

RFP MR-16-030888
 LGWO Motor Control Center (MCC) Upgrade
 Questions and Answers

| No. | Question | Answer |
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| 1 | Please clarify the date of the pre-proposal. | Thursday August 11, 2016 |
| 2 | Who should receive attendees information for Pre-Proposal meeting? | Construction Management Office (CMO) - cmo@ettp.doe.gov - complete attached form with visitor information and submit by Tuesday, 8/9/2016 |
| 3 | Is there an existing set of MCC drawings? | A CD will be provided at the Pre-Proposal meeting that contains drawings, sketches and site information. This is for information only and to be used at the bidders discretion. |
| 4 | What is the location of the Pre-Proposal meeting? | Pre-proposal meeting will be held at ORNL, Building 3001 Conference Room 102, Oak Ridge, TN 37830. Plan on arriving an hour in advance to go to the Visitors Office and get to conference room. |
| 5 | What are the clearance requirements for this work, can we use uncleared personnel with escorts? | 2531 and 3608 do not require personnel with security clearances to access these facilities. Compliance with Exhibit B SC-19 and detailed data in Exhibit 3 Attachment 3 is required. |
| 6 | The SOW has a table with a "replacement ranking" which lists the MCC's inside Building 2531 as "one". Is the work schedule to reflect doing this work first in execution and then doing the work on 3608? Does it matter which section East or West gets done first in the cut over? | Exhibit D Scope of Work Section 2 provides a table with the replacement rankings. The replacement ranking indicates a preference for accomplishing the replacement at 2531 first. The east or west MCC replacement will be determined by the bidder in the schedule and method of accomplishment. |
| 7 | The scope of work page states the MCC shall operate at 480Vac, phase 60Hz ungrounded system? Is that correct? MCC Spec document states on page 8 "Dedicated ground system shall be provided". Page 9 states a ground grid system shall be provided and the resistance is not to exceed 1ohm, can this be achieved? Our experience has been this is very difficult to achieve without extreme measures being added, more ground rods more area with a larger grounding grid etc. suggest a range or tolerance be provided or soil resistivity testing be performed to confirm this is an obtainable value. | All existing MCC's operate on an ungrounded delta power system. The National Electrical Code (NEC) and the MCC Specification still require that the MCC have ground bus connected to the building ground via a grounding electrode conductor. A resistance of 1 ohm is achievable as it will be connected to the existing building ground. |
| 8 | Spec section page 8 states "All MCC's shall have fully equipped positions for future circuits". How many spare cubicles are required for each MCC? | Please refer to Exhibit E Technical Specification Section 3 Design. Each MCC is expected to be fully equipped for future circuits, as space allows in the SUBCONTRACTOR design. |
| 9 | Will a tax exempt letter be provided for the purchase of materials or are we to include sales taxes in the proposal? | Please see GC-28 in Exhibit A General Conditions. |
| 10 | Page 9 of the MCC spec states " Provide exterior convenience GFCI receptacles at each point with in-use covers." How many points are there? | Page 9 of Exhibit E, Technical Specification for LGWO Motor Control Center Upgrades, 4th Bullet from the bottom states, "The equipment center shall be provided with a minimum of two (2) entrance doors." |
| 11 | Would the solicitation team consider an extension on the bid date for the above referenced RFP? | If an appropriate justification can be made as the need for extending the proposal date UCOR will consider an extension. |
| 12 | Can Cable Tray be used in lieu of Conduit for raceways from new MCC to existing? | Please refer to Exhibit E Technical Specification Section 3 Design. If cable trays are used they must be listed for use in this type of application. |

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| 13 | The new electrical MCC enclosure calls for gutters, will additional drainage be required under parking lot surface at the new MCC pad location? | No, underdrains will not be required for the enclosure. |
| 14 | Will the owner be covering the cost of Workers Comp and General Liability insurance while contractor is on site? | Exhibit B Special Condition SC-15 Insurance and additional information provided in Attachment 1. |
| 15 | Looking thru the RFP form documents form F for the Quality Plan states Offeror shall furnish a brief summary that identifies how the requirements of Exhibit K will be implemented under the resulting Subcontract." Exhibit K is not part of the documents, do we need it or can we just provide a summary and hit the points indicated on the form? | "MCC_16 Exh K QA.pdf" is posted on the 90 day forecast page as part of the RFP. |
| 16 | The contract documents require the SUBCONTRACTOR to "create and produce official drawings, sketches and designs of the MCC replacements, including but not limited to, demolition lans, one-line diagrams, details, power plans, structural plans, schedules, and excavation points. The SUBCONTRACTOR shall supply with the design Test Plans/Procedures, Maintenance Plans, Operating Procedures, vendor literature (identifying equipment and options installed if the vendor's manual provides multiple items/options) and spare parts listings. The desired approach is to provide MCC's generally arranged in accordance with the existing one-line diagrams." There are a lot of drawings in the package provided by UCOR, including many loop diagrams, interconnection diagrams, schematics, ladder diagrams, single lines, control diagrams and more. Could you better define what is expected in the way of new drawings? Can the loop drawings, control drawings, interconnect drawings be re-used without modification? | The SUBCONTRACTOR is expected to determine the adequacy of the various types of drawings. For instance, where these drawings reference a specific MCC compartment then that drawing will need to be revised. Most, if not all, of these drawings are in .pdf format. It will be up to the SUBCONTRACTOR to determine if the drawing is revisable or will need to be redrawn. |
| 17 | Are conduit and wire schedules required? | Where available (Building 3608) existing conduit and wire schedules have been provided. The conduit and wire schedules are depicted on drawings that are only available in a .pdf format. Therefore, the drawings are not readily revisable. MCC compartment numbers will most likely change and the conduit and wire schedules are not as-built. Therefore, new conduit and wire schedules will be required. |
| 18 | It appears there are several drawings that have been developed with CAD. Which drawings will be available in .dgn or .dwg files? | The three (3) one line diagrams for Building 3608 (E3E-21180-D003, E3E-21180-D004, & E3E-21180-D005) and one (1) one line drawing for Building 2531 (E3E020237D018) have been redrawn in a .dgn format. These drawings were "as-built" in preparation for the RFP. No other drawings are in .dgn or .dwg formats. |

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| 19 | <p>“The design shall also include calculations. It is the responsibility of the SUBCONTRACTOR to prepare and submit, or specify, calculations as required by the type of design work performed. At a minimum calculations shall justify size of each conductor, raceway, overcurrent protective device, starter size, equipment bus, voltage drop, setting of each overcurrent protective device with adjustable characteristic.....”Generally we would start with the load , that would determine the circuit breaker rating which would determine the conductor size which would determine conduit size. Ordinarily we operate from tables in the NEC, with thought given to grouping circuits, derating based on the number of circuits in a conduit, overhead routing vs underground routing, length of run, etc. Please expand on the expected calculations</p> | <p>The boundaries established upon the one line diagram as-built effort were limited to the MCC’s themselves. Items such as overloads, starter sizes, conductor sizes, breaker sizes, etc. were as-built. The length and type of conductors was noted on the one lines to the extent possible. The lengths were based upon previous Arc Flash walk down information. The equipment serviced by the MCC’s has satisfactorily operated for many years. This is not to say that there are no National Electrical Code (NEC) issues with the existing installations. Based upon the constraints of this project the new MCC’s will be like-for-like replacements. Therefore, the expected calculations should be based upon the information provided on the “as-built” one line diagrams. The SUBCONTRACTOR should calculate the adequacy of existing breaker sizes based upon given wire sizes, motor sizes, etc. New motor starter sizes should be verified based upon given motor sizes. New overload sizes should be based upon existing overload information that has been provided.</p> |
| 20 | <p>If it is determined that due to MCC relocation the voltage drop exceeds that allowable by the NEC will new up sized conductors be required from the MCC out to the load? Does control wiring need to be evaluated for voltage drop too? and replaced where necessary?</p> | <p>In general the load conductor boundaries of this project are at the MCC. There could be an instance where the location of the new MCC is closer to an existing load? In this case the SUBCONTRACTOR may elect to run a new circuit to the existing load. All wiring, including control wiring, will need to be evaluated for voltage drop. If voltage drop calculations exceed that allowable by the NEC then other techniques should be employed to meet the requirements of the NEC. As an example, a new conductor larger than the existing load conductors could be routed from the MCC to a splice point in the vicinity of the existing MCC’s. The load side terminals of the breaker or motor starter would need to be sized to accept the larger conductors. Correction and adjustment factors would also need to be taken into account to ensure that conductors will be protected against overcurrent in accordance with the ampacity specified in NEC 310.15. For the purpose of this RFP assume that existing conductor sizes will remain the same.</p> |
| 21 | <p>Can we have a date for additional questions due to the large scope of work? It took time getting all information printed, distributed, read and digested prior to asking questions.</p> | <p>Questions through 08/22/16, Answers through 08/29/16</p> |
| 22 | <p>Can the bid date be extended? We will be working with multiple vendors and trying to determine which is the best path forward and it make take some time and negotiations, we will also have to evaluate the vendors package before putting it in our bid.</p> | <p>The bid date shall be extended until 09/15/16</p> |
| 23 | <p>Exhibit C Form A, Schedule of Quantities and Prices has a line item 9, “Demobilization from Building 2431”. Form A-1, Schedule of Lump Sum and Unit Prices does not contain this line</p> | <p>Exhibit C Form A-1 has been revised to include the omitted pay item for demobilization from Building 2531. Form will be issued in next amendment to RFP.</p> |

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| 24 | Does the project have an Union Labor requirement? There is a Construction Labor Agreement in the bid package | The project is required to work to the Davis – Bacon Act requirement under the Building Trades Labor agreement with the DOE and UCOR. |
| 25 | Do you want 2 hard copies (paper copies) and 2 compact disks? | 2 hard copies and 1 disk will be sufficient |
| 26 | Exhibit B stipulates the schedule as “calendar days”. Is the expectation for this schedule to be on a 5 day working week and incorporating those durations listed into our schedule minus the holidays? | <p>SC-20 Working Hours and Holidays A. CONTRACTOR’s normal working hours are between 6:30 a.m. and 5:00 p.m., Monday through Thursday (i.e. Four 10-hour shifts). CONTRACTOR and SUBCONTRACTOR may mutually agree to alternative shift(s) as needed due to weather and/or seasonal changes, or to otherwise accommodate Project needs.</p> <p>B. CONTRACTOR will observe the following business holidays:</p> <ul style="list-style-type: none"> • New Year’s Day • Martin Luther King Day • Memorial Day • Companion to Independence Day • Independence Day • Labor Day • Thanksgiving Day • Companion to Christmas Da • Christmas Day |