



## Legislation Text

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**File #:** 0525-2012, **Version:** 1

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**1. BACKGROUND:** This Ordinance authorizes the Director of Public Utilities to modify and increase the professional engineering services agreement with Burgess and Niple, Inc. for the Hap Cremean Water Plant (HCWP) Treatment Improvements - Detailed Design Project, for the Division of Power and Water Contract No. 1151.

Work under the original agreement (EL010296, Contract No. 1151, CIP No. 690430-100001) included engineering services for preliminary and detailed design of additional treatment processes that were results of pilot studies conducted prior to design under Auditor's Contract EL006582 (Contract No. 1078, CIP No. 690430-100000).

Under the original agreement, the design team encountered numerous issues with the existing plant that affected the implementation of the new treatment process requiring additional design services that were not anticipated in the original scope of services. This current agreement modification is to perform these additional design services, which consist of:

- Design modifications required for full truck spill containment for new sodium hydroxide system.
- Conduct an evaluation of a system interconnect joining A and B plants, prior to filtration.
- Design a new filter underdrain system including demolition of existing underdrains. Upgrade filter control consoles with local operator interface terminals at each filter.
- Design a pair of additional post-chlorination feed points among the clearwells including new injection and sampling systems with enclosures. Design demolition of existing pre-chlorination feed lines.
- Design connection to existing distribution system for cooling water system to serve the new ozone facilities. This shall include design of approximately 1,600 linear feet of pipeline. Conduct additional surveying of proposed routing of this line.
- Incorporate electrical switchgear monitoring and design electrical improvements associated with an exterior sanitary lift station.
- Design an extension of the fiber optic network to more closely achieve plant-wide form.
- Design replacement of waste backwash effluent gates and valves and two backwash rate of flow control valves.
- Assist in the Professional Construction Management Programming Team (Contract No. EL011123) in developing standards and programming across Division of Power and Water for Instrumentation and Control to be utilized on this project.

This agreement modification (No. 1) will be an extension of the detailed design services to address those issues.

**1.1 Amount of additional funds to be expended: \$452,000.00**

Original Agreement Amount:	\$4,259,792.00 (EL010296)
Modification 1 (current)	\$ 452,000.00
Total (Orig. + Mod. 1)	\$4,711,792.00

**1.2. Reasons additional goods/services could not be foreseen:**

As indicated in the original agreement legislation (Ord. #0403-2010, it was the City's intent to have the selected firm perform engineering services during construction as an agreement modification to Auditor's Contract No. EL010296 (Contract No. 1151, CIP No. 690430-100001).

During the preliminary and detailed design phase, the design team encountered numerous issues with the existing plant that affected the implementation of the new treatment process requiring additional design services that were not anticipated in the original scope of services.

This current agreement modification was not originally anticipated and is to perform these additional design services.

**1.3. Reason other procurement processes are not used:**

Burgess & Niple, Inc. has been performing the design development of this highly technical plant modification for over a year and is intimately involved in the preparation of the plant improvement. It would take another Consulting/Engineering firm a considerable amount of time and cost to become familiarized with the intricate infrastructure of this plant upgrade before conceptualizing a seamless integrated design.

**1.4. How cost of modification was determined:**

Burgess & Niple, Inc. prepared and submitted a detailed estimate of cost to complete needed services. City project management staff reviewed and approved these cost summaries.

**2. ECONOMIC IMPACT/ADVANTAGES; COMMUNITY OUTREACH; PROJECT DEVELOPMENT; ENVIRONMENTAL FACTORS/ADVANTAGES OF PROJECT:** This project is necessary to comply with new rules promulgated by the Ohio Environmental Protection Agency. The Hap Cremean Water Plant is an essential and integral component in the Columbus area water supply and treatment infrastructure. Adequate supply of water is essential to economic growth and development. As this is a secure site on property owned by DPU no community outreach or input was sought in the development of the project. The consultant team selected has indicated a corporate philosophy of environmental conservation and sustainable business practices. Where practical LEED practices will be implemented for the new building that will be constructed as part of this project.

**3. CONTRACT COMPLIANCE INFO:** 31-0885550, expires 11/26/12, Majority

Searches in the Excluded Party List System (Federal) and the Findings for Recovery list (State) produced no findings against Burgess and Niple, Inc.

**4. FUTURE AGREEMENT MODIFICATION:** A final agreement modification will be sought following this agreement modification for services to be performed by Burgess & Niple, Inc. and their sub-consultants during the construction phase of this project. An agreement modification for this service has been planned since the inception of the original agreement and is referenced in the original agreement legislation Ord. No. 0403-2010. Scope of services and costs for the final agreement modification are under development at this time.

**5. EMERGENCY DESIGNATION:** It is requested that this Ordinance be handled in an emergency manner in order as the proposed improvements will require reduction in treatment capacity for a portion of the construction which must be timed to coincide with seasonal periods of lower water usage. To accommodate these seasonable construction periods there is a tight timeline to complete the design work and bid for construction services.

**6. FISCAL IMPACT:** A transfer of funds within the Water Works Enlargement Voted Bonds Fund will be necessary, as well as an amendment to the 2011 Capital Improvements Budget.

To authorize the Director of Public Utilities to modify and increase the professional engineering services agreement with Burgess and Niple, Inc. for the Hap Cremean Water Plant (HCWP) Treatment Improvements - Detailed Design Project; for the Division of Power and Water; to authorize a transfer and expenditure up to \$452,000.00 within the Water Works Enlargement Voted Bonds Fund; to amend the 2011 Capital Improvements Budget; and to declare an emergency. (\$452,000.00)

**WHEREAS,** Contract No. EL010296 with Burgess and Niple, Inc. was authorized by Ordinance No. 0403-2010, passed April 5, 2010, was executed on May 5, 2010, and approved by the City Attorney on May 10, 2010; and

**WHEREAS,** a modification to the agreement is necessary in order to provide additional design services that were not

anticipated in the original scope of services; and

**WHEREAS**, it is necessary for this Council to authorize the transfer and expenditure of funds within the Water Works Enlargement Voted Bonds Fund, for the Division of Power and Water; and

**WHEREAS**, it is necessary to authorize an amendment to the 2011 Capital Improvements Budget for the purpose of providing sufficient spending authority for the aforementioned project expenditure; and

**WHEREAS**, an emergency exists in the usual daily operation of the Department of Public Utilities, Division of Power and Water, in that it is immediately necessary to authorize the Director of Public Utilities to modify and increase the professional engineering services agreement with Burgess and Niple, Inc., for the Hap Cremean Water Plant (HCWP) Treatment Improvements - Detailed Design Project, in an emergency manner as these improvements are on a tight timeline to meet new Ohio EPA regulations and portions of the construction will require a reduction in treatment capacity, in which the Division will need to accommodate during periods of lower water usage, for the immediate preservation of the public health, peace, property, safety and welfare; now, therefore,

**BE IT ORDAINED BY THE COUNCIL OF THE CITY OF COLUMBUS:**

**SECTION 1.** That the Director of Public Utilities is hereby authorized and directed to modify and increase the professional engineering services agreement with Burgess and Niple, Inc. for the Hap Cremean Water Plant (HCWP) Treatment Improvements - Detailed Design Project, in the amount of \$452,000.00.

**SECTION 2.** That this agreement modification is in compliance with Section 329.16 of Columbus City Codes, 1959.

**SECTION 3.** That the City Auditor is hereby authorized to transfer \$452,000.00 within the Department of Public Utilities, Division of Power and Water, Water Works Enlargement Voted Bonds Fund, Fund No. 606, Dept/Div. No. 60-09, Object Level Three 6686, as follows:

**Fund No. | Project No. | Project Name | OCA Code | Change**

606 | 690425-100000 (carryover) | Hines Rd. Storage Tank | 642900 | -\$452,000

606 | 690430-100001 (carryover) | HCWP Det. Design | 664301 | +\$452,000

**SECTION 4.** That the 2011 Capital Improvements Budget is hereby amended as follows:

**Fund No. | Proj. No. | Proj. Name | Current Authority | Revised Authority | Change**

606 | 690425-100000 (carryover) | Hines Rd. Storage Tank | \$4,862,757 | \$4,410,757 | -\$452,000

606 | 690430-100001 (carryover) | HCWP Det. Design | \$0 | \$452,000 | +\$452,000

**SECTION 5.** That the expenditure up to \$452,000.00 is hereby authorized for the Hap Cremean Water Plant (HCWP) Treatment Improvements - Detailed Design Project within the Water Works Enlargement Voted Bonds Fund, Fund No. 606, Division 60-09, Project No. 690430-100001 (carryover), Object Level Three 6686, OCA Code 664301.

**SECTION 6.** That the City Auditor is hereby authorized and directed to transfer any unencumbered balance in the project account to the unallocated balance within the same fund upon receipt of certification by the Director of the Department administering said project that the project has been completed and the monies no longer required for said project; except that no transfer shall be made from a project account by monies from more than one source.

**SECTION 7.** That the City Auditor is authorized to establish proper project accounting numbers as appropriate.

**SECTION 8.** That the City Auditor is authorized to make any accounting changes to revise the funding source for all agreements or agreement modifications associated with this Ordinance.

**SECTION 9.** That for reasons stated in the preamble hereto, which is hereby made a part hereof, this Ordinance is

declared to be an emergency measure and shall take effect and be in force from and after its passage and approval by the Mayor, or ten days after passage if the Mayor neither approves nor vetoes the same.