

Agenda Report

April 28, 2008

To: CITY COUNCIL

From: CITY MANAGER

Subject: Authorize the City Manager to Enter into a Contract with Civiltec Engineering Inc. for the Design of a Water Disinfection Facility at Windsor Reservoir for Pasadena Water and Power, and for Management of the Construction Phase of the Project Should the Project be Approved

RECOMMENDATION

1. It is recommended that the City Council authorize the City Manager to enter into a contract with Civiltec Engineering Inc. (Civiltec) for the engineering design of a disinfection facility at Windsor Reservoir for Pasadena Water and Power, and for management of the construction phase of the project should the project be approved, for an amount not to exceed \$190,000.
2. It is further recommended that the City Council grant the proposed action an exemption from the Competitive Selection Process of the Competitive Bidding and Purchasing Ordinance, pursuant to Pasadena Municipal Code section 4.08.049(B) contracts for which the City's best interest are served.

BACKGROUND

The proposed water disinfection facility would be one of two integral treatment systems for four of Pasadena Water and Power's (PWP) groundwater wells located in the Arroyo Seco. These four wells (Arroyo, Well 52, Ventura, and Windsor), referred to collectively as the Monk Hill Wells, are contaminated with perchlorate and volatile organic compounds (VOC). Staff is currently working with the National Aeronautics and Space Administration (NASA) on a proposed treatment system to remove perchlorate and VOC from the well water. The proposed treatment system, known as the Monk Hill Treatment System (MHTS), is funded by NASA since the source of the contaminants is due to past disposal practices at the Jet Propulsion Laboratory. A second process will follow the perchlorate and VOC treatment in order to disinfect the treated water with chloramines prior to discharging the water into Windsor Reservoir for distribution. The entire MHTS is currently in a design process and has not been approved. PWP has prepared and submitted the Conditional Use Permit (CUP) application that will be required to approve the project. It is estimated that the hearing for the CUP will occur this summer.

The current disinfection facility at Windsor Reservoir uses gas chlorine. PWP imports water from Metropolitan Water District of Southern California (MWD), which uses chloramines for disinfection. Mixing of MWD's chloraminated water with local groundwater disinfected with gas chlorine, results in a less effective disinfection. PWP desires to convert the existing gas chlorine facility to a new chloramines disinfection facility to increase the disinfection compatibility of local groundwater with imported MWD water, and to comply with existing and future, more stringent water quality regulations. Converting the existing disinfection facility is PWP's financial responsibility, because this project provides disinfection for well water to inactivate naturally occurring pathogenic organisms in the water. In accordance with the Water Supply Permit from the California Department of Public Health, PWP is responsible for the drinking water disinfection.

PWP requested a proposal only from Civiltec for the design and construction management services for the following reasons:

1. Civiltec is a consultant to NASA and has been the primary designer for the MHTS since 2006. The company is aware of all the details of the MHTS and can better integrate the design of the disinfection facility with the MHTS than a design firm not familiar with the project. Civiltec was chosen from among three firms during a competitive selection for MHTS. NASA has been working with Civiltec since 2004 when the firm was also chosen in a competitive selection for treating the contaminated groundwater "hot spots" below JPL. NASA is pleased with the services and competitive rates provided by Civiltec and recommended them as a designer for the disinfection facility. Based on information from NASA, staff believes Civiltec's prices are fair and competitive.
2. A Conditional Use Permit is required to allow approval of the project. The proposed MHTS and disinfection facility are currently under review for a Conditional Use Permit (CUP) and compliance with the California Environmental Quality Act (CEQA). To help the MHTS project move forward with the City's permits, NASA directed Civiltec to assist PWP staff with the preliminary design: layout of the disinfection system, selection of components, and sizing the building. These details were necessary for the CUP and CEQA documents. As a result, Civiltec is familiar with the disinfection system and other PWP operational requirements and associated water infrastructure involved in the project.
3. PWP contacted Civiltec's references to verify that the consultant had designed similar disinfection facilities. The feedback was positive, confirming the company's experience, technical skills and resources to design the proposed disinfection facility.
4. PWP staff has been coordinating with Civiltec during its development of conceptual design of the disinfection system as part of the work for NASA and is satisfied with their expertise, work quality, ethics, and timely responses.
5. Using Civiltec for construction management will result in better construction coordination of the proposed MHTS and disinfection facility. One firm managing the construction will eliminate redundancy, improve communication, and reduce both time schedule and engineering errors, especially when field changes to one facility, result in changes to the other facility.

Staff believes that seeking services only from Civiltec provides a cost benefit to the City and ensures a more reliable design and installation of the treatment system.


The scope of services to be performed by Civiltec will include design, and, if the project is approved construction management. Total compensation to Civiltec shall not exceed \$190,000 which consists of a base contract amount of \$169,875 and approximately 12 percent contingency due to uncertainties. The total funds required to complete the disinfection project are as follows:

Contract base amount	\$169,875
Contract contingency (12%)	\$ 20,125
Total contract amount	\$190,000


FISCAL IMPACT

Sufficient funds are available in the Water Capital Improvement Program Budget, Account 1031 – Convert Chlorination Stations to Chloramines.

Respectfully submitted,


for Bernard K. Melekian
City Manager

Prepared by:


Roumiana Karakanova
Engineer
Pasadena Water and Power

Approved by:

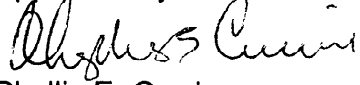

Phyllis E. Currie
General Manager
Pasadena Water and Power

EXHIBIT "3"

Disclosure pursuant to the
City of Pasadena Taxpayer Protection Amendment of 2000
Pasadena City Charter, Article XVII

Contractor/Organization hereby discloses its trustees, directors, partners, officers, and those with more than a 10% equity, participation, or revenue interest in Contractor/Organization, as follows:
(If printing, please print legibly. Use additional sheets as necessary.)

1. Contractor/Organization Name:
Civiltec Engineering, Inc.

2. Name(s) of trustees, directors, partners, officers of Contractor/Organization:

Richard H. Shroads - President
W. David Byrum - Vice President

3. Names of those with more than a 10% equity, participation or revenue interest in Contractor/Organization:

Richard H. Shroads - President
W. David Byrum - Vice President

Prepared by: Diana Occhipinti
Title: Office Manager
Date: April 2, 2008

For office use only: Contract/Transaction No. _____ If not a contract, type of transaction: _____

RHK