

LWGO Heat Trace Controls Replacement
Questions and Answers
MR-16-030077
Amendment 1 (#11 and #12)

No.	Question	Answer
1	Is RAD Worker II training required for this project?	Yes, See Exhibit B SC-24
2	Is UCOR LO/TO required for this project?	Yes, see Exhibit D Statement of Work
3	What is the latest date the project can complete on before the start of next winter?	Assume October 31st.
4	Do you have an anticipated award date? This information is needed to determine if multiple areas and/or overtime will be required to meet the latest completion date.	Assume an estimated award date of 3/15/16
5	Once the project is awarded what is the UCOR review cycle (in working days) for review of the design phases?	Assume five (5) days for UCOR review cycle.
6	Do the shop drawings from the vendor have to be PE stamped or can they be just be put on Cad drawings that would go in the Engineering package?	Yes the vendor drawings must be stamped if they are part of the design package.
7	Is startup and testing required from the vendor?	Testing shall be conducted in with Exhibit D, Statement of Work
8	Engineering Cals are to be provided. Can this be done in an excel spreadsheet for total wattage based on the information on drawings provided by UCOR?	Excel is acceptable for use. The use of Excel must still meet the requirements as specified in Technical Specification (Exhibit E) and Quality Assurance Requirements (Exhibit K).
9	Is it correct that no drawings are available in .dwg Cad files and all drawings including plan drawings that go in the engineering package will have to be drawn from scratch?	That is correct, drawings are not available in .dwg format.
10	Are arc flash calculations required for the heat trace panels?	The SUBCONTRACTOR shall perform arc flash calculations for each heat trace panel. The arc flash calculations shall include the following: (1) available fault currents on the one-line diagrams, (2) Flash Hazard Protection Boundary, (3) Incident Energy Level, (4) Required Personal Protective Equipment Category, (5) Type of Fire Rated Clothing, (6) Limited Approach Boundary, (7) Restricted Approach Boundary, and (8) Prohibited Approach Boundary. The arc flash calculations shall be performed using SKM PowerTools™.

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11	Since arc flash calculations are required where are we to start the arc flash study?	Each Heat Trace Controller is fed from a 480 Volt circuit breaker in an MCC via a 480 Volt 480-208Y/120 volt transformer. Each MCC has been evaluated for arc flash. Therefore, the arc flash study can begin at the MCC.
12	Do you have an existing arc flash skm file for the existing heat trace panels?	Currently six (6) of the nine (9) facilities involved in the Heat Trace Controller replacement have arc flash studies in SKM format. The intent is to have all arc flash calculations in SKM and we're working toward that. The arc flash calculations for the remaining three (3) facilities are in Easy Power format. For these three (3) facilities we can provide the required arc flash calculation inputs.