TOPAZ
Detail of Operating and Maintenance
Fiscal Year 2023 / 2024

Description	Budget	Updated Forecast	YTD Forecast*	YTD Actual	$ Var From YTD Forecast Incr/(Decr)	% Var From YTD Forecast
	Year to Date Through April 30, 2024					
Personnel Services	$ 777,727	$ 777,727	$ 568,339	$ 502,830	$ (65,509)	-12%
Insurance Premiums	9,714	9,714	8,095	-	(8,095)	-100%
Temp Services	6,857	6,857	5,714	99	(5,615)	-98%
Leases and Rents - Land	26,770	26,770	22,308	24,224	1,916	9%
Professional Services - Consulting	103,156	103,156	85,963	80,671	(5,292)	-6%
Professional Services - Other-combining legal, consulting	186,708	186,708	155,590	70,799	(84,791)	-54%
Utilities	87,920	87,920	73,267	64,507	(8,760)	-12%
Telephone	3,886	3,886	3,238	2,918	(320)	-10%
Networking Subscription Costs	12,960	12,960	10,800	-	(10,800)	-100%
Repairs & Maintenance	37,551	37,551	31,293	27,117	(4,176)	-13%
Equipment Usage (Vehicles)	24,226	24,226	20,188	17,405	(2,783)	-14%
All Other Services	44,020	44,020	36,683	582	(36,101)	-98%
Sub-total Services	543,768	543,768	453,139	288,322	(164,817)	-36%
Motorola Contract	1,082,910	1,082,910	902,425	582	(901,843)	-100%
Juniper Software	72,967	72,967	60,806	32,130	(28,676)	-47%
Materials & Parts	33,538	33,538	27,948	1,648	(26,300)	-94%
Non Cap Assets	14,284	14,284	11,903	8,758	(3,145)	-26%
All Other Commodities	-	-	-	-	-	0%
Sub-total Commodities	1,203,699	1,203,699	1,003,082	43,118	(959,964)	-96%
Subtotal O&M	2,525,194	2,525,194	2,024,560	834,270	(1,190,290)	-59%
Contingency - 5.0% of total O&M	126,260	126,260	105,217	-	(105,217)	-100%
VHF Operations	60,221	60,221	50,184		(50,184)	-100%
Total	$ 2,711,675	$ 2,711,675	$ 2,179,961	$ 834,270	$ (1,345,691)	-62%

*YTD Forecast represents 10 months of operational costs plus any contractual expenses already incurred (i.e. one time payments such as Insurance Premiums, Land Rental and Motorola Contract).

TOPAZ
Detail of Capital Projects **Year to Date Through April 30, 2024**
Fiscal Year 2023 / 2024

Project	Project ID	Budgeted	YTD Forecast*	YTD Actual	$ Var From YTD Forecast Incr/(Decr)	% Var
Site Expansion #1 H60	CP0091	2,015,162	1,511,372	1,263,658	$ (247,714)	-16.39%
Site Expansion #2 WOL	CP0754CAP	1,742,001	1,306,501	61,808	$ (1,244,693)	-95.27%
Site Expansion #3 QC Land Purchase	CP0779	475,000	356,250	-	$ (356,250)	-100.00%
TOPAZ Voice Radio Network Upgrade	CN0022	-	-	-	$ -	0.00%
Upgrade Shaw Bute & Florence Gardens to P25 Phase II	CP0906	526,911	395,183	-	(395,183)	-100.00%
Wireless Backhual (Microwave) Network Lifecycle Upgrade	LF0403CAP	431,476	323,607	1,100	(322,507)	-99.66%
Enhanced Data TBD		371,000	278,250	-	(278,250)	-100.00%
System-of-Systems Networking	CP0438	-	-	-	-	0.00%
Fire Hazard Zone System Coverage Improvement & Expansion	CP0907	450,000	337,500	-	(337,500)	-100.00%
Fire Hazard Zone System Lifecycle Upgrade	LF0465CAP	147,500	110,625	-	(110,625)	-100.00%
Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade	LF0402POM	-	-	2,216	2,216	0.00%
System-of-Systems	CP0905	-	-	-	-	0.00%
Florence Gardens ISR Site Lifecycle upgrade	LF0224	-	-	-	-	0.00%
Radio & Core Sites Battery Backup Lifecycle Upgrade	LF0266	61,910	46,433	-	(46,433)	-100.00%
Radio Sites Emergency Power Upgrade	LF0226	71,825	53,869	-	(53,869)	-100.00%
Communications Building UPS Battery Replacement	LF0228	17,700	13,275	15,675	2,400	18.08%
Internet Protocol Network Routers & Switches Upgrade	LF0248	480,000	360,000	-	(360,000)	-100.00%
Antenna & Transmission Lines Lifecycle Upgrade	LF0282	-	-	-	-	0.00%
Consulting Services for VHF & 7/800 MHz Coverage Expansion		-	-	-	-	0.00%
Total Capital Projects		$ 6,790,485	$ 5,092,865	$ 1,344,457	$ (3,748,408)	-73.60%
Capital Assessment to Members						
Mesa	65.37%	1,226,380	919,785	618,947	(300,838)	-32.71%
Gilbert	16.52%	355,841	266,881	165,076	(101,805)	-38.15%
Apache Junction	10.45%	167,391	125,543	96,536	(29,007)	-23.11%
Ft McDowell	1.71%	40,486	30,365	15,922	(14,443)	-47.56%
Superstition Fire & Medical	0.82%	13,072	9,804	7,440	(2,364)	-24.11%
Queen Creek	5.09%	11,801	8,851	51,846	42,995	485.76%
Rio Verde	0.04%	545	409	483	74	18.09%
Total Assessment to Members	100.00%	$ 1,815,516	$ 1,361,638	$ 956,250	$ (405,388)	-29.77%

*YTD Forecast represents 9 months of project costs plus any contractual expenses already incurred (i.e. one time payments).

Date: 05/13/2024

To: TOPAZ Regional Wireless Cooperative (TRWC) Board of Directors

Through: Dale Shaw, TRWC Executive Director

From: Chuck Craig

Subject: Administrator Update

P25 System status

During the past 6 months the TOPAZ P25 has not had any system outages, there have been 2 minor microwave interruptions at the Florance Garden site (19 seconds). These interruptions did not negatively impact the system or the ability of PS personnel to use the trunked system.

We have seen steady usage of the radio system with monthly highs in August 2023, March 2024, April 2024, with an average of 648 hours per month. The following table details the system busies we have encountered this fiscal year

	Busies	Duration in Seconds
June 2023	1	5
August 2023	1	15
October 2023	2	9
January 2024	1	5
March 2024	2	0
	7	34

Airtime usage details

	TRWC O&M	**TRWC Capital**
Superstition Fire & Medical District	0.84%	0.84%
City of Apache Junction	9.49%	9.54%
Town of Gilbert	17.00%	17.09%
City of Mesa	*64.93%*	*65.26%*
Fire	10.93%	7.06%

Police	51.32%	55.08%
Municipal	2.68%	3.13%
Southwest Ambulance	0.00%	
Town of Queen Creek	5.53%	5.56%
Rio Verde Fire District	0.14%	0.14%
American Medical Response	0.51%	
Ft. McDowell Yavapai Nation	1.38%	1.39%
Fountain Hills Fire	0.17%	0.17%
	100.00%	100.00%

General Operations

Tower work was completed at Twin Knolls bringing that site into ANSI/TIA – 222H compliance. The Motorola SUA supported system software, with associated server replacements began in October 2023 with punch list items completed February 2024. This was one of the smoothest upgrades we have had! ActiveEye implementation is moving forward. The Mesa Admin team has begun training and is actively working with the Town of Gilbert to complete their installation of the system.

Router Replacement Project

As part of the SUA, Motorola will be replacing all our ageing routers. This upgrade is covered by the SUA and will include VHF (non SUA) routers. They have also indicated an outage will be necessary when we upgrade to Juniper, this outage is in the planning for calendar in Q3/2024. When we get the installation details from Motorola, we will put a communication plan together with our partner agencies, with a plan minimizing the impact on our public safety radio network.

H60 Expansion

The ribbon cutting event on April 23rd was an overwhelming success. There was an excellent write-up in the Mesa Independent newspaper detailing the benefits this site brings to the residents of the east valley. There are several punch list items which need to be completed before the site goes live, but these should be in-place by the end of June 2024.

Wolverine Expansion Site

We have a signed lease with the US Forest Service for use of the Wolverine Site. We have begun working with various vendors to do core samples to determine where we can build our 160' tower, removal of the existing tower and needed road construction. If things go well this site could be up by the end of 2024.

SE Valley Expansion site

We are continuing to work with Mesa and Queen Creek real estate on finding a location in or around Queen Creek. Mesa COMMs will setup a meeting in the next few weeks with QC real estate and PD to continue this discussion