



Washoan and Acoma Operational Efficiency Improvement Project

South Tahoe Public Utility District

WaterSMART Small-Scale Water Efficiency Projects

South Tahoe Public Utility District Washoan and Acoma Operational Efficiency Improvement Project 2022 WaterSMART Small-Scale Water Efficiency Project

South Tahoe Public Utility District
1275 Meadow Crest Drive
South Lake Tahoe, CA 96150

Yesenia Pacheco, Project Manager
1275 Meadow Crest Drive
South Lake Tahoe, CA 96150
ypacheco@stpud.us
530-543-6236 (Office)
530-541-4306 (Fax)



Washoan and Acoma Operational Efficiency Improvement Project

South Tahoe Public Utility District

1275 Meadow Crest Drive

South Lake Tahoe, CA 96150

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Executive Summary

Date: April 5, 2022

Applicant Name: South Tahoe Public Utility District

City: South Lake Tahoe

County: El Dorado County

State: California

Applicant Type: Category A

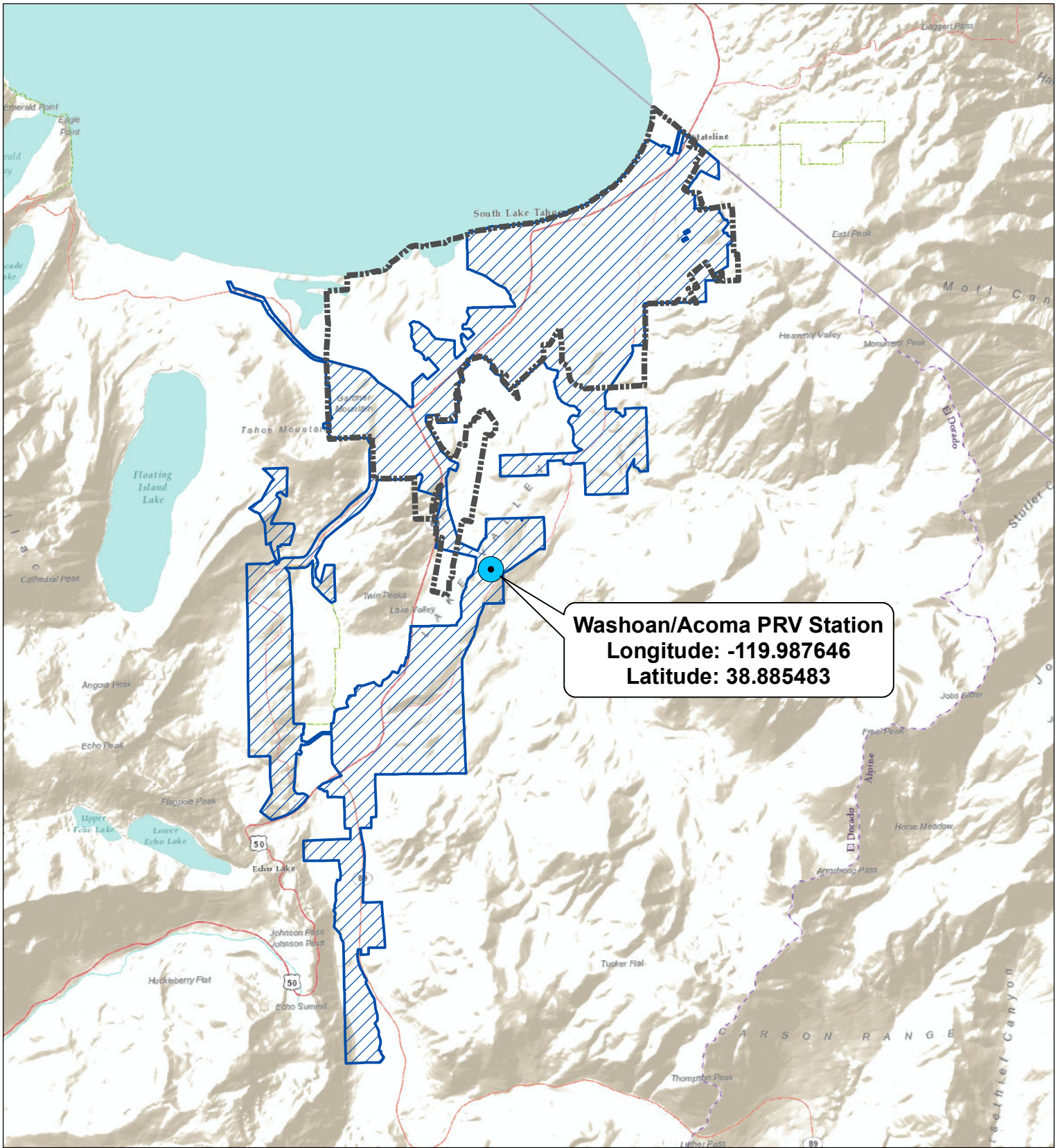
The South Tahoe Public Utility District (District), located in northern California, will improve the operational efficiency of its water distribution system by improving water flow and pressure rates at a pressure-reducing valve (PRV) station, which is fundamental to the District’s pressure regulating capabilities and operational efficiency. The district will integrate the existing automatic supervisory control and data acquisition (SCADA) system, install a new PRV, and the required piping to the PRV station: Washoan/Acoma. Integrating data, status, and alarm signals into the District’s existing SCADA and installing the PRV vault and the required piping at the Washoan/ Acoma site will allow the district more control within the PRV station water pressure zones, saving water and energy through more efficient water system operations. The District’s geographically designated water zones are within 31 water pressure zones. Many of these zones are fed by remote PRV Stations. The district has 17 remote PRV stations, four of which have been operationally improved for efficiency. These improved PRV sites can be monitored remotely with a power source and instrumentation. For the remaining 13 remote PRV stations, the District is completely “blind”; there is no flow meter to monitor water delivery into the zone for distribution, there are no pressure gauges to monitor damaging pressure transients, which are common in pressure-regulated zones, or monitor breaks in the system for emergency response. The project is identified as a priority in the District’s Capital Improvement Plan.

The estimated time to complete this project is 24 months, with a start date of March 31, 2023, and a completion date of March 31, 2025.

Total Project Cost is \$225,000:

\$100,000	Bureau of Reclamation Grant
\$125,000	South Tahoe Public Utility District Match




The project is not located in a federal facility.

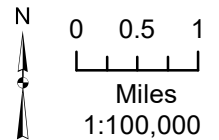


Washoan/Acoma PRV Station
Longitude: -119.987646
Latitude: 38.885483

STPUD Washoan/Acoma Pressure Reducing Valve (PRV) Station

Legend

-  Washoan/Acoma PRV
-  Water Service Area
-  City of South Lake Tahoe



Map Created 4/13/2022



Technical Project Description

The proposed operational improvement project will advance pressure regulating capabilities at the Washoan/Acoma newly installed PRV station. The proposed project includes on-site improvements and SCADA communication equipment integration. This PRV station is one of the 13 “blind” remote stations that require a power source and instrumentation to be monitored for water flow and pressure rates allowing the District more efficient water operations. This PRV station consists of a 6” fire flow PRV in a rectangular vault with a circular manhole cover. There is no apparent drainage issue at the Project site. The existing vault structure is not large enough and not in acceptable condition to be reused. The existing interior piping is corroded, and the PRV is at the end of its serviceable life and will require replacement. The new PRV transmitter will be set for 90 psi upstream and 48 psi downstream. A valve controller for flow monitoring will be installed. This site is not expected to be suitable for hydroelectric generation based on the hydraulic analysis.

To complete this project, the following work and approach will need to be accomplished:

Work to be Accomplished:

- Installation of approximately 60 linear feet of 8-inch and 6-inch piping to connect the new pressure regulating valve (PRV) station to the existing water system
- Installation of 6-inch and 8-inch gate valves to isolate PRV station for performing maintenance work
- Installation of a new underground precast concrete vault
- Installation of new PRVs in vault - one large (6-inch or 8-inch) and one small (2-inch) for providing fire and domestic flows.
- Installation of a new electrical panel for instrumentation and communications to monitor pressure and flow. This will include new electrical service to power the panel.
- Integration of data, status, and alarms into the existing SCADA system.
- Asphalt paving over the areas that were excavated within the existing roadway.

Approach to Complete the Work:

District staff will complete the planning and design of this project and will develop a bidding package for the construction contractor. The contractor will provide all necessary equipment typically used for demolition, site preparation, grading, construction, and paving. The contractor will also include the required materials to complete the project. Earthwork, including temporary disturbance and pipeline trenching and excavations, will be necessary for Project implementation. To accomplish this project, construction will commence when earthmoving is allowed in Lake Tahoe between May 1st and October 15th. Quality assurance measures will be detailed in the construction contract. They will address the following: site preparation, fill materials and placement, disposal of excess excavated materials, and site clean-up and restoration. Construction staging and access will occur within the City of South Lake Tahoe right-of-ways. Employee parking will occur within the Project work area within the right of way or on District property and not on private property. Primary staging and employee parking will occur at the District Wastewater Treatment Plant facility, where best management practices and other stormwater infiltration devices have been established.



Materials and Equipment Required

All materials and equipment required will be provided by the contractor hired to complete the project based on the design, which will include the following:

- C900 or Ductile Iron Piping
- 2-inch, 6-inch, and 8-inch Gate Valves
- Precast concrete Vault and Lid
- Hot mix asphalt for final paving of trench patch (4-inch depth) and mill and overlay (2-inch depth).
- Shoring materials for excavation
- Pressure regulating valves – 6-inch or 8-inch and 2-inch PRVs
- Erosion control devices – coir logs, filter fence, inlet protection, dust control, and temporary cold mix asphalt
- Backhoe or Excavator
- Dump Truck
- Crane for setting precast concrete vault and lid
- Compaction equipment
- Paving equipment

All labor required will be provided by the contractor hired to complete the project, including, but not limited to the following:

- Mobilization and demobilization
- Erosion Control
- Groundwater and existing system dewatering
- Traffic Control
- Excavation, backfill, paving
- Installation of piping, valves, vault, electrical panel
- Paving
- Instrumentation connection to the panel and communications (cellular or radio) to the District SCADA system
- Pressure Testing and Disinfection of new piping



Evaluation Criteria

Evaluation Criterion A—Project Benefits

- Expected benefits of the Project include improving the reliability of the water supply delivery system by providing real-time alarms to notify the District of excessive water hammer and pressure loss in the system through the improvement of notification and response times as well as increasing water savings by helping to regulate water flow. The proposed project will improve overall water supply reliability by helping the District collect zone pressure and flow data used to calibrate the STPUD water model, which is the primary tool used by the District to identify and prioritize capital projects to improve system reliability. By allowing the District to track water production into system zones on a real-time basis, the District will be better able to identify and correct sources of unaccounted water.
- The proposed project will positively impact a water zone within the District’s system. It will provide additional information helpful for the planning and implementation of similar projects in the District’s remaining “blind” pressure zones. The district has 17 remote PRV stations, four of which have been operationally improved for efficiency, including implementing SCADA communication equipment integration. These SCADA integrated PRV sites can be monitored remotely with a power source and instrumentation. For the remaining 13 remote PRV stations, including the proposed installation of new PRV station Washoan and Acoma, there is no flow meter to monitor water delivery into the zone for distribution, there are no pressure gauges to monitor damaging pressure transients, which are common in pressure-regulated zones, or monitor breaks in the system for emergency response. The Washoan and Acoma PRV station's proposed installation will allow more control within the District’s water pressure zones, saving both water and energy through more efficient water system operations. Additional positive impacts include decreasing wastewater treatment load, which further protects the environment resulting in water and energy savings for the water consumer. This project is expected to increase efficiency, reduce water and energy usage, decrease maintenance costs in the long run, and increases staff safety and plant reliability. Additionally, each PRV brought online allows more control within the District’s water pressure zones, saving water and energy through more efficient water system operations.
- The consequences of not making the improvements will impact personnel safety in unexpected overpressure events, increased maintenance costs, decreased plant reliability, and inefficient water and energy usage, which negatively affect the environment.
- Currently, customer water restrictions include Not spraying water on driveways, sidewalks, parking areas, tennis courts, decks, patios, and other improved areas. Not irrigate 48 hours after measurable precipitation. All fountains or other decorative water features must recirculate water. Not irrigating turf on public street medians. Restaurants must serve water only upon request. The hospitality industry must provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guestroom using clear and easily understood language.
- This project is part of a District-wide water plan to improve the water delivery network to preserve the groundwater resources to adapt to future changes in the environment,



especially drought events. The District has long been a leader in providing opportunities for communication among governmental agencies, water authorities, tribes, and local communities. Currently, there are three partnerships in which the District serves as a lead that foster communication and collaboration among these groups: Groundwater Sustainability Agency for the Tahoe South groundwater basin, Tahoe Sierra Integrated Regional Water Management partnership, and the Tahoe Water for Fire Suppression Partnership (bi-state fire prevention). These three partnerships have extensive memberships that allow interaction, integration, collaboration, and communication outreach for water resources and regional managers. This project is a part of a system-wide water delivery system communication upgrade that is expected to result in increased efficiency, less water use, and less energy use.

- All local sectors and economies would benefit from the proposed project as benefits include decreasing wastewater treatment load, which further protects the environment resulting in water and energy savings. This project will also aid in preserving the groundwater resources to adapt to future changes in the environment, especially during drought events. Climate change is of particular concern in South Lake Tahoe. The South Lake Tahoe area is potentially vulnerable to climate change, especially because of the potential for higher elevation rain/snow line, decreased snowpack, the potential increased wildfires, and the likely impact on habitats because of rising temperatures. These changes may eventually significantly impact local groundwater management, and solutions may require early planning. Additionally, Lake Tahoe Visitor Bureau states about 15 million people per year visit Lake Tahoe; thus, optimizing water savings is essential.
- As there is no farmland mapped within or surrounding the Project Site, the proposed Project will not include on-farm efficiency work in collaboration with the NRCS through the EQIP or any other programs.

Evaluation Criterion B—Planning Efforts Supporting the Project

- This project implements a solution to a problem identified by several different planning efforts. The first is the SCADA Steering Committee and the SCADA Executive Committee, established in 2014. The committees were tasked with developing an integrated plan for standardizing and prioritizing upgrades to system instrumentation, remote control, and data collection capabilities across the District's service areas. The committees have to date, prepared (1) a technical memorandum identifying the District's priorities for SCADA system improvements and (2) a catalog of existing functionality available at each ancillary water and sewer station. In the Technical Memorandum, communication has been identified as a critical path item for implementing SCADA operational and data collection improvements. The second priority functions of the STPUD SCADA system, as identified by the Committee, are: (1) to provide remote control of equipment and (2) to collect data for system optimization, asset management, and design (page 2 of the October 2014 technical memorandum). In the same Memorandum, the committee identifies the following project: "5. Pressure and Flow Measurement for Water System Subzones: The District operates 16 subzones within the water system that are blind to SCADA because they are fed solely by un-instrumented pressure-reducing valves (PRVs). The committee recommends that the



District add pressure and flow instruments (with related alarms and data acquisition) at these PRVs to improve the reliability of water delivery, inform the maintenance of the PRVs, and provide data for tracking water usage within these zones.”

- Another planning document addressing the need for better water data is the Water System Optimization Plan completed by West Yost and Associates and Kennedy Jenks Consultants in July 2016. In the Executive Summary for this document, on page ES-22, PRV Replacements and Reliability Improvements are listed as a High Priority Project. (This document is available for review at www.stpud.us)
- The proposed Project has been determined a priority in existing planning efforts as part of an overall system-wide upgrade in water delivery communications. The first component of the system-wide upgrade involved the installation of advanced metering infrastructure (AMI), which the District completed in 2018. The AMI allows real-time access to water use data being supplied through a water meter installation project, of which the District has completed four of five phases. Together, the AMI and the water meters will provide a complete synopsis of the consumption side of the water use equation. The proposed project will provide the District with data on the production side of the water use equation, which will be combined with its customer data to build a complete outline of how much water is being produced by the District, used by its customers, and ultimately forfeited to leaks in the system.

Evaluation Criterion C—Project Implementation

- Project Timeline:

TASK	SUBTASK	TASK/DELIVERABLE	Start Date	End Date
1.0		PROJECT ADMINISTRATION		
	1.1	*Contract/Grant agreement	3/31/2023	6/30/2023
	1.2	*Progress Reports/Invoices	Ongoing	
	1.3	*Draft/Final Reports	1/01/2024	3/31/2025
2.0		PROJECT DESIGN		
	2.1	Complete *Design plans; *contractor bid	3/31/2023	4/15/2023
3.0		ENVIRONMENTAL COMPLIANCE		
	3.1	Complete and File CEQA; NEPA Compliance *Deliverables: CEQA NOE and environmental documents	10/1/2023	12/31/2023
4.0		PROJECT IMPLEMENTATION		
	4.1	Installation of new PRVs and piping	5/1/2024	7/1/2024
	4.2	Installation of pressure transmitters	5/1/2024	8/30/2024
	4.3	Installation of valve controller	7/1/2024	8/30/2024
	4.4	Installation of hydroelectric generator	7/1/2024	8/30/2024
	4.5	Installation of cellular modem	7/1/2024	8/30/2024
	4.6	Installation of above-grade control panel	9/1/2024	10/15/2024



	4.7	*Integration into SCADA system *Deliverables: Annual reporting data (reports can be calculated for quarterly data if requested)	9/1/2024	10/15/2024
5.0		PROJECT MANAGEMENT/MONITORING		
		Inspection Services		
	5.1	*Deliverable: Daily inspection logs	5/1/2024	10/30/2024
	5.2	Project Management/STPUD Staff *Deliverables: Pay estimates and final project engineering certification	3/31/2024	3/31/2025

(*Deliverables)

- Permits: Because the proposed project will not affect the capacity of the District system, the District will seek a CEQA Categorical Exclusion /Categorical Exemption for this Project. Because the proposed Project involves minimal to no ground disturbance under existing pavement or compacted road shoulder, it will be performed as an Exempt Activity under the District’s Memorandum of Understanding with the Tahoe Regional Planning Agency (TRPA). TRPA will be notified of the exempt activity in writing in advance of mobilization.
- The District has a PRV Detail Package containing the design plans at 90% complete.
- There are no new policies or administrative actions required to implement this Project. The STPUD Board of Directors has approved the opportunity to apply for funding for the project and the implementation by adopting a resolution included with this funding application.
- The District did not use the Reclamation recommended 2% for the environmental compliance estimate as environmental compliance for this Project, and 17 other PRV sites within the District service area have already received environmental clearance through the Bureau of Reclamation. These costs have been discussed with the local Reclamation office.

Evaluation Criterion D—Nexus to Reclamation

- The applicant does not receive Reclamation Project water, nor is the Project on Reclamation lands or utilize any facilities; however, the Project is in the same basin as a Reclamation activity (Newlands Project) and has a direct bearing on lake levels via water pulled from the South Tahoe aquifer/watershed.
- The Truckee Basin Study – funded jointly by the Bureau of Reclamation and several local agencies within the Lake Tahoe Area – assesses the current and future water supply and demand in the Truckee River Basin, of which South Lake Tahoe is a part. The Basin Study also includes a range of potential strategies for Truckee Basin communities to improve their understanding of water use vulnerabilities. The proposed Project aligns with the step of groundwater model development. The District will be able to continuously monitor, record, and make water-saving adjustments to its water production equipment at the Washoan and Acoma PRV Station. (Truckee Basin Study Basin Study Report, page 295).



Evaluation Criterion E—Department of the Interior Priorities (this project meets the following priorities):

1a. The District is working towards water efficiency improvements at six of its existing drinking water production and distribution facilities. To most effectively complete these objectives, the District has employed Carollo Engineers, Inc. to conduct studies and produce a strategy and design recommendations for the Project. The “Communications Study Report” provides recommendations for system infrastructure improvements needed to support future supervisory control and data acquisition (SCADA) operational and data collection improvements to meet these goals. This report relied on current “best management practices” to design water efficiency improvements to help the District manage water resources to preserve the groundwater resources and adapt to future environmental changes, especially drought events.

1b. Land use and planning within the Tahoe Region is unique because a large part of the District’s service area is comprised of publicly-owned vacant lands. These parcels are considered unavailable for future development. The future land use for the District’s service area is limited by Tahoe Regional Planning Agency (TRPA), and much of the development will be infill and re-development.

2a. Energy savings will be realized through the implementation of this Project. Energy savings will be recognized by allowing the District to manage and regulate water production at optimum levels. As water and sewer providers have among the highest energy usage in the country, a project that helps minimize energy usage helps ensure the grid is not overburdened and remains stable to meet community needs.

3a. The District has been instrumental in implementing Integrated Regional Water Management (IRWM) in the Lake Tahoe area. It will continue to address the following issues with stakeholders (comprised of public agencies, water purveyors, non-profit environmental groups, and other interested stakeholders from Alpine, El Dorado, Placer, Nevada, and Sierra Counties): Water supply reliability, water conservation, water quality improvement, stormwater management, flood management, invasive species abatement, contamination cleanup, wetlands enhancements and protections, environmental and habitat improvements and protections.

3b. The District has long been a leader in providing opportunities for communication among governmental agencies, water authorities, tribes, and local communities. Currently, there are three partnerships in which the District serves as a lead that foster expanding communication among these groups: Groundwater Sustainability Agency for the Tahoe South groundwater basin, Tahoe Sierra Integrated Regional Water Management partnership, and the Tahoe Water for Fire Suppression Partnership (bi-state fire prevention). These three partnerships have extensive memberships that allow for interaction, integration, and communication outreach for water resources.



Washoan and Acoma Operational Efficiency Improvement Project

South Tahoe Public Utility District

WaterSMART Small-Scale Water Efficiency Projects

Funding Plan and Letter of Commitment

April 25, 2022

Bureau of Reclamation
Financial Assistance Support Section
Attn: MS. Robin Graber
P.O. Box 25007 MS 84-27133
Denver, CO 80225

Dear Ms. Graber,

Please accept this funding plan and letter of commitment on behalf of South Tahoe Public Utility District for the proposed Project: Washoan and Acoma Operational Efficiency Improvement Project.

1. STPUD will contribute the match of \$125,000 towards the Bureau of Reclamation funding request of \$100,000. The District will be contributing \$125,000 from the Capital Reserve Funds in the form of reimbursements to the contractor approved for the implementation of this project. No other federal funds are being requested for this project.
2. The funding proposed will be available in January 2023.
3. There are no time constraints on the availability of these funds.
4. The total project funding does not exceed \$225,000.
5. The budget proposal does not include any Project costs that have been and/or will be incurred prior to the grant award.

This letter of commitment is for \$125,000, and there are no other contingencies associated with the funding commitment.

Sincerely,

A handwritten signature in blue ink, appearing to read "P. Hughes".

Paul Hughes
Chief Financial Officer
South Tahoe Public Utility District

**Budget Proposal/STPUD
South Tahoe Public Utility District Washoan and Acoma Operational Efficiency Improvement**

BUDGET ITEM DESCRIPTION	COMPUTATION			Recipient Funding	Reclamation Funding	Total Cost
	\$/Unit	Unit	Quantity			
ADMINISTRATIVE TOTAL:				\$ -	\$ -	\$ -
ARCHITECTURAL & ENGINEERING FEES TOTAL:				\$ -	\$ -	\$ -
CONTRACTUAL FEES TOTAL:				\$ -	\$ -	\$ -
PROJECT INSPECTION FEES TOTAL:				\$ -	\$ -	\$ -
ADMIN, CONTRACTUAL, and INSPECTION FEES TOTAL:				\$ -	\$ -	\$ -
CONSTRUCTION (Project will be bid to lowest responsive bidder)	Contractual					
PRV Vault	\$ 35,500.00	each	1	\$ 35,500		\$ 35,500
6"/2" PRV and Vault Piping	\$ 100,000.00	each	1	\$ 2,000	\$ 98,000	\$ 100,000
6" Water Main Installation	\$ 250	LF	60	\$ 15,000		\$ 15,000
6" Valves	\$ 2,500	Each	3	\$ 7,500		\$ 7,500
4" Paving over Vault Structure and Water Main	\$ 20	SF	500	\$ 10,000		\$ 10,000
Electrical	\$ 35,000	each	1	\$ 35,000		\$ 35,000
SCADA	\$ 20,000	each	1	\$ 20,000		\$ 20,000
CONSTRUCTION TOTAL:				\$125,000	\$98,000	\$223,000
ENVIRONMENTAL AND REGULATORY COMPLIANCE	Approximately 2% of Total Grant Funded Project Cost			\$ -	\$ 2,000	\$ 2,000
TOTAL PROJECT COSTS				\$ 125,000	\$ 100,000	\$225,000

Table 2. Summary of non-Federal and Federal Funding Sources

Funding Sources	Funding Amount
1. Non-Federal Entities	
STPUD Capital Improvement Funds/General Revenue	\$125,000
Non-Federal Subtotal:	\$125,000
2. Other Federal Entities	
No other federal entities	\$0
Other Federal Subtotal:	\$0
3. Requested Reclamation Funding:	\$100,000
Total Project Funding:	\$225,000



Washoan and Acoma Operational Efficiency Improvement Project
Budget Narrative

SALARIES and WAGES- \$0.00

Costs for salaries and wages will not be included. There will be no personnel costs utilized in this budget.

FRINGE BENEFITS-\$0.00

Cost for fringe benefits will not be included. There are no fringe benefit costs utilized in this budget.

TRAVEL- \$0.00

Travel is not required for this project and is not eligible for reimbursement under the Notice of Funding Opportunity (NOFO).

EQUIPMENT-\$0.00

Cost of Equipment will not be included. The construction contractor will provide the required equipment to complete this project.

MATERIALS and SUPPLIES- \$0.00

Cost of Supplies will not be included. The construction contractor will provide the required materials and supplies to complete the project.

CONTRACTUAL- \$223,000.00

Name of Contractor: TBD

Total \$223,000.00

Method of Selection: Competitive bid

Period of Performance: March 31, 2023 – March 31, 2025

Scope of Work: This project will be bid out to a contractor and includes the installation of the following:

- 6" water main installation-\$15,000: Install approximately 60 linear feet of 8-inch and 6-inch piping to connect the new pressure regulating valve (PRV) station to the existing water system.
6" gate valve-\$7,500.00: purchase and install a gate valve that controls the amount of water flowing into the PRV.
PRV Vault-\$35,500.00: Installation of 6-inch and 8-inch gate valves to isolate PRV station for maintenance work.
4" Paving over vault structure and water main-\$10,000: Installation of a new underground precast concrete vault
6" pressure reducing valve assembly/Vault purchase and installation-\$100,000.00: Installation of new PRVs in the vault - one large (6-inch or 8-inch) and one small (2-inch) for providing fire and domestic flows.
Electrical and instrumentation trenches-\$35,000.00: Install a new electrical panel for instrumentation and communications to monitor pressure and flow. This will include new electrical service to power the panel.



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WaterSMART Small-Scale Water Efficiency Projects

- **SCADA Communication installation-\$20,000.00**: Integration of data, status, and alarms into the existing SCADA system.

Method of Accountability:

The Grant Coordinator will monitor the Contractor's activities by documenting work progress and grant reporting. Additionally, all costs have been deemed reasonable and justified by performing evaluations and comparisons of like programs at other water agencies throughout California, as well as suppliers' quotes and previous purchases for similar projects.

ENVIRONMENTAL and REGULATORY COMPLIANCE-\$2,000.00

In 2017, the Bureau of Reclamation funded a similar PRV project, which is part of the larger effort to upgrade 17 PRV sites. All these sites were evaluated for environmental compliance, including this requested PRV site. No significant changes have been made notes at these sites.

OTHER EXPENSES-\$0.00

There are no additional budget items for this project.

INDIRECT COSTS-\$0.00

There are no indirect costs for this project.

Total Cost- \$225,000.00



Environmental and Cultural Resources Compliance

South Tahoe Public Utility District (District) will file a CEQA Notice of Exemption for the proposed Project. The project involves the reconstruction of an existing water facility and involves minimal to no land alteration. The improved structure will have the same purpose and capacity as the original structure.

1) *Will the project impact the surrounding environment?* No, the proposed Project will not impact the surrounding environment. Project implementation activities will occur on District-owned property, utilizing the public right of way for access. All Project construction will be confined to previously disturbed areas and surfaces, including existing pavement, road shoulder or compacted soil, and a previously constructed – and currently operational – PRV vault structure. No Project work will adversely impact the air, water, or animal habitat in the Project area. The District adheres to strict construction mandates imposed by the Tahoe Regional Planning Agency (TRPA) designed to minimize environmental impacts. Additionally, the Project is classified as a Qualified Exempt activity in the Memorandum of Understanding (MOU) the District shares with the TRPA.

2) *Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?* No threatened or endangered species or designated critical habitat will be affected by any activities associated with the proposed Project. To ensure this, the Project will be evaluated for compliance with the National Environmental Protection Act (NEPA) and the California Environmental Quality Act (CEQA). The work requires no ground disturbance and will be performed under a Categorical Exclusion/Categorical Exemption. The District has performed a biological and cultural resources assessment and completed an environmental checklist supporting the finding that the Project is exempt. The NEPA/CEQA filing will occur in advance of project bidding in March 2023. No other Project permits are required.

3) *Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as “waters of the United States?” If so, please describe and estimate any impacts the project may have.* There are no wetlands or surface waters inside the project boundaries that fall under the CWA jurisdiction as “waters of the United States.” This project will be implemented on previously disturbed STPUD infrastructure sites.

4) *When was the water delivery system constructed?* The original water delivery system was built in 1950.

5) *Will the project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.* No changes to an irrigation system will be made during the course of the proposed Project.



6) *Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places?* No buildings, structures, or features within the District's service area are listed or eligible for listing on the National Register of Historic Places.

7) *Are there any known archeological sites in the proposed project area?* There are no known archaeological sites within the proposed Project area. As part of the environmental assessment, a cultural resource inventory was completed.

8) *Will the project have a disproportionately high and adverse effect on low-income or minority populations?* The Project will have only beneficial effects on the disadvantaged population and population at large. Water production and its energy costs are expected to decrease as a result of this Project.

9) *Will the project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?* The Project is situated on District-owned property and accessed through the public right-of-way. No access to or ceremonial use of Indian sacred sites will be restricted. Nor will other impacts on tribal lands result.

(10) *Will the project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?* The Project will not contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area. Minimal to no ground disturbance will occur during this Project.



Washoan and Acoma Operational Efficiency Improvement Project

South Lake Tahoe Public Utility District

WaterSMART Small-Scale Water Efficiency Projects

Required Permits or Approvals

The Project will require compliance with the National Environmental Protection Act (NEPA) and the California Environmental Quality Act (CEQA). The work requires minimal ground disturbance and will be performed under a Categorical Exclusion / Categorical Exemption. The District has performed a biological and cultural resources assessment and completed an environmental checklist supporting the finding that the project is exempt. The NEPA/CEQA filing will occur in advance of project bidding in March 2023. Construction will occur under Tahoe Regional Planning Agency environmental mandates, and no other project permits are required.



Washoan and Acoma Operational Efficiency Improvement Project

South Tahoe Public Utility District

WaterSMART Small-Scale Water Efficiency Projects

Areas Affected

Areas Affected: City of South Lake Tahoe and portions of El Dorado County, California

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RESOLUTION NO. 3217-22

**A RESOLUTION BY THE BOARD OF DIRECTORS
OF THE SOUTH TAHOE PUBLIC UTILITY DISTRICT
BUREAU OF RECLAMATION WaterSMART:**

SMALL-SCALE WATER EFFICIENCY GRANT FISCAL YEAR 2022

BE IT RESOLVED, by the South Tahoe Public Utility District (STPUD) Board of Directors that the General Manager, and the Chief Financial Officer is hereby authorized and directed to sign and file, for and on behalf of the STPUD, a Financial Assistance Application for a financing agreement from the Bureau of Reclamation for the planning, design, and construction of the following project:

Pressure Reducing Valve Install with SCADA Communication Upgrades

And;

BE IT FURTHER RESOLVED, that the STPUD hereby agrees and further does authorize the aforementioned representative or his/her designee to certify that the Agency has and will comply with all applicable state and federal statutory and regulatory requirements related to any financing or financial assistance received from the Bureau of Reclamation; and

BE IT FURTHER RESOLVED that the STPUD Board of Directors supports the submission of an application under the Bureau of Reclamation WaterSMART Grant Program and certifies that STPUD is capable of the providing the amount of funding and in-kind contributions specified in the funding application; and

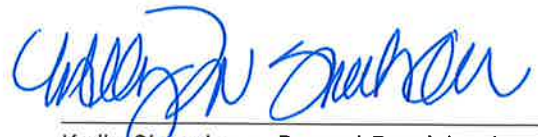
BE IT FURTHER RESOLVED that STPUD will work with Reclamation to meet established deadlines for entering into a grant or cooperative agreement.

NOW, THEREFORE, THE AGENCY DOES HEREBY RESOLVE, ORDER AND DETERMINE AS FOLLOWS:

- AYES: Romsos, Sheehan, Exline
- NOES: None
- ABSENT: Cefalu, Peterson

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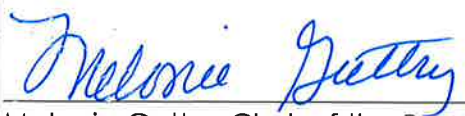
CERTIFICATION



Kelly Sheehan, Board President
South Tahoe Public Utility District

I do hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the STPUD Board of Directors held on April 21, 2022.

ATTEST:



Melonie Guttry, Clerk of the Board
South Tahoe Public Utility District