

Western Regional Water Commission

STAFF REPORT

DATE: May 15, 2020

TO: Chair and Members, Western Regional Water Commission (“WRWC”)

FROM: Jim Smitherman, Water Resources Program Manager

SUBJECT: Discussion and action on Northern Nevada Water Planning Commission (“NNWPC”) recommendations for a Third Amendment to the Interlocal Agreement with the University of Nevada, Reno (“UNR”), in an amount not to exceed \$64,655 from the Regional Water Management Fund (“RWMF”), to extend the term of the Advanced Water Treatment Technologies Demonstration Project for one year, through Fiscal Year (“FY”) 2020 – 2021; and if approved, authorize the Chair to execute the Amendment for that purpose; and possible direction to staff.

SUMMARY

The Advanced Water Treatment Technologies Demonstration Project is scheduled to be completed by the end of FY 2019-20, i.e., June 30, 2020. UNR has requested that the Project be extended by one year and that Project Tasks 4 through 7 be rescheduled for completion in FY 2020-21 to adjust for unanticipated delays beyond the control of UNR. The request also includes the reallocation of \$97,764 in FY 2019-20 funding to FY 2020-21 and \$64,665 in additional FY 2020-21 funding, which will increase the total Project budget to \$741,140. The funding request is summarized in the table below.

Project Year (Fiscal Year)	Current Amount \$	Change \$	Proposed Amount \$
1 (2016/2017)	83,739		83,739
2 (2017/2018)	243,178		243,178
3 (2018/2019)	111,540		111,540
4 (2019/2020)	238,017	<97,764>	140,253
5 (2020/2021)		162,428	162,428
TOTAL	676,475		741,140

The status of Project Tasks is summarized below, and shown in timeline format in the attached UNR request to amend the Interlocal Agreement:

Task 1 Rationale and Justification for Advanced Treated Reclaimed Water. Complete.

Task 2 Critical Review of Technologies. Complete.

Task 3 Basis of Design for Demonstration Project. Complete.

Task 4 Demonstration System Testing Plan. 90% Complete.

Task 5 Equipment Procurement and Installation. 90% Complete.

Task 6 Treatment System Shakedown and Startup. 90% Complete.

Task 7 Steady State Operation and Data Collection. 50% Complete.

Task 8 Reporting. Up to date and ongoing through Project completion.

Task 9 Workshops and Meetings. Up to date and ongoing through Project completion.

BACKGROUND

On August 17, 2016, the WRWC approved a total of \$676,475 from the RWMF for the 4-year Advanced Water Treatment Technologies Demonstration Project to be conducted by UNR and authorized the Chairman to execute an ILA with UNR for that purpose. Funding from other parties, including the City of Reno, City of Sparks, Washoe County and the Truckee Meadows Water Authority, will contribute to completion of certain aspects of the project that are above and beyond the tasks identified in the ILA.

FISCAL IMPACT

If approved, the fiscal impact to the RWMF will not exceed \$162,428 for Fiscal Year 2020-2021. The Fiscal Year 2020-2021 draft tentative budget recommended by the NNWPC for approved by the WRWC, includes adequate budget for this project. Budget authority is located in Fund Group 766, Fund 7066, Account Number 710100, Professional Services, Cost Object WP310203.

RECOMMENDATION

The Northern Nevada Water Planning Commission recommends approval of the request from UNR for a Third Amendment to the Interlocal Agreement, in an amount not to exceed \$64,655 from the RWMF, to extend the term of the Project for one year, through fiscal year 2020 – 2021, revise the Project schedule and reallocate funding amounts as described above.

POSSIBLE MOTION

“Move to approve the Third Amendment to the Interlocal Agreement, in an amount not to exceed \$64,655 from the RWMF, to extend the term of the Project for one year, through fiscal year 2020 – 2021, revise the Project schedule and reallocate funding amounts as described; and authorize the Chair to execute the Amendment for that purpose.”

JS:jp

Attachment



University of Nevada, Reno

Krishna Pagilla, PhD, PE

WEF Fellow, IWA Fellow

Ralph and Rose Hoeper Engineering Professor

Chair, Civil and Environmental Engineering

Director, Nevada Water Innovation Institute

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Date: 4/1/2020

To: Mr. James Smitherman, Western Regional Water Commission

Subject: Request to Amend Contract Agreement No: WRWC 1602-1

Dear Mr. Smitherman:

UNR is requesting amendment of the contract # WRWC 1602-1 between the University of Nevada, Reno and Western Regional Water Commission to reallocate the approved budget in Year 4 into Year 5, and request an additional budget (\$64,655 during Year 5) due to the delay in demonstration study at Reno-Stead WRF. We are requesting some funds from Fiscal Year 4 of the project be re-allocated to Fiscal Year 5 as per the attached budget table. Consequently, the overall project duration be modified to 5 years and the total budget be increased to 741,139.

Consequently, please amend line in Subsection 3.2.4 of the agreement as follows:

“The total amount of invoices paid pursuant to this Agreement shall not exceed the sum of \$741,139 from the RWMF, and shall not exceed the following amounts per fiscal year: \$ 83,739 for 2016/2017; \$243,179 for 2017/2018; 111,540 for 2018/2019; \$140,253 for 2019/2020; and 162,428 for 2020/21.”

The project tasks (start and completion dates) will be accordingly adjusted as follows to reflect the amendment requested. The requested end date for project is June 30, 2021. The scope of the project remains the same as included in the original agreement. Attached to this request, please find the revised schedule and per cent completion of each task as of this request.

Please do not hesitate to contact me in the regard, if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Krishna Pagilla".

Krishna Pagilla

Principal Investigator and Project Director

Table: Budget Table Showing Year 5 Funds including Funds Moved from Year 4 and New Request

Category	Year 5	Year 4 Funds Moved	New Request - Year 5
	\$	\$	\$
Personnel Expenses	96837	52000	44837
Travel Expenses	3000	3000	0
Materials and Supplies	5000	2000	3000
Services	5000	0	5000
Tuition Fees Expense	4264	4264	0
Total Direct Costs	114100	61264	52837
Total Modified Direct Costs	109837	57000	52837
Facilities and Administration Costs	48328	36500	11828
Total Direct and Indirect Costs	162,428	97,764	64,665

Advanced Water Treatment Technologies Demonstration Project Schedule

Task	Deliverables	2016		2017				2018				2019				2020				2021			
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
1. Rationale and Justification for Advanced Treated Recycled Water in the Truckee Meadows																							
	Vision/planning document for advanced treated recycled water	95%																					
2. Critical Review of Technologies that can meet NDEP Prop. Regulations																							
	Tech memo of treatment options and the selected alternative treatment train	95%																					
3. Basis of Design for the Demonstration Project																							
	Document of the demonstration project design basis, drawings, non-process design specifications			95%																			
4. Demonstration System Testing Plan																							
	Testing plan document/operating manual					90%																	
5. Demonstration System Equipment Procurement and Installation																							
	Record document of equipment and supplies procured, deviations from the design document, and manufacturers information					90%																	
6. Treatment System Shakedown and Startup																							
	Modified operations and maintenance document to include additional information							90%															
7. Operation of the Treatment Train and Data Collection																							
	Quarterly progress reports of individual unit and process performance							50%															
8. Reporting																							
	Quarterly progress reports																						
	Task reports																						
	Draft final report																						
	Final report																						
9. Workshops and Meetings																							
	Presentations for quarterly project meetings																						
	Workshops with independent panel																						
	Workshops with regional team, utilities, invited professional groups																						

Legend

- Completed
- In-Progress
- Upcoming