

Radio Internal Service Fund

General Government

Chris Cruz, Information System Director

Internal Service Fund	2017-2018 Actual	2018-2019 Adjusted	2019-2020 Requested	2019-2020 Recommended	Increase/ (Decrease)
Expenditures					
Services & Supplies	\$2,569,114	\$2,668,295	\$3,035,677	\$3,035,677	\$367,382
Centrally-Budgeted Expenses	352,998	416,328	387,709	387,709	(28,619)
Fixed Assets	48,937	64,000	0	0	(64,000)
Depreciation	0	22,890	26,118	26,118	3,228
Total Appropriations	\$2,971,049	\$3,171,513	\$3,449,504	\$3,449,504	\$277,991
Earned Revenues By Source					
Interest/Rents	\$8,048	\$6,000	\$3,500	\$3,500	(\$2,500)
MP-TEL-RADIO Revenue	2,453,266	3,056,937	3,446,004	3,446,004	389,067
Total Revenues	\$2,461,314	\$3,062,937	\$3,449,504	\$3,449,504	\$386,567
Revenues Over/(Under) Expenses	\$509,735	\$108,576	\$0	\$0	(\$108,576)

- MP-TEL-RADIO revenue includes charges to user departments for Radio operating costs.

Purpose

The Radio Internal Service Fund (ISF) (#827000000) exists for the purpose of centralizing the administrative and operating costs of the County's radio communications system. These costs are recovered through charges to user departments. In addition to reimbursement of actual costs, the departmental billings include recovery of depreciation expenses.

Major Budget Changes

Services & Supplies

- \$303,969 Increase in finance payments and lease costs.
- \$82,989 Increase in professional services for radio installations and site moves.
- \$41,743 Increase in cell phone and wide area network costs.
- \$9,433 Increase in administrative charges from Telephone ISF.
- (61,015) Decrease in radio equipment maintenance costs.
- (\$4,100) Decrease in small tools costs.

- (\$3,000) Decrease in equipment fuel costs.

Centrally-Budgeted Expenses

- \$8,275 Increase in data processing charges.
- (\$36,675) Cost Allocation Plan adjustment.

Other Charges

- \$3,228 Increase in depreciation expense.

Revenues

- \$389,067 Increase in charges to user departments.

Program Discussion

During 2019-2020, departments have an operational need for a modest number of new radios and for the replacement of radio equipment seven years or older. The equipment recommended for purchase is consistent with the technologies identified in the County's Master Radio Communications Plan.

Below is a list of radio equipment recommended for purchase in 2019-2020 and the associated annual finance costs:

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<i>Department</i>	<i>Equipment</i>	<i>Costs</i>
Replacement Equipment		
<i>District Attorney</i>	<i>2 portables</i>	\$2,191
<i>Flood Channel Maint</i>	<i>5 portables</i>	4,931
<i>Hospital</i>		
<i>Emergency</i>	<i>10 mototurbo</i>	1,909
<i>Engineering</i>	<i>16 mototurbo</i>	3,054
<i>Security</i>	<i>7 mototurbo</i>	1,336
<i>Probation</i>		
<i>Juvenile Detention</i>	<i>7 portables</i>	7,162
<i>Public Works</i>		
<i>Solid Waste</i>	<i>12 portables</i>	11,834
<i>Radio ISF</i>	<i>1 portable</i>	1,520
<i>Sheriff</i>		
<i>Administration</i>	<i>1 mobile</i>	1,027
<i>Boating Safety</i>	<i>1 mobile</i>	1,529
<i>Cal MMET</i>	<i>18 portables</i>	28,480
<i>Custody</i>	<i>2 console</i>	36,696
<i>Custody</i>	<i>1 mobile</i>	1,119
<i>Mountain House</i>	<i>1 mobile</i>	1,119
<i>Patrol</i>	<i>11 mobile</i>	12,312
<i>Patrol</i>	<i>1 portable</i>	1,044
<i>Stockton Metropolitan</i>	<i>2 portables</i>	3,164
<i>Airport</i>		
New Equipment		
<i>District Attorney</i>	<i>7 mobiles</i>	9,458
<i>District Attorney</i>	<i>7 portables</i>	7,670
<i>Probation</i>		
<i>AB109</i>	<i>6 portables</i>	6,402
<i>Juvenile</i>	<i>6 portables</i>	6,402
<i>Juvenile Detention</i>	<i>4 portables</i>	4,147
<i>Public Works</i>		
<i>Road Maintenance</i>	<i>20 portables</i>	19,724
<i>Solid Waste</i>	<i>12 portables</i>	11,834
Total		\$186,064

During 2018-2019, the Information Systems Division (ISD) focused on the following projects:

- **Expanded Testing of the Public Safety Radio Trunking System** - ISD established access to the Public Safety Radio Trunking System to additional public safety entities to test the system in order to confirm the capabilities of the technology in a variety of public safety settings.
- **Developed Strategy for Replacement of the County's Local Government and Interoperable Radio Equipment** - ISD developed a strategy for the replacement and upgrade of the radio equipment that supports local government customers and all public

safety entities using the County's interoperable radio channel. The existing equipment is approximately 10 years old and is being discontinued by the manufacturer.

- **Encrypt the Sheriff's Radio Channels** - ISD continued its efforts to implement governance structures and technologies necessary for the encryption of the San Joaquin County Sheriff's Office radio communications. ISD partnered with the radio equipment manufacturer to develop a comprehensive deployment strategy for radio encryption.

During 2019-2020, ISD intends to:

- **Expand Testing of the Public Safety Radio Trunking System** - Radio trunking technology allows multiple public safety organizations to coexist on a single radio system and seamlessly inter-operate during an emergency involving multiple agencies. ISD, in partnership with various local public safety organizations, will expand access to the pilot trunk system to additional first responders.
- **Relocate Public Safety Equipment in the town of Clements** - ISD will relocate radio equipment from the existing radio tower and facility at the Clements Fire Station to the newly constructed tower and radio facility on the same property.
- **Upgrade Public Safety Radio Equipment Infrastructure** - ISD will upgrade the County's Public Safety Radio Infrastructure to the most current hardware and software versions supported by the equipment manufacturer.
- **Encrypt the Sheriff's Radio Channels** - ISD will continue its efforts to implement technology that will encrypt the Sheriff's Office radio communications. Coordination with local public safety entities and the Sheriff's Office will continue, and once all appropriate public safety organizations are prepared for the change, the encryption technology will be placed into operation.
- **Develop Cost Estimate and Timeline for Replacement of the County's Local Government and Interoperable Radio Equipment** - ISD will work with radio vendors to develop a cost estimate and timeline to implement the replacement strategy for the Local Government and Interoperable Radio equipment.

Radio ISF Fund Balance

Program costs in the Radio ISF budget are fully reimbursed by user departments for services rendered. As of March 31, 2019, the Radio ISF had a fund balance of \$175,451, which serves as the working capital for various programs/operations under the ISF.