciplinary actions for those workers who do not comply with your safety requirements.
8. List the number of DART (Days Away, Restrictions and Transfers) incidents (if any) and the DART rate on your last ten (10) projects with values over \$20,000,000.
9. Provide a brief description of any fatalities that have occurred on projects that you were engaged as a Construction Manager or General Contractor over the past ten (10) years. Provide what corporate changes were put in place to address issues identified in the fatalities.

C. Construction Manager's Experience

1. List five (5) projects for which your firm has provided/is providing construction management services that are most related to this project. In determining which projects are most related, consider: related size and complexity; how many members of the proposed team worked on the listed project; and, how recently the project was completed. List the projects in priority order, with the most related projects listed first. At least two projects must be completed and occupied by the owner.
2. For each of the listed projects, provide the following information: construction cost (original GMP and final construction cost), current phase of development, estimated (or past) completion date (estimated vs. actual), type of construction services provided (CM at risk with GMP, CM-agency, Design/Build, General Contract - Low Bid, Negotiated General Contract).
3. List the type of reports your firm produced on these projects for the owner on a regular basis.
4. List all CM projects comparable or greater in size and scope that your firm has managed.

5. Has your organization ever failed to complete any awarded projects?
6. Describe your current corporate sustainability programs. Provide three (3) examples of innovative sustainability initiatives your firm has recommended and/or implemented on current projects or projects completed within the last five (5) years.

D. Construction Manager's Personnel

1. List total number of firm's personnel, for the proposed office in charge, by skill group (e.g., project managers, estimators, project engineers, superintendents, etc.)
2. Name only key personnel (i.e., project director, manager, superintendent, scheduler, estimator) which will be part of the proposed construction management team for this project. Describe in detail the experience and expertise of each team member, which project they were assigned to and their role in the projects listed in the References section. (Note: Key personnel must be committed to this project for its duration unless excused by the Owner) If the team as a whole provided construction management services for any of the projects listed in response to Section C.1, so indicate.
3. Name any consultants which are included as part of the proposed team. Describe each consultant's proposed role in the project and its related experience. List projects on which your firm has worked with the consultant.

E. Construction Manager's Project Controls

1. Describe your cost control methods for the preconstruction and construction phases. How do you develop your estimates and how often are they updated? Include examples of successful value engineering to maintain project budget that did not sacrifice quality. (Answer must not exceed 2 pages.)
2. Describe the way your firm maintains quality control during the pre-construction and construction phases. Provide some examples of how these techniques were used in the projects listed in the Experience section. (Answer must not exceed 2 pages.)
3. Describe the way in which your firm develops and maintains project schedule. How often do you update those schedules? For one of the projects listed in the Reference section, provide examples of how these techniques were used. Include specific examples of scheduling challenges and how your firm solved them. (Answer must not exceed 2 pages.)
4. Would you assign a current employee, hire new personnel, or hire the professional services of an independent scheduling consultant to provide the efforts of logic planning, activity duration discussions with subcontractors, scheduling monitoring, subcontractor communications, and issuance of scheduling reports?
5. Describe how your firm assists minority business enterprises and involves them in projects.
6. Construction projects have changes and additional work during the design and construction phase. The degree of change and amount of additional work varies from

minor changes to substantial additions and modifications. How does your firm manage this aspect of the project? Provide examples from the projects listed in the Reference section. (Answer must not exceed 2 pages.)

7. Provide your feasibility assessment of the proposed scheduled substantial completion date.
8. Describe your firm's in house BIM/3-D Virtual Design capabilities. How would you manage this process beginning at Design Development? Include three (3) projects of comparable complexity demonstrating successful BIM Modeling and clash mitigation to prevent costly changes in work. Your response should also include how this information is transmitted to the tradesman in the field.

F. Modularity/Prefabrication

1. Describe ways your firm has prefabricated/modular building systems in the past to expedite construction schedules, and provide value to the Owner. Examples provided should only relate to building components and systems found in these building types.

G. Describe your Firms Risk Assessment Procedure

1. What are the key Risk factors that you envision given the project scope, schedule, location and type described for our project?
2. Describe how your Risk Assessment will be produced for our project.
3. Provide a sample Risk Assessment (for a project of similar size and scope).

H. Contact Information

Include the following information in your submittal:

1. Principal in charge for this project
2. Principal's title, phone, and email addresses
3. Principal's mail (street) address
4. Name of person to contact for further information regarding this statement (if other than principal)
5. Contact's phone, mobile phone, and email addresses
6. Company website address, if available
7. Company's DUNS and TIN Numbers

IV. SIGNATURE

CM firm must complete and include this signature page with the submittal.

By signing below, the undersigned acknowledges s/he is an expressly authorized agent of the company listed below.

Date: _____

Full Legal Name of Company: _____

Signature: _____

Printed Name: _____

Title: _____