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Please read the Technical & Submittal Requirements before completing/submitting your application.

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REGIONAL WIRELESS COOPERATIVE Radio Amplification System Rebroadcast Authorization Application

Pursuant to the Regional Wireless Cooperative (RWC) Radio Amplification Systems Policy, Section 5.1; and 47CFR 90.219, entities desiring to operate radio amplification systems on the RWC's licensed frequencies and within the service area of the RWC network must obtain written consent and approval from the licensee. Upon successful initial review of this document the RWC will provide a separate written acceptance of plans for construction. Following the successful completion of a field test by the RWC this signed document shall serve as written consent and approval to rebroadcast on RWC Spectrum.

PAGE 1 – APPLICANT INFORMATION (To be completed by applicant)

Proposed ERRCS Site Information:	Date Submitted:
Location Name:	
Street Address:	
City:	State: Zip Code:
Facility Owner Contact Information	Facility Occupant Contact Information
Name:	Name:
Address:	Address:
City: State: Zip:	City: State: Zip:
Phone:	Phone:
Email:	Email:
Engineering Agent/Vendor Contact Information	Expected system activation date:
	ERRCS System Latitude:
Name:	ERRCS System Longitude:
Address: State: Zip:	Donor Antenna Height Above Ground Ft.
	AHJ Contact Name:
Phone:	Phone:
Email:	Email:

Items to include with application:

- □ Facility floor plan for all building levels including square footage of each floor.
- System design including block diagram and itemized list of system components including manufacturer and make/model numbers.
- Pre-treatment test report.

Submit Application and Attachments to (Completed by RWC):

Email to: rwcazerrcs@phoenix.gov

CC Email to:

RWC RADIO AMPLIFICATION SYSTEM REBROADCAST AUTHORIZATION APPLICATION – REV: 05.17.2024 FOR OFFICIAL USE ONLY



PAGE 2 - LICENSEE AUTHORIZATION (To be completed by licensee)

Donor Site Information:		
Donor Site:	Simulcast:	
Street Address:		
City:	FCC Call Sign:	
Donor Site Lat/Long: °		
Donor Antenna Site Distance	Miles. Donor Antenna Site Azimuth	Degrees

LICENSEE AUTHORIZATION

In consideration of review of the information and requirements provided on this application, the authorized agent of the licensee operating on a RWC Member's licensed frequencies and within the service area of the RWC network hereby consents and approves activation of the radio amplification system as documented herein.

This authorization shall remain in effect as long as the ERRC system described in this document is properly maintained in accordance with RWC policy. Changes to the RWC P-25 network may require alterations to this ERRC system. RWC policy requires a current local point of contact to facilitate access in the event of radio interference caused by this device.

Current fire codes governing ERRC's deployments require annual inspections to be completed. Scheduling of annual inspections is the sole responsibility of the system owner or their designated representative. System owners should consult with their local Authority Having Jurisdiction (AHJ) for questions regarding annual inspection requirements.

For questions about the RWC, its policies and donor site info see: https://rwcaz.org

Authorized Signature:	Title:
Print Name:	Entity:

Date: _____



RWC Technical Requirements for ERRCS

For new BDA's either due to new construction or retrofits/repairs:

- Class A amplifiers (see FCC 47 CFR 90.219 (a)) must be used for any ERRCS installed to operate on the RWC 700 MHz P25 network
- Existing Class B amplifiers must continue to be maintained on an annual basis. If an existing Class B amplifier fails, it must be replaced with a Class A amplifier
- The BDA shall support uplink squelch
- The BDA must have AGC Automatic Gain Control

BDA Configuration

- BDA maximum uplink and downlink gain settings shall be 20dB less than isolation measured between donor antenna and the DAS.
- All appropriate RWC frequencies shall be programmed into the BDA
- Typical filter configuration shall be 12.5 kHz unless approved by the RWC
- Uplink Squelch should be enabled

Donor Antenna

- The donor antenna shall be a directional antenna.
- The donor antenna frequency range shall support 700 MHz public safety band, 769-775 MHz (downlink) and 799-805MH.z (uplink)
- For DAS projects requesting design approval after August 1, 2024, the donor antenna shall support:
 - A horizontal beamwidth of 30 degrees or less
 - A vertical beamwidth of 30 degrees or less
 - A front-to-back ratio of 27db or greater

Antennas that meet this requirement listed below. If other antennas are discovered that meet these requirements, please feel free to update us.

- 1) ADRF: AD-PA-700-900-DIN-X
- 2) Gamma Nu: F16V28DHFB
- 3) Ventev: VHG-VL3015-ODNF
- The donor antenna must be placed and oriented with unobstructed view of the donor site. This criterion is concerned principally with near field obstructions such as parapets, HVAC units, ducting, screen walls, etc. Antennas need to be secured clearly above any near field obstacles. Wind loading should be considered when installing and securing antennas. Line of sight buildings or other obstructions will be considered by the RWC during uplink testing.



• The donor antenna must be oriented at the pre-approved donor site mentioned in the plan's acceptance document given with plans approval.

RWC DAS Technical Requirements

• Filtration to remove nearby saturating cellular noise or other signals may be required.

Fiber DAS

- For new DAS projects and DAS projects added to campuses or developments with the following characteristics must incorporate the new building's DAS into the fiber DAS, rather than adding a new BDA with a new donor antenna.
 - Building campuses with one address or parcel identified by the county assessor's office.
 - Buildings are connected or within 1000' and are of the same ownership.
- If a building requires more than a single BDA, per the manufacture installation recommendations, then an ERRCS fiber DAS system installation would be required.

Regional Wireless Cooperative (RWC)

Plan Submittal Requirements (**for RWC use only**)

1		Purpose of Requirements
		 To protect the integrity of the RWC Radio Network from interference sources. To eliminate unapproved equipment or undesirable design decisions. To better align RWC approval with AHJ requirements.
2		Submittal Review Comments
2.1	Submittals	 Qualifications Construction floor plans One-line diagram Equipment list Equipment cut sheets Riser Diagram Baseline pre-treatment signal level report with proper RWC donor site and channel data RWC Radio Amplification System Authorization Form
2.2	Qualifications	 FCC GROL (Required by Fire) Certificate issued by the manufacturer of the active RF equipment being installed NICET certifications for both designer and qualified staff performing the commissioning
2.3	Construction Floor Plans	 Show the location with unique labels of each cable, splitter, coupler, tapper, antenna, BDA, fiber-fed remote, and donor antenna
2.4	One-line Diagram	 Must present the cable connections between all DAS antennas and the donor antenna, including connections to external

		filters, splitters, directional couplers, tappers, fiber-fed remotes, the BDA, and lighting arrestors	
		Must include unique labels for each component	
2.5	Equipment List	 DAS equipment list shall include the following components, if present: BDA Fiber-fed remote Coaxial Cable Donor Antenna DAS/Service Antennas Lightning arrestor Splitters/Couplers/Tappers External Filters For each component in the equipment list, please provide: Manufacturer Model number 	
2.6	Equipment Cut Sheets	 Manufacturer information sheets shall be provided for each item on the DAS equipment list 	
2.7	Riser Diagram	 Riser diagram to include splitters and service antennas, donor antenna, BDA Riser diagram to show all floors of a project that is treated with DAS 	
2.8	Baseline Signal Levels	 Pre-treatment grid test (if possible) including the proper frequencies for the project location 	
2.9	RWC Form	 Page one of the RWC Radio Amplification System Authorization Form filled out **The form can be found on page two of this packet.** 	

UV MH2 Channel Site Name Address Lat/Org/ Cell sign Off Mag New Mag New Mag Mag		Simulc	ast A		Simulca	st A/B Site Info			nor site ntenna	ERRCS	Location
ChardiFeeq (Mb)CCCQQQ		700 MHz c	hannels	Site Name	Address	Lat/Long	Call Sign	ERP Watts	-	Miles	Azimuth
1 77.4822 Control Channel FS34 50 N : 151 AVE 33 : 26 : 571 N : 112 : 401 : 63 W WQGE204 32 95 I 3 772.1822 Control Channel GLEN 4020 W. Glenosa Ave 33 : 25 : 571 N : 112 : 401 : 60 : 450 W WQGE208 52 95 I 4 772.9312 Control Channel MGII 701 W. Carfeere Hwy 33 : 41 : 431 N : 112 : 407 : 60 : 5W WQGE208 151 34 6 772.2937 SQPW 6202 : 426 : 7X : 120 : 60 : 5W WQGE209 126 136 80 : 915' 772.25475 GRWY 15040 N. Tatum Bivd 33 : 32 : 420 : 7X : 112 : 60 : 45 : W WQGE202 50 90 I 10 772 : 7375 ARCA 5220 : Thomas Rd 33 : 32 : 420 : 9X : 113 : 80 : 60 : W WQSE202 50 130 I 11 772 : 7375 ARCA 5220 : Thomas Rd 33 : 72 : 3X : 11 : 80 : 61 : W WQSE202 50 130 I 12 774 : 7325 I ACCA 522 : For (Chanel 3) T130 : I I	Chnl#	Freg (Mhz)		СТҮН	200 W. Washington St	33-26-55.2 N, 112-04-38.5 W	WQSE305	30			ucgicco
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31 774.48125 12.5 Khz (Chnl A16)											
				32	774.73125	12.5 Khz (Chnl A12)					

	Simul	cast C	Simulcast C Site Info					Donor site Antenna		RCS ation
	700 MHz	channels	Site Name	Address	Lat/Long	Call Sign	ERP Watts	Ant Height AGL Ft	Miles	Azimuth degrees
Chnl#	Freq (Mhz)		HAMI	911 S. Hamilton	33-17-34.9 N, 111-49-55.6 W	WQSH547	90	178		
1	770.10625	CONTROL CHANNEL	TFTC	1342 E. University Ave	33-25-24.3 N, 111-54-59.1 W	WQSH547	90	108		
2	772.10625	CONTROL CHANNEL	DPSS	12717 S. Central Ave	33-19-57.2 N, 112-04-00.5 W	WQSH547	200	65@150°		
3	770.35625	CONTROL CHANNEL	TPDS	8201 S. Hardy Dr	33-20-27.2 N, 111-57-10.5 W	WQSH547	90	130		
4	772.35625	CONTROL CHANNEL	CFTC	3550 S. Dobson Rd	33-15-11.4 N, 111-53-17.1 W	WQSH547	320	75@160°		
5	769.60625		MARC	45695 W. Edison Rd	33-03-55.7 N, 112-03-39.4 W	WQWW222	100	145@110°		
6	771.60625									
7	769.85625									
8	771.85625									
9	769.10625									
10	772.60625									
11	769.35625									
12	772.85625									
13	770.60625									
14	770.85625									
15	771.10625									
16	771.35625									

	Simulca	st D	Simulcast D Site Info				Donor site Antenna		ERRCS Location	
700 MHz channels			Site Name	Address	Lat/Long	Call Sign	ERP Watts	Ant Height AGL Ft	Miles	Azimuth degrees
Chnl#	Freq (Mhz)		OCTR	43240 N. Black Canyon Fwy	33-52-35.1 N, 112-08-51.0 W	WQSF641	100	100		
1	772.081250	CONTROL CHANNEL	F141	43814 N. New River Rd	33-53-00.0 N, 112-04-23.2 W	WQRY628	50	125		
2	772.331250	CONTROL CHANNEL	F146	3116 W. New River Rd	33-55-17.1 N, 112-07-41.5 W	WQRY628	50	125		
3	772.581250	CONTROL CHANNEL								
4	772.831250	CONTROL CHANNEL								
5	773.156250									
6	773.406250									

	Simu	lcast F		Simulcast F Site Info					ERRCS Location	
	700 MH	z channels	Site Name	Address	Lat/Long	Call Sign	ERP Watts	Ant Height AGL Ft	Miles	Azimuth degrees
Chnl#	Freq (Mhz)		TFTC	1342 E. University Dr	33-25-24.3 N, 111-54-59.1 W	WQJR969	55	134		
1	774.41875	CONTROL CHANNEL	TPDS	8201 S. Hardy Dr	33-20-27.2 N, 111-57-10.5 W	WQJR969	50	100		
2	773.16875	CONTROL CHANNEL	PGWT	245 E. Marigold Ln	33-26-43.3 N, 111-56-21.6 W	WQJR969	120	107@135°		
3	771.91875	CONTROL CHANNEL	BBUT	1705 W. Broadway Rd	33-24-24.1 N, 111-58-02.5 W	WQJR969	55	35		
4	774.16875	CONTROL CHANNEL	SMTN	12717 S. Central Ave	33-20-04.9 N, 112-03-35.4 W	WQJR969	110	96@075°		
5	772.91875									
6	771.66875									
7	773.91875									
8	772.66875									
9	771.41875									
10	773.66875									
11	772.41875									
12	771.16875									
13	773.41875									
14	772.16875									
15	772.55625									
16	772.80625									

	Simul	cast G	Simulcast G Site Info					Donor site Antenna		RCS ation
	700 MHz (hannels	Site Name	Address	Lat/Long	Call Sign	ERP Watts	Ant Hgt AGL Ft	Miles	Azimuth degrees
Chnl#	Freq (Mhz)		GWTP	7300 W. Greenway Rd	33-37-34.9 N, 112-12-51.1 W	WQKP324 WQJY471	40	95		ucgrees
1	771.56875	Control Channel	TCTR	8343 W. Monroe St	33-34-37.4 N, 112-14-17.5 W	WQKP323 WQJY471	35	75		
2	771.61875	Control Channel	AFWT	9510 W. Lone Mountain Pkwy	33-44-22.6 N, 112-15-51.8 W	WQKP323	40	75		
3	771.06875	Control Channel	WADD	41835 N. Castle Hot Springs Rd	33-50-48.2 N, 112-16-38.1 W	WQJY471 WQKP323 WQJY471	18	60		
4	771.86875	Control Channel	LAFB	969 Super Saber St Luke AFB	33-31-50.9 N, 112-22-00.6 W	WQKN967 WQKP324	38	250		
5	770.56875		GLPD	6835 N. 57th Dr	33-32-14.6 N, 112-10-55.8 W	WQKN967	35	80		
6	772.11875		F195	23100 N. Lake Pleasant Rd	33-41-33.9 N, 112-16-42.6 W	WQKP324 WQKN967 WQKP324	40	95		
7	770.06875		TWTP	9501 W. Pima St	33-25-43.7 N, 112-15-41.9 W	WQKP324 WQJY471	90	155		
8	772.36875		РҮРК	28345 N. Pyramid Peak Pkwy	33-44-25.8 N, 112-11-39.0 W	WQZS652	37	118		
9	769.56875		SPA2	15667 W. Planada Ln	33-41-35.9 N, 112-23-51.7 W	WROP432	32	130		
10	772.61875									
11	772.05625									
12	772.86875									
13	771.31875									
14	770.81875									
15	770.31875									
16	769.81875									
17	769.31875									
18	772.30625									

	Simul	cast H	Simulcast H Site Info					Donor Site Antenna		RCS ition
	700 MHz o	channels	Site Name	Address	Lat/Long	Call Sign	ERP Watts	Ant Height AGL Ft	Distance Miles	Azimuth degrees
Chnl#	Freq (Mhz)		SCIV	3700 N. 75th St	33-29-19.4 N, 111-55-15.9 W	WQJU870	500	110@180°		
1	771.84375	Control Channel	S042	26906 N. Pima Rd	33-43-45.8 N, 111-53-36.5 W	WQJU870	85	65		
2	771.59375	Control Channel	SDMH	12575 E. Via Linda	33-35-17.3 N, 111-48-28.8 W	WQJU870	100	65		
3	771.34375	Control Channel	F610	16701 N. 100th St	33-38-08.0 N, 111-51-49.5 W	WQJU870	140	40		
4	771.09375	Control Channel	F614	27775 N. Alma School Rd	33-44-13.2 N, 111-50-41.7 W	WQJU870	68	60		
5	770.84375		S089	39205 N Alister Mckenzie Dr	33-50-32.2 N, 111-52-35.3 W	WQJU870	70	50@180°		
6	770.59375		SCSE	12177 Calle Serena	33-41-26.9 N, 111-49-00.6 W	WQJU871	110	20@0°		
7	770.34375		DOVE	33003 N 52nd St	33-47-09.5 N, 111-58-08.6 W	WQJU871	425	130@90°		
8	770.09375		PVRF	6827 E. Highlands Dr	33-32-10.3 N, 111-59-19.6 W	WQJU871	95	24@180°		
9	769.84375								-	
10	769.59375									
11	769.09375									

12

769.34375

Simulcast J			Simulcast J Site Info				Donor Site Antenna		ERRCS Location	
700 MHz channels			Site Name	Address	Lat/Long	Call Sign	ERP Watts	Ant Height AGL Ft	Distance Miles	Azimuth degrees
Chnl#	Freq (Mhz)		ATWR	26596 W. Lower Buckeye	33-25-22.2 N, 112-38-04.4 W	WQJG713	56	185	TAULES	uegrees
1	769.11875	Control Channel	FEST	28016 W. Sun Valley Pkwy	33-39-34.5 N, 112-39-18.0 W	WQJG713	87	107		
2	769.36875	Control Channel	ESTR	11461 S. 171st Ave	33-20-46.0 N, 112-25-20.0 W	WQJG713	45	150		
3	769.61875	Control Channel	RBVW	16699 S. Rainbow Valley Rd	33-17-41.2 N, 112-26-56.1 W	WQJG713	80	105@170°		
4	769.86875	Control Channel	GCOM	14455 W. Van Buren St	33-26-51.8 N, 112-22-09.4 W	WQJG713	100	105		
5	770.11875							-		
6	770.36875									
7	772.78125									
8	774.18125									

9

773.93125