



Request for Reimbursement for Washoe County Regional Communication System Microwave Link Connectivity to Public Safety Answering Points

Emergency Response Advisory Committee Meeting

April 17, 2025

Reimbursement for Microwave Links that connect directly to PSAPs



- Washoe County has installed microwave links as part of the Nevada Shared Radio System upgrade.
 - Microwave links to/from PSAPs are equipment utilized and necessary for “...transmitting information from a ‘user’ to an emergency responder and from an emergency responder to a ‘user.’” (NRS 244A.7641, definition of Telephone System)
- Recommendation to approve reimbursement for equipment, installation and implementation services for microwave links that **connect directly to regional Public Safety Answering Points** (PSAPs) for a cost not to exceed \$397,151.91.
- The 911 Committee funded a portion of the Microwave system in September of 2024, totaling \$208,991.19.
- Total cost of Washoe County Microwave System: \$2,633,123

WCRCS Microwave Infrastructure

Microwave Links connecting to PSAPS.

- Sparks Dispatch to Peavine
- Spectrum (NOC) to Peavine
- Chimney to NOC
- Virginia Peak to NOC
- Red Peak to NOC
- Edison Way to NOC
- Ophir to NOC
- Slide to NOC

Funded
Today's request



Reimbursement Costs



Microwave Design & Installation	Locations/Equipment								
	Edison Way	Ophir Peak	Peavine Mtn	Red Peak	Slide Mtn	Sparks Dispatch	Spectrum	Spare Microwave Equipment	Grand Total
Radio Equipment	\$21,395.57	\$33,920.15	\$49,054.33	\$33,123.51	\$45,679.37	\$21,395.57	\$41,192.75	\$48,484.40	\$294,245.62
Antennas	\$3,871.64	\$17,674.96	\$39,629.61	\$22,356.82	\$24,119.99	\$4,167.68	\$20,565.05	\$28,398.21	\$160,783.97
Add'l Mtrl Discount	(\$3,500.00)	(\$3,500.00)	(\$3,500.00)	(\$3,500.00)	(\$3,500.00)	(\$3,500.00)	(\$3,500.00)	(\$3,500.00)	(\$28,000.00)
Material Sale Price	\$27,209.00	\$60,118.88	\$106,479.92	\$64,975.41	\$82,874.20	\$27,579.06	\$72,822.24	\$91,728.26	\$533,786.98
Material Variance	(\$985.63)	\$3,394.31	\$2,813.71	\$3,266.08	(\$2,529.46)	(\$1,043.10)	\$1,464.81	\$44,929.01	\$51,309.73
Engineering & PM Svc	\$7,520.00	\$18,461.95	\$7,520.00	\$7,520.00	\$7,520.00	\$7,520.00	\$7,520.00	\$0.00	\$63,581.95
Installation Svc	\$39,630.25	\$39,630.25	\$78,019.35	\$30,000.00	\$39,630.25	\$27,594.82	\$39,630.25		\$294,135.17
Services Sale Price	\$62,238.33	\$76,681.70	\$112,911.94	\$49,526.40	\$62,238.33	\$46,351.56	\$62,238.33	\$0.00	\$472,186.60
Services Variance	\$14,467.44	\$23,705.07	\$25,532.08	(\$14,211.48)	(\$9,355.01)	(\$1,625.70)	(\$11,960.62)	(\$19,958.68)	\$6,593.10
Total	\$89,447.33	\$136,800.59	\$219,391.86	\$114,501.81	\$145,112.53	\$73,930.62	\$135,060.57	\$91,728.26	\$1,005,973.57
911 Reimbursement	1 microwave link	1 out of 2 microwave links	2 out of 6 microwave links	1 out of 3 microwave links	1 out of 4 microwave links	1 microwave link	7 Microwave Links		Total Costs for PSAP Microwave Links
	\$89,447.33	\$68,400.29	\$73,130.62	\$38,167.27	\$36,278.13	\$73,930.62	\$135,060.57	\$91,728.26	\$606,143.10

Approved on September 19, 2024

Detailed costs: Travel, Truck usage, Per diem, etc.



Truck usage:
\$5,045.00

Equipment Rental:
\$5,233.09

Travel from out of
state:
\$4,588.32

Per diem:
\$11,872.56

Peavine													Total by Row		
Truck usage \$2,370.00	Work Truck		ITL Work Truck - 94					3.00	day	180.00	\$ 180.00		\$540.00		
	Work Tuck		ITL Work Truck - 59					5.00	days	180.00	\$ 180.00		\$900.00		
	Work Tuck		ITL Work Truck - 90					1.00	days	180.00	\$ 180.00		\$180.00		
											\$ -		\$0.00		
	Trailer		Flat Trailer					4.00	Days	75.00	\$ 75.00		\$300.00		
											\$ -		\$0.00		
		Fuel					9.00	Days	50.00	\$ 50.00		\$450.00			
		Fuel Surcharge = \$50/Day/Truck													
Equip Rental \$3,659.63	Anritsu Rental		1.00	Lot	\$ 2,442.58	\$ 2,442.58						\$2,442.58			
	Ethernet Tester Rental		1.00	Lot	\$ 442.50	\$ 442.50						\$442.50			
	Flanging Dies		1.00	Lot	\$ 209.92	\$ 209.92						\$209.92			
	Anritsu Adapters		1.00	Lot	\$ 564.63	\$ 564.63						\$564.63			
Travel from out of State \$ 4,588.32	Anthony Lozar	Communicati	111.91				16.50	\$ 1,846.52				\$1,846.52			
	Randy Sanchez	Communicati	111.91				16.50	\$ 1,846.52				\$1,846.52			
	Justin Holt	Communicati	111.91		8.00			\$ 895.28				\$895.28			
Per Diem: \$7844.337	Total Per Diem												\$7,844.37		
Sparks PSAP															
Truck usage \$2,675.00	Work Truck		ITL Work truck 74					5.00	day	180.00	\$ 180.00		\$900.00		
	Work Truck		ITL Work truck 95					5.00	day	180.00	\$ 180.00		\$900.00		
											\$ -		\$0.00		
	Trailer		Flat Trailer					5.00	Days	75.00	\$ 75.00		\$375.00		
											\$ -		\$0.00		
		Fuel					10.00	Each	50.00	\$ 50.00		\$500.00			
Equip Rental \$1,573.46	Anritsu Rental		1.00	Lot	\$ 1,050.19	\$ 1,050.19						\$1,050.19			
	Ethernet Tester Rental		1.00	Lot	\$ 190.25	\$ 190.25						\$190.25			
	Flanging Dies		1.00	Lot	\$ 90.26	\$ 90.26						\$90.26			
	Anritsu Adapters		1.00	Lot	\$ 242.76	\$ 242.76						\$242.76			
Per Diem: \$4028.19	Total Per Diem												\$4,028.19		
TOTAL FOR BOTH SITES:															
													\$ 26,738.97		

TOTAL: \$26,738.97



Questions & Concerns?

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Thank you