TRWC Board of Directors Meeting
January 17, 2023 - 1:00 p.m.
Phoenix-Mesa Gateway Airport (PMGA)
Administration Building, Board Room
5835 S. Sossaman Road
Mesa, AZ 85212

Agenda

1) <u>Call to Order and Opening Comments</u>

   a. Materials and sign-in sheet
   b. Speaker cards
   c. Audio and video recording
      Chair 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: Chair Kross, Vice Chair Leah Rhineheimer, Director Busby, Director Butler, Director Smith, Director Mooney, Director Stewart
   e. Introduction of new members: Chair Kross introduced the new members and the movement from Alternate Board member to Primary Board member. New members are Director Chief Butler representing Mesa, Director Chief Smith representing Fort McDowell Yavapai Nation, and Alternate Director Chief Stewart representing RIO Verde. Movement from Alternate to Primary are Director Bruce Gardner representing Queen Creek and Director Chief Krushak representing RIO Verde.

2) <u>Public Comment</u>

   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) <u>Discussion and Action on Board Meeting Minutes</u>

   There were no questions or comments on the Board Meeting Minutes for September 22, 2022. Director Busby motioned for an approval of the minutes and Director Mooney second the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

4) <u>Executive Committee Updates</u> – Chief Duggan

   Co-Chair Duggan introduced Jason King as the new Executive Committee Co-Chair. Co-Chair Duggan went on to give a brief explanation of the carry over that was related to the purchase of new consoles. He then let the Board know that the Committee did a trial run at a new facility for the next Board meeting.

5) <u>Discussion and Action on the TRWC Maintenance and Support Policy</u> –Director Shaw, Chuck Craig

   Director Shaw explained that this was discussed at the last Board meeting but was not place on the agenda as an action. As indicated in the last meeting this item is carried over for action. Mr. Craig

gave a brief update on the Policy change. There were no questions or concerns on this action item. Chair Kross requested for a motion for consideration of approval. Vice-Chair Leah Rhineheimer motioned to approve, and Director Busby second the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

6) Network Administrator Updates

   a. Finance Update – Angie Huckaby
   Ms. Huckaby stated that O&M and the Capital budgets are under budget year to date. Capital has been updated with a carry over of a 9.1% sales tax that was not added in for the purchase of consoles. There were no questions or comments from the Board.

   b. Network Updates and Performance overview – Chuck Craig
   Mr. Craig stated that he is continuing to work with Motorola, Mesa, and Gilbert on the Smart Connect Proof of Concept, it will be 24/7 starting January 16th. He also discussed the expansion sites, stating that we are waiting for an answer from City Engineering for a final recommendation to put a 750lb receive site on top of Banner Ironwood . Mr. Craig and staff are working closely with the Forest Service and hoping for an approval for the tower at the Wolverine site. The city purchasing process of engaging with a IPKeys to perform our Radio system security audit has begun. There was a power outage at the CAP (City Utilities secondary site) which kept the backup system offline for a day, however City Facilities quickly corrected to problem. Lastly, Mr. Craig provided a schedule to the Board for when the Mesa Radio shop will be conducting preventive maintenance.

   Chair Kross asked if there have been any interruptions or problems created with the Public Safety group with the Smart Connect. Mr. Craig replied that there has not been a problem with the Public Agencies or to safety. Chair Kross questioned the Banner received site and asked if the final analysis has been completed. Mr. Craig stated that he is waiting for the final word, but the engineer does not recommend putting the receiver on top of the building due to its weight. Mr. Craig also discussed other options for the receiver that have been turned down. Chair Kross would like to know what the next plan is if this Banner site does not work. Mr. Craig and Director Shaw reviewed some of the other sites that we are looking at.

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:

   May 18, 2023

9) Future Board of Directors Schedule

Date	Upcoming Agenda Items
5/18/2023	
9/14/2023	Budget Adoption

10) Discussion and Action on Election of Board Chair – Dale Shaw
    Nominations and/or interest received: Matt Busby

    Director Shaw announced the soul nomination for the Chair of the Board, Matt Busby. Chair Kross asked for a motioned from the Board approving Matt Busby as the new Chair of TRWC. Director Rhineheimer motioned for the approval of Matt Busby and Director Mooney second the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

11) <u>Retirement Recognition</u>
Chair Kross

Chair Kross thanked everyone for all the time and effort over the years and reflected on his time with TRWC. Director Shaw, former Director Pombier, and others shared memorable moments of working with John.

12) <u>Adjournment</u>

Director Busby motioned for adjournment at 1:28. Director Butler second the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

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.

Date: January 17, 2023

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).

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

TOPAZ
Detail of Operating and Maintenance
Fiscal Year 2022/ 2023

Year to Date Through November 30, 2022

Description	Budget	Updated Forecast	YTD Forecast*	YTD Actual	$ Var From YTD Forecast Incr/(Decr)	% Var
Personnel Services	$ 366,626	$ 366,626	$ 141,010	$ 178,689	$ 37,679	27%
Insurance Premiums	8,994	8,994	3,748	-	(3,748)	-100%
Temp Services	6,349	6,349	2,645	987	(1,658)	-63%
Leases and Rents - Land	26,770	26,770	11,154	-	(11,154)	-100%
Professional Services - Consulting	95,515	95,515	39,798	42,078	2,280	6%
Professional Services - Other-combining legal, consulting	242,322	242,322	100,968	14,870	(86,098)	-85%
Utilities	72,685	72,685	30,285	30,758	473	2%
Telephone	3,598	3,598	1,499	1,542	43	3%
Networking Subscription Costs	12,000	12,000	5,000	-	(5,000)	-100%
Repairs & Maintenance	32,801	32,801	13,667	14,959	1,292	9%
Equipment Usage (Vehicles)	21,162	21,162	8,818	6,502	(2,316)	-26%
All Other Services	40,760	40,760	16,983	575	(16,408)	-97%
Sub-total Services	562,956	562,956	234,565	112,271	(122,294)	-52%
Motorola Contract	975,000	975,000	406,250	850,586	444,336	109%
Juniper Software	67,562	67,562	28,151	-	(28,151)	-100%
Materials & Parts	31,054	31,054	12,939	3,645	(9,294)	-72%
Non Cap Assets	13,226	13,226	5,511	-	(5,511)	-100%
All Other Commodities	-	-	-	-	-	0%
Sub-total Commodities	1,086,842	1,086,842	452,851	854,231	401,380	89%
Subtotal O&M	2,016,424	2,016,424	828,426	1,145,191	316,765	38%
Contingency - 1.5% of total O&M	29,487	29,487	12,286	-	(12,286)	-100%
VHF Operations	55,761	55,761	23,234		(23,234)	-100%
Total	$ 2,101,672	$ 2,101,672	$ 863,946	$ 1,145,191	$ 281,245	33%

*YTD Forecast represents 5 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 2022/ 2023

Year to Date Through November 30, 2022

Project	Project ID	Budgeted	YTD Forecast*	YTD Actual	$ Var From YTD Forecast Incr/(Decr)	% Var
Site Expansion #1	CP0091	1,764,822	735,343	12,147	$ (723,196)	-98.35%
Site Expansion #2 WOL	CP0754CAP	790,276	329,282	2,932	$ (326,350)	-99.11%
TOPAZ Voice Radio Network Upgrade	CN0022	$ -	-	-	$ -	0.00%
Upgrade Shaw Bute & Florence Gardens to P25 Phase II	CP0906	574,812	239,505	-	(239,505)	-100.00%
Wireless Backhual (Microwave) Network Lifecycle Upgrade	LF0403CAP	167,265	69,694	5,850	(63,844)	-91.61%
Enhanced Data TBD		371,000	154,583	-	(154,583)	-100.00%
System-of-Systems Networking	CP0438	-	-	-	-	0.00%
Fire Hazard Zone System Coverage Improvement & Expansion	CP0907	475,320	198,050	33,291	(164,759)	-83.19%
Fire Hazard Zone System Lifecycle Upgrade	LF0465CAP	147,500	61,458	-	(61,458)	-100.00%
Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade	LF0402POM	43,238	18,016	-	(18,016)	-100.00%
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	13,296	-	(13,296)	-100.00%
Radio Sites Emergency Power Upgrade	LF0226	172,533	71,889	86,330	14,441	20.09%
Communications Building UPS Battery Replacement	LF0228	17,700	7,375	-	(7,375)	-100.00%
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	16,667	-	(16,667)	-100.00%
Total Capital Projects		$ 4,596,376	$ 1,915,158	$ 140,549	$ (1,774,609)	-92.66%

Capital Assessment to Members

Mesa	67.55%	1,226,380	510,992	92,850	(418,142)	-81.83%
Gilbert	19.60%	355,841	148,267	22,898	(125,369)	-84.56%
Apache Junction	9.22%	167,391	69,746	14,716	(55,030)	-78.90%
Ft McDowell	2.23%	40,486	16,869	2,194	(14,675)	-86.99%
Superstition Fire & Medical	0.72%	13,072	5,447	1,018	(4,429)	-81.31%
Queen Creek	0.65%	11,801	4,917	6,821	1,904	38.72%
Rio Verde	0.03%	545	227	56	(171)	-75.33%
Total Assessment to Members	100.00%	$ 1,815,516	$ 756,465	$ 140,553	$ (615,912)	-81.42%

*YTD Forecast represents 5 months of project costs plus any contractual expenses already incurred (i.e. one time payments).

TRWC Capital Budget Plan

ESCALATION FACTOR (7.00%)

Item	ID	Proposed new with Carry over FY 22/23	Final FY 22/23	New Draft FY 23/24	Proposed FY 23/24 From last year	New Proposal FY 24/25	Proposed FY 24/25 From last year	New Proposal FY 25/26	Proposed FY 25/26 From last year	New Proposal FY 26/27	Proposed FY 26/27 From last year	New Proposal FY 27/28	Proposed FY 27/28 From last year	New Proposal FY 28/29	Proposed FY 28/29 From last year	FY 29/30	9 Years	23/24 Difference	Project	Personnel	Overhead
Site Expansion #1 H60 Includes $174,822 roll forward from 21-22	CP0091	1,764,822	1,590,000	570,640	570,640	-	560,000	-	-	-	-	-	-	-	-		$ 2,335,462	$ -	1,424,392	256,391	84,039
Site Expansion #2 WOL	CP0754	790,276	790,276	1,033,111	1,033,111	1,052,740	590,276	-	1,013,847	-	-	-	-	-	-		$ 2,876,127	$ -	637,834	114,810	37,632
Site Expansion #3 QC Land Purchase	CP0779	-	-	475,000	-	1,375,650	-	1,750,000	-	610,000	-	-	605,703	-	1,040,515		$ 4,210,650	$ 475,000	-	-	-
System-of-Systems Networking Expansion CP0438	CP0905	-	-	-	25,475	-	25,000	-	-	-	-	-	-	-	-		$ -	$ (25,475)	-	-	-
Upgrade Shaw Butte and Florence Gardens to P25 Phase II (TDMA) Includes $287,406 roll forward from 21-22	CP0906	574,812	287,406	-	-	-	-	-	-	-	-	-	-	-	-		$ 574,812	$ -	463,932	83,508	27,372
Radio Sites Emergency Power Upgrade $66,333 roll forward from 21-22	LF0226	172,533	106,200	-	108,218	-	106,200	-	-	-	-	-	-	-	-		$ 172,533	$ (108,218)	139,252	25,065	8,216
Communications Building UPS Battery Replacement	LF0228	17,700	17,700	-	-	-	-	-	-	18,036	-	-	17,700	-	-		$ 35,736	$ -	14,286	2,571	843
Internet Protocol Network Routers & Switches Upgrade (Work in FY25)	LF0248	-	-	-	-	400,000	-	428,000	-	256,800	-	-	-	-	-		$ 1,084,800		-	-	-
Radio & Core Sites Battery Backup Lifecycle Upgrade (CRS) Includes $31,910 roll forward from 21-22	LF0266	31,910	-	-	-	90,000	-	96,300	71,433	103,041	71,433	-	89,292	-	-		$ 321,251	$ -	25,755	4,636	1,520
Radio & Core Sites DC Power Plant Lifecycle Upgrade	LF0267	-	-	-	-	-	-	750,000	-	802,500	750,000	-	750,000	-	-		$ 1,552,500	$ -			
Enhanced data TBD		371,000	371,000	-	-	-	-	-	-	-	-	-	-	-	-		$ 371,000	$ -	299,435	53,898	17,667
Antenna & Transmission Lines Lifecycle Upgrade	LF0282	-	-														$ -	$ -			
TOPAZ P25 Voice Radio Network Lifecycle Upgrade (FY28)	New	-	-										2,038,000				$ 2,038,000	$ -			
Wireless Backhaul (Microwave) Network Lifecycle Upgrade (Includes Antennas and tower work 5 microwave shots)	LF0403CAP	167,265	167,265	300,000	170,443	420,000	167,265	-	167,265	-	-	-	-	-		187,262	$ 887,265	$ 129,557	135,000	24,300	7,965
Consulting Services for VHF & 7/800 MHz Coverage Expansion includes $40,000 roll forward from 21-22		40,000	-	-	-	-	40,000										$ 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			

FORCAST / Fire Special Assessment Projects

Item	ID	Proposed new with Carry over FY 22/23	Final FY 22/23	New Draft FY 23/24	Proposed FY 23/24 From last year	New Proposal FY 24/25	Proposed FY 24/25 From last year	New Proposal FY 25/26	Proposed FY 25/26 From last year	New Proposal FY 26/27	Proposed FY 26/27 From last year	New Proposal FY 27/28	Proposed FY 27/28 From last year	New Proposal FY 28/29	Proposed FY 28/29 From last year	FY 29/30	9 Years	23/24 Difference	Project	Personnel	Overhead
Fire Hazard Zone System Coverage Improvement and Expansion (Gilbert/Queen Creek) Includes $103,620 roll forward 21-22	CP0907	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	$ 71,238	383,632	69,054	22,634
Fire Hazard Zone System Lifecycle Upgrade Router Refresh replacement in FY25 (Motorola qoute is $320,000. FY23+FY24 money to complete the project) includes $147,500 roll forward from 21-22	LF0465CAP	147,500	-	150,000	-	-	-	-	-	-	-	-	-	-	-		$ 297,500	$ 150,000	119,048	21,429	7,024
Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade includes $43,238 roll forward from 21-22	LF0402POM	43,238	-	-													$ 43,238	$ -	36,642	6,596	
	New	-	-														$ -	$ -	-	-	-
Sub-total VHF Special Assessment Projects		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	221,238			
Console Upgrade from MCC 7500 to AXS (1)	New			597,326	-	655,221	-	675,197	-	765,773	-	842,966	-	864,795			$ 4,401,278				
Sub-total AXS Console Upgrade Special Assessment Projects				597,326	-	655,221	-	675,197	-	765,773	-	842,966	-	864,795		-	$ 4,401,278	-			
Total Capital & Fire Special Assessment Projects		$ 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

Member	%	Proposed new w/ Carry over FY 22/23	Final FY 22/23	New Draft FY 23/24	Proposed FY 23/24	New Proposal FY 24/25	Proposed FY 24/25	New Proposal FY 25/26	Proposed FY 25/26	New Proposal FY 26/27	Proposed FY 26/27	New Proposal FY 27/28	Proposed FY 27/28	New Proposal FY 28/29	Proposed FY 28/29	FY 29/30	9 Years
Mesa	67.55%	2,654,929	2,249,311	1,606,845	1,288,778	2,255,082	1,005,645	2,042,915	846,094	1,209,400	554,878	1,376,668	988,049	-	702,868	126,496	15,829,283
Gilbert	19.60%	770,342	652,650	466,235	373,946	654,324	291,793	592,763	245,499	350,914	161,001	399,448	286,688	-	203,941	36,703	4,592,953
Apache Junction	9.22%	362,375	307,012	219,321	175,907	307,800	137,262	278,840	115,485	165,073	75,736	187,904	134,860	-	95,935	17,266	2,160,563
Ft McDowell	2.23%	87,646	74,256	53,046	42,546	74,446	33,199	67,442	27,932	39,925	18,318	45,447	32,618	-	23,203	4,176	522,565
Superstition Fire & Medical	0.72%	28,298	23,975	17,127	13,737	24,036	10,719	21,775	9,018	12,891	5,914	14,674	10,531	-	7,492	1,348	168,720
Queen Creek	0.65%	25,547	21,644	15,462	12,401	21,700	9,677	19,658	8,142	11,637	5,339	13,247	9,508	-	6,763	1,217	152,318
Rio Verde	0.03%	1,179	999	714	572	1,002	447	907	376	537	246	611	439	-	312	56	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

Member	%	Proposed new w/ Carry over FY 22/23	Final FY 22/23	New Draft FY 23/24	Proposed FY 23/24	New Proposal FY 24/25	Proposed FY 24/25	New Proposal FY 25/26	Proposed FY 25/26	New Proposal FY 26/27	Proposed FY 26/27	New Proposal FY 27/28	Proposed FY 27/28	New Proposal FY 28/29	Proposed FY 28/29	FY 29/30	9 Years
Mesa Fire & Medical	68.68%	457,449	255,284	412,079	260,133	330,693	265,076	353,842	270,112	378,611	275,244	405,113	280,474	433,471	285,803	463,815	3,207,399
Gilbert Fire	17.16%	114,296	63,784	102,960	64,996	82,625	66,231	88,409	67,489	94,598	68,771	101,220	70,078	108,305	71,409	115,886	801,386
Superstition Fire & Medical	10.01%	66,672	37,207	60,060	37,914	48,198	38,634	51,572	39,369	55,182	40,117	59,045	40,879	63,178	41,655	67,600	467,476
Queen Creek Fire	3.22%	21,447	11,969	19,320	12,196	15,504	12,428	16,590	12,664	17,751	12,905	18,993	13,150	20,323	13,400	21,746	150,377
Rio Verde Fire	0.93%	6,194	3,457	5,580	3,522	4,478	3,589	4,791	3,658	5,127	3,727	5,486	3,798	5,870	3,870	6,281	43,432
Sub-total	100.00%	666,058	371,701	599,999	378,761	481,498	385,958	515,204	393,292	551,269	400,764	589,857	408,379	631,147	416,137	675,328	4,670,070

Special Assesstment SAU

Item	ID	New Draft FY 23/24	New Proposal FY 24/25	New Proposal FY 25/26	New Proposal FY 26/27	New Proposal FY 27/28	New Proposal FY 28/29	9 Years
Mesa-$40,825.09 tax added to 23/24		499,529	472,464	486,637	571,237	635,274	650,764	3,315,905
Gilbert ($400,000 billed directly to Gilbert upon contract signing) $7,069.15 tax added to 23/24	400,000	84,752	120,513	124,974	129,568	134,300	139,174	1,133,280
Apache Junction PD $1,592.50 tax added to 23/24		19,093	17,500	17,500	17,500	17,500	17,500	106,593
Ft McDowell $3,926.01 tax added to 23/24		47,366	44,744	46,086	47,468	55,892	57,359	298,916
	400,000	650,739	655,221	675,197	765,773	842,966	864,797	4,854,693

Total Capital + Fire Special Assessment

Member	Proposed new w/ Carry over FY 22/23	Final FY 22/23	New Draft FY 23/24	Proposed FY 23/24	New Proposal FY 24/25	Proposed FY 24/25	New Proposal FY 25/26	Proposed FY 25/26	New Proposal FY 26/27	Proposed FY 26/27	New Proposal FY 27/28	Proposed FY 27/28	New Proposal FY 28/29	Proposed FY 28/29	FY 29/30	9 Years
Mesa	3,112,377	2,504,594	2,518,455	1,548,911	3,058,239	1,270,721	2,883,394	1,116,206	2,159,248	830,122	2,417,055	1,268,523	1,084,235	988,671	590,311	23,267,486
Gilbert	884,638	716,434	653,947	438,942	857,462	358,024	806,146	312,988	575,080	229,772	634,968	356,766	247,479	275,350	152,589	6,356,211
Apache Junction	362,375	307,012	238,414	175,907	325,300	137,262	296,340	115,485	182,573	75,736	205,404	134,860	17,500	95,935	17,266	2,267,156
Ft McDowell	87,646	74,256	100,412	42,546	119,190	33,199	113,528	27,932	87,393	18,318	101,339	32,618	57,359	23,203	4,176	821,481
Superstition Fire & Medical	94,970	61,182	77,187	51,651	72,234	49,353	73,347	48,387	68,073	46,031	73,719	51,410	63,178	49,147	68,948	769,540
Queen Creek	46,994	33,613	34,782	24,597	37,204	22,105	36,248	20,806	29,388	18,244	32,240	22,658	20,323	20,163	22,963	345,589
Rio Verde	7,373	4,456	6,294	4,094	5,480	4,036	5,698	4,034	5,664	3,973	6,097	4,237	5,870	4,182	6,337	62,850
Total	4,596,373	3,701,547	3,629,490	2,286,648	4,475,109	1,874,700	4,214,701	1,645,838	3,107,419	1,222,196	3,470,822	1,871,072	1,495,944	1,456,651	862,590	33,890,312

Date: 01/04/2023

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

Through: Dale Shaw, TRWC Executive Director

 From: Chuck Craig

Subject: Administrator Update

Budget Update

The budget request for consoles did not include 9.1% for sales tax. This amount will need to be added to each special assessment and the overall FY24 budget amount. Angie will make sure I include the tax in subsequent fiscal years!

Total additional $53,412.26

AJ $1,592.50

Gilbert $7,069.15

Mesa $40,825.60

Fort McDowell $3,926.01

SmartConnect LTE services

> We continue to have difficulties with the SmartConnect (LTE→LMR) interconnection. We have network dropouts each week. COM network team, communication and Motorola continue to work the problem. City staff have poured an extraordinary amount of time trying to determine a fix for the continuing outages. While a brief outage may appear to be only an inconvenience, in truth each time it happens after hours, a Mesa radio tech must logon to the system to determine if there is indeed a problem. On-call Staff are paid a minimum of 2 hours OT when this occurs.

Banner

> We have received some structural (roof) documentation from Banner Ironwood and have engaged with Shahir Safi, a City of Mesa structural engineer who feels that adding a ~750lb cabinet directly to the Banner Hospital roof will result in additional liability to the City of Mesa and the TRWC. Therefore, there should be discussion within the Exec Committee to determine if it would be more responsible to not implement the Banner receive site and instead have a receive site at the QCA site.

H60 Expansion

> The H60 continues to slowly move forward. There have been challenges in the purchasing process, but the work Dave Brunk has done will save the TRWC approximately $700k over the life of the project. There is currently an RFP out for the building, this RFP should close

1/13/2023. At that time, we will review the proposals and choose a contractor. Supply chain challenges are also found in procurement for our UPS/Battery systems for the H60 site.

Wolverine Expansion Site

Document have been submitted to the Forest Service detailing what type of equipment, radio frequencies, and tower height we are looking for to make the most of the location. Approval for these is TBD.

General operations

Mesa Communication team is building a purchasing agreement with a specialty company for tower/antenna installation, as well as normal maintenance for our existing sites. Additionally, regular tower inspections, which were put on hold during covid, are back on track and will continue to be part of ongoing system maintenance. Another part of ongoing maintenance is the radio team's annual inspection of each radio location

Enhanced Data

Enhanced data has been placed on hold until such time as total cost can be determined. Randy Thompson is working with Motorola to get solid quotes on what implementing this process would cost. Bryan Waters is putting a no/low-cost option together.

Router Replacement Project

Motorola has submitted a list of routers they plan on replacing, we are determining what, if any cost there will be to the TRWC. They have also indicated an outage will be necessary when we upgrade our simulcast routers to Juniper calendar in Q2/2023. We have questions around power requirements needed for each router. When we get the details from Motorola, we will put a communication plan together to our partner agencies.

Security Audit

We have begun the City purchasing process of engaging with a IPKeys to perform our Radio system security audit.

Operations Summary

A. As mentioned, we are still working with Motorola and City network engineers to reduce the SmartConnect outages.
B. There was a power outage at the CAP (City Utilities secondary site) which kept the backup system offline for a day. City Facilities quickly corrected to problem
C. From Arthur Gutierrez:

During the period of January 9th to January 31st, Radio shop will be conducting preventive maintenance on the TOPAZ 800 MHz and VHF radio networks. The maintenance schedule for each site is listed below.

- Monday, January 9th 7am to 4pm   South Water plant radio site (SWP)

- Tuesday, January 10th   7am to 4pm   Range Rider (RAN), 8461 East Teton Circle

- Wednesday, January 11th   7am to 4pm   FS 262 radio tower (AJ262), 3955 E. Superstition

- Thursday, January 12th   7am to 4pm   FS 205 radio tower (FS205), 730 S. Greenfield

- Tuesday, January 17th   7am to 4pm   Twin Knolls Tower (TKN), 8450 E. Main Street

- Wednesday, January 18th   7am to 4pm   Rio Verde (RIO) 25608 North Forest Rd. Rio

- Thursday, January 19th   7am to 4pm   Central Radio Site (CRS), 300 E. 6th Street

- Thursday, January 23rd   7am to 4pm   Shaw Butte (SHA)

- Tuesday, January 24th   7am to 4pm   TRW radio tower (TRW), 7144 5. Meridian

- Wednesday, January 25th   7am to 4pm   FS 219 (FS219), 3361 S. Signal Butte Rd

- Thursday, January 26th   7am to 4pm   FS 264 radio tower (AJ264), 5899 S. Kings ranch

- Monday, January 30th 7am to 4pm   Mesa Community College (MCC)
- Wednesday, January 31st   7am to 4pm   Florence (FLO), 3953 N. Iowa AV, Florence, AZ

The site will be disabled while the PM procedure is conducted.

This may result in a degradation of radio service within the area served by each transmission site. We will check with MRDC and PD Dispatch prior to disabling the transmitters to ensure there are no major incidents active in the area.

If any major incidents occur during this maintenance window, we will re-establish the TOPAZ site as soon as possible.

If the work takes longer than expected, or there are other problems discovered during the execution of work, an update message will be sent.