



AGENDA MEMORANDUM

First Reading Item for the City Council Meeting of October 14, 2014
Second Reading Item for the City Council Meeting of October 21, 2014

DATE: September 25, 2014

TO: Ronald L. Olson, City Manager

THRU: Gustavo Gonzalez, P.E., Assistant City Manager, Public Works and Utilities
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Engineering Contract
Choke Canyon Dam
Spillway Gate Rehabilitation

CAPTION:

Ordinance approving and appropriating a transfer of \$4,300,000 from the Unreserved Fund Balance in No. 4050 Choke Canyon Fund Account No. 251400 Reserve for Choke Canyon Maintenance into Water CIP Fund 4080 for Project No. E14043 Choke Canyon Dam Spillway Gate Rehabilitation; amending the FY2014-2015 Operating Budget adopted by Ordinance No. 030294 to increase expenditures in the amount of \$4,300,000; and authorizing the City Manager or designee to execute the engineering contract with Freese and Nichols, Inc. of Corpus Christi, Texas in the amount of \$381,220 for the Choke Canyon Dam Spillway Gate Rehabilitation for design, bid, and construction phase services.

PURPOSE:

The purpose of this agenda item is to obtain authority to transfer funds to the Choke Canyon Dam Spillway Gate Rehabilitation project and execute the Freese and Nichols, Inc. contract for the Choke Canyon Dam Spillway Gate Rehabilitation.

BACKGROUND AND FINDINGS:

Choke Canyon Dam is located in south Texas on the Frio River four miles west of Three Rivers, Texas and approximately 90 miles northwest of the City of Corpus Christi. The dam is comprised of a zoned earthen embankment, a reinforced concrete spillway with seven spillway gates, and an outlet works structure near the center of the dam. Construction of the dam and appurtenant structures, including spillway, occurred between 1976 and 1982. The gates have never been fully recoated since then.

In 2013, an inspection of the spillway gates and upstream stoplog slots was performed by Freese and Nichols, Inc. (FNI). Based on observations from the inspection, rehabilitation of the spillway gates including recoating 7 spillway gates, placing new water tight seals, structural and miscellaneous modifications, and stoplog slot resurfacing is needed to increase the useful life of the structure and prevent future corrosion and subsequent section loss and connection deterioration and prevent risk of costly future repairs. The design of these improvements will be done in coordination with, and according to the requirements of the United States Bureau of Reclamation.

This project includes engineering design of repair and improvements for the Choke Canyon Dam Spillway Gate Rehabilitation, to include:

- Design of engineered repairs and improvements to the spillway gates and stoplogs at Choke Canyon Dam.
- Creation of a construction package, to include construction plans, specifications, and other contract documents to allow the City to procure a contractor to perform the necessary rehabilitation, including United States Bureau of Reclamation /Texas Commission on Environmental Quality coordination.
- Construction Phase services, to include contractor coordination, inspection, and record drawings.

FNI is an engineering firm that is renowned nationwide for its expertise in dam design and consulting services, and have been providing quality professional services at the City's Wesley Seale Dam and Choke Canyon Dam since 1990s. FNI was awarded the Choke Canyon Spillway Gate Rehabilitation in 2003 under City Project No. 8411, but the City has been waiting over 8 years for the lake levels to fall low enough to facilitate this work, as the upstream portions of the work (stoplogs) can only be accomplished during low lake levels.

ALTERNATIVES:

1. Authorize the execution of the engineering contract.
2. Do not authorize the execution of the engineering contract. (Not Recommended)

OTHER CONSIDERATIONS:

This project will use unreserved fund balance. The engineering design service is approximately 5.8 % of the construction estimate.

CONFORMITY TO CITY POLICY:

Conforms to City Fiscal Policy

EMERGENCY / NON-EMERGENCY:

Non-Emergency

DEPARTMENTAL CLEARANCES:

Utilities Department

FINANCIAL IMPACT:

Operating Revenue Capital

Fiscal Year 2014-2015	Project to Date Expenditures	Current Year	Future Years	TOTALS
Line Item Budget		\$4,300,000.00		\$4,300,000.00
Encumbered / Expended Amount				
This Item		\$381,220.00		\$381,220.00
Future Anticipated Expenditures This Project		\$3,535,000.00		\$3,535,000.00
BALANCE		\$383,780.00		\$383,780.00

Fund(s): Choke Canyon Fund

Comments: This project requires approximately 970 calendar days with anticipated completion June 2017. The contract will result in the expenditure of an amount not to exceed \$381,220.

RECOMMENDATION:

City Staff recommends approval of the Ordinance as proposed.

LIST OF SUPPORTING DOCUMENTS:

Ordinance
Project Budget
Location Map
Contract
Presentation