

O’Shaughnessy Dam Hydroelectric Facilities-FERC Independent Consultant Inspection
CIP No. 690251-100000, Contract No. 2024

Information to be included in all Legislation Modifying a Contract:

1. **The names, contract compliance no. & expiration date, location by City/State and status of all companies (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR) submitting a competitive bid or submitting an RFP or RFSQ.**

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>DAX No.</u>	<u>City/State</u>	<u>Status</u>
Burgess & Niple, Inc.	31-0885550 - 2/4/18	004425	Columbus/OH	MAJ
Tetra Tech	95-4148514 – expired	010943	New Albany/OH	MAJ
DLZ Ohio, Inc.	31-1268980 – 1/13/19	004939	Columbus/OH	MBR

2. **What type of bidding process was used (ITB, RFP, RFSQ, Competitive Bid).**

Requests for Proposals (RFP’s) were opened on 9/26/14.

3. **List the ranking and order of all bidders.**

1. Burgess & Niple, Inc.
2. Tetra Tech
3. DLZ Ohio, Inc.

4. **Complete address, contact name, phone number, and e-mail address for the successful bidder only.**

Burgess & Niple, Inc.
5085 Reed Road
Columbus, Ohio 43220
Ms. Robbie Cameruca, (614) 459-2050, robbie.cameruca@burgessniple.com
EL016811

5. **A description of work performed to date as part of the contract and a full description of work to be performed during any future phasing of the contract. The planning area should also be listed as well as any street or neighborhood names.**

The purpose of this project is to provide full-service assistance to the City for the investigation, inspection and safety evaluation, and design of improvements for the O’Shaughnessy Dam Hydroelectric Project for the Seventh Independent Consultant’s Part 12D Safety Inspection, for the Department of Public Utilities, Division of Water (DOW).

The Columbus Division of Water (DOW) owns and operates a high hazard dam, water supply reservoir and hydroelectric power generating plant on the Scioto River near Shawnee Hills, Ohio known as the O’Shaughnessy Dam Hydroelectric Project, Federal Energy Regulatory Commission (FERC) Project No. P-2943, NID No. OH00751. As a condition for continued operation in accordance with the Federal Power Act, DOW must commission periodic inspections of the project by a qualified Independent Consultant as defined in CFR Title 18, Part 12, Sub-part D. The work for which proposals are sought consists of the performance of one such periodic inspection in fulfillment of FERC requirements as outlined in **CFR TITLE 18, PART 12, SUB-PART D**. CFR TITLE 18, PART 12, SUB-PART D can be found at the Federal Energy Regulatory Commission website (www.ferc.gov).

Work performed to date under the initial contract authorization includes investigation and inspection services, preparation of an inspection report and submission of said report to the FERC. The inspection report identified several safety related items that need to be addressed under a subsequent design effort. Ongoing work initiated under the initial contract includes Hydraulic and Hydrologic evaluations.

The initial contract modification No. 1 provided funding for engineering design services to address an immediate safety concern identified under the investigation and inspection work that was a small isolated design project related to the access road to the dam.

This contract modification No. 2 provides funding for engineering design services to address the safety related items identified under the investigation and inspection work. The design work for modification No. 2 encompasses the concrete structure of the dam and the flashboards on top of the dam. The design work related to the flashboards is required by FERC as anticipated in the legislation for Modification No. 1.

Note this facility is outside the corporate limits of the City of Columbus and does not have an associated planning area.

6. An updated contract timeline to contract completion.

The contract was initiated in April 2015 to authorize the Independent Consultant Inspection services, which have been completed. Additionally included in the initial contract were Hydraulic and Hydrologic evaluations, which have been completed to the extent possible; it was determined that completion of these evaluations was cost prohibitive at this time and is not currently planned to be completed under the current contract.

Immediate safety concern Detailed Design (Mod #1): design work has been completed, it is anticipated the project will advertise for construction in April 2017 with work completed by December 2017.

FERC required Detailed Design & bidding services (this Mod): expected to commence 2nd Qtr. 2017 and end in 2018

FERC required Detailed Design (alternative flashboard design), & bidding services and Services During Construction (Future Mod): if needed is expected to commence 4th Qtr. 2017 and end in 2019

Services during construction for FERC required Detailed Design (if alternative flashboard design is not required), commence 3rd Qtr. 2018 and end in 2019

7. A narrative discussing the economic impact or economic advantages of the project; community outreach or input in the development of the project; and any environmental factors or advantages of the project.

The O'Shaughnessy Dam is a significant component in the City of Columbus water supply for the Dublin Road Water Plant. This inspection is a mandated regulatory requirement for continued operation of this facility.

The dam is considered "secure infrastructure" by the Department of Homeland Security and no public input is solicited for this work.

The design consultant has committed to collaborate with the City on incorporating elements in the project, where possible, to help meet the goals of the Mayor's Get Green Columbus 2010 initiative.

8. A description of any and all modifications to date including the amounts of each modification and the Contract Number associated with any modification to date. (List each modification separately.)

Modification No. 1, PO003170, \$61,700.00

Professional services necessary to prepare plans and specifications for the Power Plant Access Road Drainage Improvements, a Revised Normal Pool Stability Analysis for O'Shaughnessy Dam and perform a downstream survey of the eroded bedrock areas that require remedial measures. These projects are follow-up activities to recommendations contained in the Seventh Independent Consultant Safety Inspection Report for the Dam and Hydroelectric Plant prepared by Burgess & Niple for submission to the Federal Energy Regulatory Commission (FERC).

9. A full description of the work to be performed as part of the proposed contract modification. (Indicating the work to be a logical extension of the contract is not sufficient explanation.)

The work for this project includes the professional services necessary to prepare plans and specifications for the Downstream Erosion Control Improvements, additional Flashboard Failure Stability Analysis, Flashboard Redesign, Vertical Joint Leakage Repair, and two additional alignment surveys for O'Shaughnessy Dam. These projects are follow-up activities to recommendations contained in the Seventh Independent Consultant Safety Inspection Report for the Dam and Hydroelectric Plant prepared by Burgess & Niple, Inc. (B&N), as well as follow-up analyses performed in Modification No. 1 to that work.

A future contract modification may be required for detailed design of alternative flashboard systems including inflatable-type flashboards. Flashboard redesign is required; it will either be performed under the current contract if a fixed flashboard redesign is chosen or under a future contract modification if an operable flashboard design is chosen. A future contract modification will be required for services during construction.

10. If the contract modification was not anticipated and explained in the original contract legislation a full explanation as to the reasons the work could not have been anticipated is required. (Changed or field conditions is not sufficient explanation. Describe in full the changed conditions that require modification of the contract scope and amount.)

The contract modification was anticipated and was identified in the original authorizing legislation, Ordinance No. 0215-2015 as well as the Director's Information Sheet attached to that legislation.

11. An explanation of why the work to be performed as part of the contract modification cannot be bid out. (Indicating the work to be a logical extension of the contract is not sufficient explanation.)

The work being performed was anticipated with the original authorizing legislation. The original contract was to perform an independent inspection of the O'Shaughnessy Dam and Hydroelectric Facility and submit a report to FERC. Any corrective measures required either due to emergency corrective measures or FERC requirements identified during that inspection were to be designed under a modification to the contract. This current modification is to address design improvements required by FERC following their review of the report.

12. A cost summary to include the original contract amount, the cost of each modification to date (list each modification separately), the cost of the modification being requested in the legislation, the estimated cost of any future known modifications and a total estimate of the contract cost.

Cost summary:

Original Contract	\$130,000.00 (EL016811)
Modification No. 1	\$ 61,700.00 (PO003170)
Modification No. 2 (current)	\$270,000.00
Future Anticipated Needs	\$150,000.00 (detailed design flashboard option)
Future Anticipated Needs	<u>\$200,000.00 (services during construction)</u>
CONTRACT TOTAL	\$811,700.00

13. An explanation of how the cost of the modification was determined.

The Consultant prepared a detailed estimate of cost per task for remaining scope of work, broken down by project task. City Project management staff reviewed and approved these cost summaries.