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### **Addendum #1**

### **RFP # 19-24AA**

### **ENGINEERING SERVICES FOR DES HW DISTRIBUTION SYSTEM BALANCE OF PLANT**

This addendum serves to notify all bidders of the following responses to submitted questions:

1. How much of the steam converter system is 3D modeled in Revit and available for reference into the BOP project?  
**It is expected that the entire SCS assembly will be provided for use in general arrangements.**
2. Are there existing drawings that document as-built conditions of the plant for use in this project, including mechanical steam and hydronic piping and support, electrical, structural, and architectural information?  
**There are limited original architectural drawings, some mechanical and boiler layouts and very limited structural. They will be made available but they are not comprehensive. Exploratory investigation will be required for all disciplines.**
3. Is the remainder of the existing plant systems 3D modeled in Revit for use in the BOP project system routing?  
**No, unknown if MBJ uses Revit as part of their Plant-external piping design.**
4. What is the estimated capital expenditure for the project?  
**Unknown until a design has been presented for pricing.**
5. Have piping support analyses been completed on the steam and hydronic portion upstream from the BOP connection points?  
**The new steam and hydronic piping supports *outside* the plant walls are designed by MBJ. The piping internal to the SCS assembly boundary is by Campbell-Sevey. All piping defined as in-scope in the RFP schematic will require support analyses by this consultant. Including:**
  - **Steam header (inside the plant) and individual steam train supports serving the SCS**
  - **The service catwalk for those steam trains**
  - **ALL water piping (including the water headers connected to the SCS)**
  - **Pumps**
  - **Expansion tanks**
  - **Piping extensions to the Hotel and DECC loops (including any portions that might be external to the Plant – this routing design TBD by this Consultant)**
6. Will any of the equipment be procured for the City of Duluth/DES, such as the pumps, or is it all to be purchased by the bidding contractor in the construction phase? For any equipment procured by the City, will a procurement specification in addition to equipment sizing be required from the design team?  
**All material items will be procured by Contractor.**
7. Is there capacity in the existing controls system controllers for the BOP pumps? Is the controls for the pump VFDs (wiring, software, programming, hardware) to be part of the BOP scope?  
**There is no effective integrated existing 'control system'. The SCS vendor will provide a control panel for SCS operations. This Consultant will interface with that system via a separate control panel or, potentially, integrating with their panel altogether.**
8. Do the drawings need to be certified by a registered Professional Engineer/Architect?  
**Yes.**

9. Is there any scope associated with permitting the project, either the piping system design or any potential building addition?

**Unsure, but you may exclude this from your scope.**

Please acknowledge receipt of this Addendum by including a copy of the Addendum in your proposal.

Posted: **November 5, 2019**