Purchasing Division
Finance Department

Room 120
411 West First Street
Duluth, Minnesota 55802

218-730-5340
purchasing@duluthmn.gov

Addendum 1
Solicitation 24-0500
RFP for Engineering Svcs to Redesign Boiler System for New Fuel

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. The pre-proposal conference sign-in sheet has been uploaded to the City website at https://www.duluthmn.gov/purchasing/bids-request-for-proposals/ under solicitation 24-0500.
2. All exhibits identified in the Q&A section below are uploaded to the City website in the same location as item #1 above.
3. In order to simplify maintenance, the City prefers that new equipment be similar to existing boilers.

Questions asked during the solicitation period and the pre-proposal conference are answered in *italics* below:

1. Is there a list of demolition equipment inside and outside the plant that will go along with removing the coal systems?
    a. *Coal piping will need to be removed to make space available for the conversion. The bunker, baghouse, and mills will likely be demolished by DES staff.*
2. Will each of the four boilers have an OEM representative? What about the burners?
    a. *Boilers were manufactured by Edgemoor in 1932 and have been in operation since September 1932. See Exhibit 1 Boiler Vessel Identification. There is no longer an OEM representative. Burners were manufactured by The Strong Scott Manufacturing Company according to Exhibit 2 Boiler Side View drawing. See also Exhibits 9 and 9a for a drawing of the inside burner of boilers 2 and 3, and a picture of both burners.*
3. Is there stack test data available for existing boilers and stack test permit requirements that have to be met at the end of the modification?
    a. *See Exhibit 4 2019 permit. An application for renewal has been submitted, but not yet received.*
4. When converting to fuel oil, do you already have a specific fuel oil?
    a. *Currently, #2 fuel oil is used for ignition and the plan is to also use it as a backup fuel.*
5. Two boilers don't have natural gas; all four will get fuel backup. Is there site utility work to expand that? Or is there an assumption that there's enough capacity?

    a. *There is enough capacity with three boilers. The fourth boiler is for redundancy purposes.*
6. Are all four boilers currently operational?
    a. *Yes.*
7. Are the original OEM drawings for each boiler available with tube layouts, existing burners and dimensional details?
    a. *See Exhibits 2 and 3 for side and front view drawings. All four boilers are the same.*
8. Does the City have a contract for maintaining burners?
    a. *Ever-Green Energy has the management agreement for DES, and performs all yearly maintenance. Support is provided by System Tech Services (STS), and shell or tube repairs is typically completed by Jamar boiler makers.*
9. Do boilers produce only hot water or also steam?
    a. *Boilers only produce steam. The steam goes into a heat exchanger for the hot water.*
10. Does the natural gas have to be pre-heated before it goes into the boiler?
    a. *The gas is at 30 psi going into the plant and does not need to be preheated.*
11. Will there be some water treatment skids to pre-treat water?
    a. *All water is softened through a softener, and treatment is injected into the feedwater.*
12. Is it correct that distribution past the boilers is not part of the scope of this project?
    a. *Yes, it's only the boilers within the plant.*
13. Are you seeking to expand hot water/steam production capacity?
    a. *No, we are not looking to expand capacity.*
14. Are you looking at all options for fuel oil storage?
    a. *We are looking for on-site recommendations from delivery to storage to boilers as part of this scope.*
15. Can you forward any controls diagrams and specs? What would new controls look like? How much of the existing controls do you want to keep?
    a. *Please see Exhibits 5 and 6 for controls diagrams and specs for boilers 2 and 3, which have already been converted to natural gas. The existing controls on boilers 1 and 4 were for burning coal and will need to be replaced.*
16. Is there any electrical gear to be replaced due to the age of the facility?
    a. DES has all new electrical panels. An electrical contractor would need to install circuits, but there is available capacity.
17. Will the on-site generator need to be expanded or modified with this project.
    a. No. The load for the boiler conversion is a small electrical load. We have plenty of space available and the generator is a 1MW size capable of handling an outage.
18. On the plans, there are existing fuel oil tanks and pumps. What's the existing storage for and would it connect with current system.
    a. The generator has a 2000-gallon storage tank on it, but we would like to cross connect into the new fuel storage tank.
19. Would the City or consultant organize emission/air permits? Please define what you're

looking for regarding permit efforts from consultant.

   a. *Consultant should identify future permitting requirements for this project.*

20. You're looking for operations to continue under the existing permit. How does a consultant verify that?

   a. *The existing permit is Exhibit 4. Additionally, please see Exhibits 7 and 8 for the emissions report and the emissions testing frequency.*

21. Will structures and systems adjacent to the boilers be reworked? How does that affect remaining systems that may need to be rerouted?

   a. *Currently the coal storage area will stay, but over time DES would remove any existing coal storage equipment. Any system that may need to be rerouted should be determined by the awarded proposer.*

22. Any thoughts on a future of the system, or potential expansions?

   a. *There is a five-year plan on the Duluth Energy Systems' website https://www.duluthenergysystems.com/. The plant has capacity for infill development already, so there is no plan to expand.*

23. Is there a preferred format structure or bid form for the Cost Submittal?

   a. *No preferred format.*

24. Is there a page limit for the Technical Submittal? If so, do resumes or project profiles count toward the page limit?

   a. *No page limit*

25. Should the Cost Submittal include a price for construction administration during the bidding and construction periods or should T&M rates be provided for those periods? If pricing is to be provided, what assumptions should be included for number of meetings, number of site visits, etc.?

   a. *This proposal is only for design, specifications and bid package preparation.*

Please acknowledge receipt of this Addendum by including a copy of it with your proposal. The pages included will not count toward any page limitation, if any, identified in the RFP.

Posted: **August 22, 2024**