



RESOLUTION NO. U-11509

1 A RESOLUTION related to the purchase of materials, supplies, equipment and
2 the furnishing of services; authorizing the City officials to enter into
3 contracts and, where specified, waive competitive bidding requirements,
4 authorize sale of surplus property, or increase or extend existing
5 agreements.

6 WHEREAS the City of Tacoma, Department of Public Utilities, requested
7 bids or proposals for the purchase of certain materials, supplies, equipment or
8 the furnishing of certain services, or proposes to purchase off an agreement
9 previously competitively bid and entered into by another governmental entity or
10 a purchasing cooperative, or for the sales of surplus, or desires to increase or
11 extend an existing agreement, all as explained by the attached Exhibit "A,"
12 which by this reference is incorporated herein, and

13 WHEREAS in response thereto, bids or proposals (or prices from
14 another governmental or cooperative agreement) were received, all as
15 evidenced by Exhibit "A," and

16 WHEREAS the Board of Contracts and Awards or the requesting division
17 have heretofore made their recommendations, which may include waiver of the
18 formal competitive bid process because it was not practicable to follow said
19 process, or because the purchase is from a single source, or there is an
20 emergency that requires such waiver, or because a directly negotiated contract
21 was determined to be in the best interest of the City, or waiver of minor
22 deviations, and in the case of sale of surplus, a declaration of surplus has been
23 made certifying that said items are no longer essential for continued effective
24 utility service, as explained in Exhibit "A," Now, therefore;
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BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

That the Public Utility Board of the City of Tacoma hereby concurs and approves the recommendations of the Board of Contracts and Awards or the requesting division, and approves, as appropriate: (1) the purchase or furnishing of those materials, supplies, equipment or services recommended for acceptance; (2) the sale of surplus materials, supplies or equipment recommended for acceptance; (3) the purchase from a cooperative or another governmental entity contract; and (4) the increase or extension of an existing agreement, and said matters may include waiver of the formal competitive bid process or waiver of minor deviations, all as set forth on Exhibit "A," and authorizes the execution, delivery and implementation of appropriate notices, contracts and documents by the proper officers of the City for said transactions.

Approved as to form:

	Chair
/s/ _____	_____
Chief Deputy City Attorney	Secretary
_____	Adopted _____
Clerk	



Resolution No.: U-11509

Item No.: 1

Meeting Date: FEBRUARY 26, 2025

TO: Board of Contracts and Awards
FROM: Chris Robinson, Power Superintendent/COO
Chris Mattson, Section Manager, Generation, Power
Paul Lennemann, Chief Dam Safety Engineer, Generation, Power
Matthew Wilson, Dam Safety Engineer, Generation, Power
COPY: Public Utility Board, Director of Utilities, Board Clerk, EIC Coordinator, LEAP
Coordinator, and Ryan Foster, Finance/Purchasing
SUBJECT: Mossyrock Dam Analysis Project
Request for Qualifications/Proposals Specification No. PG24-0135F
Contract No. CW2270441 - February 26, 2025 Public Utility Board
DATE: January 27, 2025

RECOMMENDATION SUMMARY: Tacoma Power Generation recommends awarding a contract to Stantec Consulting Services, Inc., Chicago, IL, in the amount of \$3,605,960, plus applicable taxes, budgeted from the Power Fund - 4700, for 2-year term to analyze the seismic performance of Mossyrock Dam by creating a state-of-the-art 3D Finite Element Analysis model. This work is part of a commitment to the Federal Energy Regulatory Commission (FERC) to reduce the risk associated with the arch dam performance during an extreme seismic event by analyzing the dam for the current estimated normal, flood, and seismic loads and assessing the strength and stability of the dam as it currently exists. It will also identify the strengthening measures necessary to meet FERC structural performance acceptance criteria for continued production of clean renewable energy.

STRATEGIC POLICY PRIORITY:

- Assure outstanding stewardship of the natural and built environment.

BACKGROUND: Mossyrock Dam, part of the Mossyrock Hydro-electric Development, is a double-curvature arch dam standing 606 feet high, making it the tallest dam in Washington State and seventh tallest in the United States. The Dam was constructed in 1968 and is located in Lewis County on the Cowlitz River near the town of Mossyrock in Southwest Washington. The Development provides power generation, flood storage, recreation, and manages river flows for downstream fish habitat. The Development meets the FERC high-hazard-potential classification that requires increased inspections and periodic Independent Consultant review. Over the past two decades, changes in the understanding of regional seismicity have resulted in significant increases to the seismic hazard at Mossyrock Dam. Due to these seismic hazard increases and in response to the uncertainties associated with the estimated performance of the Dam (when subjected to large magnitude seismic loads), Tacoma Power restricted the normal operating reservoir elevation as an Interim Risk Reduction Measure (IRRM) in 2017. The maximum reservoir elevation by design is EL. 778.5-feet. The reservoir is currently operated at a new normal maximum of EL. 749.0-feet until alternative or permanent risk reduction measures are implemented. A FERC-required Board of Consultants (BOC) was convened in 2017 to provide oversight of the evaluation of the seismic performance and structural fragilities associated with the increased seismic hazard at the development. The BOC remains active and will be in-place for the duration of the risk evaluation and risk reduction



effort. In August 2023, the latest revision of the Seismic Hazard Assessment (SHA) was submitted to the FERC and is pending review and acceptance. Also in 2023, a Potential Failure Modes Analysis (PFMA) and Level 2 Risk Assessment (L2RA) was performed as part of a Comprehensive Assessment (CA) for Mossyrock Dam’s FERC Part 12D Independent Consultant (IC) Inspection. The CA identified a number of potential failure modes (PFMs) as risk drivers that require additional analysis to evaluate.

ISSUE: Tacoma Power has committed to the FERC to analyze the seismic performance of Mossyrock Dam by creating a state-of-the-art 3D Finite Element Analysis model. Analysis resulting from this contract will be used to gain a quantitative understanding of the initiation and progression of PFMs, evaluate project risk drivers, and allow Tacoma Power to make risk-informed decisions to initiate a stability enhancement program for Mossyrock Dam. The results will become the stability analysis of record and be submitted to the FERC for their review and acceptance.

ALTERNATIVES: The professional services covered in this contract are necessary to fulfill previous FERC regulatory commitments and maintain the City’s ongoing regulatory obligations of the current FERC license. Alternatives for evaluating the seismic performance of Mossyrock Dam will be assessed by a FERC required Board of Consultants at all stages of the project.

COMPETITIVE SOLICITATION:

Request for Qualifications/Proposals Specification No. PG24-0135F was opened October 8th, 2024. Nine companies were invited to bid the RFQ in addition to the normal broad-scale advertising process of the City. Four consulting firms submitted their qualifications and were interviewed by a selection advisory committee comprised of Tacoma Power staff and subject matter experts selected from the Dam Safety community. Stantec Consulting Services, Inc. was selected based on qualifications, relevant experience, project approach methodology, reputation, and availability. Stantec will manage this work through its local satellite office in the Seattle-Tacoma metropolitan area. This contract was directly negotiated with Stantec.

<u>Respondent</u>	<u>Location</u>	<u>Score</u>
Stantec Consulting Services, Inc.	Chicago, IL	74.4
Hatch Associates	Ontario, Canada	73.2
Schnabel Engineering, LLC	Glen Allen, VA	61.8
WSP USA, Inc.	Quebec, Canada	49.2

CONTRACT HISTORY: New contract.

SUSTAINABILITY: This project aligns with Resolution No. 40776, which “Strengthens the City’s Commitment to Decarbonization” by ensuring the continued operation of hydroelectric plants that provide clean, renewable energy.

EQUITY IN CONTRACTING (EIC) COMPLIANCE: Not applicable.

Not applicable - Service contract - EIC Regulations are not yet established



LOCAL EMPLOYMENT AND APPRENTICESHIP TRAINING PROGRAM (LEAP)
 COMPLIANCE: Not applicable.

FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4700 - Power	PWR-01273	6311221	\$3,605,960
TOTAL			Up to \$3,605,960

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4700 - Power	PWR-01273	6311221	(\$3,605,960)
TOTAL			Up to (\$3,605,960)

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$3,605,960

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

IF EXPENSE IS NOT BUDGETED, PLEASE EXPLAIN HOW THEY ARE TO BE COVERED. N/A