



AGENDA MEMORANDUM

Action Item for the City Council Meeting of September 19, 2023

DATE: September 19, 2023

TO: Peter Zanoni, City Manager

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<p style="text-align: center;"><u>Professional Services Contract</u> Gas Cathodic Protection Upgrades (Phase I)</p>

CAPTION:

Motion authorizing a professional services contract to Corrpro Companies, Inc., Houston, Texas, to provide field investigations, compile and review system data, program development, and review current standards for Gas Cathodic Protection for citywide gas systems in an amount not to exceed \$148,000.00 located Citywide with FY 2023 funding available from Gas Capital Fund.

SUMMARY:

This motion authorizes approval of a professional services contract to conduct field investigations, compile and review system data, program development and review current standards for future installation of cathodic protection to protect and extend the useful service life of citywide gas mains.

BACKGROUND AND FINDINGS:

The city's gas mains have been in service for over 50 years. It is estimated that 60% of city's gas mains are steel service lines. The city's gas mains consist of 1-1/4 inch to 16-inch pipes that stretch 1600 miles of mains, and 900 mile of steel mains. There are approximately 64,000 meters and 5000 circuits citywide. The gas system has a lot of isolated circuits, and most are on sacrificial systems. 99% of the city's steel mains are on sacrificial anodes, out of those most of

the rectifiers are on transmission lines. The current anodes are connected through test stations.

Cathodic protection works by placing an anode or anodes (external devices) in an electrolyte to create a circuit. As a result, current flows from the anode through the electrolyte to the surface of the structure. Corrosion moves to the anode to stop further corrosion of the metal to be protected. The city currently has 22 districts with a total of 4,265 read points and test stations where staff monitors the status of current protecting mains with sacrificial magnesium anodes.

This professional services agreement (Phase I) provides services for field investigations, compiling and reviewing of current system data, program development and review of current standards. There will be a Phase II that will be back to council for consideration to address findings from phase I, design phase services, construction phase services, and systems commissioning.

PROJECT TIMELINE

2023 - 2024
September - February
Pre-Design (Phase I)

COMPETITIVE SOLICITAION PROCESS:

Corrpro Companies, Inc., was selected in May 2023 under RFQ No. 4413 for Gas Cathodic Protection Upgrades project. Three firms submitted under the Gas CIP RFQ, and Corrpro companies Inc., was one of the highest ranked firms.

The selection committee was comprised of representatives from the gas department and engineering services. The final evaluation ranted Corrpro as the highest ranked firm based on eight factors: 1) Experience on projects of similar scope and complexity, 2) Demonstrated capacity & capacity on comparable projects. 3) Past Performance, 4) Team members with experience and qualifications, 5) Team members experience with work of similar scope and complexity, 6) Availability of Resources to accomplish the work, 7) Demonstrated understanding of scope of services, 8) Demonstrated understanding and experience with similar service with a public agency.

Corrpro Companies, Inc. has over 35 years of experience in corrosion prevention and has successfully completed several cathodic protection projects. Past projects include Corrosion Prevention and Rehabilitation and Drinking Water Operations; Design-Build Water Tank Cathodic Protection System for the City of Houston, Pipeline Improvement Initiative (PII Program) Study-Design-Build Cathodic Protection and Stray Current Mitigation system for Exxon Mobile, and currently working on the South Side Transmission main cathodic protection project for the city of Corpus Christi.

ALTERNATIVES:

Council could choose not to award professional services contract. Not awarding the contract will delay necessary cathodic protection improvements to gas system cathodic protection upgrades causing premature failures and reduce the useful service life of the gas mains citywide.

FISCAL IMPACT:

The fiscal impact for FY 2023 is in amount not-to-exceed \$148,000.00 with funding available from the Gas Capital Fund.

Fund: Gas Department 2023 CIP (Fund 4562)
Department: Gas Department (11)
Org: Grants and Capital Projects (89)
Account: Outside Consultants (550950)
Activity: E13022-01-4562-EXP
Amount \$148,000.00

RECOMMENDATION:

Staff recommends approval of the professional services contract with Corrpro Companies, Inc. in an amount not-to-exceed \$148,000.00 for Phase I of the Gas Cathodic Protection Upgrades. The preliminary phase (Phase I) will begin in September 2023 with preliminary phase to be completed planned by February 2024. Phase II of this contract will be back for council consideration to present findings/recommendations from Phase I to begin the design, construction phase services, system commissioning, and training.

LIST OF SUPPORTING DOCUMENTS:

Location & Vicinity Maps
Evaluation Matrix
Contract
CIP Page
Power Point Presentation