

EWEB Board Consent Calendar Request

For Contract Awards, Renewals, and Increases

The Board is being asked to approve a contract amendment with **Black & Veatch** for engineering services.

Board Meeting Date: April 7, 2020

Project Name/Contract #: Carmen Power Plant Upgrades

Primary Contact: Rod Price Ext. 7122

Contract Amount:

Original Contract Amount: \$6,000,000

Additional \$ Previously Approved: \$0

Invoices over last approval: \$0 through February 2020

Percentage over last approval: 0%

Amount this Request: \$2,000,000

Resulting Cumulative Total: \$8,000,000

Contracting Method:

Method of Solicitation: Formal Request for Proposal

If applicable, basis for exemption: N/A

Term of Agreement: November 13, 2015 to November 13, 2025

Option to Renew? Yes, yearly renewals

Approval for purchases “as needed” for the life of the Contract Yes ☒ No ☐

Proposals/Bids Received (Range): 7, cost unavailable, qualifications only

Selection Basis: Qualifications Based Selection (QBS)

Narrative:

Operational Requirement and Alignment with Strategic Plan

Under this existing contract, Black & Veatch (B&V) is providing engineering services that are facilitating EWEB's efforts to renew the critical systems required for power generation at the Carmen-Smith Project. These improvements will modernize the plant to provide reliable power production at Carmen-Smith for the term of the new FERC license.

Most of B&V's major engineering design support services were anticipated at the time of original contracting and included in the baseline scope, thus forming the basis for the original contract amount of \$6,000,000. Other engineering services were added to the baseline scope of services (TSV installation design, tunnel repair designs, Smith intake gate refurbishment) when opportunities arose to efficiently and cost-effectively involve B&V in additional design efforts. In the time since the Board approved this contract in November 2015, B&V has completed substantial work including:

- Carmen Plant Inspections, Evaluations, and Planning
- Turbine Shutoff Valve (TSV) Installation Design
- Switchgear, Relays, and Control Systems Procurement
- Substation and Carmen Plant Electrical Detailed Design and Construction Support
- Power Tunnel and Diversion Tunnel Repair Design and Construction Support
- Smith Intake Gate Refurbishment Engineering Support
- Turbine Generator Design and Procurement Engineering Support

The requested contract amendment will enable B&V to continue to support EWEB's renewal of critical power generation systems at Carmen-Smith including construction period services for the turbine-generator overhauls at the Carmen Plant and additional scope covering life-extension improvements at the Trail Bridge Plant. With issuance of the new FERC license in May 2019, opportunities have arisen to involve B&V in the planning and design of reliability improvements at the Trail Bridge Plant. Although the Trail Bridge Plant will cease continuous

operation upon completion of the fish passage improvements, the power plant will still need to operate intermittently as a reliable low level outlet. These intermittent operations will occur when the spillway is taken out of service for inspection and maintenance of the fish passage systems. EWEB anticipates that the Trail Bridge Plant will operate approximately four times per year for short periods throughout the duration of the new FERC license. These periodic operations will also demonstrate that the plant is poised to operate reliably in the event of an emergent dam safety issue requiring use of the low level outlet.

The anticipated scope of services from B&V with this amendment include:

- Construction period engineering support for the Carmen Unit No. 2 overhaul work in 2020
- Construction period engineering support for the Carmen Unit No. 1 overhaul work in 2021
- Planning, design, and construction period engineering support for the Trail Bridge Power Plant reliability improvements

Following B&V's recent successful design of upgrades to the Carmen Plant, their engineering team is well positioned to efficiently support EWEB in the design of these reliability improvements at the Trail Bridge Plant.

Contracted Goods or Services

The consulting services facilitated by this contract amendment will include engineering design as well as construction period services.

B&V's recent and ongoing work has demonstrated reliable adherence to EWEB's budget and schedule requirements. Their engineering team is delivering high quality products that are consistently meeting EWEB's expectations.

Purchasing Process

Not applicable; Contract amendment

Competitive Fair Price (If less than 3 responses received)

Not applicable; Contract amendment

ACTION REQUESTED:

Management requests the Board approve an amendment to an existing contract with Black & Veatch for engineering and related services. Funding for these services has been budgeted in the Carmen-Smith Capital Improvement Plan. The total Carmen-Smith Relicensing Type 3 budget for 2020 is \$19.41 million, included in the total Electric Division budget of \$48.4 million. Variances will be managed within the budget process and Board policy.