

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: File	64550 000002	Service: DTV 7502	Call Sign:	WQOW	Channel: 25 (UHF)
Number: FRN: 00:	30885057	Date	05/28		
		Submitted:	/2020		

Applicant Name, Type, and Contact Information

Applicant Information

WXOW-WQOWBrady+1 (217)bdreasler@quincyindLICENSE, LLCDreasler223-comDoing Business As:P.O. BOX5100WXOW-WQOW909LICENSE, LLCQUINCY,IL 62306UnitedStates	. Corporation

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Preparer Contact Name and Information

Contact Information	Applicant	Address	Phone	Email
	Tony zumMallen	Tony zumMallen	+1 (816) 729-	tony@qcom1.
	President	705B SE Melody LN	1177	com
	QCommunications,	#314		
	LLC	Lees Summit, MO 64063		
		United States		

Broadcaster	Question	Response
Information and Transition Plan	Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
	Briefly describe transition plan	Transition from ch15 to ch25 will allow the use of the current antenna however the transmission line will require modifications.

Transmitters Se	ection	Question	Response
	ransmitter Related Expenses	Do you have transmitter related expenses?	Yes

Primary	Existing Transmitter Information			
Transmitter	Section	Question	Response	
	Existing Transmitter Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is this transmitter currently shared with another station?	No	
		Is this transmitter currently in operating condition?	Yes	
	Existing Transmitter	Manufacturer		
	Manufacturer and Type	Model	Diamond	
		Year	2001	
		Туре	Solid State	
		Solid State Cooling	Air Cooled	
		Solid State Power Capacity	16 kW	

Existing Transmitter Information

Primary	New Transmitter Costs			
Transmitter	Section	Question	Response	
	New Transmitter	Use	Primary (Main)	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Manufacturer		
		Model	ULXTE-40	
		Transmitter Type	Solid State	
		Solid State Cooling	Liquid Cooled	
		Solid State Power capacity	25.3 kW	
		Justification for New Transmitter	Necessary to facilitate the channel reassignment. Existing Transmitter is not tunable per manufacturer.	

Primary	Other Transmitter Costs			
Transmitter	Section	Question	Response	
	Electrical Service	Service Entrance (3 phases 800A 208V)	Yes	
		Switchgear (industrial 800 amp)	Yes	
		Transformer (480V)	Yes	
		Power	300 kVA	
		Rigid Conduit and Wiring	Yes	
		Size	2 inches	
		Length	300.0 feet	
		Other Electrical Service	No	

	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	25 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Other Transmitter Cost Not Listed Name

Name	Description
Demo old HVAC tx ducts	Repack, removed old HVAC transmitter ducts and replace with blocks
Elect for HVAC	Electrical work to install HVAC
Transmitter training	Transmitter training - offsite - 1 week in duration at mfg site.
Plumbing installation for new transmitter	plumber required to install the new transmitter cooling systems
Transmitter-Disconnect	Disconnect transmitter and components from existing configuration and move within building to make way for new facilities.
ARC remote control	Install remote control system
Sales Tax	Sales Tax on equipment per state law
Freight	Freight charges to ship equipment and parts

Site Survey - TX	Site survey and report are required to be performed before the new transmitter and components installation plan can be finalized.
Securirty - Site	This site requires security once the new transmission line and equipment arrive on site to be installed. Estimated length of 4-6 weeks.
Electrical system modifications to accommodate the new transmitter	Electrician required to provide and install the equipment in preparation of the new transmitters electrical requirements.
Transmitter Site Preperation	Site Preparation for Repack Interim and Main Transmitter installation Performing work that is not in the installation SOW on site to prepare for the GatesAir installation crew arrival to ensure there are no delays to the installation crews plans

Antennas	Section	Question	Response
	Antenna Related Expenses	Do you have antenna related expenses?	Yes

Existing Antenna Information

Primary

Antenna	Section	Question	Response
	Existing Antenna Description	Type of change	Retune Existing
		Antenna Use	Primary (Main)
		Description of Use	N/A
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is the existing antenna shared with another station or stations?	No
		Is the existing antenna directional?	Yes
		Is antenna in operating condition?	Yes
		Is antenna located on or in close proximity to an antenna farm?	No
	Existing Antenna Manufacturer and Type	Class	Full Power
		Mounting	Top Mount
		Antenna position in stack	Not in Stack
		Polarization	Horizontal
		Туре	Broadband Panel
		Number of Stations Supported	1
		Number of Panels	32
		Design power capacity in use	50.0 %
		Lower Limit	470.00 MHz

Upper Limit	698.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	200.0 kW
Manufacturer	Dielectric
Model	TUP-SP4-8- 1
Year	2000

Primary Adjustment to Existing Antenna

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

Primary Other Antenna Costs

Antenna

Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
		Туре	_
		Number of channels supported	N/A
		Frequencies of channels supported	N/A
		Frequency	_

Primary Other Antenna Cost Not Listed

Antenna Information not provided.

Interim New Antenna Costs

Antenna	Section	Question	Response
	New Antenna Description	Use	Interim

	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	8
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	100.0 kW
	Manufacturer	
	Model	TFU-8WB
	Year	2017

Justification for New Antenna	6-14-18-
	ZEROED
	all Interim
	facility EST
	pricing per
	call with
	Raphael
	Sznajder.
	The 399
	tool will not
	DELETE
	the TX,
	ANT or
	LINE.
	Deleting
	returns an
	error
	message.
	WQOW will
	not be
	requiring an
	INTERIM
	due to an
	engineering
	work
	around.

Interim Other Antenna Costs

Antenna

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	В
	Feed Line Size	4 1/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

InterimOther Antenna Cost Not ListedAntennaInformation not provided.

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Existing Transmission Line Primary Existing Transmission

onLine	n	Question	Response
	Existing Transmission Line Description	Type of change	Utilize Existing
		Use	Primary (Main)
		Description of Use	N/A
		Ownership	Owned
		Owner	N/A
		Site	N/A
	Is the existing transmission line shared with another station or stations?	No	
	Is Transmission Line in operating condition?	Yes	
	Existing Transmission	Manufacturer	Dielectric
Line Manufacturer and Type	Туре	Rigid	
	Diameter	6 1/8 inches	
		Other Diameter	N/A
		Segment Length	19 1/2 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	993 feet per run

Other Transmission Line Expenses Not Listed

Primary	Other Transmission Line Expenses Not Listed		
Transmissio	on Line	Description	
	Disconnect Interior RF	Disconnect interior transmission line and filters from existing configuration and move within the building to make way for new facilities.	
	Refurbish Transmission Line	Refurbish instead of replace. Per Resonant Results, Ltd, Field Report.	

Primary	Add Transmission Line			
Transmissio	n Line Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is this transmission currently shared with any other stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission Line Manufacturer and Type	Manufacturer		
		Туре	Rigid	
		Diameter	6 1/8 inches	
		Other Diameter	N/A	
		Segment Length	19 1/2 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	993 feet per run	

Add Transmission Line

Primary	New Transmission Line			
Transmission	n Line Section	Question	Response	
	New Transmission Line Costs	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Туре	Rigid	
		Diameter	6 1/8 inches	
		Other Diameter	N/A	
		Segment Length	19 1/2 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	993 feet per run	
		Justification for New Transmission Line	See attached dated 3/16 /20 for justification for new line.	

Primary Other Transmission Line Expenses Not Listed

Transmission to me tion not provided.

Interim	New Transmission Line			
Transmissio	n Section	Question	Response	
	New Transmission Line	Use	Interim	
	Costs	Description of Use	N/A	
		Change Type	Purchase New	
		Туре	Rigid	
		Diameter	4 1/16 inches	
		Segment Length	19 ½ '	
		Other Segment Length		
		Number of parallel runs	1	
		Length	975 feet per run	
		Justification for New Transmission Line	6-14-18- ZEROED all Interim facility EST pricing per call with Raphael Sznajder. The 399 tool will not DELETE the TX, ANT or LINE. Deleting returns an error message. WQOW will not be requiring an INTERIM due to an engineering work around.	

Interim Other Transmission Line Expenses Not Listed

Transmission not provided.

Tower	Section	Question	Response
Equipment And Rigging Costs	Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

marv	Existing	Tower
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Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	Move Equipment	
		Tower Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Leased	
		Is this tower consider Complex?	No	
		Is this tower currently shared with any other stations?	No	
		One or more FM, AM or TV radio broadcaster(s)	N/A	
		Others Types of Users	N/A	
		Is tower documented for structural analysis?	No	
		Is tower compliant with Rev G?	Unknown	
	Existing Tower Structure Registration	Do you have a tower registration number?	No	
		ASR Number		
	Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	44° 47' 59.0" N-	
	1983))	Longitude (NAD83)	091° 27' 57.0" W-	
		Overall Structure Height	961.00 feet	
		Support Structure Height	888.00 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	888.00 feet	

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Gray Television Group, Inc.
Date Constructed	09/25/1956

Primary Tower Section

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Primary Tower	Other Tower Expenses Not Listed	
	Name	Description
	STRUCTURAL ENGINEERING	TOWER ANALYSIS

Outside Professional	Section	Question	Response
	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	614
		Explanation	Scope & significance of project (QMI has multiple stations repacked) require outside management services to augment existing internal personnel to assist turnkey management of and ensure timely and safe execution of channel relocation.
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes

	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes

RF exposure measurements	No
Additional Field Engineering Service	No
Number of Days	N/A
Justification	N/A

Other Professional Services Expenses Not Listed Outside Professional Services Costs Description Legal General Repack issues See uploaded- QMI Repack Invoice Memo for Shared Legal Expenses (Matter 104411 00054) for Form 399 **Quarterly reporting** Preparation and submittal of the FCC required quarterly report 387 by attorney. Vendor Travel Expenses Reimbursable Vendor Travel expenses for working in the field on behalf of the station for the Repack project - see quote for estimated expenses.

Other	Section	Question	Response
Expenses	AM Pattern Disturbance	Is an Impact Study needed?	No
		Is Remediation needed?	No
	Facility Expenses	Name	N/A
		Other Distributed Transmission System Expenses Not listed	N/A
		Name	N/A
		Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
	Permit and Filing Costs	Local Zoning	No
		Non-zoning permits	No
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	Yes
		FCC License to Cover Application	Yes
		FCC Special Temporary Authority Application	No
	Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
		Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
		Does this relocation require Equipment Storage?	Yes
		Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
		Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses Not Listed

Expenses Information not provided.

Transmitters

Cost Information

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-40	\$1,989,140.43	\$1,196,396.02		\$1,036,075.13	
ARC remote control	\$9,971.67	\$9,971.67	Costs to install ARC system per actual invoices.	\$9,971.67	N/A
Freight	\$9,359.05	\$9,359.05	N/A	\$9,359.05	N/A
Sales Tax	\$3,549.71	\$3,549.71	N/A	\$3,549.71	N/A
Transmitter Site Preperation	\$6,500.00	\$6,500.00	Site Preparation for RepackMain Transmitter installation Performing work that is not in the installation SOW on site to prepare for the GatesAir installation crew arrival to ensure there are no delays to the installation crews installation pl	\$6,500.00	N/A

Plumbing installation for new transmitter	\$14,600.00	\$14,600.00	plumber required to install the new transmitter cooling systems per vendor estimate.	\$14,515.10	N/A
Securirty - Site	\$17,500.00	\$17,500.00	This site requires security once the new transmission line and equipment arrive on site to be installed. Estimated length of 4-6 weeks.	N/A	N/A
Electrical system modifications to accommodate the new transmitter	\$50,400.00	\$50,400.00	Electrician required to provide and install the equipment in preparation of the new transmitters electrical requirements. per po20377 and vendor estimate.	\$37,746.53	N/A
Transmitter- Disconnect	\$20,000.00	\$20,000.00	Disconnect transmitter and components from existing configuration and move within building to make way for new facilities.	\$18,500.00	N/A

Site Survey - TX	\$20,000.00	\$20,000.00	Site survey and report are required to be performed before the new transmitter and components installation plan can be finalized.	\$7,500.00	N/A
Elect for HVAC	\$4,820.00	\$4,820.00	Electrical work to install HVAC - costs per actual invoices.	\$4,820.00	N/A
Demo old HVAC tx ducts	\$9,440.00	\$9,440.00	Repack, removed old HVAC transmitter ducts and replace with blocks. Costs per actual invoice.	\$9,440.00	N/A
25 Ton system	\$91,500.00	\$87,000.00	N/A	\$34,780.00	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$7,800.00	\$7,500.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$294,442.90	Changed power on transmitter, which created this new line. This is the amount remaining on the PO per actual invoices.	\$281,534.14	N/A

Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	\$8,546.24	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$51,178.41	Actual costs per invoices	\$51,178.41	N/A
Transformer 3 phase/480v - 300 KVA	\$36,800.00	\$35,000.00	N/A	\$0.00	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$538,134.28	***System Notice: Estimate adjusted and locked because line has been superseded. ***Actual costs per vendor invoices.	\$538,134.28	Actual costs pe invoices from GatesAi
Transmitter training	\$3,300.00	\$3,300.00	Transmitter training - offsite - 1 week in duration at mfg site.	N/A	N/A
Sub-total	\$1,989,140.43	\$1,196,396.02	N/A	\$1,036,075.13	N/A
Total for all systems	\$3,988,601.43	\$2,316,141.13	N/A	\$1,515,595.03	N/A

Components

Actual Information	
Description	File Name

ARC remote control		
	Component Description:	Revised with cover letter - remote control system. Burk Tech - INV 00068910 - PO 20373
	Amount:	\$9,971.67
	Component Description:	Invoice includes \$213.67 for shipping and handling not included on original quote. INV 00068910 - PO
	Amount:	20373 \$9,971.67
Freight		
	Component Description:	Freight for shipment of equipment and parts. See cover letter for explanation of charges. US0319031; PO 19967; change order Q-79019 - PO 20435
	Amount:	\$9,359.05
Sales Tax		
	Component Description:	sales tax for tx equipment. US0319031, PO 19967; change ordr Q-79019, PO 20435
	Amount:	\$3,549.71

Transmitter Site Preperation	Component Description:	WQOW- MAIN SITE PREP - INV
		QC18-056
	Amount:	\$6,500.00
Plumbing installation for new transmitter	Component Description:	WQOW - BERNIE
		- PLUMBING INV 857757
	Amount:	\$14,515.10
Securirty - Site	Information not provided.	
Electrical system		
modifications to	Component Description:	WQOW- P AND T
accommodate the new transmitter		INV 16136 -
		ELECTRIC WORK
		FOR NEW TX- LABOR AND
		MATERIAL
	Amount:	\$35,723.93
	Component Description:	WQOW- P AND T
		- INV 16296 -
		ELECTRIC
		INSTALL
		PROGRESS
	Amount:	MATERIAL \$2,022.60
	Amount.	\$2,022.00
Transmitter-Disconnect		
	Component Description:	WQOW- QCOMM-
		DECOMM INV
	Amount:	QC19-010 \$18,500.00
		φ10,000.00
Site Survey - TX		
	Component Description:	WQOW-SITE
		SURVEY-INV-
	Amount	QC18-029
	Amount:	\$7,500.00

Elect for HVAC		
	Component Description:	WQOW - NEI - elect for HVAC - INV 132274 - PO
	Amount:	20729 \$4,820.00
Demo old HVAC tx ducts		
	Component Description:	Costs necessary to remove old HVAC ductwork for repack. Royal - INV 12540 - PO 20538
	Amount:	\$9,440.00
25 Ton system		
	Component Description:	Kurth - Installation of (3) Carrier AC units - INV 100951 - PO 20728
	Amount:	\$34,780.00
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW		
State Transmitter 21 - 31 kw	Component Description:	3rd invoice for transmitter. TE10004378-3, PO 19967
	Amount:	\$204,526.99
	Component Description:	WQOW - final tx
		invoice US0319031 - PO
		19967; includes. CO Q-79019; PO
		20435. See cover letter
	Amount:	\$77,007.15

Service entrance 3 phase /800 amp/208 volt	Component Description:	Gates WQOW - TX quote Q-59383 Electric - D Electric
	Amount:	\$2,848.75
	Component Description:	WQOW - MAIN TX INV- TE10004378-2 Q- 59383 LINE D Electric- 5-29 - correct amount.
	Amount:	\$2,848.75
	Component Description:	GatesAir 3rd Invoice TE10004378-3;
	Amount:	LINE D only. \$2,848.74
Switchgear - industrial 800 amp	Component Description:	GatesAir 3rd Invoice, TE10004378-3;
	Amount:	LINE C ONLY, PO 19967 \$17,059.47
	Component Description:	WQOW - MAIN TX INV- TE10004378-2 quote Q-59383 -
	Amount:	RF Access - C inv \$17,059.47
	Component Description:	Gates WQOW - quote Q-59383 - RF Access - C inv
	Amount:	\$17,059.47

κνν	Component Description: Amount: Component Description: Amount:	WQOW- MAIN TX -INV TE10004378- 2 LINES A B and E - see Q59383 \$269,067.14 Final Invoice GatesAir; US0319031; Lines A, B, and E balances PLUS actual Sales tax and freight charges to ship equipment. PO 19967. 2-25-20 Zeroed out request and resubmitted under new line. N/A
	Component Description:	Final Invoice GatesAir; US0319031; Lines A, B, and E balances PLUS actual Sales tax and freight charges to ship equipment. PO 19967. 2-25-20 Zeroed out request and resubmitted under new line.
		GatesAir; US0319031; Lines A, B, and E balances PLUS actual Sales tax and freight charges to ship equipment. PO 19967. 2-25-20 Zeroed out request and resubmitted under new line.
	Amount:	N/A
	Component Description:	DEP ON MAIN TX WQOW - A B and E - see Q59383
	Amount:	\$269,067.14
	Component Description:	Gates Air third invoice: TE10004378-3; Lines A, B only on PO 19967. 2-27- 20 zeroed out this
	Amount:	request and put on new line. N/A
Transmitter training		

Antennas

Cost Information

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-8WB	\$135,490.00	\$8,767.50		\$8,767.50	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$0.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$1,050.00	Test antenna. Costs per actual invoice from Resonant.	\$1,050.00	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized	\$89,400.00	\$0.00	N/A	N/A	N/A

Detterre					
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$0.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	\$10,950.00	\$7,717.50	N/A	\$7,717.50	Per Actual costs: Invoice 242022, PO 20314
Primary Antenna TUP-SP4-8- 1	\$6,730.00	\$6,400.00		\$0.00	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Sub-total	\$142,220.00	\$15,167.50	N/A	\$8,767.50	N/A
Total for all	\$3,988,601.43	\$2,316,141.13	N/A	\$1,515,595.03	N/A

Components

Actual Information Description	File Name
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.

Sweep test of existing		
antenna	Component Description:	Test antenna
		system for
		frequency and
		time domain
		response. INV
		RR3171 - PO
		19749
	Amount:	\$1,050.00
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Information not provided.	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, broadband,		
at antenna input, per 4 1/16.	Component Description:	Dielectric - Elbov
feedline (if needed)		- INV 242022 -
		PO 20314
	Amount:	\$7,717.50
Sweep test of existing antenna	Information not provided.	

Transmission Line

Cost Information

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

			Estimated		
Description	Predetermined Cost Estimate	Estimated Cost	Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$138,450.00	\$0.00		\$0.00	
Rigid Transmission Line - copper, 4 1 /16"	\$138,450.00	\$0.00	N/A	N/A	N/A
Primary Transmission Line	\$12,500.00	\$12,500.00		\$12,500.00	
Disconnect Interior RF	\$12,500.00	\$12,500.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***Disconnect interior RF transmission line and filters from existing configuration and move within the building to make way for new facilities.	\$12,500.00	N/A
Primary Transmission Line	\$200,586.00	\$385,225.00		\$0.00	

Rigid Transmission Line - copper, 6 1/8"	\$200,586.00	\$385,225.00	Per actual invoices from PCI. See cover sheet for more explanations.	\$0.00	N/A
Sub-total	\$351,536.00	\$397,725.00	N/A	\$12,500.00	N/A
Total for all systems	\$3,988,601.43	\$2,316,141.13	N/A	\$1,515,595.03	N/A

Actual Information Description	File Name	
Rigid Transmission Line - copper, 4 1/16"	Information not provided.	
Disconnect Interior RF	Component Description:	WQOW-QCOMM- DECOMM INV
	Amount:	QC19-010 \$12,500.00

Rigid Transmission Line - copper, 6 1/8"		
	Component Description:	See LAST page of
		attachment for
		further
		explanation.
		WQOW - PCI -
		new line - INV
		7381 - PO 20088
		(2nd INvoice)
	Amount:	\$183,168.00
	Component Description:	See LAST page of
		attachment for
		further
		information.
		WQOW - PCI -
		new line - INV
		7267 - PO 20088
		(1st invoice)
	Amount:	\$154,102.00

Tower Equipment and Rigging Costs

Cost Information

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$222,500.00	\$418,134.61		\$343,020.00	
STRUCTURAL ENGINEERING	\$12,000.00	\$12,000.00	Structural engineering to determine if tower will hold interim antenna and new config at current requirements	\$5,750.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$406,134.61	Actual costs per vendor invoices.	\$337,270.00	N/A
Sub-total	\$222,500.00	\$418,134.61	N/A	\$343,020.00	N/A
Total for all systems	\$3,988,601.43	\$2,316,141.13	N/A	\$1,515,595.03	N/A

Actual Information Description	File Name	
STRUCTURAL ENGINEERING	Component Description: Amount:	WQOW-TOWER TECH-INV-17-116 \$5,750.00

500')	Component Description:	PCI - Tower work
		- INV 7381 - 2nd invoice - see
		cover sheet for
		additional info
	Amount:	\$183,168.00
	Component Description:	PCI - Tower work
		INV 7267 - 1st
		invoice - see
		cover letter.
	Amount:	\$154,102.00
	Component Description:	PCI - Tower Wor
		- INV 7399 - 3rd
		invoice - see
		cover sheet for
		explanation. See
		attached daily
		reports.
	Amount:	\$68,864.61

Outside Professional Services

Cost Information

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos Justificatio
Outside Professional Services	\$238,810.00	\$228,323.00		\$108,744.19	
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$4,425.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$525.00	N/A
Vendor Travel Expenses	\$13,408.00	\$13,408.00	Reimbursable Vendor Travel expenses for working in the field on behalf of the station for the Repack project - see quote for estimated expenses. QC-17003	\$10,327.18	N/A

Quarterly reporting	\$5,000.00	\$5,000.00	Preparation and submittal of the FCC required quarterly report 387 by PM and attorney.	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$4,506.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,970.00	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,565.00	Actual total of two invoices from Lohnes & Culver regarding coordination issues.	\$840.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$97,012.00	\$92,100.00	N/A	\$78,480.00	N/A
Legal General Repack issues	\$10,000.00	\$10,000.00	see exhibit memo - QMI Repack Invoice Memo for Shared Legal Expenses (Matter 104411 00054) for Form 399	\$7,671.01	N/A
Sub-total	\$238,810.00	\$228,323.00	N/A	\$108,744.19	N/A
Total for all systems	\$3,988,601.43	\$2,316,141.13	N/A	\$1,515,595.03	N/A

Actual Information	
Description	File Name

Perform engineering study		
for new channel assignment and antenna development	Component Description:	WQOW - Lohnes - eng services - tx power justification - INV 201905-0275- 08-2-1. NOTE: vendor name is Lohnes & Culver. Since the tool does not allow for special characters, "and" was substituted for "&".
	Amount:	\$300.00
	Component Description:	Construction phase assignment waiver - engineering studies. Lohnes INV 201806-0275- 08-2
	Amount:	\$1,725.00
	Component Description:	NEW CHANNEL ASSIGN ENGR- LOHNES INV-
	Amount:	WQOW \$2,400.00
Prepare engineering section of FCC Form 2100		
(main), License to Cover Application	Component Description:	Prepare engineering section of Form 2100 - Lohnes - INV 2001809-0275-08-2 . NOTE: Vendor
		name is Lohnes & Culver; "and" was substituted for special character "&".
	Amount:	& . \$525.00

Vendor Travel Expenses		
	Component Description:	WQOW- PM -AUG- NOV18 - INV QC19- 018 - PM TRAVEL TIME
	Amount:	\$8,400.00
	Component Description:	WQOW-PM- TRAVEL EXP - INV QC17-143 - ITEMS 1010-1015
	Amount:	\$817.07
	Component Description:	WQOW-PM TRAVEL - INV 1THRU3-18 - INV QC18-048 LINES 1010,1014 AND 1015
	Amount:	\$1,110.11
Quarterly reporting	Information not provided.	
Comprehensive coverage verification via field study, if needed	Information not provided.	
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	

and File FCC Form 2100 (main), Construction Permit	Component Description:	Legal-WQOW- OCT17-inv
Application	Amount:	\$329.00
	Component Description:	LEGAL APRIL17
	Amount:	WQOW \$517.00
	Component Description:	LEGAL-MAY17-
	Amount:	WQOW \$453.00
	Component Description:	LEGAL AUGUST
	Amount:	- WQOW \$470.00
	Component Description:	LEGAL - JULY17
	Amount:	WQOW \$1,861.00
	Component Description:	LEGAL JUNE17-
	Amount:	WQOW \$359.00
	Component Description:	LEGAL-WQOW-
	Amount:	SEPT17 \$423.00
	Component Description:	Legal-WQOW-
	Amount:	NOV17-inv \$94.00

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:	WQOW - Lohnes - Form 2100 - INV 201809-0275-08-2. NOTE: Vendor
		name is Lohnes &
		Culver; however,
		since the tool does not allow special
		characters, "and"
		was substituted for
		"&".
	Amount:	\$525.00
	Component Description:	CP APPLICATION-
		WQOW - LOHNES
		ENGR
	Amount:	\$1,970.00

Address transition timing and coordination issues w/ other stations and wireless	Component Description:	WQOW - Lohnes - Interference study - INV 201905-0275- 08-2-2. NOTE: Vendor name is Lohnes & Culver; since the tool does not allow for special characters, "and" was substituted for "&".
	Amount:	\$840.00
	Component Description:	WQOW - Lohnes - engineering studies - INV 201806-0275- 08-2. Note: Vendor name is Lohnes & Culver, but since the tool does not allow special characters, "and" was substituted for "&". \$1,725.00
Prepare and or review reimbursement form	Information not provided.	

Project management of the		
transition	Component Description:	WQOW-PM-INV- QC17-143 - ITEM
	Amount:	4004 \$15,450.00
	Component Description:	WQOW-PM- SEPT- DEC-17- INV QC18- 019
	Amount:	\$12,270.00
	Component Description:	WQOW- PM -AUG- NOV18 - INV QC19- 018 - PM TIME
	Amount:	\$22,537.50
	Component Description:	WQOW - QCOMM PM 4THRU7-18 INV QC18-069
	Amount:	\$18,660.00
	Component Description:	WQOW-PM- 1THRU3 18 - INV QC18-048
	Amount:	\$9,562.50
Legal General Repack issues		
135005	Component Description:	WQOW-BROOKS LEGAL INV 3952581-APRIL18
	Amount:	\$297.00
	Component Description:	WQOW-BROOKS-
		MAY18-INV 3953761

Component Description: Amount:	WQOW - Brooks - Gen Legal period ending January, 2018 - INV 3949059. \$35.36 is WQOW portion of total invoice \$35.36
Component Description: Amount:	Brooks Repack Legal Services for period ending Dec '18; INV 3961875 \$33.00
Component Description: Amount:	1-24-20 WQOW General Repack Legal Services for period ending May 2017. INV 3940170 (revised with cover sheet) \$190.85
Component Description: Amount:	Brooks Repack legal services for period ending Sept '18; INV 3958278 \$2,013.00
Component Description:	WQOW - Brooks- Gen Legal period ending Dec 2017 - INV 3947925. 440.29 is WQOW portion of total invoice \$40.29

Component Description: Amount:	Brooks Repack Legal Services for period ending Dec '17; INV 3947922 \$188.00
Component Description:	WQOW - Brooks - Gen Legal February 2018 - INV 3950148. \$28.29 is WQOW portion of total invoice \$28.29
Component Description:	WQOW - Brooks - Gen Legal April 2018 - INV 3952584. \$28.29 is WQOW portion of invoice total \$28.29
Component Description:	WQOW - Brooks - General Legal March 2018 - INV 3951201. \$28.29 is WQOW portion of total invoice \$28.29
Component Description: Amount:	WQOW Brooks Gen Legal June '17 INV 3941325 \$266.44
Component Description: Amount:	WQOW - Brooks - Gen Legal Jan 2020 - INV 3977755 \$52.00

Component Description: Amount:	General Legal- JULY17-WQOW-inv \$275.00
Component Description: Amount:	WQOW-BROOKS- JUNE18- INV 3954664 \$1,287.00
Component Description: Amount:	General Legal- OCT17-WQOW-inv \$322.28
Component Description: Amount:	WQOW-BROOKS- MAR18 INV- 3951198 \$445.50
Component Description: Amount:	WQOW - BROOKS - LEGAL OCT 19 - INV 3959630 \$363.00
Component Description: Amount:	General Legal- JUNE17 - WQOW inv \$266.44
Component Description: Amount:	WQOW-BROOKS - JULY18 INV 3955734 \$495.00
Component Description: Amount:	General Legal- NOV17-WQOW-inv \$221.57

Component Description: Amount:	General Legal- MAY17-WQOW \$190.85
Component Description: Amount:	WQOW-BROOKS AUG18 INV 3957121 \$148.50
Component Description: Amount:	WQOW-BROOKS- LEGAL JAN-18- INV 3949056 \$297.00
Component Description: Amount:	General Legal - SEPT-WQOW-inv \$80.57
Component Description: Amount:	General Legal - AUG17-WQOW-inv \$117.85
Component Description: Amount:	WQOW - Brooks - Gen Legal July '17 - INV 3942230 (revised) \$275.00
Component Description:	Brooks Repack Legal Services for period ending July
Amount:	'19; INV 3970201 \$52.00

Other Expenses

Cost Information

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co Justificat
Other Expenses	\$60,995.00	\$60,395.00		\$6,488.21	
Equipment Delivery and Handling Charges	\$8,000.00	\$8,000.00	Transport, forklift rental and handling fees from staging area to transmitter site.	\$1,650.00	N/A
Develop and air announcement of upcoming channel change	\$15,000.00	\$15,000.00	Required FCC announcements and good will public relations must we upheld. The production airing and disseminating of these announcements are fundamental to our operations.	N/A	N/A
Equipment Storage	\$10,000.00	\$10,000.00	Expecting multiple staggered equipment deliveries from different vendors and need to store and stage new equipment prior to installation date. Anticipate from 6-24 months of storage time.	\$0.00	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	\$10,000.00	\$10,000.00	Rent 40 yard dumpster with multiple pickups. Estimated 6- months on site. Potential hazardous waste management issues.	\$1,888.21	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	Required FCC notification.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$2,950.00	N/A
Sub-total	\$60,995.00	\$60,395.00	N/A	\$6,488.21	N/A
Total for all systems	\$3,988,601.43	\$2,316,141.13	N/A	\$1,515,595.03	N/A

Actual Information	
Description	File Name

Equipment Delivery and Handling Charges	Component Description:	Equipment delivery from storage to site
	Amount:	- Casey's Garage - INV 1016 \$1,000.00
	Component Description:	Equipment delivery - Casey's Garage - INV 1015
	Amount:	\$650.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	

DTV Medical Facility Notification	Component Description:	WQOW-RF NOTE MEDICAL - INV 1059 \$2,950.00
MVPD Notification of Channel Change	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
	Component Description: Amount:	Roll off dumpster for June 2019 to collect debris from installation activities. \$693.00
	Component Description: Amount:	dumpster rental for December 18, 2018. Advanced INV M4000231241 \$731.00
	Component Deceristics	dumpotor
	Component Description: Amount:	Roll off dumpster to collect debris from installation activities. INV 1603 \$152.98
	Amount:	installation activities. INV 1574 \$311.23
equipment and other waste, net of any salvage value)	Component Description:	Roll off dumpster to collect debris from

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,988,601.43	\$2,316,141.13	\$1,515,595.03

Reimbursem	entestiatus	Response
	The facility has ceased operating on its pre- auction channel.	Yes
	Construction of final facilities or all necessary modifications are complete.	No
	All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
		 The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 	
		2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	
		3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

- The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
- 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

 The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested. 	
I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	BRADY DREASLER CORPORATE DIRECTOR OF ENGINEERING

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		 The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster **Relocation Fund are** necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.	
9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	BRADY DREASLER CORPORATE DIRECTOR OF ENGINEERING

Attachments