City of Arts & Innovation

City Council Memorandum

TO: **HONORABLE MAYOR AND CITY COUNCIL** **DATE: OCTOBER 22, 2019**

FROM: **PUBLIC WORKS DEPARTMENT** **WARDS: ALL**

SUBJECT: **REQUEST FOR PROPOSALS NO. 1860 - PROFESSIONAL CONSULTANT SERVICES AGREEMENT WITH ORSA CONSULTING ENGINEERS, INC., OF FULLERTON, CALIFORNIA, FOR THE RIVERSIDE WATER QUALITY CONTROL PLANT – ELECTRICAL ARC FLASH STUDY PROJECT, IN THE AMOUNT OF $109,850**

ISSUE:

Award a Professional Consultant Services Agreement for the Riverside Water Quality Control Plant – Electrical Arc Flash Study Project to Orsa Consulting Engineers, Inc., of Fullerton, California, in the amount of $109,850.

RECOMMENDATIONS:

That the City Council:

1. Award a Professional Consultant Services Agreement to Orsa Consulting Engineers Inc., of Fullerton, California, for the Riverside Water Quality Control Plant – Electrical Arc Flash Study Project, in the amount of $109,850; and

2. Authorize the City Manager, or his designee, to execute the Professional Consultant Services Agreement and related documents, with Orsa Consulting Engineers, Inc., of Fullerton, California, including making minor and non-substantive changes.

BACKGROUND:

The City's Regional Water Quality Control Plant (WQCP) provides wastewater treatment for the City of Riverside and surrounding communities. It is important that the plant electrical systems are evaluated periodically to ensure proper operation. Federal Occupational Safety and Health Administration (OSHA) regulations address the protection of employees against arc flash hazards. Employers are required to assess the workplace for potential flame and electric arc conditions, identify attainable heat energy exposure from electrical arcs, and ensure employees wear the required personal protective equipment.

Electrical arc flash is the rapid release of heat energy due to an electrical fault. These faults are most prevalent when energizing or de-energizing high-voltage equipment, which can result in a blast of energy, causing excessive heat and fire. The objective of an arc flash analysis is to minimize or mitigate the hazard to electrical service personnel. An arc flash hazard analysis will identify the Arc Flash Protection Boundary, which is the closest approach distance allowed before personal protective equipment (PPE) must be worn. The result of the arc flash study will categorize the hazard at specific equipment based on the incident energy.

DISCUSSION:

National Fire Protection Association (NFPA) 70E Section 130.5 requires that an arc flash risk assessment be performed every five years on all electrical equipment, in order to identify arc flash hazards and estimate the likelihood of an injury occurring. The risk assessment must also determine if additional measures are required to protect workers from any arc flash hazards. An initial Arc Flash Study at the WQCP was completed in 2008, and as part of the Plant Rehabilitation/Expansion Project, an Arc Flash Study was conducted in 2015. The Plant Rehabilitation/Expansion Project Arc Flash Study only included the electrical equipment installed during the plant rehabilitation and expansion construction.

In order to bring both the 2008 and 2015 arc flash studies under one overall comprehensive study, and to comply with NFPA requirements, a Master Arc Flash study will be conducted. This will include all 480 volt or greater energized electrical equipment at the WQCP.

On December 20, 2018, Request for Proposals No. 1860 was issued by the Purchasing Division and Public Works Department, for an Arc Flash Study for 480 volt or greater energized electrical equipment at the WQCP. On February 14, 2019, the City of Riverside received nine proposals of which four were deemed non-responsive. The responsive and non-responsive companies are as follows:

Responsive Companies

1. EPS Engineering & Design, San Diego, California
2. Orsa Consulting, Fullerton, California
3. Relay Application Innovation Inc., Pullman, Washington
4. Schneider Electric, San Diego, California
5. SEAM Group LLC, Cleveland, Ohio

Non-responsive Companies

6. Honeywell Salisbury, Boilingbrook, Illinois
7. P2S Inc., Long Beach, California
8. Quant Utility Engineering Services, Kansas City, Missouri
9. Siemens Industry, Cypress, California

A Selection Committee consisting of staff members from the City reviewed the proposals. After an evaluation of each proposal, Orsa Consulting Engineers, Inc., of Fullerton, California, was the second highest evaluated consultant. After the highest rated consultant and the City could not reach negotiable terms for the agreement, the City moved on to select Orsa Consulting Engineers, Inc.

The Purchasing Manager concurs that the recommendation to award is in compliance with

Purchasing Resolution 23256.

FISCAL IMPACT:

There is no impact to the General Fund associated with this report. Sufficient funds are available in Public Works Department Sewer Fund – Arc Flash Study Account number 9894223-440301.

Prepared by:	Kris Martinez, Public Works Director
Certified as to availability of funds:	Edward Enriquez, Chief Financial Officer/Treasurer
Approved by:	Rafael Guzman, Assistant City Manager
Approved as to form:	Gary G. Geuss, City Attorney

Attachments:

1. Award Recommendation
2. Professional Consultant Services Agreement