

TRWC Board of Directors Meeting

March 17, 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 740450761#

Members of the public may address the Board on any item. 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.

Agenda

- 1) Call to Order and Opening Comments
 - a. Materials and sign-in sheet
 - b. Speaker cards
 - c. Audio and video recording
 - d. Board representative roll-call
 - e. Welcome new Board and Staff members
- 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.

3) Discussion and Action on Board Meeting Minutes

September 27, 2021, Board Meeting Minutes

- 4) <u>Executive Committee Updates</u> Co-Chair Duggan
- 5) <u>Network Administrator Updates</u>
 - a. Finance Update Angie Huckaby
 - b. Network Updates and Performance overview Chuck Craig
- 6) <u>FirstNet / AT&T Updates</u> David Faulkner, Amos Chalmers
- 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.

8) <u>Next TRWC Board Meetings</u>:

May 19, 2022

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

Date	Upcoming Agenda Items
5/19/22	Regional Updates
9/13/22	Prelim Budget Review
12/13/22	Budget Adoption

10) Retirement Recognition

Board of Directors, Chief Mark Openshaw Executive Committee, Co-Chair, Commander Michael Dvorak

11) Adjournment



TRWC Board of Directors Meeting

September 27, 2021 - 2:30 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 22245530#

Members of the public may address the Board on any item. 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.

Agenda

- 1) Call to Order and Opening Comments
 - a. Materials and sign-in sheet
 - b. Speaker cards
 - c. Audio and video recording
 - d. Attendees: Chairman Kross, Director Busby, Director Pombier, Director Openshaw, Director Mooney, Director Duggan
- 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 6, 2021. Director Pombier motioned for an approval of the minutes and Director Openshaw seconded the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

4) Discussion and Action on Chairman and Vice-Chairman Elections – Executive Director Shaw

Director Pombier motioned for Chairman Kross to continue in his role for another two-year term and Director Openshaw second the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

Director Pombier nominated Director Rhineheimer for Vice-Chairman, Director Mooney second 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 Dvorak, Co-Chair Duggan

Co-Chair Duggan gave an update on the Executive Committee stating that the committee has primarily been working on preparing the budget for review.

6) <u>Discussion and Action on FY 22/23 Preliminary Budget</u> – Executive Director Shaw, Angie Huckaby, Denis Murphy

Mr. Anger reviewed the requirements for budget adoption in the event that action will be taken. Mr. Shaw stated that the if the board chooses to move forward with taking action on the budget, the board does meet the requirements for a Super Majority vote.

Ms. Huckaby reviewed the proposed TRWC Operating and Maintenance budget. Ms. Huckaby stated that there was an increase in salaries, professional services in Cyber Security, a new item for network subscriptions, and the Motorola contract. Director Pombier had questioned the professional services and Mr. Shaw answered that the professional services in Cyber Security are needed for additional security.

No other questions or comments from the Board on the O&M budget.

Ms. Huckaby reviewed the Capital budget stating that site expansion two was moved up by a year, we had a reduction in the System-to-System Networking and a new project for enhanced data has been added.

No questions or comments from the Board on the Capital Budget.

Chairman Kross asked for a motion of approval of the FY 22/23 Budget. Director Openshaw motion for approval. Co-Chair Duggan seconded the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

7) Regional Updates

- a. CSSA Task Order Updates Dale Shaw, John Minick
 Mr. Shaw gave a brief background of the CSSA and introduce Mr. Minick. Mr. Minick gave a description of the three CSSA Task Orders. Task order 1 Motorola Support Services, task order 2 Subscriber Supply and Support, and task order 3 Software Licensing.
- b. Building Code Working Group Thomas Grebner

Mr. Imig gave a brief background on the regional effort on the Building Code Working Group. He discussed the unreliable communications within certain buildings. Mr. Grebner gave a description of the past issues that the RWC experienced and how they are moving forward in creating new guidelines to help prevent interference. Mr. Imig stated that they have received funding for an Interference Detection System that will mitigate some of the interfering signals.

No questions or comments from the Board.

8) Discussion and Action Policy Manual Updates – Denis Murphy

Mr. Murphy gave an introduction of the new Policy Manual update, Fire Code Compliance / In-Building Treatments. This policy will protect the TRWC frequencies.

No questions or comments from the Board.

Director Openshaw motioned to adopt the new policy. Director Mooney second the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

9) <u>Network Administrator Updates</u>

a. Finance Update - Angie Huckaby

Ms. Huckaby gave an overview of the ending budget of FY 20/21.

b. Network Updates and Performance overview – Denis Murphy

Mr. Murphy gave an overview of the projects that are in progress, and he gave an demonstration of the Push to Talk – P25 system that is installed and is in the testing phase. Chairman Kross asked Mr. Murphy if they are seeing a shortage of supplies. Mr. Murphy explained that they are not seeing a shortage on Technology, but they have seen a substantial jump in quotes for work.

No questions or comments from the Board.

10) FirstNet / AT&T Updates – Amos Chalmers

Mr. Chalmers gave a brief overview of FirstNet's beginnings. He then reviewed the current standings of the FirstNet towers that are in progress.

Chairman Kross asked Mr. Chalmers what percentage they are at in the completion here in Arizona. Mr. Chalmers estimated that they are 75 to 85% competed. He did reiterate that they are on track to complete their goals within the 5-year timeframe.

Director Openshaw asked Mr. Chalmers if they are planning on any additional towers around the peripheral of Maricopa County. Mr. Chalmers stated that they do have additional towers and offered to meet with Director Openshaw to give him an overview of the additional towers and to discuss Director Openshaw's areas of concern.

No other questions or comments from the Board.

11) Comments from the Board

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Director Pombier commented on the Board dynamics and how all the different agencies work so well together. He also thanked the admin staff and operational staff for all their work and commitment. He went on to thank Chairman Kross for his leadership and willingness to serve. Chairman Kross agreed on how well this region cooperates, and he is thankful to be a part of such a great team.

No other comments from the Board.

12) <u>Next TRWC Board Meetings</u>:

December 9, 2021 – Budget Adoption

No Budget Adoption will take place at the next meeting due to adopting the budget at the current meeting.

13) <u>Future Board of Directors Schedule</u>

Date	Upcoming Agenda Items
12/9/21	
	(Please note that the following dates may change)
3/10/22	
5/12/22	
9/8/22	Prelim Budget Review
12/15/22	Budget Adoption

14) Retirement Recognition - Board of Directors, Vice Chairman Farber

Chairman Kross thanked Mr. Farber for his service and presented him with a plaque. Mr. Farber thanked Chairman Kross and expressed his gratitude for the years of working with Chairman Kross and the Board of Directors.

Service Recognition - Executive Committee, Co-Chair Chief Badgett

Chairman Kross thanked Chief Badget for his service and presented him with a plaque. Chief Badget thanked the Board for modeling a well-run organization.

15) Adjournment

Director Pombier motioned for adjournment at 3:38. Director Mooney second the motion. All Board members who were in favor signaled by saying aye; there was no opposition, the motion passed unanimously.

TOPAZ Detail of Operating and Maintenance Fiscal Year 2021/ 2022

		Year to Date Through February 28,2022									
						•		•		\$ Var	% Var
			Upo	dated	`	ΥTD		YTD	I	From YTD F	orecast
Description		dget	Forecast		Forecast*		Actual		Incr/(Decr		,
Personnel Services	\$ 35	54,883	\$3	54,883	\$ 2	232,039	\$	166,406	\$	(65,633)	-28%
Insurance Premiums		8,827		8,827		5,885		-		(5,885)	-100%
Temp Services		6,230		6,230		4,153		-		(4,153)	-100%
Leases and Rents - Land	2	26,271		26,271		17,514		15,688		(1,826)	-10%
Professional Services - Consulting	ç	93,734		93,734		62,489		66,719		4,230	7%
Professional Services - Other-combining legal, consulting & other	11	15,134	1	15,134		76,756		9,780		(66,977)	-87%
Utilities	7	71,330		71,330		47,553		48,405		852	2%
Telephone		3,531		3,531		2,354		1,383		(971)	-41%
Association Dues		-		-		-		-		-	0%
Repairs & Maintenance	3	32,189		32,189		21,459		32,781		11,322	53%
Equipment Usage (Vehicles)		20,767		20,767		13,845		11,572		(2,273)	-16%
All Other Services		40,000		40,000		26,667		-		(26,667)	-100%
Sub-total Services	41	18,013	4	18,013		278,675		186,328		(92,347)	-33%
Motorola Contract		90,824		90,824	į	593,883		850,011		256,128	43%
Juniper Software		43,000		43,000		28,667		-		(28,667)	-100%
Materials & Parts		30,475		30,475		20,317		2,594		(17,723)	-87%
Non Cap Assets	1	12,980		12,980		8,653		-		(8,653)	-100%
All Other Commodities		-		-		-		-		-	0%
Sub-total Commodities	97	77,279	9	77,279	(651,520		852,605		201,085	31%
Subtotal O&M	1,75	50,175	1,7	50,175	1,	162,234		1,205,338		43,104	4%
Contingency - 1.5% of total O&M	2	27,380		27,380		18,253		-		(18,253)	-100%
VHF Operations	5	54,720		54,720		36,480				(36,480)	-100%
Total	\$ 1,83	32,275	\$ 1,8	32,275	\$ 1,2	216,967	\$ ⁻	1,205,338	\$	(11,629)	-1%

*YTD Forecast represents 8 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

Communications Building UPS Battery Replacement

Antenna & Transmission Lines Lifecycle Upgrade

Capital Assessment to Members

Internet Protocol Network Routers & Switches Upgrade

Consulting Services for VHF & 7/800 MHz Coverage Expansion

Mesa

Detail of Capital Projects		Year to Date Through February 28, 2022								
Fiscal Year 2021/ 2022			-	-		\$ Var	% Var			
	Project		YTD	YTD		From YTD Fo	orecast			
Project	ID	Budgeted	Forecast*	Actual		Incr/(Decr)				
Site Expansion #1	CP0091	1,350,000	900,000	346,627	\$	(553,373)	-61.49%			
TOPAZ Voice Radio Network Upgrade	CN0022	\$-	-	-	\$	-	0.00%			
Upgrade Shaw Bute & Florence Gardens to P25 Phase II	CP0906	287,406	191,604	-		(191,604)	-100.00%			
System-of-Systems Networking	CP0438	-	-	-		-	0.00%			
Fire Hazard Zone System Coverage Improvement & Expansion	CP0907	371,700	247,800	28,215		(219,585)	-88.61%			
Fire Hazard Zone System Lifecycle Upgrade		147,500	98,333	-		(98,333)	-100.00%			
Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade	LF0402POM	115,351	76,901	72,113		(4,788)	-6.23%			
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	21,273	-		(21,273)	0.00%			
Radio Sites Emergency Power Upgrade	LF0226	106,200	70,800	39,867		(30,933)	-43.69%			

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40.000

2,450,067

1,226,380

\$

67.55%

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26,667

817,587

\$ 1,633,378

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486,822 \$

331,020

0.00%

0.00%

0.00%

0.00%

-68.56%

-59.51%

-59.88% -60.90%

-62.36%

-59.99%

-58.93%

-71.35% -59.78%

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(1, 119, 889)

(486, 567)

Gilbert		19.60%	355,841	237,227	95,179	(142,048)
Apache Junction		9.22%	167,391	111,594	43,637	(67,957)
Ft McDowell		2.23%	40,486	26,991	10,159	(16,832)
Superstition Fire & Medical		0.72%	13,072	8,715	3,487	(5,228)
Queen Creek		0.65%	11,801	7,867	3,231	(4,636)
Rio Verde		0.03%	545	363	104	(259)
	Total Assessment to Members	100.00% \$	1,815,516	\$ 1,210,344	\$ 486,817	\$ (723,527)

LF0228

LF0248

LF0282

*YTD Forecast represents 8 months of project costs plus any contractual expenses already incurred (i.e. one time payments).

Total Capital Projects



161 E Athletics Way PO Box 1466

Date:	March 10, 2022
То:	TOPAZ Regional Wireless Cooperative (TRWC) Board of Directors
Through:	Dale Shaw, TRWC Executive Director
From:	Chuck Craig
Subject:	Administrator Update

Capital Projects

- 1. Site Expansion US60 Construct a public safety radio site in the southeast area of Apache Junction to ensure reliable radio coverage. Improvements include land acquisition, a radio tower, equipment shelter, emergency generator, radio/network equipment, and services.
 - a. 60% plans are being reviewed by COM staff
 - b. 90% plans due first week of April 2022
 - c. \$1.35M Budgeted in FY22
 - i. Actual Expenses \$348K
 - d. Land has been purchased, building to be complete October 2022
- 2. Site Expansion Construct a public safety radio communication site in the far northeast area of Mesa to ensure reliable TOPAZ radio coverage. Improvements include the site, tower, equipment shelter, emergency generator, radio and network equipment, and services.
 - a. This project is being coordinated through City of Mesa legal, and we are waiting for confirmation of site availability. No expenditures to date
- 3. Site Expansion Construct a public safety radio site in the southeast area of Queen Creek to ensure reliable radio coverage. Improvements include land acquisition, a radio tower, equipment shelter, emergency generator, radio/network equipment, and services.
 - a. City of Mesa (COM) staff are continuing to review potential sites for an 700/800 MHz ISR and VHF TX/RX site
- 4. TOPAZ System of Systems Networking Expansion
 - As we begin the transition towards FirstNet and cellular P25 communication, Inter-RF Subsystem Interface (ISSI) becomes less important. We will use the existing pot of money in this line item to continue our testing the FirstNet system
 - i. COM MFMD is currently testing the FirstNet (AT&T) cell phone capabilities

- 5. TOPAZ Shaw Butte & Florence Gardens-P25 Phase II
 - a. Upgrade five of six physical voice channels at Shaw Butte and Florence Gardens to Time Division Multiple Access (TDMA, also known as P25 Phase II) to enable two simultaneous voice transmissions on each physical radio channel.
 - i. COM staff will work with Motorola staff over the next several weeks to go to each site and preform the upgrade.
- 6. TOPAZ VHF System Coverage Improvement & Channel Expansion. New quotes from Motorola are in. Equipment will be paid for this fiscal year with implementation/installation being paid for in FY23
 - a. Banner Ironwood Response from Banner on lease due 03/14/2022. We are still waiting for a go/no go on any weight limitation from Banner facilities management.
 - i. If this should fall through we are actively working with the Town of Queen Creek for alternative sites.
 - b. Gilbert Public Safety ("GPS") location
 - c. Arizona Labs ("AZL") location
- 7. Fire Hazard Zone System Lifecycle Upgrade Router/Switch
 - a. Waiting for quotes from Motorola on 14 sites (2 at MRDC) should ~\$125k
- 8. Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade (TRAK)
 - a. All hardware has been purchased
 - b. Waiting on COM Radio team for installation
 - c. Motorola still working on alarming issue (INC000004676270 TRAK events needing to be identified as alarms instead of events)
- 9. Enhanced Data
 - a. \$371K budgeted for FY23
 - b. This project requires further clarification from Motorola to ensure it will meet the needs of all TRWC members

Operations Summary

All of our sites are working at peak efficiency with minimal issues. In future Administrator Updates I will include more performance measures for the Board.

TRWC CAPITAL PLAN PROJECTS UPDATEQueen Creek Area SitesMARCH, 2022

- New Site
 - 800 MHz ISR site (move equipment from Florence Gardens)
 - Fire VHF transmit receive site
 - \$1,350K budgeted for FY22, \$1,590K budgeted for FY23
 - Status: continuing to look for a site
- Banner Ironwood Medical Center
 - Fire VHF receive site
 - \$186K budgeted for FY22; current Motorola quotes exceed budget
 - Status: continuing to work with the hospital on the lease agreement
 - May not be necessary based on new 800/VHF expansion site
- Queen Creek Fire & Medical Station 412
 - Fire VHF receive site
 - \$186K budgeted for FY23
 - Status: continuing to work with QCF&MD and Town of Queen Creek on alternate locations
 - May not be necessary based on new 800/VHF expansion site

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Northeast Apache Junction Area Site

• North-East Mesa site

• Southeast of Superstition Fire & Medical FS264

- US60 Site
 - 800 MHz simulcast site
 - Fire VHF transmit receive site
 - \$1.35M Budgeted in FY22
 - Actual Expenses \$348K
 - \$1.595M budgeted for FY23?
 - Status: property purchased [October, 2021]
 - Build out Fall 2022
 - 60% plans March 2022

- Add VHF coverage for the existing TRWC fire partner coverage area in Mesa, Gilbert, Apache Junction, and Queen Creek.
- Budget
 - for FY22 \$380,063 (371,700)
 - For FY23 \$388,463 (371,000)
- \$155K FY22/23
 - See Queen Creek Area Slide (Banner Ironwood)
 - May not be necessary based on new 800/VHF expansion site
- \$240K FY22/23
 - Gilbert Public Safety Building
 - Final quotes received, working with DolT purchasing
 - Equipment in FY22
 - Installation in FY23
 - AZ Labs (Phoenix Mesa Gateway Airport)
 - Final quotes received, working with DolT purchasing
 - Equipment in FY22
 - Installation in FY23

Upgrade Shaw Butte & Florence Gardens to P25 Phase II

- Working with Motorola on acceptance test parameters
- Software is delivered
- PM assigned by Motorola
- Capacity Expansion
- \$287.4K budgeted for FY22, \$287.4K budgeted for FY23
- Ready to being project, pending availability of Motorola resources (March 2022)

TRWC LIFECYCLE PROJECTS UPDATE MARCH, 2022

Radio Sites Emergency Power (Generator) Upgrade (Complete this FY)

- Two sites budgeted (\$106.2K) & planned for generator replacements in FY22
 - 1) SWP, diesel generators on order, backlog 22 weeks (\$37k)
 - 2) FS219, equipment on order, backlog 22 weeks (\$37k)
 - We will move forward with purchasing and installation of transfer switches for these sites
- Recommend using future year generator funding (\$106.2K) for site expansion (US60, North-East Mesa)

• Radio & Core Sites Battery Backup Lifecycle Upgrade

- Two sites are budgeted (\$31.9K) & planned for FY22
- TRW and Twin knolls

- Enhanced Data
 - \$371K budgeted for FY23
 - This project requires further clarification from Motorola to ensure it will meet the needs of all TRWC members

- Consulting Services for VHF & 7/800 MHz Coverage Expansion
 - \$40K budgeted for FY22
 - Budgeted for the next 3 fiscal years, no current or proposed engagements
 - Review software application to use in-house for ad-hoc coverage studies

• Fire Hazard Zone System (Fire VHF) Lifecycle Upgrade

- \$147.5K budgeted for FY22
- Router/Switch replacement
 - Scheduled to start in 2nd quarter of calendar year 2022
 - Pending availability of Motorola resources?

- Fire Hazard Zone System Simulcast Timing Reference Lifecycle Upgrade
- \$115.4K budgeted for FY22
 - Scheduled to start in 2nd quarter of calendar year 2022
 - Pending availability of Motorola resources?

FUTURE PLANNING

• The TRWC Public Safety Communications team will develop a plan for future growth of our Radio Network

- Improved overall coverage
- New Fire Stations
- New and upgraded Police Stations
- Melding FirstNet into our P25 infrastructure
- Fiber and Conduit preventative maintenance