Legislation Details (With Text)

File #:	2019-1254		
Type:	Consent Calendar Item	**Status:**	Agenda Ready
File created:	8/7/2019	**In control:**	Sonoma County Water Agency
On agenda:	9/10/2019	**Final action:**	
Title:	Amend Engineering and Design Services for Warm Springs Dam Hydropower Retrofit Project		
Sponsors:	Sonoma County Water Agency		
Indexes:			
Attachments:	1. Summary Report, 2. Agreement		

Date	Ver.	Action By	Action	Result
9/10/2019	1	Board of Supervisors	Approved as recommended	Pass

To: Board of Directors, Sonoma County Water Agency
Department or Agency Name(s): Sonoma County Water Agency
Staff Name and Phone Number: Hannah Salafia / 524-6435
Vote Requirement: Majority
Supervisorial District(s): All

Title:
Amend Engineering and Design Services for Warm Springs Dam Hydropower Retrofit Project

Recommended Action:
In an ongoing effort to improve efficiency and resiliency of the Warm Springs Dam facility:
Authorize Sonoma County Water Agency's General Manager to execute the First Amended Agreement for Engineering and Design Services for Warm Springs Dam Hydropower Retrofit Project with Integrated Engineers & Contractors Corporation. The amended agreement increases the amount by $264,853, expands the scope of work to include additional facility protection instrumentation to address code compliance requirements, new interconnection requirements required by Pacific Gas & Electric (PG&E), increase overall system functionality, and extend the agreement term by two years for a new not-to-exceed agreement total of $909,337 and end date of December 31, 2021.

Executive Summary:
The Sonoma County Water Agency (Sonoma Water) owns, operates, and maintains the Warm Springs Dam Hydropower Facility (Facility). The Facility has been in operation since 1989 and produces approximately 9,000 to 16,000 Mega Watt Hours (MWh) per year. A Condition Assessment in 2017 recommended modernizing and implementing retrofits of some of the outdated electrical, mechanical, instrumentation, and control systems to extend the useful life of the system and improve system efficiency and resiliency. In 2018, Integrated Engineers & Contractors Corporation (Consultant) began the design phase for the Warm Springs Dam Hydropower Retrofit Project to implement those recommended upgrades. Design modifications are necessary to address new code compliance and power utility interconnection requirements.

Discussion:

HISTORY OF ITEM/BACKGROUND

The Warm Springs Dam is located in Geyserville, CA at the confluence of Warm Springs Dam and Dry Creek. Warm Springs Dam was completed by the United States Army Corps of Engineers (USACE) in 1984, creating Lake Sonoma which stores water used for both domestic purposes and recreation. The USACE owns and operates the dam and is responsible for controlling the releases when water levels exceed flood level elevations. Sonoma Water manages the reservoir releases when water levels are below the flood level elevations.

In 1985, Sonoma Water began construction of the Facility within the dam. The Facility was completed in 1989. Releases of water from the dam flow through the Facility. This generates renewable, reliable electricity as water discharges into Dry Creek.

Since the time the facility was constructed, it has produced approximately 9,000 to 16,000 MWh per year and has performed well with minimal repairs over the years. The system is now over thirty years old and although it has not had major performance issues, Sonoma Water performed a Condition Assessment in 2017 of the system with the aim of improving efficiency, resiliency, and the useful service life of the system.

Sonoma Water and Consultant entered into an agreement for engineering and design services for dam retrofit in July 2018 in the amount of $644,484.00.

At the 60% design stage, Consultant recommended that additional plant and unit protection instrumentation was advisable to address new code compliance and power utility interconnection requirements. The modifications that will be made as part of this scope extension require additional hardware, software development, and training for staff.

SELECTION PROCESS

Consultant was selected from a list of qualified consultants generated from a 2017 Request for Qualifications for Engineering and Design Services for the Warm Spring Dam Hydroelectric Retrofit Project.

SERVICES TO BE PERFORMED

Under the proposed amended agreement, Consultant will continue the design for the retrofit project with a modified scope to include protection instrumentation and other additions to meet new code and power utility interconnection compliance requirements and increase overall system functionality.

The additional cost is $264,853, for a new not-to-exceed agreement total of $909,337. The new end date is December 31, 2021.

The agreement includes two options for Sonoma Water to extend this agreement for a period of one year each by providing written notice to Consultant thirty days in advance of the expiration date of the agreement and of the first extension option.

Prior Board Actions:

07/10/2018: Approved agreement between Sonoma Water and IEC Corporation for Engineering and Design Services for Warm Springs Dam Hydropower Retrofit Project. Cost $644,484; term end December 31, 2019.

FISCAL SUMMARY

Expenditures	**FY 19-20 Adopted**	**FY20-21 Projected**	**FY 21-22 Projected**
Budgeted Expenses	264,853		
Additional Appropriation Requested			
Total Expenditures	**264,853**		
Funding Sources			
General Fund/WA GF			
State/Federal			
Fees/Other	264,853		
Use of Fund Balance			
Contingencies			
Total Sources	**264,853**		

Narrative Explanation of Fiscal Impacts:
Budgeted amount of $264,853 is available from FY 2019-2020 appropriations for the Common Facilities fund. No additional appropriation is required.

Staffing Impacts:			
Position Title (Payroll Classification)	**Monthly Salary Range (A-I Step)**	**Additions (Number)**	**Deletions (Number)**
N/A			

Narrative Explanation of Staffing Impacts (If Required):
N/A

Attachments:
Attachment 1: Amended Agreement with IEC Corporation

Related Items "On File" with the Clerk of the Board:
None