

#### **TRWC Board of Directors Meeting**

September 22, 2022 - 2:00 p.m. Phoenix-Mesa Gateway Airport (PMGA) Administration Building, Board Room 5835 S. Sossaman Road Mesa, AZ 85212 Audio Conference: 480-535-7460 access number 527809419#

### Agenda

### 1) Call to Order and Opening Comments

- a. Materials and sign-in sheet
- b. Speaker cards
- c. Audio and video recording

Chairman Kross called the meeting to order and welcomed the attendees. He also provided instruction on the process for public comment and reminded the participants the meeting is audio recorded.

- d. Board representative attendees: Chairman Kross, Director Busby, Director Cutright, Director Barnhart, Director Mooney, Director Duggan, Director Ducote
- e. Welcome new Board Members: Chairman Kross welcomed the new Board Members; Assistant Chief Dan Butler (not in attendance) and Travis Cutright

### 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 prior to the beginning of the meeting. There is a time limit of three minutes for comments.

No public comment requests were received.

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

There were no questions or comments on the Board Meeting Minutes for May 19, 2022. Director Cutright motioned for an approval of the minutes and Director Busby seconded 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-Chairman Duggan gave a short review of the Policy Update regarding the move of the Key Maintenance Facility. Co-Chairman Duggan also reviewed the 23/24 budget that is up for possible action in this meeting. The Executive Committee spent a good amount of time on the capital budget carry-overs and the O&M costs relating to the policy change and inflation increases.

5) Policy Updates

Executive Director Shaw reviewed the policy update change. Section 7.5 of the TRWC Maintenance and Support Policy, City of Mesa PD is the point of contact for maintenance and management of Key Maintenance Facility and encryption for subscriber units. This process has moved to the City of Mesa Department of Innovation and Technology. The Board would need to take action on this at the next Board meeting.

### 6) Discussion and Action on FY 23/24 Preliminary Budget

Executive Director Shaw recommended a 5,914,288 overall budget for FY 23/24. This includes an increase in O&M of 236,539 due to staffing and maintenance cost increases. The Capital forecast has increased 1,289,428 due to an acceleration of land acquisition costs and planned carry-over. Executive Director Shaw stated that this preliminary budget has been fully vetted by the Executive Committee and it is in a good position for the Board to consider it if they see fit. There were no questions or comments by the Board, and it was decided to take action. Director Cutright motioned for an approval of the FY 23/24 Budget and Director Mooney seconded the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

### 7) Network Administrator Updates

### a. Finance Update

Executive Director Shaw reviewed the financial update stating that we are currently underbudget. Mr. Craig stated that there was an increase in utilities due to inflation. The Motorola contract is a one-time large cost and then it will be spread out over the remaining fiscal periods. For the Capital budget some schedules have changed for the initial plan for capital buildout / site buildout.

Network Updates and Performance overview
 Mr. Craig stated with the carry over in place we are now working closely with the Town of
 Queen Creek on the ISR site in the Southeast valley. We will also be relocating the Florence
 Garden equipment to a new ISR site and Mesa Legal is moving forward on the Wolverine site.
 We are currently working with vendors to complete a security review of the public radio system.

### 8) Ratify Emergency Network Access Extension for Town of Florence

Executive Director Shaw stated as per the TRWC Governance agreement any emergency access that is granted at the Executive Director role will need to be ratified by the Board the Directors. This was an extension of a previous ratification for the Town of Florence for emergency access. The was a request to extend the access for a few days due to storm damage. Director Busby motioned for an approval of the Ratification Emergency Network Access Extension for Town of Florence and Director Mooney seconded the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

### 9) Comments from the Board

Director Ducote stated that Rio Verde Fire has opened a new fire station. Director Ducote also stated that he will be retiring at the end of December 2022 after 39 years of service. No other comments from the Board.

### 10) Next TRWC Board Meetings:

December 13, 2022

### 11) Future Board of Directors Schedule

Date	Upcoming Agenda Items
12/13/2022	Budget Adoption

### 12) Retirement Recognition

Chairman Kross recognized and thanked Director John Pombier for his service to the TRWC and his vital role as a Board member. Executive Director Shaw also reflected on John's service.

### 13) Adjournment

Chairman Kross adjourned the meeting at 2:36.



### **TRWC Board of Directors Meeting Minutes**

May 19, 2022 - 11:00 a.m. to 12:00 p.m.

Video Conference: Microsoft Teams Meeting

### Agenda

### 1) Call to Order and Opening Comments

a. Audio and video recording

Chairman Kross called the meeting to order and welcomed the attendees. He also provided instruction on the process for public comment and reminded the participants the meeting is audio recorded.

- b. Board representative attendees: Chairman Kross, Director Pooley, Director Pombier, Director Barnhart, Director Mooney, Director Rhineheimer, Director Ducote
- 2) Public Comment

Members of the public may address the Board on items not on the printed agenda. Please address the Board by sending an email to gina.ross@mesaaz.gov by 11:00 a.m. on May 19, 2022. (limited to 500 words – identify your name, address and whether you wish your comment to be read at the meeting or just submitted as part of the written record). The Board may not discuss or take action on any issue raised during public comment until a later meeting. Speakers are limited to three (3) minutes each. Only one comment per person per Agenda Item will be allowed and comments without identifying name and address will not be read or submitted as part of the written record.

No public comment requests were received.

3) Discussion and Action on Board Meeting Minutes

There were no questions or comments on the Board Meeting Minutes for March 17, 2022. Director Pombier motioned for an approval of the minutes and Director Rhineheimer seconded the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

### 4) <u>Ratify Emergency Network Access for Town of Florence</u> – Dale Shaw

Mr. Shaw recommended the ratification of the Town of Florence Conditional Network Use. This agreement is to provide emergency network use between the Topaz Regional Wireless Cooperative Network and the Town of Florence. Director Pombier enquired if the Town of Florence has reached out to the TRWC for an extension. Mr. Shaw stated that Florence has not requested an extension at this time but is exploring a membership with the TRWC. Chairman Kross would like for the TRWC to have regular check in meetings with Florence on their progress so that we so that we are prepare for an extension or a possible alternative, if needed, at the conclusion of the agreement.

Chairman Kross motioned for an approval of the Ratify Emergency Network Access for Town of Florence; Director Ducote seconded the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

### 5) <u>Executive Committee Updates</u> – Co-Chair Duggan

Co-Chair Duggan gave a brief review of the Executive Committee meetings. He stated that they have been discussing the financial carry overs and have had additional discussions on the enhanced data. The committee is still waiting on more information from Motorola, regarding the enhanced data, before any action is taken.

Mr. Shaw updated the board stating that the carry over amounts have been distributed to the agencies.

#### 6) Network Administrator Updates

Ms. Huckaby gave an overview of the Finance Update. Operating and maintenance is right on target and Ms. Huckaby explained that on the Capital Projects, the negative variances correspond to the proposed carry over to next year. All other projects are right in line with the budget.

Mr. Craig gave a brief update on the Network Updates and Performance overview stating that we have a signed lease with Banner / Ironwood for the VHF expansion in the Queen Creek area.

There were no questions or comments from the Board.

### 7) <u>Comments from the Board</u>

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 from the Board

### 8) Next TRWC Board Meetings:

September 22, 2022

### 9) <u>Future Board of Directors Schedule</u>

Date	Upcoming Agenda Items
9/22/22	Prelim Budget Review
12/13/22	Budget Adoption

#### 10) Adjournment

Chairman Kross adjourned the meeting at 11:20pm.

All meeting materials, dates, and times are posted on the TOPAZ website http://topazrwc.org/



161 E Sixth Pl PO Box 1466 Mesa, Arizona 85211-1466

Date:	September 19, 2022
То:	TOPAZ Regional Wireless Cooperative (TRWC) Board of Directors
Through:	Dale Shaw, TRWC Executive Director
From:	Chuck Craig, IT Manager
Subject:	POLICY UPDATE

# **RECOMMENDATION**

I recommended that the current policy statement be revised to reflect this change of responsibility.

# **BACKGROUND**:

Currently, as described in section 7.5 of the TRWC Maintenance and Support Policy, City of Mesa PD is the point of contact for maintenance and management of Key Maintenance Facility and encryption for subscriber units. This process has moved to the City of Mesa Department of Innovation and Technology (Communications division).

	Maintenance &	Support Policy
Owner: See Below	Created: Sept. 14, 2009	Applicability: See Below
Category: Operations & Maintenance	Revised: Sept. 14, 2009	
Page: 1 of 6	Last Review: Sept. 14, 2009	

## 1.0 Purpose

- 1.1. The purpose of this policy is to establish the framework:
  - 1.1.1. Necessary to identify, resolve, and report anomalies that occur within TRWC in such a manner as to minimize the operational impact to participating agencies and their subscribers.
  - 1.1.2. Within which all maintenance activities pertaining to TRWC sites and facilities and TRWC infrastructure devices will be tracked and reported, including notification to Area Managers and Members of scheduled and unscheduled service affecting activities.

## 2.0 Owner

2.1. Administrative Manager

## 3.0 Applies To

- 3.1. Area Managers, Members, Associates, Interoperability Participants and Conditional Participants.
- 3.2. All personnel performing operations and planned or unplanned maintenance of the TRWC network infrastructure.

## 4.0 Background

- 4.1. The TRWC infrastructure is a critical enabling technology that supports public safety and public service operations with differing operational requirements. In anticipation of operational anomalies occurring within the network, and realizing that these anomalies must be triaged as expeditiously as possible, it is necessary to have policies in place that ensure network anomalies can be identified, reported, and resolved in a manner that minimizes the impact to Area Managers, Members, Associates, Interoperability Participants, and Conditional Participants that have operational subscribers on the network.
- 4.2. The operational stability of TRWC may be affected when the configuration of the TRWC network is altered. Proper notification of scheduled and unscheduled service affecting maintenance activities

will allow Members and Area Managers time to make necessary preparations. Conversely, unauthorized disruptions in TRWC operations caused by the lack of notification will create safety issues that must be addressed by the Administrative Manager.

# 5.0 Policy Statement

# 7.0 Responsibilities

7.1. The management of the TRWC infrastructure is the responsibility of the Administrative Manager.

7.2. The Administrative Manager will establish on-call after-hour support for anomaly resolution.

7.3. The Administrative Manager will ensure that TRWC reporting activities for anomalies will be conducted seven (7) days a week and twenty-four (24) hours a day.

7.4. The Administrative Manager will:

7.4.1. Establish and maintain processes and procedures for operations and maintenance of the TRWC infrastructure.

7.4.2. Identify and resolve network anomalies. Field service personnel will be dispatched when problems cannot be resolved remotely.

7.4.3. Log problems and track them to closure.

7.4.4. Analyze all logged problems to ensure network performance standards are maintained.

7.4.5. Ensure that network log files are regularly reviewed and that cases are opened to resolve anomalies as necessary.

7.4.6. Provide system performance reports.

7.4.7. Maintain access to field replaceable units (FRUs) sufficient to mitigate equipment failures in a timeframe agreeable to TRWC Members.

7.4.8. Maintain current software licensing on all TRWC infrastructure components.

7.4.9. Maintain technical support necessary to operate, troubleshoot, and optimize the TRWC infrastructure.

7.4.10. Incident types, response times, and appropriate actions are defined by severity level in accordance with procedures established by the Administrative Manager.

7.4.11. Ensure that all operations and maintenance personnel, and third party support providers, are aware of this Maintenance & Support Policy; are trained in the appropriate processes, procedures, and response times; and have access to the necessary contact information to invoke various levels of support activities.

7.4.12. Perform scheduled maintenance on the TRWC infrastructure in a manner that is consistent with industry best practices and manufacturer recommendations.

7.4.13. Operate the TRWC network in accordance with the Network Security category polices.

7.4.14. Responsible for notifying the Members and Area Managers of scheduled and unscheduled service affecting maintenance activities.

**7.5** City of Mesa Communication Division is the point of contact for key management and encryption. Requests for key management and encryption support are to be submitted to City of Mesa Communication Division during normal business hours if possible. After hours, the point of contact for emergency support of key management and encryption is Mesa PD dispatch.

7.6. Area Managers and Members are responsible for providing their own dispatch console maintenance.

7.6.1. Area Managers and Members are responsible for notifying the



Date:September 22, 2022To:Topaz Regional Wireless Cooperative (TRWC) Board of DirectorsFrom:Dale Shaw, TRWC Executive DirectorRob Duggan, TRWC Executive Committee Co-chairmanSubject:Fiscal Year 2023/2024 Budget

## Recommendation

The TRWC Executive Director and Executive Committee recommends the review and consideration of the Preliminary TRWC Budget (attached) in the amount of \$5,914,288 for Fiscal Year 2023/2024.

## **Background & Discussion**

The attached Preliminary Budget for Fiscal Year 2023/2024 has been under review and endorsed by the TRWC Executive Committee. When compared to the current 2022/2023 Fiscal Year Budget, the proposed Operating & Maintenance expenses will increase by \$236,539 (predominately due to increases in staffing and maintenance costs). When compared to the previously presented forecast, Capital expenditures will increase by \$1,289,428 (predominately due to accelerated land acquisition costs, planned carryover, and console upgrade passthrough 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.

TRWC Operating & Maintenance Budget					CHANGE
Summary of Labor and Non-labor	ı	FY 22/23	FY 23/24		FY22/23
		BUDGET	DRAFT BUDGET		to FY23/24
ESCALATION FACTOR	· · · · ·		8.00%		
Salaries and Wages (4)	\$	366,626	508,188	\$	141,562
Total Labor	\$	366,626	\$ 508,188	\$	141,562
ESCALATION FACTOR GENERAL & ADMINISTRATIVE - OTHER SERVICES		1.90%	8.00%		
Temp Services	\$	6,349	6,857	\$	508
Prof Services - TRWC Executive Director		95,515	103,156		7,641
Prof Services - Legal, Consulting & Other (5)		242,322	186,708		(55,614)
Ins. Premiums - Agencies Utilities		8,994 72,685	9,714 87.920		720 15,235
Telephone		3,598	3,886		288
Repairs & Maint		32,801	35,425		2,624
Equipment Usage (Vehicles)		21,162	22,855		1,693
Shaw Butte & Florence Gardens-Land		26,770	28,912		2,142
Training		20,380	22,010		1,630
Travel Networking Subscription Costs		20,380	22,010 12,960		1,630 960
All Other Services		12,000	12,900		900
TOTAL OTHER SERVICES	\$	562,956	\$ 542,413	\$	(20,543)
		,			
GENERAL & ADMINISTRATIVE - COMMODITIES					
Non Cap Assets	\$	13,226	14,284	\$	1,058
Contract - Motorola (Preventative & Security Monitoring) (6) Software Maint-Mainsaver, Juniper		975,000 67,562	1,082,910 72,967		107,910 5,405
Materials & Repair Parts		31,054	33,538		2,484
All Other Commodities		-	-		-
TOTAL COMMODITIES	\$	1,086,842	\$ 1,203,699	\$	116,857
OTHER BUDGET ITEMS					
PROPOSED CONTINGENCY - 1.5%	\$	29,487	26,018	\$	(3,469)
VHF OPERATIONS (special assessment)	Ψ	26,663	28,795	Ψ	2,132
VHF Equipment Staff Time (special assessment)		29,098	29,098		-
TOTAL OTHER BUDGET ITEMS	\$	85,248	\$ 83,911	\$	(1,337)
Total Operating & Maintenance	\$	2,101,672	\$ 2,338,211	\$	236,539
O&M - AIRTIME PERCENTAGE (1)					
Mesa		67.08%	66.33%		-0.75%
Gilbert		19.45%	16.17%		-3.28%
Apache Junction		9.15%	10.20%		1.05%
Ft McDowell Superstition Fire & Medical		2.21% 0.72%	1.45% 0.79%		-0.76% 0.07%
Queen Creek		0.72%	4.56%		3.92%
Rio Verde		0.02%	0.04%		0.02%
Southwest Ambulance		0.56%	0.38%		-0.18%
American Medical Response		0.17%	0.08%		-0.09%
		100.00%	100.00%		0.00%
VHF SPECIAL ASSSESSMENT (2,3) Mesa Fire & Medical		68.68%	68.68%		0.00%
Gilbert Fire		17.16%	17.16%		0.00%
Superstition Fire & Medical		10.01%	10.01%		0.00%
Queen Creek Fire		3.22%	3.22%		0.00%
Rio Verde Fire		0.93%	0.93%		0.00%
Total		100.00%	100.00%		0.00%
ANNUAL ESTIMATED REVENUE: OPERATING & MAINTENANCE					
Mesa		1,410,694	1,552,296		141,602
Gilbert		407,498	378,662		(28,836)
Apache Junction		187,201	232,592		45,392
Ft McDowell		45,215	33,065		(12,150)
Superstition Fire & Medical Queen Creek		20,312 14,889	23,810 105,847		3,497 90,957
Rio Verde		928	1,451		523
Southwest Ambulance		11,457	8,665		(2,792)
American Medical Response		3,478	1,824		(1,654)
Total	\$	2,101,672	\$ 2,338,211	\$	236,539

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

(2) For FY 19/20 Endorsed Budget, agency cost distribution for the Fire Hazard Zone Communication (VHF) Special Assessment is based on 12 months average Airtime as of March 31, 2015.
 (3) For FY 20/21 Proposed Budget, agency cost distribution for the Fire Hazard Zone Communication (VHF) Special

Assessment is based on Call Volume July 1, 2018 - June 30, 2019.

(4) Standard Escalator 1.9% increased to 8% plus new hire

(5) \$100,000 FOR Cyber Security + \$25,000 from Capital Possible increase to web site refresh-

(6) New Radio Site and Maintance

TRWC Capital Budget Plan	PROJECT								FORC	AST							TOTAL				
		Proposed new with Carry over	Einel EV 22/22	New Draft	Proposed FY	New	Proposed FY	New	Proposed FY	New	Proposed FY	New	Proposed FY	New	Proposed FY						
	ID	FY 22/23	Filldi F1 22/23	FY 23/24	23/24 From last year	Proposal FY 24/25	24/25 From last year	Proposal FY 25/26	25/26 From last year	Proposal FY 26/27	26/27 From last year	Proposal FY 27/28	27/28 From last year	Proposal FY 28/29	28/29 From last year	FY 29/30	9 Years	23/24 Difference	Project	Personnel	Overhead
ESCALATION FACTOR Site Expansion #1 H60 Includes \$174,822 roll forward from 21-22 Site Expansion #2 WOL Site Expansion #2 WOL System-45ystems Networking Expansion CP0438	CP0091 CP0754 CP0779 CP0905	1,764,822 790,276	1,590,000 790,276 -	570,640 1,033,111 475,000	570,640 1,033,111 25,475	7.00% 1,052,740 1,375,650	560,000 590,276 - 25,000	<b>7.00%</b> - 1.750,000	- 1,013,847 - -	7.00% - 610,000		7.00% - - -	605,703	7.00% - - -	1.040.515	7.00%	\$ 2,335,462 \$ 2,876,127 \$ 4,210,650 \$ -	\$ - \$ - \$ 475,000 \$ (25,475)	1,424,392 637,834	256,391 114,810 -	84,039 37,632 -
Upgrade Shaw Butte and Florence Gardens to P25 Phase II (TDMA) Includes 5287.406 rot loward from 21-122 Radio Sites Emergency Power Upgrade 566.333 roll forward from 21-22 Communications Butking UPB Statery Replacement Internet Protocol Network Routers & Switches Upgrade (Work in Fr25) Radio & Core Sites Battery Replaceduces 531.011	CP0906 LF0226 LF0228 LF0248	574,812 172,533 17,700	287,406 106,200 17,700	- - -	- 108,218 - -	- - 400,000	- 106,200 -	- - 428,000	-	- 18,036 256,800	-	-	- - 17,700	-			\$ 574,812 \$ 172,533 \$ 35,736 \$ 1,084,800		463,932 139,252 14,286	83,508 25,065 2,571	27,372 8,216 843 -
forward from 21-22 Radio & Core Sites DC Power Plant Lifecycle Upgrade Enhanced data TBD Antenna & Transmission Lines Lifecycle Upgrade	LF0266 LF0267 LF0282	31,910 371,000	- 371,000 -	-	-	90,000	-	96,300 750,000 -	71,433	103,041 802,500	71,433 750,000 -	-	89,292 750,000	-	-		\$ 321,251 \$ 1,552,500 \$ 371,000 \$ -	\$ - \$ - \$ - \$ -	25,755 - 299,435 -	4,636 - 53,898	1,520 - 17,667 -
TOPAZ P25 Voice Radio Network Lifecycle Upgrade (FY28) Wireless Backhaul (Microwave) Network Lifecycle Upgrade (Includes Antenna and Iower work 5 microwave shots)	New LF0403CAP	- 167,265	- 167,265	- 300,000	- 170,443	- 420,000	- 167,265	-	- 167,265	-	-	2,038,000	-	-	-	187,262	\$ 2,038,000 \$ 887,265	\$ - \$ 129,557	- 135,000	- 24,300	-
Consulting Services for VHF & 7/800 MHz Coverage Expansion includes \$40 roll forward from 21-22		40,000			-	420,000	40,000	-	107,200	-	-	-	-	-	-	107,202	\$ 40,000	\$ -	32,284	5,811	1,905
Sub	total	3,930,318	3,329,847	2,378,751	1,907,887	3,338,390	1,488,741	3,024,300	1,252,545	1,790,377	821,433	2,038,000	1,462,695	-	1,040,515	187,262	\$ 16,500,136	\$ 470,864			
Fire Hazard Zone System Coverage Improvement and Expansion (Gilbert/Qu Creek) Includes \$103.620 roll forward 21-22 Fire Hazard Zone System Lifecycle Uggrade Router Refresh replacement in F (Motorola qoute is \$320,000. FY23+FY24 money to complete the project) inclu	(25 ides	475,320	371,700	450,000	378,762	481,500	385,959	515,205	393,292	551,269	400,765	589,858	408,379	631,148	416,138	675,328	\$ 3,694,300	. ,	383,632	69,054	,
\$147,500 roll forward from 21-22 Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade incl \$43,238 roll forward from 21-22	LF0465CAP LF0402POM	147,500 43,238	-	150,000		-	-	-	-	-	-	-	-	-	-		\$ 297,500 \$ 43,238	\$ 150,000	119,048 36,642	21,429 6,596	7,024
Sub-total VHF Special Assessment Pro	New	666,058	371,700	600,000	378,762	481,500	385,959	515,205	393,292	551,269	400,765	589,858	408,379	631,148	416,138	675,328	\$ 4,035,038	\$ -	-	-	-
Console Upgrade from MCC 7500 to AXS (1) Sub-total AXS Console Upgrade Special Assessment Pro	New ects			597,326 597,326	-	655,221 655,221		675,197 675,197	-	765,773 765,773	-	842,966 842,966	-	864,795 864,795	-	-	\$ - \$ 4,401,278 \$ 4,401,278	-			
Total Capital & Fire Special Assessment Pro	ects	\$ 4,596,376	\$ 3,701,547	\$ 3,576,077	\$ 2,286,649	\$ 4,475,111	\$ 1,874,700	\$ 4,214,702	\$ 1,645,837	\$ 3,107,419	\$ 1,222,198	\$ 3,470,824	\$ 1,871,074	\$ 1,495,943	\$ 1,456,653	\$ 862,590	\$ 24,936,452	\$ 692,102			
Capital Assessment to Members																					
Mesa Gilbert F. McDowel Superstiton Fire & Medical Queen Creek Rio Verde	67.55% 19.60% 9.22% 2.23% 0.72% 0.65% 0.03%	2,654,929 770,342 362,375 87,646 28,298 25,547 1,179	2,249,311 652,650 307,012 74,256 23,975 21,644 999	1,606,845 466,235 219,321 53,046 17,127 15,462 714	1,288,778 373,946 175,907 42,546 13,737 12,401 572	2,255,082 654,324 307,800 74,446 24,036 21,700 1,002	1,005,645 291,793 137,262 33,199 10,719 9,677 447	2,042,915 592,763 278,840 67,442 21,775 19,658 907	846.094 245.499 115.485 27,932 9,018 8,142 376	1,209,400 350,914 165,073 39,925 12,891 11,637 537	554,878 161,001 75,736 18,318 5,914 5,339 246	1,376,668 399,448 187,904 45,447 14,674 13,247 611	988.049 286.688 134,860 32,618 10,531 9,508 439		702.868 203.941 95.935 23,203 7,492 6,763 312	126,496 36,703 17,266 4,176 1,348 1,217 56	15,829,283 4,592,953 2,160,563 522,565 168,720 152,318 7,030				
Sub	total 100.00%	3,930,316	3,329,847	2,378,750	1,907,887	3,338,390	1,488,742	3,024,300	1,252,546	1,790,377	821,432	2,037,999	1,462,693		1,040,514	187,262	23,433,432				
VHF Special Assessment Meas Fire & Medical Gilbert Fire Superstition Fire & Medical Queen Creek Fire Ric Verde Fire Sub	68.68% 17.16% 10.01% 3.22% 0.93% total 100.00%	457.449 114.296 66.672 21,447 6,194 666.058	255,284 63,784 37,207 11,969 3,457 371,701	412,079 102,960 60,060 19,320 5,580 599,999	260.133 64.996 37.914 12,196 3,522 378,761	330.693 82.625 48.198 15,504 4,478 481.498	265.076 66.231 38.634 12,428 3,589 385.958	353,842 88,409 51,572 16,590 <u>4,791</u> 515,204	270,112 67,489 39,369 12,664 3,658 393,292	378,611 94,598 55,182 17,751 5,127 551,269	275,244 68,771 40,117 12,905 3,727 400,764	405,113 101,220 59,045 18,993 5,486 589,857	280.474 70.078 40.879 13,150 3,798 408.379	433,471 108,305 63,178 20,323 5,870 631,147	285,803 71,409 41,655 13,400 <u>3,870</u> 416,137	463.815 115.886 67.600 21,746 6,281 675.328	3.207,399 801,386 467,476 150,377 43,432 4.670.070				
Special Assestment SAU								,	,												
Mesa Gilbert (\$400,000 billed directly to Gilbert upon contract signing) Apache Junction PD Ft McDowell	400,000			458,703 77,683 17,500 43,440		472,464 120,513 17,500 44,744		486,637 124,974 17,500 46,086		571,237 129,568 17,500 47,468		635,274 134,300 17,500 55,892		650,764 139,174 17,500 57,359			3,275,079 1,126,211 105,000 294,990				
	400.000			597,326		655,221		675,197		765,773		842,966	-	864,797	-	-	4,801,280				
Total Capital + Fire Special Assessment Mesa Gilbert Apache Junction FI McDowell Supersition Fire & Medical Queen Creek Rio Verde	Fotal	3,112,377 884,638 362,375 87,646 94,970 46,994 7,373 4,596,373	2,504,594 716,434 307,012 74,256 61,182 33,613 4,456 3,701,547	2,477,629 646,878 236,821 96,486 77,187 34,782 6,294 3,576,077	1,548,911 438,942 175,907 42,546 51,651 24,597 4,094 2,286,648	3,058,239 857,462 325,300 119,190 72,234 37,204 5,480 4,475,109	1,270,721 358,024 137,262 33,199 49,353 22,105 4,036 1,874,700	2,883,394 806,146 296,340 113,528 73,347 36,248 5,698 4,214,701	1,116,206 312,988 115,485 27,932 48,387 20,806 4,034 1,645,838	2.159.248 575.080 182,573 87,393 68,073 29,388 5,664 3,107,419	830,122 229,772 75,736 18,318 46,031 18,244 3,973 1,222,196	2,417,055 634,968 205,404 101,339 73,719 32,240 6,097 3,470,822	1,268,523 356,766 134,860 32,618 51,410 22,658 4,237 1,871,072	1,084,235 247,479 17,500 57,359 63,178 20,323 5,870 1,495,944	988.671 275.350 95.935 23.203 49.147 20.163 4.182 1.456.651	590,311 152,589 17,266 4,176 68,948 22,963 6,337 862,590	23,226,660 6,349,142 2,265,563 817,555 769,540 345,589 62,850 33,836,899				

Network Administrator Updates

### TOPAZ Detail of Operating and Maintenance Fiscal Year 2021/ 2022

		Year to Date Through June 30, 2022 13th Month										
			-		\$ Var	% Var						
		Updated	YTD	YTD	From YTD F	orecast						
Description	Budget	Forecast	Forecast*	Actual	Incr/(De	Jecr)						
Personnel Services	\$ 354,883	\$ 354,883	\$ 354,883	\$ 249,497	\$ (105,386)	-30%						
Insurance Premiums	8,827	8,827	8,827	-	(8,827)	-100%						
Temp Services	6,230	6,230	6,230	127	(6,104)	-98%						
Leases and Rents - Land	26,271	26,271	26,271	24,088	(2,183)	-8%						
Professional Services - Consulting	93,734	93,734	93,734	115,499	21,765	23%						
Professional Services - Other-combining legal, consulting	115,134	115,134	115,134	30,349	(84,786)	-74%						
Utilities	71,330	71,330	71,330	83,408	12,078	17%						
Telephone	3,531	3,531	3,531	2,753	(778)	-22%						
Association Dues	-	-	-	-	-	0%						
Repairs & Maintenance	32,189	32,189	32,189	19,122	(13,067)	-41%						
Equipment Usage (Vehicles)	20,767	20,767	20,767	20,583	(184)	-1%						
All Other Services	40,000	40,000	40,000	-	(40,000)	-100%						
Sub-total Services	418,013	418,013	418,013	295,927	(122,086)	-29%						
Motorola Contract	890,824	890,824	890,824	850,011	(40,813)	-5%						
Juniper Software	43,000	43,000	43,000	100	(42,900)	-100%						
Materials & Parts	30,475	30,475	30,475	4,116	(26,359)	-86%						
Non Cap Assets	12,980	12,980	12,980	-	(12,980)	-100%						
All Other Commodities	-	-	-	-	-	0%						
Sub-total Commodities	977,279	977,279	977,279	854,227	(123,052)	-13%						
Subtotal O&M	1,750,175	1,750,175	1,750,175	1,399,651	(350,524)	-20%						
Contingency - 1.5% of total O&M	27,380	27,380	27,380	-	(27,380)	-100%						
VHF Operations	54,720	54,720	54,720		(54,720)	-100%						
Total	\$ 1,832,275	\$ 1,832,275	\$ 1,832,275	\$ 1,399,651	\$ (432,624)	-24%						

\*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 Operating and Maintenance Fiscal Year 2022/ 2023

	Year to Date Through August 31, 2022											
					\$ Var	% Var						
		Updated	YTD	YTD	From YTD I	Forecast						
Description	Budget	Forecast	Forecast*	Actual	Incr/(D	,						
Personnel Services	\$ 366,626	\$ 366,626	\$ 56,404	\$ 45,293	\$ (11,111)	-20%						
Insurance Premiums	8,994	8,994	1,499	-	(1,499)	-100%						
Networking Subscription Costs	12,000	12,000	2,000	-	(2,000)	-100%						
Temp Services	6,349	6,349	1,058	342	(716)	-68%						
Leases and Rents - Land	26,770	26,770	4,462	-	(4,462)	-100%						
Professional Services - Consulting	95,515	95,515	15,919	13,762	(2,157)	-14%						
Professional Services - Other-combining legal, consulting	242,322	242,322	40,387	19,558	(20,829)	-52%						
Utilities	72,685	72,685	12,114	10,580	(1,534)	-13%						
Telephone	3,598	3,598	600	98	(502)	-84%						
Association Dues	-	-	-	-	-	0%						
Repairs & Maintenance	32,801	32,801	5,467	13,659	8,192	150%						
Equipment Usage (Vehicles)	21,162	21,162	3,527	1,224	(2,303)	-65%						
All Other Services	40,760	40,760	6,793	-	(6,793)	-100%						
Sub-total Services	562,956	562,956	93,826	59,222	(34,604)	-37%						
Motorola Contract	975,000	975,000	162,500	850,011	687,511	423%						
Juniper Software	67,562	67,562	11,260	-	(11,260)	-100%						
Materials & Parts	31,054	31,054	5,176	2,135	(3,041)	-59%						
Non Cap Assets	13,226	13,226	2,204	-	(2,204)	-100%						
All Other Commodities	-	-	-	-	-	0%						
Sub-total Commodities	1,086,842	1,086,842	181,140	852,146	671,006	370%						
Subtotal O&M	2,016,424	2,016,424	331,370	956,660	625,290	189%						
Contingency - 1.5% of total O&M	29,487	29,487	4,915	-	(4,915)	-100%						
VHF Operations (special assessment)	26,663	26,663	4,444	-	(4,444)	-100%						
VHF Equipment Staff Time (Special assessment)	29,098	29,098	4,850	-	(4,850)	-100%						
Total	<u>\$ 2,101,672</u>	\$ 2,101,672	\$ 345,579	\$ 956,660	\$ 611,081	177%						

\*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			Year	to Date Thro	ugh June 30, 2	2022	)	
Fiscal Year 2021/ 2022			i oui		agn cane co, i		- \$ Var	% Var
	Project			YTD	YTD		From YTD Fo	
Project	ID	Βι	udgeted	Forecast*	Actual		Incr/(Dec	cr)
Site Expansion #1	CP0091		1,350,000	1,350,000	1,175,178	\$	(174,822)	-12.95%
TOPAZ Voice Radio Network Upgrade	CN0022	\$	-	-	-	\$	-	0.00%
Upgrade Shaw Bute & Florence Gardens to P25 Phase II	CP0906		287,406	287,406	-		(287,406)	-100.00%
System-of-Systems Networking	CP0438		-	-	-		-	0.00%
Fire Hazard Zone System Coverage Improvement & Expansion	CP0907		371,700	371,700	268,080		(103,620)	-27.88%
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		115,351	115,351	72,113		(43,238)	-37.48%
System-of-Systems	CP0905		· -	-	, _		-	0.00%
Florence Gardens ISR Site Lifecycle upgrade	LF0224		-	-	-		-	0.00%
Radio & Core Sites Battery Backup Lifecycle Upgrade	LF0266		31,910	31,910	-		(31,910)	-100.00%
Radio Sites Emergency Power Upgrade	LF0226		106,200	106,200	39,867		(66,333)	-62.46%
Communications Building UPS Battery Replacement	LF0228		-	-	-		-	0.00%
Internet Protocol Network Routers & Switches Upgrade	LF0248		-	-	-		-	0.00%
Antenna & Transmission Lines Lifecycle Upgrade	LF0282		-	-	-		-	0.00%
Consulting Services for VHF & 7/800 MHz Coverage Expansion			40,000	40,000	-		(40,000)	-100.00%
Total Capital Project	ts	\$ 2	2,450,067	\$ 2,450,067	\$ 1,555,238	\$	(894,829)	-36.52%
Capital Assessment to Members	07 550/		4 000 000	4 000 000	4 0 4 0 4 4 0		(470.000)	44 500/
Mesa Olihart	67.55%		1,226,380	1,226,380	1,048,148		(178,232)	-14.53%
Gilbert	19.60%		355,841	355,841	268,694		(87,147)	-24.49%
Apache Junction	9.22%		167,391	167,391	151,849		(15,542)	-9.28%
Ft McDowell	2.23%		40,486	40,486	25,235		(15,251)	-37.67%
Superstition Fire & Medical	0.72%		13,072	13,072	11,933		(1,139)	-8.71%
Queen Creek	0.65%		11,801	11,801	48,954		37,153	314.83%
Rio Verde Total Assessment to Membe	0.03%		545 1,815,516	\$45 \$1 915 516	¢ 1 555 227	¢	(121)	-22.20%
i otal Assessment to member	rs <u>100.00%</u>	φ	1,015,510	\$ 1,815,516	\$ 1,555,237	φ	(260,279)	-14.34%

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

### TOPAZ **Detail of Capital Projects** Fis

Project         Project         Prom YTD         From YTD	Detail of Capital Projects	Year to Date Through August 31, 2022										
Project         Did         Budgeted         Forecast'         Actual         Incr/(Decr)           Site Expansion #1         CP0091         1,590,000         265,000         6,781         \$         (258,219)         -97.4           Site Expansion #2         CP0754         790,276         131,713         -         \$         (131,713)         -         \$         (131,713)         -         \$         (131,713)         -         0.00           COPAZ Voice Radio Network Upgrade         CN0022         \$         -         -         -         0.00           Upgrade Shaw Bute & Florence Gardens to P25 Phase II         CP0907         371,700         61,950         14,377         (47,573)         -76.7           Fire Hazard Zone System Coverage Improvement & Expansion         CP0907         371,700         61,950         14,377         (47,573)         -76.7           Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade         LF022POM         -         -         -         0.00           Florence Gardens ISR Site Lifecycle upgrade         LF0224         -         -         -         0.00           Radio & Core Sites Battery Backup Lifecycle Upgrade         LF0226         106,200         17,700         -         (17,700)         100.00	Fiscal Year 2022/ 2023					-	-		\$ Var	% Var		
Site         Expansion #1         CP0091         1,590,000         265,000         6,781         \$         (258,219)         -97.4           Site Expansion #2         CP0754         790,276         131,713         -         \$         (131,713)         -00.0           Upgrade Shaw Bute & Florence Gardens to P25 Phase II         CP0906         287,406         47,901         -         0.0           System-of-Systems Networking         CP0438         -         -         -         -         0.0           Fire Hazard Zone System Coverage Improvement & Expansion         CP0907         371,700         61,950         14,377         (47,577)         -76.7           Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade         LF0402POM         -         -         -         0.0           System-of-Systems         Site Lifecycle Upgrade         LF0224         -         -         -         0.0           Radio & Core Sites Battery Backup Lifecycle Upgrade         LF0226         106,200         17,700         -         0.0           Radio Sites Emergency Power Upgrade         LF0228         17,700         2,950         -         0.0           Interme Protocol Network Routers & Switches Upgrade         LF0248         -         -         -         0		Project			YTD		YTD		From YTD Fo	orecast		
Site Expansion #2       CP0754       790,276       131,713       -       \$       (131,713)       -       \$       (131,713)       -       0.0         TOPAZ Voice Radio Network Uggrade       CP0906       287,406       47,901       -       -       0.0         System-of-Systems Networking       CP0438       -       -       -       -       0.0         Fire Hazard Zone System Coverage Improvement & Expansion       CP0907       371,700       61,950       14,377       (47,573)       -60.0         Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade       LF0402POM       -       -       -       0.0         System-of-Systems       CP0905       -       -       -       0.0       0.0         Fire Hazard Zone System Lifecycle Upgrade       LF0224       -       -       0.0       0.0         Radio & Core Sites Battery Backup Lifecycle Upgrade       LF0226       106,200       17,700       -       0.0         Radio & Core Sites Battery Backup Lifecycle Upgrade       LF0228       17,000       61,833       -       (61,833)       -       0.0         Communications Building UPS Battery Replacement       LF0248       -       -       -       -       -       0.0 <td< th=""><th>Project</th><th>ID</th><th></th><th>Budgeted</th><th>Forecast*</th><th></th><th>Actual</th><th></th><th>Incr/(De</th><th>cr)</th></td<>	Project	ID		Budgeted	Forecast*		Actual		Incr/(De	cr)		
TOPAZ Voice Radio Network Upgrade       CN0022       \$       -       -       \$       0.0         Upgrade Shaw Bute & Florence Gardens to P25 Phase II       CP0906       287,406       47,901       -       (47,901)       -100.0         System-O-System Networking       CP0438       -       -       -       -       0.0         Fire Hazard Zone System Coverage Improvement & Expansion       CP0907       371,700       61,950       14,377       (47,573)       -76.7         Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade       LF0402POM       -       -       -       0.0         System-of-Systems       CP0905       -       -       -       0.0       0.0         System-of-Systems       CP0905       -       -       -       0.0       0.0         Radio Sites Emergency Power Upgrade       LF0226       106,200       17,700       -       0.0         Radio Sites Emergency Power Upgrade       LF0228       17,700       2,950       -       (2,950)       100.0         Internet Protocol Network Routers & Switches Upgrade       LF0228       17,700       2,950       -       0.0         Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       0.0	Site Expansion #1	CP0091		1,590,000	265,000	)	6,781	\$	(258,219)	-97.44%		
Upgrade Shaw Bute & Florence Gardens to P25 Phase II       CP0906       287,406       47,901       -       (47,901)       -100.0         System-of-Systems Networking       CP0438       -       -       -       0.0         Fire Hazard Zone System Coverage Improvement & Expansion       CP0907       371,700       61,950       14,377       (47,573)       -76.7         Fire Hazard Zone System Coverage Improvement & Expansion       CP0905       -       -       -       0.0         System-of-Systems       CP0905       -       -       -       0.0         Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade       LF0402POM       -       -       -       0.0         System-of-Systems       CP0905       -       -       -       0.0         Radio & Core Sites Battery Backup Lifecycle Upgrade       LF0226       106,200       17,700       -       (17,700)       -       0.0         Communicions Building UPS Battery Replacement       LF0228       17,700       2,950       -       2,950       -       0.0         Enhanced data (TBD)       371,000       61,833       -       -       0.0         Internet Protocol Network Routers & Switches Upgrade       LF0282       -       -       -       0.0 <td>Site Expansion #2</td> <td>CP0754</td> <td></td> <td>790,276</td> <td>131,713</td> <td>3</td> <td>-</td> <td>\$</td> <td>(131,713)</td> <td>-100.00%</td>	Site Expansion #2	CP0754		790,276	131,713	3	-	\$	(131,713)	-100.00%		
System-of-Systems Networking       CP0438       -       -       -       -       0.00         Fire Hazard Zone System Coverage Improvement & Expansion       CP0907       371,700       61,950       14,377       (47,573)       -76.00         Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade       LF0402POM       -       -       -       0.00         System-of-Systems       CP0905       -       -       -       0.00         Radio & Core Sites Battery Backup Lifecycle Upgrade       LF0226       106,200       17,700       -       (17,700)       -00.00         Communications Building UPS Battery Replacement       LF0228       17,700       61,833       -       -       0.00         Internet Protocol Network Routers & Switches Upgrade       LF0248       -       -       - <td>TOPAZ Voice Radio Network Upgrade</td> <td>CN0022</td> <td>\$</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>\$</td> <td>-</td> <td>0.00%</td>	TOPAZ Voice Radio Network Upgrade	CN0022	\$	-		-	-	\$	-	0.00%		
Fire Hazard Zone System Coverage Improvement & Expansion       CP0907       371,700       61,950       14,377       (47,573)       -76.7         Fire Hazard Zone System Lifecycle Upgrade       -       -       -       -       0.0         Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade       LF0402POM       -       -       -       0.0         System-of-Systems       CP0905       -       -       -       0.0         Florence Gardens ISR Site Lifecycle Upgrade       LF0226       106,200       17.700       -       -       0.0         Radio & Core Sites Battery Backup Lifecycle Upgrade       LF0266       -       -       -       0.0         Radio Sites Emergency Power Upgrade       LF0268       106,200       17.700       -       (17.700)       -       (17.700)       -       (17.700)       -       0.0         Communications Building UPS Battery Replacement       LF028       17,700       2,950       -       (2,950)       -0.00         Internet Protocol Network Routers & Switches Upgrade       LF0248       -       -       -       0.0         Vireless Backhaul (MW) Network Upgrade       LF028       -       -       -       0.0         Consulting Services for VHF & 7/800 MHz Coverage Expansion	Upgrade Shaw Bute & Florence Gardens to P25 Phase II	CP0906		287,406	47,901		-		(47,901)	-100.00%		
Fire Hazard Zone System Lifecycle Upgrade       -       -       -       -       0.0         Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade       LF0402POM       -       -       -       0.0         System-of-Systems       CP0905       -       -       -       0.0         Florence Gardens ISR Site Lifecycle upgrade       LF0224       -       -       -       0.0         Radio & Core Sites Battery Backup Lifecycle Upgrade       LF0226       106,200       17,700       -       (17,700)       -100.0         Communications Building UPS Battery Replacement       LF0228       17,000       2,950       -       (2,950)       -       0.00         Internet Protocol Network Routers & Switches Upgrade       LF0282       -       -       -       0.00         Consulting Services for VHF & 7/800 MHz Coverage Expansion       LF0282       -       -       -       0.00         Capital Assessment to Members       -       -       -       -       -       0.00         Gilbert       19.60%       355,841       59,307       3,964       (55,343)       -93.3         Apache Junction       9.22%       167,391       27,899       2,515       (25,384)       -90.00         Gilbert	System-of-Systems Networking	CP0438		-		-	-		-	0.00%		
Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade       LF0402POM       -       -       -       -       0.0         System-of-Systems       CP0905       -       -       -       0.0         Florence Gardens ISR Site Lifecycle upgrade       LF0224       -       -       -       0.0         Radio & Core Sites Battery Backup Lifecycle Upgrade       LF0226       106,200       17,700       -       (17,700)       -100.0         Communications Building UPS Battery Replacement       LF0228       17,700       2,950       -       (2,950)       -100.00         Communications Building UPS Battery Replacement       LF0228       17,700       2,950       -       (2,950)       -100.00         Internet Protocol Network Routers & Switches Upgrade       LF0248       -       -       -       0.00         Wireless Backhaul (MW) Network Upgrade       LF0248       -       -       -       0.00         Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       -       0.00         Total Capital Projects       \$3,701,547       \$616,925       \$24,354       \$(592,571)       -90.00         Gilbert       19,60%       355,841       59,307       3,964       (55,343)       -93.3	Fire Hazard Zone System Coverage Improvement & Expansion	CP0907		371,700	61,950	)	14,377		(47,573)	-76.79%		
System-of-Systems       CP0905       -       -       -       -       0.0         Florence Gardens ISR Site Lifecycle upgrade       LF0224       -       -       -       0.0         Radio & Core Sites Battery Backup Lifecycle Upgrade       LF02266       -       -       -       0.0         Radio Sites Emergency Power Upgrade       LF02266       106,200       17,700       -       (17,700)       -100.0         Communications Building UPS Battery Replacement       LF0228       17,700       2,950       -       (2,950)       -100.00         Enhanced data (TBD)       371,000       61,833       -       (61,833)       -100.00         Internet Protocol Network Routers & Switches Upgrade       LF0248       -       -       -       0.00         Antenna & Transmission Lines Lifecycle Upgrade       LF0282       -       -       -       0.00         Wireless Backhaul (MW) Network Upgrade       LF0403CAP       167,265       27,878       3,196       (24,682)       -88.5         Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       0.00         Gilbert       19,60%       355,841       59,307       3,964       (55,343)       -93.3         Apache Junction <t< td=""><td>Fire Hazard Zone System Lifecycle Upgrade</td><td></td><td></td><td>-</td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>0.00%</td></t<>	Fire Hazard Zone System Lifecycle Upgrade			-		-	-		-	0.00%		
Florence Gardens ISR Site Lifecycle upgrade       LF0224       -       -       -       -       0.0         Radio & Core Sites Battery Backup Lifecycle Upgrade       LF0266       -       -       -       0.0         Radio Sites Emergency Power Upgrade       LF0226       106,200       17,700       -       (17,700)       -100.0         Communications Building UPS Battery Replacement       LF0228       17,700       2,950       -       (2,950)       -100.0         Internet Protocol Network Routers & Switches Upgrade       LF0248       -       -       -       0.0         Antenna & Transmission Lines Lifecycle Upgrade       LF0282       -       -       -       0.0         Wireless Backhaul (MW) Network Upgrade       LF0403CAP       167,265       27,878       3,196       (24,682)       -88.5         Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       -       -       -       0.0         Gilbert       19,60%       355,841       59,307       3,964       (55,343)       -93.3       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       0.0<	Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade	LF0402POM		-		-	-		-	0.00%		
Radio & Core Sites Battery Backup Lifecycle Upgrade       LF0266       -       -       -       -       0.0         Radio Sites Emergency Power Upgrade       LF0226       106,200       17,700       -       (17,700)       -100.0         Communications Building UPS Battery Replacement       LF0228       17,700       2,950       -       (2,950)       -100.0         Enhanced data (TBD)       371,000       618.33       -       (61.833)       -100.0         Internet Protocol Network Routers & Switches Upgrade       LF0282       -       -       -       -       0.0         Antenna & Transmission Lines Lifecycle Upgrade       LF0282       -       -       -       0.0         Wireless Backhaul (MW) Network Upgrade       LF0403CAP       167,265       27,878       3,196       (24,682)       -88.5         Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       -       0.0         Mesa       67.55%       1,226,380       204,397       16,178       (188,219)       -92.0         Gilbert       19.60%       355,841       59,307       3,964       (55,343)       -93.3         Apache Junction       9.22%       167,391       27,899       2,515       (25,384)       <	System-of-Systems	CP0905		-		-	-		-	0.00%		
Radio Sites Emergency Power Upgrade       LF0226       106,200       17,700       -       (17,700)       -100.00         Communications Building UPS Battery Replacement       LF0228       17,700       2,950       -       (2,950)       -100.00         Enhanced data (TBD)       371,000       61,833       -       (61,833)       -100.00         Internet Protocol Network Routers & Switches Upgrade       LF0248       -       -       -       0.00         Antenna & Transmission Lines Lifecycle Upgrade       LF0282       -       -       -       0.00         Wireless Backhaul (MW) Network Upgrade       LF043CAP       167,265       27,878       3,196       (24,682)       -88.5         Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       0.00         Total Capital Projects       \$3,701,547       \$616,925       \$24,354       \$(592,571)       -96.00         Bibert       19.60%       355,841       59,307       3,964       (55,343)       -93.3         Apache Junction       9.22%       167,391       27,899       2,515       (25,384)       -90.90         Ft McDowell       2.23%       40,486       6,748       360       (6,388)       -94.60         Supers	Florence Gardens ISR Site Lifecycle upgrade	LF0224		-		-	-		-	0.00%		
Communications Building UPS Battery Replacement       LF0228       17,700       2,950       -       (2,950)       -100.00         Enhanced data (TBD)       371,000       61,833       -       (61,833)       -100.00         Internet Protocol Network Routers & Switches Upgrade       LF0248       -       -       -       0.00         Antenna & Transmission Lines Lifecycle Upgrade       LF0282       -       -       -       0.00         Wireless Backhaul (MW) Network Upgrade       LF0403CAP       167,265       27,878       3,196       (24,682)       -88.5         Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       -       -       0.00         Mesa       67.55%       1,226,380       204,397       16,178       (188,219)       -92.00         Gilbert       19.60%       355,841       59,307       3,964       (55,343)       -93.30         Apache Junction       9.22%       167,991       27,899       2,515       (25,384)       -90.90         Ft McDowell       2.23%       40,486       6,748       360       (6,388)       -94.60         Superstition Fire & Medical       0.72%       13,072       2,179       190       (1,989)       -91.2	Radio & Core Sites Battery Backup Lifecycle Upgrade	LF0266		-		-	-		-	0.00%		
Enhanced data (TBD)       371,000       61,833       -       (61,833)       -100.00         Internet Protocol Network Routers & Switches Upgrade       LF0248       -       -       -       -       0.00         Antenna & Transmission Lines Lifecycle Upgrade       LF0282       -       -       -       0.00         Wireless Backhaul (MW) Network Upgrade       LF0403CAP       167,265       27,878       3,196       (24,682)       -88.50         Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       -       -       0.00         Total Capital Projects       \$3,701,547 \$616,925 \$24,354 \$(592,571) -96.00       -       -       -       -       0.00         Capital Assessment to Members       -       -       -       -       -       -       0.00         Gilbert       19.60%       355,841       59,307       3,964       (55,343)       -93.30         Apache Junction       9.22%       167,391       27,899       2,515       (25,384)       -90.90         Ft McDowell       2.23%       40,486       6,748       360       (6,388)       -94.20         Superstition Fire & Medical       0.72%       13,072       2,179       190       (1,989) <td< td=""><td>Radio Sites Emergency Power Upgrade</td><td>LF0226</td><td></td><td>106,200</td><td>17,700</td><td>)</td><td>-</td><td></td><td>(17,700)</td><td>-100.00%</td></td<>	Radio Sites Emergency Power Upgrade	LF0226		106,200	17,700	)	-		(17,700)	-100.00%		
Enhanced data (TBD)       371,000       61,833       -       (61,833)       -100.00         Internet Protocol Network Routers & Switches Upgrade       LF0248       -       -       -       -       0.00         Antenna & Transmission Lines Lifecycle Upgrade       LF0282       -       -       -       0.00         Wireless Backhaul (MW) Network Upgrade       LF0403CAP       167,265       27,878       3,196       (24,682)       -88.50         Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       -       -       0.00         Total Capital Projects       \$3,701,547 \$616,925 \$24,354 \$(592,571) -96.00       -       -       -       -       0.00         Capital Assessment to Members       -       -       -       -       -       -       0.00         Gilbert       19.60%       355,841       59,307       3,964       (55,343)       -93.30         Apache Junction       9.22%       167,391       27,899       2,515       (25,384)       -90.90         Ft McDowell       2.23%       40,486       6,748       360       (6,388)       -94.20         Superstition Fire & Medical       0.72%       13,072       2,179       190       (1,989) <td< td=""><td>Communications Building UPS Battery Replacement</td><td>LF0228</td><td></td><td>17,700</td><td>2,950</td><td>)</td><td>-</td><td></td><td>(2,950)</td><td>-100.00%</td></td<>	Communications Building UPS Battery Replacement	LF0228		17,700	2,950	)	-		(2,950)	-100.00%		
Antenna & Transmission Lines Lifecycle Upgrade       LF0282       -       -       -       -       -       0.0         Wireless Backhaul (MW) Netwrok Upgrade       LF0403CAP       167,265       27,878       3,196       (24,682)       -88.5         Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       -       0.0         Kesa       67.55%       1,226,380       204,397       16,178       (188,219)       -92.0         Gilbert       19.60%       355,841       59,307       3,964       (55,343)       -93.3         Apache Junction       9.22%       167,391       27,899       2,515       (25,384)       -90.9         Ft McDowell       2.23%       40,486       6,748       360       (6,388)       -94.6         Superstition Fire & Medical       0.72%       13,072       2,179       190       (1,989)       -91.2         Queen Creek       0.65%       11,801       1,967       1,137       (830)       -42.2	Enhanced data (TBD)			371,000	61,833	3	-		(61,833)	-100.00%		
Wireless Backhaul (MW) Network Upgrade       LF0403CAP       167,265       27,878       3,196       (24,682)       -88.5         Consulting Services for VHF & 7/800 MHz Coverage Expansion       Total Capital Projects       is 3,701,547       is 616,925       is 24,354       is (592,571)       -96.0         Capital Assessment to Members       Mesa       67.55%       1,226,380       204,397       16,178       (188,219)       -92.0         Gilbert       19.60%       355,841       59,307       3,964       (55,343)       -93.3         Apache Junction       9.22%       167,391       27,899       2,515       (25,384)       -90.9         Ft McDowell       2.23%       40,486       6,748       360       (6,388)       -94.6         Superstition Fire & Medical       0.72%       13,072       2,179       190       (1,989)       -91.2         Queen Creek       0.65%       11,801       1,967       1,137       (830)       -42.2	Internet Protocol Network Routers & Switches Upgrade	LF0248		-		-	-		-	0.00%		
Consulting Services for VHF & 7/800 MHz Coverage Expansion       -       -       -       -       0.0         Total Capital Projects         Services for VHF & 7/800 MHz Coverage Expansion         Total Capital Projects         Services for VHF & 7/800 MHz Coverage Expansion         Consulting Services for VHF & 7/800 MHz Coverage Expansion         Consulting Services for VHF & 7/800 MHz Coverage Expansion         Consulting Services for VHF & 7/800 MHz Coverage Expansion         Services for VHF & 7/800 MHz Coverage Expansion         Capital Assessment to Members         Mesa       67.55%       1,226,380       204,397       16,178       (188,219)       -92.0         Gilbert       19.60%       355,841       59,307       3,964       (55,343)       -93.3         Apache Junction       9.22%       167,391       27,899       2,515       (25,384)       -90.9         Ft McDowell       2.23%       40,486       6,748       360       (6,388)       -94.6         Superstition Fire & Medical       0.72%       13,072       2,179       190       (1,989)       -91.2         Queen Creek       0.65%       11,801       1,967       1,137       (830)	Antenna & Transmission Lines Lifecycle Upgrade	LF0282		-		-	-		-	0.00%		
Total Capital Projects         \$ 3,701,547 \$ 616,925 \$ 24,354 \$ (592,571) -96.0           Capital Assessment to Members         Mesa         67.55%         1,226,380         204,397         16,178         (188,219)         -92.0           Gilbert         19.60%         355,841         59,307         3,964         (55,343)         -93.3           Apache Junction         9.22%         167,391         27,899         2,515         (25,384)         -90.9           Ft McDowell         2.23%         40,486         6,748         360         (6,388)         -94.0           Superstition Fire & Medical         0.72%         13,072         2,179         190         (1,989)         -91.2           Queen Creek         0.65%         11,801         1,967         1,137         (830)         -42.2	Wireless Backhaul (MW) Netwrok Upgrade	LF0403CAP		167,265	27,878	3	3,196		(24,682)	-88.53%		
Capital Assessment to Members         Mesa       67.55%       1,226,380       204,397       16,178       (188,219)       -92.0         Gilbert       19.60%       355,841       59,307       3,964       (55,343)       -93.3         Apache Junction       9.22%       167,391       27,899       2,515       (25,384)       -90.9         Ft McDowell       2.23%       40,486       6,748       360       (6,388)       -94.6         Superstition Fire & Medical       0.72%       13,072       2,179       190       (1,989)       -91.2         Queen Creek       0.65%       11,801       1,967       1,137       (830)       -42.2	Consulting Services for VHF & 7/800 MHz Coverage Expansion			-		-	-		-	0.00%		
Mesa67.55%1,226,380204,39716,178(188,219)-92.0Gilbert19.60%355,84159,3073,964(55,343)-93.3Apache Junction9.22%167,39127,8992,515(25,384)-90.9Ft McDowell2.23%40,4866,748360(6,388)-94.6Superstition Fire & Medical0.72%13,0722,179190(1,989)-91.2Queen Creek0.65%11,8011,9671,137(830)-42.2	Total Capital Proje	cts	\$	3,701,547	\$ 616,925	5\$	24,354	\$	(592,571)	-96.05%		
Mesa67.55%1,226,380204,39716,178(188,219)-92.0Gilbert19.60%355,84159,3073,964(55,343)-93.3Apache Junction9.22%167,39127,8992,515(25,384)-90.9Ft McDowell2.23%40,4866,748360(6,388)-94.6Superstition Fire & Medical0.72%13,0722,179190(1,989)-91.2Queen Creek0.65%11,8011,9671,137(830)-42.2	Canital Assessment to Members											
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									,	-42.20%		
Rio Verde 0.03% 545 91 10 (81) -89.0	Rio Verde	0.03%							· · ·	-89.01%		

100.00% \$

1,815,516

\$

302,588 \$

24,354 \$

(278,234)

-91.95%

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

Total Assessment to Members



Date:	09/08/2022
To:	TOPAZ Regional Wireless Cooperative (TRWC) Board of Directors
Through:	Dale Shaw, TRWC Executive Director
From:	Chuck Craig
Subject:	Administrator Update

### Current projects

### 1) Capital Budget

- **a.** Site Expansion H60, the JOC (Hunter Construction) delivered the quote to build the H60 site, total \$1,524,738. This puts the project over budget by \$698,493. Mesa is looking find ways to reduce the overall cost for the site, as an example David Brunk has engaged a different building manufacturer giving us a cost savings of \$100,000. There are several projects we can move budget capacity from to complete the project.
  - i. Fire Hazard Zone System Coverage (CP0907) \$371,700
    - 1. These funds would cover the VHF equipment for the site
  - ii. Wolverine site (CP0754) \$790,276
  - iii. Remaining funds from Fire Hazard Zone System Simulcast Timing Reference(LF0402) \$69,743
- **b.** We are working closely with the Town of Queen Creek for an 800Mhz ISR site. We may have located one that fits our needs.
- **c.** Met with the Executive Committee and discussed the reallocation of equipment at Florence Gardens to a future site in the Queen Creek area. The recommendation was approved. The Federal Engineering study is included.
- **d.** Status of takeover of the Wolverine site from the FAA, Margaret has sent paperwork to Mesa real estate to move the process forward. A packet of information will be sent soon to the Forest Service.
- 2) We are looking to have the FY24 budget, along with the new 6-year SUA-2 approved at the 9/22/2022 TRWC Board of Director's meeting, and have Mesa City Council approve the SUA at the 10/3/2022 meeting
- 3) There is a current fiscal year budget line item to perform a security audit of our P25 radio system. Randy Thompson has brought 2 different companies to our attention. We met with IPKeys and Compliance Testing. We will move the conversation forward with IPkey, with a joint meeting with them and Mesa's DoIT Security team.

### **Operations Summary**

A. We have had minor microwave interruptions at our Florence Gardens location, we feel this is based on weather in the area. To try and remediate the situation we have

### TRWC Administrator Update, October 1, 2020

changed our frequency modulation and increased power output. This would reduce the speed of the connection but improve reliability.

- B. We are continuing to work with Motorola on implementing Smart Connect. As an organization we should review all proprietary Motorola P25 features to determine if they fit with the TRWC's long range plans.
- C. We should have a final solution for implementing TDMA at Shaw Buttes and Florence Gardens early in October.
- D. Quarterly/monthly patching will begin On Wednesday 09-14-22. We will start with the DSR with no expected outage. On Friday 09-16-21 at 3:00 A.M. we will switch zone controllers to ZC02. This will cause Site Trunking for approximately 5-30 sec. Dispatch consoles will drop during this time and each dispatch center has been alerted that they will need to have portables ready. Bryan Waters will contact each dispatch center prior to the site trunking event.
- E. We are working with Motorola on replacements for our GGM 8000 and S600 routers, as they are out of service.

## **Upcoming** Events:

• All upcoming or in-progress events are discussed earlier in this report

# Other News:



Date:September 22, 2022To:Topaz Regional Wireless Cooperative (TRWC) Board of DirectorsFrom:Dale Shaw, TRWC Executive DirectorSubject:Town of Florence Conditional Network Use Ratification

## Recommendation

The TRWC Executive Director recommends the ratification of the attached Addendum with the Town of Florence, which extends conditional emergency use of the TRWC Network to facilitate temporary dispatch services provided by the City of Mesa (under separate agreement).

## **Background & Discussion**

On March 25th 2022, the "Agreement To Provide For Emergency Network Use Between The Topaz Regional Wireless Cooperative Network And The Town Of Florence" was executed and subsequently ratified by the TRWC Board of Directors on May 19th, 2022. The attached Addendum was executed on July 26th, 2022, to extend the use of the Network due to impacts to the Town of Florence resulting from storm damage to their system infrastructure. As per section 2.1.3 of the TRWC Governance Agreement, the conditional use of the Network imposed by this agreement must be approved or disapproved by the TRWC Board of Directors at the next Board Meeting.

## **Fiscal Impact**

No direct fiscal impacts are anticipated in conjunction with this recommendation.

# ADDENDUM TO AGREEMENT TO PROVIDE EMERGENCY NETWORK USE BETWEEN THE TOPAZ REGIONAL WIRELESS COOPERATIVE NETWORK AND THE TOWN OF FLORENCE

This Addendum is effective as of July 25, 2022 and extends the term of the Addendum to Agreement to Provide Emergency Network Use between the City of Mesa and the Town of Florence until August 1, 2022.

- Section 1.1, page 1 of the Addendum will be amended to extend the term of the Agreement until August 1, 2022. Thereafter, the Agreement shall automatically terminate.
- All other requirements of the Agreement to Provide Emergency Network Use between the City of Mesa and the Town of Florence (entered on 25 March 2022), shall remain in full force and effect.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized officers and agents as of July 22, 2022.

CITY OF MESA

By

Dale Shaw, TRWC Director

TOWN OF FLORENCE

By \_\_\_\_

Lisa Garcia Interim Town Manager