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## **TRWC Board of Directors Meeting**

September 26, 2024 - 2:00 p.m.

Gilbert Public Safety Training Facility

Apollo Room

6860 S Power Rd

Gilbert, AZ 85295

### **Agenda**

1) Call to Order and Opening Comments

- a. Materials and sign-in sheet
- b. Speaker cards
- c. Audio and video recording
- d. Board representative roll-call

2) Public Comment

Members of the public may address the Board on items not on the printed agenda. Please complete a "Request to Speak Card", located at the entry of the room and promptly turn it in to the Executive Director or designee.

3) Discussion and Action on Board Meeting Minutes

May 22, 2023, Board Meeting Minutes

4) Executive Committee Updates – Co-Chair Chief Duggan & Co-Chair Lieutenant King

5) Discussion and Possible Action on the FY 25/26 Preliminary Budget – Executive Director Shaw, Angie Huckaby

*In the event that action is taken, a Super Majority vote will be required.*

6) Network Administrator Updates

- a. Finance Update – Angie Huckaby
- b. Network Updates and Performance Overview – Chuck Craig

7) FirstNet & AT&T Updates – Rich Johnson

8) Comments from the Board

An opportunity will be provided for Board members to present a brief summary of current events. The Board is not allowed to propose, discuss, deliberate or take action at the meeting on any matter in the summary, unless the specific matter is properly noticed for legal action.

9) Future Board of Directors Schedule

Date	Upcoming Agenda Items
January 16, 2025	Chair Election
May 22, 2025	
September 25, 2025	Budget Adoption, Vice Chair Election
Q4	If necessary

10) Adjournment



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## TRWC Board of Directors Meeting - Minutes

May 22, 2024 - 2:00 p.m.

Virtual Teams Meeting

### Agenda

#### 1) Call to Order and Opening Comments

- a. Materials and sign-in sheet
- b. Speaker cards
- c. Audio and video recording  
Chair Busby called the meeting to order and welcomed the attendees. He also provided instructions on the process for public comment and reminded the participants the meeting is audio recorded.
- d. Board representative attendees: Chair Busby, Director Duggan, Director Butler, Director Smith, Director Gray, Director Ott

#### 2) Public Comment

Members of the public may address the Board on items not on the printed agenda.

No public comment email requests were received.

#### 3) Discussion and Action on Board Meeting Minutes

There were no questions or comments on the Board Meeting Minutes for October 5, 2023. Director Butler motioned for an approval of the minutes and Director Duggan second the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

#### 4) Executive Committee Updates – Co-Chair Chief Duggan & Co-Chair Lieutenant King

Co-Chair Duggan informed the Board that the systems have been functioning well, so there are no issues to report on at this time. All the installations are moving forward, and the teams are getting the systems set up and upgraded. He thanked everyone that came out to the H60 Tower event stating that it's not something we get to do very often. He also said that it's important to understand the criticality of the infrastructure and it's always impressive to see the equipment working and getting installed.

#### 5) Network Administrator Updates

- a. Finance Update – Angie Huckaby  
For the Operations budget Ms. Huckaby announced that there will be approximately 200,000 savings that will be split back up between the agencies. She also stated that the Motorola contract will be posted to the budget by the end of the week.  
For the Capital budget most of the projects were not able to start for various reasons. The agencies will be asked for a carryover amount of a little over \$4 million into next year's budget to be able to work on the projects that were not able to be started this year.
- b. Network Updates and Performance Overview – Chuck Craig  
Mr. Craig stated that we have not had any system outages in the past 6 months. There have been 2 minor microwave interruptions, but the interruptions did not negatively impact the system or the ability of PS personnel to use the trunked system. The airtime usage remains

steady as seen on the rolling average spreadsheet.

Tower work was completed at Twin Knolls bringing the 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. Mr. Craig stated that this was one of the smoothest upgrades that they 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.

As part of the SUA, Motorola will be replacing all the 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 they upgrade to Juniper, this outage is in the planning for Q3/2024.

The H60 Tower Expansion event went well, the tower now has SRP power, and the radios are on. Mr. Craig's team is working on a punch list with Engineering and will start their drive-test to determine how some of the expansion is improving.

The Wolverine site received approvals for the 160-foot tower from the Forest Service. The core samples are complete, and this will determine the best location for the tower.

Mr. Craig's team will be meeting with Queen Creek regarding a site in the Southeast Valley.

There were no questions or concerns from the Board for Mr. Craig or Ms. Huckaby.

6) Comments from the Board

An opportunity will be provided for Board members to present a brief summary of current events. The Board is not allowed to propose, discuss, deliberate or take action at the meeting on any matter in the summary, unless the specific matter is properly noticed for legal action.

No comments were made by the Board.

7) Future Board of Directors Schedule

Date	Upcoming Agenda Items
Sept 2024	Budget Adoption

8) Adjournment

Chair Busby adjourned the meeting at 2:20.



**Date:** September 26, 2024  
**To:** Topaz Regional Wireless Cooperative (TRWC) Board of Directors  
**From:** Dale Shaw, TRWC Executive Director  
Rob Duggan, TRWC Executive Committee Co-chairman  
Jason King, TRWC Executive Committee Co-chairman  
**Subject:** Fiscal Year 2025/2026 Budget

### **Recommendation**

The TRWC Executive Director and Executive Committee recommends the review and consideration of the Preliminary TRWC Budget (attached) in the amount of \$11,530,453 for Fiscal Year 2025/2026.

### **Background & Discussion**

The attached Preliminary Budget for Fiscal Year 2025/2026 has been under review and endorsed by the TRWC Executive Committee. When compared to the current 2024/2025 Fiscal Year Budget, the proposed Operating & Maintenance expenses will increase by \$906,056 (predominately due to increases in Motorola contract, equipment maintenance, and support contract costs). When compared to the previously presented forecast, Capital expenditures will increase by \$1,489,171 (predominately due to expansion sites development, device interoperability improvements, and various equipment lifecycle upgrade costs).

### **Fiscal Impact**

The Preliminary Budget represents the total planned contribution by all member agencies for the ongoing operation, maintenance, and improvement of the TRWC radio network. Each member agency will be invoiced as actual expenditures occur on a monthly basis using the cost allocation methodology outlined in the adopted Budget.



### **Current Year Capital expenditures**

For the current fiscal year 2025 there are budgeted capital project which are being canceled, they are:

Interface for non-Motorola Dispatch Console	CP1199	\$225,000
TOPAZ P25 Voice Radio Network Lifecycle Upgrade	LF0269	\$350,000
P25 Network In-Bound Data Enhancement	LF0515	\$371,000

**TRWC Operating & Maintenance Budget  
Summary of Labor and Non-labor**

**ESCALATION FACTOR**

Salaries and Wages  
**Total Labor**

**ESCALATION FACTOR (Dropping down from 6% to 3% assuming no hyperinflation)**

**GENERAL & ADMINISTRATIVE - OTHER SERVICES**

Temp Services  
Prof Services - Legal  
Prof Services - TRWC Executive Director & Consulting & Other  
Ins. Premiums - Agencies  
Utilities  
Telephone  
Repairs & Maint  
Equipment Usage (Vehicles)  
Shaw Butte & Florence Gardens  
Training  
Travel  
Networking Subscription Costs -(FirstNet)  
All Other Services

**TOTAL OTHER SERVICES**

**GENERAL & ADMINISTRATIVE - COMMODITIES**

Non Cap Assets  
Contract - Motorola (Preventative & Security Monitoring) **Actual plus 8% tax**  
Software Maint-Avail,Juniper  
Materials & Repair Parts  
All Other Commodities

**TOTAL COMMODITIES**

**OTHER BUDGET ITEMS**

**PROPOSED CONTINGENCY - 1.5%**  
**VHF OPERATIONS Equipment Repair**  
**VHF Equipment Staff Time**  
**TOTAL OTHER BUDGET ITEMS**

**Total Operating & Maintenance**

**O&M - AIRTIME PERCENTAGE (1)**

Mesa  
Gilbert  
Apache Junction  
Ft McDowell  
Superstition Fire & Medical  
Queen Creek  
Rio Verde  
Southwest Ambulance  
American Medical Response  
Fountain Hills  
**Total**

**VHF SPECIAL ASSESSMENT (2)**

Mesa Fire & Medical  
Gilbert Fire  
Superstition Fire & Medical  
Queen Creek Fire  
Rio Verde Fire  
Fountain Hills  
**Total**

**ANNUAL ESTIMATED REVENUE: OPERATING & MAINTENANCE**

Mesa  
Gilbert  
Apache Junction  
Ft McDowell  
Superstition Fire & Medical  
Queen Creek  
Rio Verde  
Southwest Ambulance  
American Medical Response  
Fountain Hills  
**TOTAL**

FY24/25 Adopted BUDGET	FY25/26 DRAFT BUDGET	Straightline FORECAST				
		FY 26/27	FY 27/28	FY 28/29	FY 29/30	FY 30/31
3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
\$ 865,861	\$ 891,837	\$ 918,592	\$ 946,150	\$ 974,534	\$1,003,770	\$1,033,884
\$ 865,861	\$ 891,837	\$ 918,592	\$ 946,150	\$ 974,534	\$1,003,770	\$1,033,884
3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
\$ 7,268	7,486	\$ 7,711	\$ 7,942	\$ 8,180	\$ 8,426	\$ 8,678
\$ 102,500	62,500	64,375	\$ 66,306	\$ 68,295	\$ 70,344	\$ 72,455
\$ 211,845	218,200	224,746	\$ 231,489	\$ 238,433	\$ 245,586	\$ 252,954
\$ 10,297	10,606	10,924	\$ 11,252	\$ 11,589	\$ 11,937	\$ 12,295
\$ 93,195	95,991	98,871	\$ 101,837	\$ 104,892	\$ 108,039	\$ 111,280
\$ 4,119	4,243	4,370	\$ 4,501	\$ 4,636	\$ 4,775	\$ 4,918
\$ 137,051	141,163	145,397	\$ 149,759	\$ 154,252	\$ 158,880	\$ 163,646
\$ 32,607	33,585	34,593	\$ 35,631	\$ 36,699	\$ 37,800	\$ 38,934
\$ 26,770	27,573	28,400	\$ 29,252	\$ 30,130	\$ 31,034	\$ 31,965
\$ 23,331	24,031	24,752	\$ 25,494	\$ 26,259	\$ 27,047	\$ 27,858
\$ 23,331	24,031	24,752	\$ 25,494	\$ 26,259	\$ 27,047	\$ 27,858
\$ 13,738	14,150	14,575	\$ 15,012	\$ 15,462	\$ 15,926	\$ 16,404
\$ -	-	-	\$ -	\$ -	\$ -	\$ -
\$ 686,052	\$ 663,559	\$ 683,465	\$ 703,969	\$ 725,088	\$ 746,841	\$ 769,246
\$ 211,708	218,059	\$ 224,601	\$ 231,339	\$ 238,279	\$ 245,428	\$ 252,790
\$ 1,453,148	2,331,013	\$2,373,535	2,403,549	2,434,452	2,434,452	2,507,485
\$ 72,967	75,156	\$ 77,411	79,733	82,125	84,589	87,126
\$ 35,550	36,617	\$ 37,715	38,846	40,012	41,212	42,449
\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,773,373	\$2,660,845	\$2,713,262	\$ 2,753,468	\$ 2,794,868	\$2,805,680	\$2,889,850
\$ 49,879	63,890	\$ 65,807	\$ 67,781	\$ 69,814	\$ 71,909	\$ 74,066
\$ 28,795	29,659	\$ 30,549	31,465	32,409	33,381	34,383
\$ 29,098	29,971	\$ 30,870	31,796	32,750	33,733	34,745
\$ 107,772	\$ 123,520	\$ 127,225	\$ 131,042	\$ 134,973	\$ 139,023	\$ 143,193
\$ 3,433,057	\$4,339,760	\$4,442,545	\$ 4,534,629	\$ 4,629,464	\$4,695,314	\$4,836,173
65.34%	65.34%	65.34%	65.34%	65.34%	65.34%	65.34%
16.49%	16.49%	16.49%	16.49%	16.49%	16.49%	16.49%
9.16%	9.16%	9.16%	9.16%	9.16%	9.16%	9.16%
1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%
0.95%	0.95%	0.95%	0.95%	0.95%	0.95%	0.95%
5.64%	5.64%	5.64%	5.64%	5.64%	5.64%	5.64%
0.17%	0.17%	0.17%	0.17%	0.17%	0.17%	0.17%
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.59%	0.59%	0.59%	0.59%	0.59%	0.59%	0.59%
0.33%	0.33%	0.33%	0.33%	0.33%	0.33%	0.33%
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
64.21%	64.21%	64.21%	64.21%	64.21%	64.21%	64.21%
16.14%	16.14%	16.14%	16.14%	16.14%	16.14%	16.14%
7.78%	7.78%	7.78%	7.78%	7.78%	7.78%	7.78%
7.73%	7.73%	7.73%	7.73%	7.73%	7.73%	7.73%
1.43%	1.43%	1.43%	1.43%	1.43%	1.43%	1.43%
2.71%	2.71%	2.71%	2.71%	2.71%	2.71%	2.71%
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
\$ 2,242,505	\$2,834,925	\$2,902,065	\$ 2,962,212	\$ 3,024,155	\$3,067,160	\$3,159,175
\$ 565,909	\$ 715,418	\$ 732,361	\$ 747,539	\$ 763,171	\$ 774,022	\$ 797,243
\$ 309,165	\$ 392,060	\$ 401,311	\$ 409,577	\$ 418,090	\$ 423,943	\$ 436,661
\$ 44,890	\$ 56,926	\$ 58,269	\$ 59,469	\$ 60,705	\$ 61,555	\$ 63,402
\$ 36,568	\$ 45,300	\$ 46,399	\$ 47,400	\$ 48,430	\$ 49,189	\$ 50,665
\$ 194,834	\$ 246,009	\$ 251,843	\$ 257,075	\$ 262,464	\$ 266,218	\$ 274,205
\$ 6,566	\$ 8,129	\$ 8,326	\$ 8,506	\$ 8,691	\$ 8,828	\$ 9,092
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 19,913	\$ 25,253	\$ 25,849	\$ 26,381	\$ 26,929	\$ 27,306	\$ 28,126
\$ 12,707	\$ 15,740	\$ 16,122	\$ 16,470	\$ 16,828	\$ 17,092	\$ 17,605
\$ 3,433,057	\$4,339,760	\$4,442,545	\$ 4,534,629	\$ 4,629,464	\$4,695,314	\$4,836,173

(1) Normal partner assessments are allocated based on the July 2022 6-month rolling average airtime and will change based on actual monthly data.

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TRWC Capital Budget Plan

PROJECT	ID	FY 23/24		FY 24/25 W/ Carry Over	Proposed FY25/26 (Prior year)	New Proposal FY 25/26	New Proposal FY 26/27	New Proposal FY 27/28	New Proposal FY 28/29	New Proposal FY 29/30	New Proposal FY 30/31	TOTAL 6 Years	24/25 Difference (Carry over)
		W/Carry Over	FY24/25										
<b>ESCALATION FACTOR</b>													
Site Expansion #1 H60	CP0091	2,940,000	570,640	468,527	-	-	-	-	-	-	-	\$ 468,527	\$ (102,113)
Site Expansion #2 WOL	CP0754	1,742,001	1,126,432	2,842,951	-	-	-	-	-	-	-	\$ 2,842,951	\$ 1,716,519
Site Expansion #3 QC Land Purchase	CP0779	475,000	1,487,300	1,962,300	1,200,000	2,334,505	-	-	-	-	-	\$ 4,771,805	\$ 475,000
Interface for non-Motorola Dispatch Console (1)	CP1199	-	225,000	-	-	-	-	-	-	-	-	\$ -	\$ (225,000)
Upgrade Shaw Butte and Florence Gardens to P25 Phase II (TDMA)	CP0906	-	-	-	-	-	-	-	-	-	-	\$ -	\$ -
Radio Sites Emergency Power Upgrade	LF0226	71,825	-	-	-	-	-	-	-	-	-	\$ -	\$ -
Communications Building UPS Battery Replacement	LF0228	17,700	-	-	-	18,036	-	-	-	-	-	\$ 18,036	\$ -
Internet Protocol Network Routers & Switches Upgrade (Work in FY25)	LF0336	480,000	513,600	513,600	549,552	549,552	256,800	-	-	-	-	\$ 1,799,952	\$ -
Radio & Core Sites Battery Backup Lifecycle Upgrade (CRS)	LF0266	61,910	90,000	112,606	90,000	96,300	103,041	-	-	-	-	\$ 311,947	\$ 22,606
Radio & Core Sites DC Power Plant Lifecycle Upgrade	LF0267	-	-	-	-	750,000	802,500	-	-	-	-	\$ 1,552,500	\$ -
P25 Network In-Bound Data Enhancement (1)	LF0515	371,000	371,000	371,000	-	-	-	-	-	-	-	\$ 371,000	\$ -
TOPAZ P25 Voice Radio Network Lifecycle Upgrade (FY27) (1)	LF0269	-	350,000	350,000	8,000,000	-	7,500,000	7,500,000	-	-	-	\$ 15,350,000	\$ -
Wireless Backhaul (Microwave) Network Lifecycle Upgrade (Includes Antennas and tower work 5 microwave shots) Added years to project	LF0403CAP	431,476	420,000	762,000	-	-	-	-	-	-	-	\$ 762,000	\$ 342,000
Relocate CRS radio site (Lindsey/McDowell FS)												\$ -	\$ -
Tower (infrastructure) upgrade/replacement	CP1200		100,000	100,000	107,000	107,000	114,490	122,504	131,080	140,255	-	\$ 615,329	\$ -
New Radio Site security system (lock/keys/gates/ccure)						150,000	-	-	-	-	-	\$ 150,000	\$ -
<b>Sub-total</b>		6,590,912	5,253,972	7,482,984	9,946,552	3,987,357	8,794,867	7,622,504	131,080	140,255	-	\$ 34,749,959	\$ 2,229,012
Fire Hazard Zone System Coverage Improvement and Expansion (Gilbert/Queen Creek)	CP0907	450,000	250,000	250,000	267,500	257,500	265,225	273,182	281,377	289,819	-	\$ 2,067,103	\$ -
Fire Hazard Zone System Lifecycle Upgrade Router Refresh replacement in FY25	LF0465CAP	147,500	-	297,500	-	-	-	-	-	-	-	\$ 445,000	\$ 297,500
<b>Sub-total VHF Special Assessment Projects</b>		597,500	250,000	547,500	267,500	257,500	265,225	273,182	281,377	289,819	-	\$ 2,512,103	\$ 297,500
<b>Total Capital &amp; Fire Special Assessment Projects</b>		\$ 7,188,412	\$ 5,503,972	\$ 8,030,484	\$ 10,214,052	\$ 4,244,857	\$ 9,060,092	\$ 7,895,686	\$ 412,457	\$ 430,074	\$ -	\$ 37,262,062	\$ 2,526,512
<b>Capital Assessment to Members</b>													
Mesa	65.72%	4,114,531	2,773,012	4,020,792	-	1,553,198	5,780,207	5,009,702	86,151	92,180	-	20,656,761	-
Gilbert	16.59%	1,014,401	624,750	915,675	-	274,146	1,458,740	1,264,289	21,741	23,263	-	4,972,255	-
Apache Junction	9.22%	563,595	347,108	508,744	-	152,314	810,467	702,431	12,079	12,925	-	2,762,555	-
Ft McDowell	1.34%	81,953	50,473	73,977	-	22,148	117,851	102,142	1,756	1,879	-	401,706	-
Superstition Fire & Medical	0.96%	58,713	36,160	52,999	-	15,867	84,431	73,176	1,258	1,346	-	287,790	-
Queen Creek	5.67%	726,772	1,403,410	1,882,863	-	1,961,321	498,669	432,196	7,432	7,952	-	5,517,205	-
Rio Verde	0.18%	10,764	6,629	9,716	-	2,909	15,479	13,415	231	247	-	52,761	-
Fountain Hills	0.33%	20,183	12,430	18,218	-	5,454	29,023	25,153	432	463	-	98,926	-
<b>Sub-total</b>	100.00%	6,590,912	5,253,972	7,482,984	-	3,987,357	8,794,867	7,622,504	131,080	140,255	-	34,749,959	-
<b>VHF Special Assessment</b>													
Mesa Fire & Medical	64.21%	383,655	160,525	351,550	-	165,341	170,301	175,410	180,672	186,093	-	1,613,022	-
Gilbert Fire	16.14%	96,437	40,350	88,367	-	41,561	42,807	44,092	45,414	46,777	-	405,455	-
Superstition Fire & Medical	7.78%	46,486	19,450	42,596	-	20,034	20,635	21,254	21,891	22,548	-	195,444	-
Queen Creek Fire	7.73%	46,187	19,325	42,322	-	19,905	20,502	21,117	21,750	22,403	-	194,186	-
Rio Verde Fire	1.43%	8,544	3,575	7,829	-	3,682	3,793	3,906	4,024	4,144	-	35,922	-
Fountain Hills	2.71%	-	6,775	14,837	-	6,978	7,188	7,403	7,625	7,854	-	51,885	-
<b>Sub-total</b>	100.00%	581,309	250,000	547,501	-	257,501	265,226	273,182	281,376	289,819	-	2,495,914	-
<b>Special Assessment SAU</b>													
Console Upgrade from MCC 7500 to AXS (1)						864,777	800,719	800,719	800,719	-	-	3,266,934	-
Mesa-\$40,825.09 tax added to 23/24													
Gilbert (\$400,000 billed directly to Gilbert upon contract signing)\$7,069.15 tax added to 23/24 Console Upgrade from MCC 7500 to AXS (2) Gilbert		400,000	198,196	198,196		134,972	129,568	134,300	139,174	-	-	1,136,210	-
Ft McDowell						79,128	73,267	73,267	73,267	-	-	298,929	-
<b>Sub-total AXS Console Upgrade Special Assessment Projects</b>	400,000	400,000	198,196	198,196		1,078,877	1,003,554	1,008,286	1,013,160	-	\$ -	4,702,073	-
<b>QC Site Expansion Special Assessment</b>													
QC Site Expansion Special Assessment (Mesa share)		380,000	1,189,840	1,569,840		1,867,604	-	-	-	-	-	3,817,444	-
Total QC expansion Site		475,000	1,487,300	1,962,300		2,334,505	-	-	-	-	-	4,771,805	-
<b>Total Capital + Fire Special Assessment + AXS + QC Site Expansion</b>													
Mesa		4,498,289	2,933,537	4,372,342		1,718,539	5,950,508	5,185,112	266,823	278,273	-	22,269,886	-
Gilbert		1,510,838	863,296	1,004,042		1,394,584	2,505,101	2,316,667	1,080,315	70,040	-	9,881,587	-
Apache Junction		563,595	347,108	508,744		152,314	810,467	702,431	12,079	12,925	-	2,762,555	-
Ft McDowell		81,953	50,473	73,977		22,148	117,851	102,142	1,756	1,879	-	401,706	-
Superstition Fire & Medical		105,199	55,610	95,595		35,901	105,066	94,430	23,149	23,894	-	483,234	-
Queen Creek		1,152,959	1,422,735	1,925,185		3,848,830	519,171	453,313	29,182	30,355	-	7,958,995	-
Rio Verde		19,308	10,204	17,545		6,591	19,272	17,321	4,255	4,391	-	88,683	-
Fountain Hills			19,205	33,055		12,432	36,211	32,556	8,057	8,317	-	130,628	-
<b>Total</b>		7,932,141	5,702,168	8,030,485		7,191,339	10,063,647	8,903,972	1,425,616	430,074	-	43,977,274	-

(1) Projects removed from the proposed budget will no longer be needed  
(2) Console cost will be incurred in the last 3 years of the SUA, Gilbert's will be over the entire 6 years



**TOPAZ**  
**Detail of Operating and Maintenance**  
**Fiscal Year 2023 / 2024**

**Year to Date Through June 30, 2024**

Description	Budget	Updated Forecast	YTD Forecast*	YTD Actual	\$ Var	% Var
					From YTD Forecast	Incr/(Decr)
Personnel Services	\$ 777,727	\$ 777,727	\$ 777,727	\$ 584,114	\$ (193,613)	-25%
Insurance Premiums	9,714	9,714	9,714	-	(9,714)	-100%
Temp Services	6,857	6,857	6,857	99	(6,758)	-99%
Leases and Rents - Land	26,770	26,770	26,770	24,224	(2,546)	-10%
Professional Services - Consulting	103,156	103,156	103,156	106,493	3,337	3%
Professional Services - Other-combining legal, consulting	186,708	186,708	186,708	78,655	(108,053)	-58%
Utilities	87,920	87,920	87,920	81,273	(6,647)	-8%
Telephone	3,886	3,886	3,886	3,215	(671)	-17%
Networking Subscription Costs	12,960	12,960	12,960	-	(12,960)	-100%
Repairs & Maintenance	37,551	37,551	37,551	32,681	(4,870)	-13%
Equipment Usage (Vehicles)	24,226	24,226	24,226	23,903	(323)	-1%
All Other Services	44,020	44,020	44,020	582	(43,438)	-99%
Sub-total Services	543,768	543,768	543,768	351,124	(192,644)	-35%
Motorola Contract	1,082,910	1,082,910	1,082,910	1,153,263	70,353	6%
Juniper Software	72,967	72,967	72,967	32,130	(40,837)	-56%
Materials & Parts	33,538	33,538	33,538	2,499	(31,040)	-93%
Non Cap Assets	14,284	14,284	14,284	8,758	(5,526)	-39%
All Other Commodities	-	-	-	-	-	0%
Sub-total Commodities	1,203,699	1,203,699	1,203,699	1,196,650	(7,049)	-1%
Subtotal O&M	2,525,194	2,525,194	2,525,194	2,131,888	(393,306)	-16%
Contingency - 5.0% of total O&M	126,260	126,260	126,260	-	(126,260)	-100%
VHF Operations	60,221	60,221	60,221	-	(60,221)	-100%
<b>Total</b>	<b>\$ 2,711,675</b>	<b>\$ 2,711,675</b>	<b>\$ 2,711,675</b>	<b>\$ 2,131,888</b>	<b>\$ (579,787)</b>	<b>-21%</b>

\*YTD Forecast represents 12 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**

**Fiscal Year 2023 / 2024**

**Year to Date Through June 30, 2024**

Project	Project ID	Budgeted	YTD Forecast*	YTD Actual	\$ Var	% Var			
					From YTD Forecast	Incr/(Decr)			
Site Expansion #1 H60	CP0091	2,940,000	2,940,000	1,695,478	\$ (1,244,522)	-42.33%			
Site Expansion #2 WOL	CP0754CAP	1,742,001	1,742,001	81,235	\$ (1,660,766)	-95.34%			
Site Expansion #3 QC Land Purchase	CP0779	475,000	475,000	-	\$ (475,000)	-100.00%			
TOPAZ Voice Radio Network Upgrade	CN0022	-	-	-	\$ -	0.00%			
Upgrade Shaw Bute & Florence Gardens to P25 Phase II	CP0906	-	-	-	-	0.00%			
Wireless Backhaul (Microwave) Network Lifecycle Upgrade	LF0403CAP	431,476	431,476	1,222	(430,254)	-99.72%			
P25 Network In-Bound Data Enhancement	LF0515	371,000	371,000	-	(371,000)	-100.00%			
System-of-Systems Networking	CP0438	-	-	-	-	0.00%			
Fire Hazard Zone System Coverage Improvement & Expansion	CP0907	450,000	450,000	4,172	(445,828)	-99.07%			
Fire Hazard Zone System Lifecycle Upgrade	LF0465CAP	147,500	147,500	-	(147,500)	-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	61,910	44,304	(17,606)	-28.44%			
Radio Sites Emergency Power Upgrade	LF0226	71,825	71,825	-	(71,825)	-100.00%			
Communications Building UPS Battery Replacement	LF0228	17,700	17,700	15,675	(2,025)	-11.44%			
Internet Protocol Network Routers & Switches Upgrade	LF0248	480,000	480,000	-	(480,000)	-100.00%			
Antenna & Transmission Lines Lifecycle Upgrade	LF0282	-	-	-	-	0.00%			
Consulting Services for VHF & 7/800 MHz Coverage Expansion		-	-	-	-	0.00%			
<b>Total Capital Projects</b>					<b>\$ 7,188,412</b>	<b>\$ 7,188,412</b>	<b>\$ 1,844,302</b>	<b>\$ (5,344,110)</b>	<b>-74.34%</b>
<b>Capital Assessment to Members</b>									
Mesa	65.72%	1,226,380	1,226,380	1,200,741	(25,639)	-2.09%			
Gilbert	16.59%	355,841	355,841	314,413	(41,428)	-11.64%			
Apache Junction	9.22%	167,391	167,391	179,710	12,319	7.36%			
Ft McDowell	1.34%	40,486	40,486	27,953	(12,533)	-30.96%			
Superstition Fire & Medical	0.96%	13,072	13,072	15,492	2,420	18.51%			
Queen Creek	5.67%	11,801	11,801	101,721	89,920	761.97%			
Rio Verde	0.18%	545	545	1,910	1,365	250.46%			
Fountain Hills	0.33%	-	-	2,362	2,362	0.00%			
<b>Total Assessment to Members</b>		<b>100.00%</b>	<b>\$ 1,815,516</b>	<b>\$ 1,815,516</b>	<b>\$ 1,844,302</b>	<b>\$ 28,786</b>	<b>1.59%</b>		

\*YTD Forecast represents 12 months of project costs plus any contractual expenses already incurred (i.e. one time payments).

**TOPAZ**  
**Detail of Operating and Maintenance**  
**Fiscal Year 2024 / 2025**

**Year to Date Through August 31, 2024**

Description	Budget	Updated Forecast	YTD Forecast*	YTD Actual	\$ Var	% Var
					From YTD Forecast	Incr/(Decr)
Personnel Services	\$ 865,861	\$ 865,861	\$ 166,512	\$ 109,562	\$ (56,950)	-34%
Insurance Premiums	10,297	10,297	1,716	-	(1,716)	-100%
Temp Services	7,268	7,268	1,211	-	(1,211)	-100%
Leases and Rents - Land	26,770	26,770	4,462	15,824	11,362	255%
Professional Services - Consulting	211,845	211,845	35,308	9,291	(26,017)	-74%
Professional Services - Other-combining legal, consulting	102,500	102,500	17,083	520	(16,563)	-97%
Utilities	93,195	93,195	15,533	16,874	1,341	9%
Telephone	4,119	4,119	687	209	(478)	-70%
Networking Subscription Costs	13,738	13,738	2,290	-	(2,290)	-100%
Repairs & Maintenance	137,051	137,051	22,842	3,000	(19,842)	-87%
Equipment Usage (Vehicles)	32,607	32,607	5,435	1,492	(3,943)	-73%
All Other Services	46,662	46,662	7,777	-	(7,777)	-100%
Sub-total Services	686,052	686,052	114,344	47,209	(67,135)	-59%
Motorola Contract	1,453,148	1,453,148	242,191	-	(242,191)	-100%
Juniper Software	72,967	72,967	12,161	-	(12,161)	-100%
Materials & Parts	35,550	35,550	5,925	1,282	(4,643)	-78%
Non Cap Assets	211,708	211,708	35,285	-	(35,285)	-100%
All Other Commodities	-	-	-	-	-	0%
Sub-total Commodities	1,773,373	1,773,373	295,562	1,282	(294,280)	-100%
Subtotal O&M	3,325,286	3,325,286	576,418	158,053	(418,365)	-73%
Contingency - 1.5% of total O&M	49,879	49,879	8,313	-	(8,313)	-100%
VHF Operations	57,893	57,893	9,649	-	(9,649)	-100%
<b>Total</b>	<b>\$ 3,433,058</b>	<b>\$ 3,433,058</b>	<b>\$ 594,380</b>	<b>\$ 158,053</b>	<b>\$ (436,327)</b>	<b>-73%</b>

\*YTD Forecast represents 2 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**

**Fiscal Year 2024 / 2025**

**Year to Date Through August 31, 2024**

Project	Project ID	Budgeted	YTD Forecast*	YTD Actual	\$ Var	% Var
					From YTD Forecast	Incr/(Decr)
Site Expansion #1 H60	CP0091	468,527	78,088	19,048	\$ (59,040)	-75.61%
Site Expansion #2 WOL	CP0754CAP	2,842,951	473,825	23,419	\$ (450,406)	-95.06%
Site Expansion #3 QC Land Purchase	CP0779	1,962,300	327,050	-	\$ (327,050)	-100.00%
Wireless Backhual (Microwave) Network Lifecycle Upgrade	LF0403CAP	762,000	127,000	-	(127,000)	-100.00%
<b>P25 Network In-Bound Data Enhancement</b>	<b>LF0515</b>	<b>371,000</b>	61,833	-	(61,833)	-100.00%
System-of-Systems Networking	CP0438	-	-	-	-	0.00%
Fire Hazard Zone System Coverage Improvement & Expansion	CP0907	250,000	41,667	-	(41,667)	-100.00%
Fire Hazard Zone System Lifecycle Upgrade	LF0465CAP	297,500	49,583	-	(49,583)	-100.00%
Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade	LF0402POM	-	-	-	-	0.00%
Tower (infrastructure) upgrade/replacement	CP1200	100,000	16,667	-	(16,667)	-100.00%
<b>TOPAZ P25 Voice Radio Network Lifecycle Upgrade (FY27) (1)</b>	<b>LF0269</b>	<b>350,000</b>	58,333	-	(58,333)	-100.00%
Radio & Core Sites Battery Backup Lifecycle Upgrade	LF0266	112,606	18,768	-	(18,768)	-100.00%
Radio Sites Emergency Power Upgrade	LF0226	-	-	-	-	0.00%
Communications Building UPS Battery Replacement	LF0228	-	-	-	-	0.00%
Internet Protocol Network Routers & Switches Upgrade	LF0248/336	513,600	85,600	-	(85,600)	-100.00%
Antenna & Transmission Lines Lifecycle Upgrade	LF0282	-	-	-	-	0.00%
Upgrade Shaw Butte and Florence Gardens to P25 Phase II (TDMA)	CP0906	-	-	190,376	190,376	0.00%
<b>Total Capital Projects</b>		<b>\$ 8,030,484</b>	<b>\$ 1,338,414</b>	<b>\$ 232,843</b>	<b>\$ (1,105,571)</b>	<b>-82.60%</b>

**Capital Assessment to Members**

Mesa	65.72%	1,226,380	204,397	151,580	(52,817)	-25.84%
Gilbert	16.59%	355,841	59,307	38,755	(20,552)	-34.65%
Apache Junction	9.22%	167,391	27,899	21,812	(6,087)	-21.82%
Ft McDowell	1.34%	40,486	6,748	3,281	(3,467)	-51.38%
Superstition Fire & Medical	0.96%	13,072	2,179	2,152	(27)	-1.24%
Queen Creek	5.67%	11,801	1,967	13,932	11,965	608.29%
Rio Verde	0.18%	545	91	421	330	362.64%
Fountain Hills	0.33%	-	-	902	902	0.00%
<b>Total Assessment to Members</b>	<b>100.00%</b>	<b>\$ 1,815,516</b>	<b>\$ 302,588</b>	<b>\$ 232,835</b>	<b>\$ (69,753)</b>	<b>-23.05%</b>

\*YTD Forecast represents 2 months of project costs plus any contractual expenses already incurred (i.e. one time payments).

Date: 09/26/2024

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

Through: Dale Shaw, TRWC Executive Director

From: Chuck Craig

Subject: Administrator Update

#### Budget Update

The FY26 Budget has been reviewed by the executive committee and the TRWC Executive Director, with normal CPI increases for O&M, a new capital initiative for maintaining physical plant security for our radio sites and a significant reduction in the costs for upgrading the P25 radio system from Motorola. Areas of note are potential FY2025 saving around certain capital and lifecycle projects not moving forward.

#### H60 Expansion

The H60 site is complete and on-line. We are waiting for a final review of equipment by Motorola later in September. Once this is complete, we will make a final payment to Motorola and close the project out. The project should come in under budget.

#### Wolverine Expansion Site

We are working closely with Mesa Engineering staff, and their assigned JOC construction company. We've meet to layout all electric, road construction, concrete, tower and building rehabilitation work. This project completion if scheduled for Q1 2025.

#### South-east Valley Queen Creek

We are actively working with Queen Creek PD, FD, real estate on the implementation of a new radio site in the SE valley. Having a QC site is part of the TRWC long term coverages goals, with budget capacity planned in FY25—FY27. We met recently with our QC partner, and they are reaching out to the State of AZ regarding a potential location of State land. We are meeting with QC again towards the beginning of October to review their findings.

#### General operations

The implementation of ActiveEye, a feature of the SUA, used to monitor and improve our overall cyber security posture is almost complete. Our admin team recently attended training on the new AXS console system at Gilberts dispatch facility. We will be moving forward with AXS after Gilber completed the beta testing of the dispatch suite.

#### Router Replacement Project

Yes this is still a on hold 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 Q2/2025, after Wolverine comes on-line. 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.

### 800MHz/VHF Coverage Review

Several partner agencies have requested a review of our current and planned system coverage. We will be meeting with the Technical Liaison Group to initiate discussions on this review. In previous instances, similar comprehensive coverage studies have cost between \$80K and \$100K. We plan to fund this study using Fire Hazard Zone System Coverage Improvement and Expansion funds, as well as potential savings from our Personal Services or Professional Services O&M budget lines.

### Operations Summary

Overall system uptime remains at our goal level of %99.999. Our admin team reports that during the past 6 months there have been no occurrences of peak channel usage, and no reported system busy. Queen Creek Fire has indicated that they may have intermittent VHF coverage difficulties, that we are monitoring with them. Another topic of note; Gina Ross is working with Mesa IT to revamp the TRWC website, she has done a remarkable job of mocking up content for the DoIT developers to work with. More to follow on this important topic.