



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.

b. 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) Ratify Emergency Network Access for Town of Florence – 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) Executive Committee Updates – 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) 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 from the Board

8) Next TRWC Board Meetings:

September 22, 2022

9) Future Board of Directors Schedule

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/>

Date: September 19, 2022

To: 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

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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 policies.

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, 2022
To: Topaz Regional Wireless Cooperative (TRWC) Board of Directors
From: Dale Shaw, TRWC Executive Director
Rob Duggan, TRWC Executive Committee Co-chairman
Subject: 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
Summary of Labor and Non-labor**

	FY 22/23 BUDGET	FY 23/24 DRAFT BUDGET	CHANGE FY22/23 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	1.90%	8.00%	
GENERAL & ADMINISTRATIVE - OTHER SERVICES			
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	8,994	9,714	720
Utilities	72,685	87,920	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	20,380	22,010	1,630
Networking Subscription Costs	12,000	12,960	960
All Other Services	-	-	-
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)	975,000	1,082,910	107,910
Software Maint-Mainsaver, Juniper	67,562	72,967	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)	26,663	28,795	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	2.21%	1.45%	-0.76%
Superstition Fire & Medical	0.72%	0.79%	0.07%
Queen Creek	0.64%	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%
Total	100.00%	100.00%	0.00%
VHF SPECIAL ASSESSMENT (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	20,312	23,810	3,497
Queen Creek	14,889	105,847	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 Maintenance

Network Administrator Updates

TOPAZ
Detail of Operating and Maintenance
Fiscal Year 2021/ 2022

Description	Year to Date Through June 30, 2022 13th Month					
	Budget	Updated Forecast	YTD Forecast*	YTD Actual	\$ Var From YTD Forecast	% Var
					Incr/(Decr)	
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

Description	Budget	Updated Forecast	YTD Forecast*	YTD Actual	\$ Var	% Var
					From YTD Forecast	Incr/(Decr)
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	\$ 2,101,672	\$ 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
Fiscal Year 2021/ 2022

Year to Date Through June 30, 2022

Project	Project ID	Budgeted	YTD Forecast*	YTD Actual	\$ Var From YTD Forecast Incr/(Decr)	% Var
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 Projects		\$ 2,450,067	\$ 2,450,067	\$ 1,555,238	\$ (894,829)	-36.52%
Capital Assessment to Members						
Mesa	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	0.03%	545	545	424	(121)	-22.20%
Total Assessment to Members	100.00%	\$ 1,815,516	\$ 1,815,516	\$ 1,555,237	\$ (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
Fiscal Year 2022/ 2023

Year to Date Through August 31, 2022

Project	Project ID	Budgeted	YTD Forecast*	YTD Actual	\$ Var From YTD Forecast	% Var
					Incr/(Decr)	
Site Expansion #1	CP0091	1,590,000	265,000	6,781	\$ (258,219)	-97.44%
Site Expansion #2	CP0754	790,276	131,713	-	\$ (131,713)	-100.00%
TOPAZ Voice Radio Network Upgrade	CN0022	\$ -	-	-	\$ -	0.00%
Upgrade Shaw Bute & Florence Gardens to P25 Phase II	CP0906	287,406	47,901	-	(47,901)	-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)	-76.79%
Fire Hazard Zone System Lifecycle Upgrade		-	-	-	-	0.00%
Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade	LF0402POM	-	-	-	-	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	-	-	-	-	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) Netwrok Upgrade	LF0403CAP	167,265	27,878	3,196	(24,682)	-88.53%
Consulting Services for VHF & 7/800 MHz Coverage Expansion		-	-	-	-	0.00%
Total Capital Projects		\$ 3,701,547	\$ 616,925	\$ 24,354	\$ (592,571)	-96.05%
Capital Assessment to Members						
Mesa	67.55%	1,226,380	204,397	16,178	(188,219)	-92.09%
Gilbert	19.60%	355,841	59,307	3,964	(55,343)	-93.32%
Apache Junction	9.22%	167,391	27,899	2,515	(25,384)	-90.99%
Ft McDowell	2.23%	40,486	6,748	360	(6,388)	-94.67%
Superstition Fire & Medical	0.72%	13,072	2,179	190	(1,989)	-91.28%
Queen Creek	0.65%	11,801	1,967	1,137	(830)	-42.20%
Rio Verde	0.03%	545	91	10	(81)	-89.01%
Total Assessment to Members	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).



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, 2022
To: Topaz Regional Wireless Cooperative (TRWC) Board of Directors
From: Dale Shaw, TRWC Executive Director
Subject: 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