



# WASHOE COUNTY

Integrity Communication Service

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## STAFF REPORT

**800 MHZ JOINT OPERATING COMMITTEE MEETING DATE:** July 16, 2021

**DATE:** July 12, 2021 Thursday, April 14, 2022

**REVISED April 12, 2022**

**TO:** 800 MHz Joint Operating Committee

**FROM:** Melissa Lawney, Regional Communications Coordinator, Washoe County Technology Services 775-858-5952,  
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**THROUGH:** Quinn Korbolic, IT Manager – Regional Services, Washoe County Technology Services

**SUBJECT:** Recommendation to approve and recommend that the Board of County Commissioners approve expenditures for Washoe County Regional Communication System tower and shelter replacement at the Marble Bluff Communication Site at a cost not to exceed [\$350,000] from the Washoe County Regional Communication System fund.

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### **SUMMARY**

Recommendation to approve expenditures for Washoe County Regional Communication System (WCRCS) tower and shelter replacement at Marble Bluff Communication Site at a cost not to exceed [\$920,000] from the Washoe County Regional Communication System fund.

The Marble Bluff communication tower needs to be replaced because it is 230% overloaded and fails to meet the minimum ANSI/TIA222-H tower standard. The Telecommunications Industry Association (TIA) is accredited by the American National Standards Institute (ANSI) to develop voluntary, consensus-based industry standards for a wide variety of Information and Communication Technologies (ICT) products. These standards are used as standards for all Telecommunication related projects within the US, typically followed by Professional Engineers. The county assumes a great risk of the tower collapsing under certain weather conditions and poses a safety risk to the general public and anything within the surrounding area. This tower supports public safety radio communication around the pyramid lake area.

Due to the County's relationship with the Pyramid Lake Paiute Tribe PLPT, relative to Marble Bluff, the entities will need to negotiate additional terms that regarding ground disturbance on the reservation, including taxes owed to the Tribe. County Staff is working with PLPT to find a solution that is equitable and flexible enough to fit within our overall P25 Schedule. Additionally, it is believed that going through a smaller bid process separate from the P25/NSRS project will be more efficient for replacement of the tower and shelter.

**Washoe County Strategic Objective supported by this item:** Safe, Secure and Healthy Communities and Regional and Community Leadership

**PREVIOUS ACTION**

On April 16, 2021, the Joint Operating Committee an update to the Fiscal Year 2021-2022 budget that included additional budget authority in the amount of \$905,000 for infrastructure upgrades related to aging equipment.

**BACKGROUND**

In January 2003, Washoe County entered an agreement with the Pyramid Lake Indian tribe for the use of the Communication site at Marble Bluff. The agreement states in section 3.1 “The Government agrees to permit the county use, and the county agrees to use from the government a portion of the existing transmitter site facility and existing building located at Marble Bluff in order for the county to construct, install and operate at it’s sole expense the WCRCS transmitter site, to include indoor and outdoor transmitter equipment, a generator, air conditioning, and electrical.” On June 17<sup>th</sup>, 2021, WCRCS members met with Key stakeholder for the tribe to discuss this process of moving forward. Per section 5.1 “Except as otherwise provided herein, County agrees not to alter the premises without the prior consent of the tribe, which consent shall not be unreasonably withheld.”

Washoe County staff and staff from WCRCS member agencies have worked together over the last three years with L3Harris on plans to migrate from the Enhanced Digital Access Communication System (EDACS) to the P25 public safety radio standard protocol. The primary goal of the P25 Radio System Project is to provide a robust flexible system that support Public Safety communications with technology and Internet Protocol (IP) capable networking. The Radio system was established by the Washoe County Regional Communication System through a partnership with Nevada Department of transportation (NDOT), and NV Energy in 1990 with the desire to combine resources to build a radio system that covers the state of Nevada. By combining resources, all partners could save money by not having to pay for our own separate systems that would still need to communicate with one another.

Through a rigorous procurement and review process administered by NDOT, NDOT, Washoe County, and NV Energy selected a vendor to construct and implement the statewide radio system. Subsequently, NDOT, Washoe County and NV Energy each successfully negotiated and signed separate contracts for their respective portions of the radio system. Washoe County’s contract with Harris Communications Corp. was signed on September 27, 2018.

Marble Bluff communication tower engineered and constructed by Los Angeles Department of Water and Power (LADWP), built between 1947-1967. This tower is an angle tension steel structure, the same structures used in 110KV transmission towers. This tower is very unique and beautifully constructed for its time. The average recommendation for tower use is 50 years and are considered for replacement thereafter. The complimenting shelter contains asbestos within the brick walls and roof. Asbestos remediation can be expensive. The current HVAC (Heating Ventilation, Air Conditioning) system is in need of replacement, which would require cutting into the side walls of the shelter, and thus requiring asbestos remediation. The roof is also in need of replacement or repair, the costs of this repair and maintenance combined is the same cost

as it would be to replace the entire shelter. The current quote {21-5308-HGP (WC Marble NV - BUDGETARY) PROPOSAL (002)} only accounts for tower installation some grounding installation, equaling [\$211,580].

Construction Manager at Risk, (CMAR) contracted Fall 2021. Plenum Builder was chosen commencing a bid event through the county website. During the Engineering review, It was determined that a new transformer would need to be installed to accommodate the need of electrical improvement necessary to support the Public Safety Grade equipment. Existing 200Amp service would need to be upgraded to 300 Amp ( to support two building). Additional generator would be needed to support both buildings to support the EDACS equipment in one building to later abandon, and new building to support the P25 equipment. Battery system would be needed to support the new P25 Equipment. Fence repair and New grounding grid all necessary to remediate the site and make ready for P25 conversation.

### **FISCAL IMPACT**

The Fiscal Year 2021-2022 Budget has sufficient budget authority in the Washoe County Regional Communications System Fund (210) in RCS Infrastructure (210300), Public Works Construction (814092), in the amount not to exceed [\$920,000].

### **RECOMMENDATION**

Approve and recommend that the Board of County Commissioners approve expenditures for Washoe County Regional Communication System tower and shelter replacement at the Marble Bluff Communication Site at a cost not to exceed [\$920,000] from the Washoe County Regional Communication System fund.

### **POSSIBLE MOTION**

Should the committee agree with staff's recommendation, a possible motion would be: "Move to approve and recommend that the Board of County Commissioners approve expenditures for Washoe County Regional Communication System tower and shelter replacement at the Marble Bluff Communication Site at a cost not to exceed [\$920,000] from the Washoe County Regional Communication System fund."