

COUNTY OF MADERA
 BUDGET UNIT DETAIL
 BUDGET FOR THE FISCAL YEAR 2024-25

Department: MICROWAVE RADIO SERVICES
 (11300)
 Function: General
 Activity: Other General
 Fund: Microwave Radio Fund

	ACTUAL 2022-23	BOARD APPROVED 2023-24	DEPARTMENT REQUEST 2024-25	CAO RECOMMENDED 2024-25
BEGINNING FUND BALANCE	175,035	0	0	0
<u>ESTIMATED REVENUES:</u>				
640101 Interest on Cash	8,143	5,000	13,105	13,105
662742 Microwave Radio Service Charges	310,000	500,000	551,266	551,266
<u>TOTAL ESTIMATED REVENUES</u>	<u>318,143</u>	<u>505,000</u>	<u>564,372</u>	<u>564,372</u>
<u>EXPENDITURES:</u>				
OPERATING EXPENSES				
720800 Maintenance - Equipment	91,406	139,982	142,330	142,330
721400 Professional Specialized	150	0	13,065	13,065
730302 Retire Capital Lease (Equipment)	0	43,860	0	0
730330 Rents & Leases - Principal	289,306	259,806	273,080	273,080
740300 Fixed Assets	0	708,202	0	0
731400 Interfund Expenses	20,000	20,000	20,000	20,000
<u>TOTAL OPERATING EXPENSES</u>	<u>400,862</u>	<u>1,171,850</u>	<u>448,475</u>	<u>448,475</u>
<u>TOTAL EXPENDITURES</u>	<u>400,862</u>	<u>1,171,850</u>	<u>448,475</u>	<u>448,475</u>
Income Over / (Under) Expenses	<u>-82,719</u>	<u>(666,850)</u>	<u>115,897</u>	<u>115,897</u>
Carryover Restricted for Capital Replacement	-82,719	-666,850	115,897	115,897

MICROWAVE RADIO SERVICES

COMMENTS

In early Fiscal Year 2009-10, the County assumed full responsibility for operating and maintaining the Microwave Radio System. Approximately \$1 Million in new microwave radio equipment was acquired through a lease/purchase program and installed on existing tower locations that are leased from private owners. In Fiscal Year 2018-19, a Microwave Network Transformation project was completed. Madera County has contracted with Fresno County to maintain the radio system equipment as Fresno County owns and operates a large Microwave Radio System that utilizes some of the towers and equipment in Madera County. Madera County's Information Technology Department provides management of this function and budget.

The microwave Land Mobile Radio System (LMRS) service is used by several County Departments as a primary method of mobile communications throughout the County. The Departments currently using hand-held and/or vehicle-mounted radios include Sheriff, Fire, Probation, Corrections, Roads, and Animal Services. In addition, the microwave Multi-protocol Label Switching (MPLS) system is being leveraged to provide network data services to the County facilities in Chowchilla and Oakhurst.

Fiscal Year 2024-25

A Microwave System Upgrade is scheduled to start in Fiscal Year 2023-24, with an anticipated completion in Fiscal Year 2024-25. The Microwave System Upgrade will include the replacement of end-of-life equipment, that was not required to be replaced with the Microwave Network Transformation Project. The cost of the Microwave Radio System Upgrade and five-year Warranty/Maintenance is \$733,734.61 and will be funded through the Carryover Restricted for Capital Replacement.

As of June 30, 2023, the Cash Balance of Fund 0113, Microwave Radio Service was \$752,542.76 and will be used to fully fund the Microwave Radio System Upgrade.

NOTE: This is not a General Fund Budget.

ESTIMATED REVENUES

640101 **Interest on Cash** (\$13,105) is recommended increased \$8,105 based on projected returns on the cash balance of the Microwave Radio Fund.

MICROWAVE RADIO SERVICES

ESTIMATED REVENUES (continued)

662742 **Microwave Radio Service Charges** (\$551,266) is recommended increased \$51,266. This income will be used to pay for the actual cost of operating, maintaining the microwave radio system, and the Carryover Restricted for Capital Replacement.

OPERATING EXPENSES

720800 **Maintenance - Equipment** (\$142,330) is recommended increased \$2,348 for contracted maintenance services from Fresno County and maintenance agreements on equipment.

\$ 80,000	Fresno County- Support Contract
\$ 22,638	MCC No.10974-C-2017 Microwave Transformation Maintenance Agreement (Prepaid)
\$ 3,062	MCC No. 11130-18 Government Center connection to MPLS Network Maintenance Agreement (Prepaid)
\$ 9,238	MCC No. 11544-19 Maintenance Agreement 9500 MPR/TSM 8000
\$ 10,398	Microwave Switches Maintenance Agreement
\$ 4,816	MCC No. 1501863 Alcatel/Lucent Maintenance Agreement (Prepaid)
\$ 1,050	Federal Communications Commission (FCC) License
\$ 2,600	Crown Castle
\$ 8,528	Contract # MCC No. 12648-23 Microwave Radio Services Upgrade - Maintenance Agreement

721400 **Professional & Specialized** (\$13,065) is recommended increased \$13,065 to fund professional services to replace Advanced Power Solutions (APS) at the Microwave Radio sites.

730302 **Retire Capital Lease** (\$0) is recommended decreased \$43,860 as the lease for microwave radio equipment is now paid in full.

730330 **Rents & Leases - Principal** (\$273,080) is recommended increased \$13,274 and includes the costs for leasing existing tower space from private landowners.

\$ 2,880	Mobile Communication, Inc.
\$ 270,200	Crown Castle/ City of Madera

MICROWAVE RADIO SERVICES

OPERATING EXPENSES (continued)

740300 **Fixed Assets** (\$0) is recommended decreased \$708,202.

731400 **Interfund Expenses** (\$20,000) is recommended unchanged to appropriately assign labor expended from the Office of Information Technology to coordinate all microwave activities and upgrades.

Carryover Restricted for Capital Replacement of \$115,897 is recommended increased \$782,747.