



Request for City Council Committee Action From the Department of Public Works

Date: September 19, 2002
To: Transportation and Public Works Committee
Referral to: Ways & Means Committee

Subject: Columbia Heights Membrane Filtration Plant - Ultrafiltration Equipment
Delivery Schedule

Recommendation:

Authorize execution of amendment to contract with Ionics, Inc. (Change Order #1), changing the time period for "Unit delivery." No other deadlines will be changed. The project price will not change. City agreement number C-17885. Funds are available under Fund/Agency/Org/Project (7400/ 950/ 9515/ C5200021).

Previous Directives:

On November 21, 2001, the City Council accepted the bid of Ionics, Inc. for this project (O.P. #5549), and authorized the development of the original agreement for this project.

Prepared or Submitted by: Adam J. Kramer, Director of Water Works, Tel. 2418
Approved: David J. Sonnenberg, P. E., City Engineer, Director of Public Works
By: Adam J. Kramer _____
Presenters in Committee: David J. Sonnenberg, P. E., City Engineer, Director of Public Works

Financial Impact (Check those that apply)

No financial impact - or - Action is within current department budget.
(If checked, go directly to Background/Supporting Information)

- Action requires an appropriation increase to the Capital Budget
- Action requires an appropriation increase to the Operating Budget
- Action provides increased revenue for appropriation increase
- Action requires use of contingency or reserves
- Other financial impact (Explain):

Request provided to the Budget Office when provided to the Committee Coordinator

Community Impact (use any categories that apply)

- Neighborhood Notification
- City Goals
- Comprehensive Plan
- Zoning Code
- Other

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Continued

Background/Supporting Information

The Minneapolis Water Works (MWW) Capitol Improvement Plan includes building a new 70-Million Gallon per Day (mgd) Water Treatment Plant using Ultrafiltration Membranes as the treatment technology. This new plant, called the Columbia Heights Membrane Filtration Plant (CHMFP) will replace the existing Columbia Heights Filtration Plant (CHFP) which was mostly constructed in the period from 1913 to 1919.

The MWW, with the technical assistance of the Engineering Consulting firms of HDR Engineering, Inc. and Malcolm Pirnie, Inc., conducted a treatment feasibility study for the MWW. The team recommended the construction of two new membrane filtration plants, one at CHFP site, and the second near the existing Fridley Filtration Plant (FFP) site. The recommendation was reviewed by a Value Engineering study (conducted by experts from six top environmental engineering consults), and the Citizen's Advisory Committee (including Minneapolis residents, state health experts, and suburban customers). All concurred with the selection of the proposed membrane filtration technology.

The project will be done in stages. Phase One (bids for procurement of the membrane equipment for CHMFP through evaluation by performance testing of capacity, energy efficiency, life-cycle costs, and design parameters) resulted in the selection of Ionics, Inc. as the ultrafiltration equipment supplier. A detailed description of phase one bid process was included in the "Request for City Council Committee Action" to the "Transportation & Public Works Committee" dated November 7, 2001.

Other phases of the overall plan include design and construction of the CHMFP building system to house the UF equipment (design underway), engineering and procurement of the membrane equipment for the 90-mgd Fridley Membrane Filtration Plant (FMFP), and design and construction of the FMFP building system. The overall plan also includes evaluation of treatment enhancements to optimize membrane life span such as the addition of granular activated carbon. The primary objective of the overall plan is to provide physical removal of pathogenic microorganisms.

Current Request

Ionics, Inc. has requested a clarifying change in the delivery schedule as outlined in the procurement specification by HDR Engineering, Inc. The revised schedule will read: "Ionics will deliver 36 UF skids prior to August 31, 2003 (original deadline). Additional skids beyond 36 will be delivered after August 31, 2003 but before September 30, 2003."

MWW and HDR have determined that the request will have no appreciable effect on the overall project schedule. The current intention is to procure 36 skids. MWW requests authorization from the City Council to execute documents to implement this change in agreement language.