

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: File Number:	22211 000002	Service: DTV 7829	Call Sign:	WFLD	Channel: 31 (UHF)
FRN: 000	5795067	Date Submitted:	01/07 /2021		

Applicant Name, Type, and Contact Information

Information Applicant Address Phone **Applicant Type** Email FOX TELEVISION Ann West Bobeck Limited +1 (202) ann. STATIONS, LLC 400 N. CAPITOL 824-6503 bobeck@fox. Liability STREET, NW Company com SUITE 890 WASHINGTON, DC 20001 **United States**

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name	eparer Contact Name and Information			
Contact Information	Applicant	Address	Phone	Email	
	Dennis Wallace	Dennis Wallace	+1 (202) 251-	Dennis.	
	Managing Partner	1282 Smallwood	7589	Wallace@mswdtv.com	
	Meintel, Sgrignoli &	Drive			
	Wallace, LLC	Suite 372			
		Waldorf, MD			
		20603			
		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.	Yes
	Briefly describe transition plan	Due to the complexity of this project and number of facilities involved, WFLD will install interim facilities at the John Hancock building, while existing antenna, transmission line, and transmitter are replaced at the main site on top of Willis Tower.

Transmitters	Section	Question Response Do you have transmitter related expenses? Yes	
	Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

Primary	Existing Transmitter Info	nation		
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	CD2200P3	
		Year	1999	
			Inductive Output Tube	
		IOT Power Type	Three	
		Power Capacity	75 kW	

Primary	New Transm	litter Costs	
Transmitter	Section	Question	Response
	New	Use	Primary (Main)
	Transmitter	Change Type	Purchase New
		Is this a request for upgraded equipment?	Yes
		Manufacturer	
		Model	THU9-40 EVO
		Transmitter Type	Solid State
		Solid State Cooling	Liquid Cooled
		Solid State Power capacity	61 kW
		Justification for New Transmitter	New transmitter required as existing unit is obsolete and no longer supported by manufacturer. Existing transmitter is rated 75KW. See quote 190725_Quotation 155506.1. WFLD.Main and narrative 190725_WFLD_NARRATIVE_REV3_FORM399

Primary Other Transmitter Costs

Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	No
		Switchgear (industrial 800 amp)	Yes
		Transformer (480V)	No
		Power Rigid Conduit and Wiring	N/A
			Yes
	Size	3 inches	
		Length	400.0 feet
		Other Electrical Service	Yes
			1

	Description	Transmitter Electrical Installation Costs Willis Tower
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	50 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	1000.0 square feet
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

Other Transmitter Cost Not Listed

Primary Transmitter	Other Transmitter Cost Not Listed		
	Name	Description	
	Additional Transmitter RF Components	Plumbing, RF and switch components. See quote 190725_Quotation 230209.2 WFLD. Addtnl Install Parts	
	Remove Existing Main Transmitter	Remove existing main transmitter from Willis Tower	
	Water Glycol System	Building Chilled Water System Connection. (ZonaTherm)	
	Remote Control Wiring	Wire up existing remote control to new transmitter	
	Plumbing Demolition	Disconnect Piping for transmitter (Great Lakes)	

Installation	Installation of transmitter. See estimate 190823 Quote Land Communications
Site Survey and Drawings	Pre-installation survey of transmitter facility with drawings. See 190823 Quote Land Communications.
ThermoFlo Leibert system	ThermoFlo Leibert Installation
Mask Filter	Mask filter with parts to implement VSWR & Arc Monitoring

Interim Transmitter	New Transmitter Costs				
	Section	Question	Response		
	New Transmitter	Use	Interim		
		Description of Use	N/A		
		Change Type	Purchase		
		Manufacturer	Interim N/A N/A Purchase THU9-24 EVO Solid State ng Liquid Cooled 37 kW		
		Model			
		Transmitter Type	Solid State		
		Solid State Cooling			
		Solid State Power capacity	37 kW		
		Justification for New Transmitter	transmitter will be required to operate interim facilities at Hancock building while changing out antennas and transmitter at main		

Interim Other Transmitter Costs

Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	No
		Switchgear (industrial 800 amp)	No

	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	500.0 square feet
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
Inside RF System	Is an additional interior RF system required	No

Interim Transmitter	Other Transmitter Cost Not Listed		
	Name	Description	
	Transmitter retuning	Retuning cost for transmitter from ch. 31 to ch. 24	
	RF Components	Additional transmitter components required to interconnect to combiner	

Second Mask filer	Second mask filter to allow operation on channel 31 (pre-repack)
Combiner connection	Facilitation by antenna/combiner owner (ATC) to connect into their system.
Offloading	Offloading of transmitter and heat exchanger on ground and move to 97th floor.
Monitoring Equipment	Equipment needed to ensure signal and RF compliance with Rules.
Main and backup STL	Studio to Transmitter Link. Main link is fiber and backup is radio
Transmitter Site Survey	Survey by transmitter vendor to plan installation

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

Auxiliary	Existing Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Auxiliary (Backup)	
		Description of Use	Licensed Aux Antenna	
		Ownership	Leased	
		Owner	Willis Tower	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	Yes	
		Is the existing antenna directional?	Yes Yes Yes	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	Yes	
	Existing Antenna	Class	Full Power	
	Manufacturer and Type	Mounting	Top Mount	
		Antenna position in stack	Bottom	
		Polarization	Circular	
		Туре	Broadband Panel	
		Number of Stations Supported	Yes Full Power Top Mount Bottom Circular Broadband	
		Number of Panels	24	
		Design power capacity in use	100.0 %	
		Lower Limit	572.00 MHz	
		Upper Limit	578.00 MHz	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	475.0 kW	

Existing Antenna Information

Manufacturer	
Model	PHP24C
Year	1999

Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
32334	WJYS
22211	WFLD
47905	WMAQ-TV

Auxiliary	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna Description	Use	Auxiliary (Backup)	
		Description of Use	Aux Antenna	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Ownership	Leased	
		Owner	Willis Tower	
		Is antenna shared?	Yes	
		Is antenna directional?	Yes	
		Will antenna be located on or in close proximity to an antenna farm?	Yes	
	New Antenna	Class	Full Power	
	Manufacturer and Types	Mounting	Top Mount	
		Antenna position in stack	Bottom	
		Polarization	Elliptical	
		Туре	Broadband Panel	
		Number of Stations Supported	3	
		Number of Panels/Bays	24	
		Lower Limit	470.00 MHz	
		Upper Limit	600.00 MHz	
		Design power capacity in use	100.0 %	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	475.0 kW	
		Manufacturer		
		Model	PHP-24C	

Year	2018
Justification for New Antenna	Lessor
	moving
	WFLD to a
	different Aux
	Antenna on
	top of
	building.
	Quote
	reflects cost
	of
	provisioning
	combiner and
	removal of
	former aux
	antenna
	facilities. See
	190725_Willi
	Tower
	Repack
	Engineering
	Statement R4
	07112017
	page 10

Other Antenna Costs

Auxiliary
Antenna

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	New
	Number of channels supported	3
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A

Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	No

Enter a list of RF channel numbers.

RF Channel Number	
29	
21	
24	

Auxiliary Other Antenna Cost Not Listed

Antenna Information not provided.

Primary	Existing Antenna Information					
Antenna	Section	Question	Response			
	Existing Antenna Description	Type of change	Purchase New			
		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?	Yes			
	Existing Antenna	Class	Full Power			
	Manufacturer and Type	Mounting	Top Mount			
		Antenna position in stack	Middle			
		Polarization	Elliptical			
		Туре	Slotted Coaxial			
		Number of Stations Supported	N/A			
		Number of Panels	N/A			
		Design power capacity in use	N/A			
		Lower Limit	N/A			
		Upper Limit	N/A			
		Other Antenna Type	N/A			
		ERP: (Effective Radiated Power)	1000.0 kW			

Existing Antenna Information

	Manufacturer	
	Model	ATW14H3H- ETC2-31H
	Year	1999

Primary	New Antenna Costs				
Antenna	Section	Question	Response		
	New Antenna	Use	Primary (Main)		
	Description	Description of Use	N/A		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	No		
		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?	Yes		
	New Antenna Manufacturer and Types	Class	Full Power		
		Mounting	Top Mount		
		Antenna position in stack	Тор		
		Polarization	Elliptical		
		Туре	Slotted Coaxial		
		Number of Stations Supported	N/A		
		Number of Panels/Bays	N/A		
		Lower Limit	N/A		
		Upper Limit	N/A		
		Design power capacity in use	N/A		
		Other Antenna Type	N/A		
		ERP: (Effective Radiated Power)	1000.0 kW		
		Manufacturer			
		Model	TFU-14ETT/VP-R C210		
		Year	2019		

J	Justification for New Antenna	New antenna required for new channel. Slot antenna. See quotes 190725_700427CMZ- 1 WFLD FOX and 190725_900032CMZ WFLD FOX
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Primary

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Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed

Primary
Antenna

Name	Description
Southwest Pole Decommissioning	Willis Tower Decommissioning of SW Pole. per Willis Tower. See 190725_Willis Tower Repack Engineering Statement R4 07112017Spreadsheet. page 13
West Tower Stack Project	Willis Tower West Tower Stack Project per Willis Spreadsheet. See 190725_Willis Tower Repack Engineering Statement R4 07112017 page 12

Transmission Seff	tion	Question	Response
	Insmission Line lated Expenses	Do you have transmission line related expenses?	Yes

Fransmissior	Section	Question	Response
	Existing Transmission Line Description	Type of change	Purchase New
		Use	Auxiliary (Backup)
		Description of Use	Licensed Aux
		Ownership	Leased
		Owner	Willis Tower
		Site	N/A
		Is the existing transmission line shared with another station or stations?	Yes
		Is Transmission Line in operating condition?	Yes
	Existing Transmission	Manufacturer	
	Line Manufacturer and Type	Туре	Rigid
		Diameter	6 1/8 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	2
		Length	400 feet per run

Auxiliary Existing Transmission Line

Facility ID's and Call Signs of all stations with whom the transmission line is shared.

Facility ID	Call Sign
32334	WJYS
47905	WMAQ-TV

Auxiliary	New Transmission Line			
Transmissio	n Line Section	Question	Response	
	New Transmission Line Costs	Use	Auxiliary (Backup)	
		Description of Use	Licensed Aux	
		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 3/4 inches	
		Other Segment Length	N/A	
		Number of parallel runs	2	
		Length	400 feet per run	
		Justification for New Transmission Line	Replacement of Aux Antenna Transmission Line. The new Aux Combiner will be in a new location within the building and will require new transmission line.	

Description

Transmission Line Layout	Develop Transmission line layout and installation drawings for Aux Antenna.
Transmission Line runs, elbows, connectors	Transmission line runs, elbows, connectors for main and aux

Primary	Existing Transmission Li	xisting Transmission Line		
Transmission Line		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 the existing transmission line shared with another station or stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission	Manufacturer		
	Line Manufacturer and Type	Туре	Rigid	
		Diameter	8 3/16 inches	
		Other Diameter	N/A	
		Segment Length	20 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	400 feet per run	

Primary	New Transmission Line			
Transmissio	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	7 3/16 inches	
		Other Diameter	N/A	
		Segment Length	19 3/4 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	300 feet per run	

Justification for New Transmission Line	Current
	Transmissior
	line does not
	extend to the
	top of the
	west tower
	and it routed
	to the top of
	the SW Pole
	Outrigger.
	The New
	Antenna
	location
	requires new
	transmission
	line.
	However,
	applicant will
	re-use as
	much as
	possible of
	the existing
	line.

Other Transmission Line Expenses Not Listed Transmission Line

sior	ν 4 ¶₩§	Description
	Transmission Line Layout Installation Drawings	Develop and play transmission line layout and installation drawings. See attached Quote.
	Transmission line runs, elbows	Transmission line runs, elbows, parts required to align filter with the runs
	Transmission Line Inner-Conductors	Replacement of main line inner-conductors so station could reuse current line instead of replacing

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

Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	Modify Existing	
		Tower Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Leased	
		Is this tower consider Complex?	Located on Building	
		Is this tower currently shared with any other stations?	Yes	
		One or more FM, AM or TV radio broadcaster(s)	Yes	
		Others Types of Users	Yes	
		Is tower documented for structural analysis?	Yes	
		Is tower compliant with Rev G?	No	
	Existing Tower Structure	Do you have a tower registration number?	Yes	
	Registration	ASR Number	1032959	
	Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	41° 52' 44.1" N-	
1983))	1983))	Longitude (NAD83)	087° 38' 10.2" W-	
		Overall Structure Height	1729.97 feet	
		Support Structure Height	1435.35 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	595.14 feet	

Structure Type	BTWR - Building with Tower
Tower Owner	233 Broadcast, LLC
Date Constructed	01/01/2002

FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

Facility ID	Call Sign	Service
9617	WBBM-TV	DTV
32334	WJYS	DTV
47905	WMAQ-TV	DTV
28621	WJMK	FM
9613	WBBM-FM	FM
71425	WWME-CD	DTV
22211	WFLD	DTV
10801	WFMT	FM
48772	WPWR-TV	DTV
60539	WXFT-DT	DTV
10802	WTTW	DTV
72115	WGN-TV	DTV
73228	WLS-FM	FM
51165	WGCI-FM	FM
6377	WTMX	FM
53971	WEBG	FM
74178	WKSC-FM	FM

70042	WLIT-FM	FM
71283	WCFS-FM	FM
73226	WLS-TV	DTV
12498	WGBO-DT	DTV
10981	WCPX-TV	DTV

Other Types of Users

Users

Two Way

Microwave

Willis Tower

wer Modification Costs Primary

Tower

TOwer	wouncation	00515

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for tower with candelabra
Tower Reinforcements	Please select whether tower reinforcements are needed:	Serious Reinforcements needed

Tower Rigging Costs Primary

Tower

Section	Question	Response
Tower Rigging Costs	Complex Tower	Located on Building
Helicopter Services Required	Are helicopter services required?	Yes

Other Tower Expenses Not Listed Primary

Tower Information not provided.

Interim Tower	Tower Construction Costs			
	Section	Question	Response	
	Construct New Tower	Use	Interim	
		Description of Use	N/A	
		Height	425.20 feet	
		Justification for New Tower	This is an existing structure (John Hancock building) that will be used to support the interim antenna.	

Interim Tower Rigging Costs

Tower

Section	Question	Response
Tower Rigging Costs	Complex Tower	Located on Building
Helicopter Services Required	Are helicopter services required?	No

Other Tower Expenses Not Listed

Interim Tower

Name	Description
Tower mapping and structural study	Analyze and design modifications to existing structure to accommodate interim antenna. See 190823 Quote American Tower.
Structural modifications	Material and labor to modify existing structure to accommodate interim antenna. See 190823 Quote American Tower.

Outside Professional	Section	Question	Response
	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	1500
		Explanation	Outside Project Management to coordinate with Willis Tower, Antenna, Helicopter, Rigging, and Transmitter Replacements.
	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	Yes
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	Yes
		For Main Facility	Yes
		Prepare request for Special Temporary Authority	Yes
		Quantity	2
		Do you have Distributed Transmission System engineering services?	N/A
		Critical Facility	N/A
		Terrain-Shielded Facility	N/A
	Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	Yes

	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	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	Yes
	Additional Field Engineering Service	Yes
	Number of Days	45
	Justification	On Site RF Engineering to supervise equipment installation, performance measurements, and compliance with project requirements.

Outside Other Professional Services Expenses Not Listed Professional Services Costs Description

Prepare and File FCC Progress Reports

Prepare and File FCC Progress Reports

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	Yes
		Non-zoning permits	Yes
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	Yes
		FCC License to Cover Application	Yes
		FCC Special Temporary Authority Application	Yes
	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 Name

Description

Transmitters

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Justifi
Interim Transmitter THU9-24 EVO	\$3,535,606.46	\$2,944,452.58		\$2,699,091.26	
Transmitter Site Survey	\$21,382.82	\$21,382.82	Increased cost by \$1257.82 to include tax. Transmitter Site Survey and drawings for installation. See quote 190725_Quotation 112453.0.WFLD (FOX).Aux. SiteSurvpdf	\$21,382.82	N,
Main and backup STL	\$47,564.32	\$47,564.32	To get Audio and Video from Studio to the transmitter. Main is fiber, backup is radio. See Quote 190725_Studio Transmitter Redundant	\$8,321.74	N,
Monitoring Equipment	\$90,476.74	\$90,476.74	To monitor and confirm FCC Rule compliance. See Quotes in 190725_Transmitter RF and AV Monitoring	\$0.00	N,
Offloading	\$30,160.00	\$30,160.00	Offload transmitter and heat exchanger on ground and move to 97th. floor.	\$26,000.00	N

Combiner connection	\$1,117,809.30	\$1,117,809.30	Charge to connect transmitter into combiner and antenna system owned by others. See cost breakout in quote 190725_Transmitter to Antenna Integration	\$1,117,809.30	N
Second Mask filer	\$63,465.00	\$63,465.00	Second mask filter to provide operation on ch. 31 pre- repack channel during construction at Willis Tower. See quote 190725_Quotation 162173.2.WFLD (FOX).Second Filter	N/A	N
RF Components	\$35,517.00	\$35,517.00	Additional Transmitter parts required to connect transmitter. See quote 190725_R&S Quote Interim Transmission line for Hancock	N/A	N
Transmitter retuning	\$12,500.00	\$12,500.00	Retuning of transmitter from ch 31 pre-repack to ch 24 post-repack See quote 190725_WFLD THU Rechannel 19028R	N/A	N
Other Building Addition Size: 500.0	\$643,731.28	\$643,731.28	Comprehensive room provisioning includes electrical, demolition, transformer, general construction, permits, design and HVAC, See quote 190725_Transmitter Room Construction	\$643,731.28	N

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$881,846.12	See attached quote 190725_Quotation 110499.1.WFLD (FOX).Interim Main	\$881,846.12	N
Primary Transmitter THU9-40 EVO	\$4,252,733.97	\$3,692,634.97		\$2,289,423.05	
Installation	\$170,289.27	\$170,289.27	Installation of transmitter. See quote 190823 Quote Land Communications for detail. Additionally Rohde and Schwarz parts and freight.	\$170,289.27	Install cos inclu install additi parts freiq
Site Survey and Drawings	\$26,000.00	\$26,000.00	Pre-installation site survey with drawings. See 190823 Quote Land Communications for detail.	\$26,000.00	N,
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,239,501.00	See quote 190725_Quotation 155506.1.WFLD. Main	\$1,138,188.30	N,
Mask Filter	\$313,448.00	\$313,448.00	Mask filter with Parts to Implement VSWR & Arc Monitoring. See Rohde and Schwarz quote #358694.0	\$166,519.27	N
ThermoFlo Leibert system	\$360,000.00	\$360,000.00	ThermoFlo Quote Attached. Leibert Units Installation at Willis Tower	N/A	N,

Plumbing Demolition	\$13,220.00	\$13,220.00	Plumbing Demolition. Pipefitter Scope. Quote Attached.	N/A	N
Remote Control Wiring	\$3,600.00	\$3,600.00	Wire up existing remote control to new transmitter. See attached vendor quote.	\$0.00	N
Water Glycol System	\$75,750.00	\$75,750.00	ZonaTherm Quote attached. Water /Glycol System	N/A	N
Remove Existing Main Transmitter	\$180,025.00	\$180,025.00	Quote to remove existing equipment. Beam Supplies, HE Glycol, Etc. Down Elevator. Rigging, Labor Overtime on Weekends/Nights. See attached quote 190725_Willis Tower Phase II. Does not include disposal.	N/A	N,
Additional Transmitter RF Components	\$94,648.20	\$94,648.20	Plumbing, RF and switching components. See quote 190725_Quotation 230209.2 WFLD. Addtnl Install Parts	N/A	N
Other Building Addition Size: 1000.0	\$795,453.50	\$795,453.50	Modifications to building space for new transmitter. Willis Tower Building. See quote 190725_20190108 WFLD-Osborn Fee Proposal for design services. Also Pacific Construction quotes included with invoices	\$788,426.21	N,

50 Ton system	\$172,500.00	\$164,000.00	Modifications to HVAC/Mechanical Systems Willis Tower Building	N/A	N
Other Electrical Service: Transmitter Electrical Installation Costs Willis Tower	\$200,800.00	\$200,800.00	Estimate based on verbal discussions. Quote is forthcoming and will be entered when received.	N/A	N,
3" Rigid Conduit and Wiring (Cost per foot)	\$20,800.00	\$19,600.00	Catalog	N/A	N
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	Catalog	N/A	N
Sub-total	\$7,788,340.43	\$6,637,087.55	N/A	\$4,988,514.31	N,
Total for all systems	\$14,491,678.25	\$11,785,737.04	N/A	\$5,638,322.38	N

Actual Information	
Description	File Name

Transmitter Site Survey		
	Component Description:	Partial invoice for interim transmitter
	Amounti	pre-install survey \$10,062.50
	Amount:	\$10,062.50
	Component Description:	Final 50% for Site
		Survey
	Amount:	\$10,062.50
	Component Description:	Tax applied to site
		survey
	Amount:	\$1,257.82
Main and backup STL		
	Component Description:	STL failover switch
	Amount:	\$3,896.74
	Component Description:	Partial payment for
		STL and GPS
		antenna install
	Amount:	\$4,425.00
	Component Description:	Integrated
		Microwave
		Technologies
		cables and clamps
		for STL

Monitoring Equipment		
	Component Description:	ASI/SDI monitoring
	Amount:	equipment \$3,123.00
		φ0,120.00
	Component Description:	RF Signal Analyzer (monitoring
	Amount:	equipment) \$8,395.00
Offloading		
	Component Description:	Partial payment for off loading transmitter to 97th. floor Willis bldg.
	Amount:	\$13,000.00
	Component Description:	Offloading
		transmitters at
		Willis. Not all
		components
		arrived on time, additional time was
		needed to offload.
		See invoice named
		'2019-08-27 Krueger Broadcast
		Services Inc - 830 -
		\$13,000.00.pdf' for
		detail.
	Amount:	\$4,160.00
	Component Description:	Partial payment for
		off loading
		transmitter to 97th.
		floor Willis bldg.
	Amount:	\$13,000.00

	Component Description:	Interconnect into RF plant including antenna. Final payment
	Amount:	\$347,896.80
	Component Description:	Interconnect into RF plant including antenna. Mileston payment 2.
	Amount:	\$513,275.00
	Component Description:	Interconnect into RF plant including antenna. Milestone
	Amount:	payment 1. \$256,637.50
Second Mask filer	Information not provided.	
RF Components	Information not provided.	
Transmitter retuning	Information not provided.	
Other Building Addition Size: 500.0	Component Description:	Architectural Design Services fo
	Amount:	Hancock Building \$4,354.40
	Component Description:	Architectural
		Design Services for Hancock Building
	Amount:	Design Services fo Hancock Building \$8,734.44
	Amount: Component Description:	Hancock Building

architectural Design Services for Iancock Building 10,243.50
architectural Design Services for Iancock Building 9,801.66
Osborn Interim Transmission Tacility Construction Orawings Professional Services through 1 31/19 6,206.20
architectural Design Services for Iancock Building 1,275.00
lancock ransmission Space Alteration rogress payment 96,890.90
Partial payment for eneral onstruction ervices at lancock site. 21,167.90

Component Description: Amount:	General construction services at Hancock site. Partial payment. \$325,273.76
Component Description: Amount:	Partial payment general construction services at Hancock Bldg. \$103,051.20
Component Description:	Osborn Engineering Interim Site Construction Professional Services through July 26, 2019 \$19,850.00
Component Description:	Architectural Design Services for Hancock Building. Please disregard amount shown in the invoice file name. \$7,610.25
Component Description: Amount:	Pacific Construction Hancock Transmission Space \$19,624.57

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description:	Final 50% of interim transmitter
	Amount:	plus shipping and tax \$471,747.97
	Component Description: Amount:	Partial payment for interim transmitter \$410,098.15
Installation		
	Component Description:	50% of transmitter install and proof
	Amount:	\$29,000.00
	Component Description:	Installation parts and freight for
	Amount:	transmitter \$39,861.82
	Component Description:	Installation parts,
	Amount:	shipping and tax \$72,427.45
	Component Description:	50 percent down payment for
	Amount:	transmitter installation \$29,000.00

Site Survey and Drawings		
	Component Description:	50% of site survey and drawing
	Amount:	package \$13,000.00
	Component Description:	50 percent down payment for
	Amount:	transmitter site survey and drawing package \$13,000.00
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description:	30% down main transmitter
	Amount:	\$371,850.30
	Component Description:	Final progress payment plus
	Amount:	shipping and tax \$114,269.90
	Component Description: Amount:	zeroed out N/A
	Component Description: Amount:	Down payment for main transmitter \$619,750.50
	Component Description:	Progress payment on main transmitter
	Amount:	\$32,317.60
Mask Filter		
	Component Description:	Mask filter, monitoring, shipping \$166,519.27

ThermoFlo Leibert system	Information not provided.	
Plumbing Demolition	Information not provided.	
Remote Control Wiring	Information not provided.	
Water Glycol System	Information not provided.	
Remove Existing Main Transmitter	Information not provided.	
Additional Transmitter RF Components	Information not provided.	
Other Building Addition Size: 1000.0	Component Description:	Willis Tower Primary Transmitter room
	Amount:	construction \$152,118.75
	Component Description:	Professional Engineering Services Wills Tower through August 30, 2019 quote included.
	Amount:	\$14,095.21
	Component Description:	Willis Tower Primary Transmitter room construction.
	Amount:	\$174,856.00
	Component Description:	Progress paymen on primary transmitter room.
	Amount:	\$59,502.00
	Component Description:	Willis Tower Primary Transmitter room

	Component Description: Amount:	Architectural Design Services for Willis Tower Building \$1,650.00
	Component Description: Amount:	Progress payment on primary transmitter room \$22,531.00
	Component Description: Amount:	Willis Tower Primary Transmitter Room. \$78,812.25
50 Ton system	Information not provided.	
Other Electrical Service: Transmitter Electrical Installation Costs Willis Tower	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	

Antennas

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost
Primary Antenna TFU-14ETT/VP-R C210	\$2,843,280.00	\$2,873,875.00		\$323,470.22
Southwest Pole Decommissioning	\$1,110,500.00	\$1,110,500.00	Willis Tower Spreadsheet. WFLD Allocated costs of project per Willis Tower Engineering Statement attached. See See 190725_Willis Tower Repack Engineering Statement R4 07112017Spreadsheet. page 13	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Within quote 190725_700427CMZ-1 WFLD FOX	\$5,760.00
UHF - High Power Top Mount (200- 1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$321,741.00	Custom Three Station Stack Antenna designed for Willis Tower Building West Pylon. This antenna will require special structural design. See quotes 190725_700427CMZ-1 WFLD FOX and 190725_900032CMZ WFLD FOX	\$255,837.60

Actual Information Description	File Name	
Southwest Pole Decommissioning	Information not provided.	
Sweep test of existing		
antenna	Component Description:	Partial payment for
	Amount:	antenna sweep \$2,880.00
	Component Description:	2nd Partial payment for
		antenna sweep
	Amount:	\$2,880.00
UHF - High Power Top		
Mount (200-1000 kW), One station antenna , elliptically	Component Description:	2nd. Partial
or circularly polarized		payment for
51		antenna and parts.
		Includes change order which has
		been uploaded.
	Amount:	\$144,783.45
	Component Description	Dartial normant for
	Component Description:	Partial payment for antenna and
		associated parts
	Amount:	\$111,054.15
West Tower Stack Project		
	Component Description:	Osborn
		Engineering
		professional
		services 12/1/18-12
	Amount:	/31/18 \$6,906.76
		\$0,300.70

Component Description: Amount:	West Tower Stack work. See 190725_Willis Tower Repack Engineering Statement R4 07112017 page 12 \$1,934.07
Component Description: Amount:	Osborn Engineering West Stack work. \$5,010.90
Component Description: Amount:	Osborn Engineering professional services 6/29/19-7 /26/19 \$4,242.57
Component Description: Amount:	Osborn Professional Services 6/29/19-7 /26/19 N/A
Component Description: Amount:	West Tower Stack work. See 190725_Willis Tower Repack Engineering Statement R4 07112017 page 12 \$9,171.44

Component Description:	Osborn Engineering professional services 10/27/18- 11/30/18. Attachment includes variance cover letter. N/A
Component Description: Amount:	Osborn Engineering professional personnel 6/29/19-7 /26/19 \$1,575.00
Component Description:	Willis Tower Repack. See 190725_Willis Tower Repack Engineering Statement R4 \$9,171.44
Component Description: Amount:	Osborn Engineering Professional Services 10/27/18- 11/30/18 \$15,176.40
Component Description: Amount:	Osborn professional services 7/27/19 - 8 /30/19 west stack \$6,502.82

	Component Description:	Osborn Engineering West
	Amount:	Stack project work \$2,100.00
	Component Description:	Osborn Engineering work on West Stack
	Amount:	project. \$8,967.65
	Component Description:	West Tower Stack work. See 190725_Willis Tower Repack Engineering Statement R4 07112017 page 12
	Amount:	\$7,978.39
	Component Description:	WFLD portion. West Stack Project consulting.
	Amount:	\$8,702.93
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description:	Partial payment for Elbows
	Amount:	\$4,942.80
	Component Description:	Partial payment for elbow complex
	Amount:	\$4,942.80
New combiner, cost per channel (without antenna)	Information not provided.	

Information not provided.

UHF - High Power Top Mount Three Station broadband panel antenna elliptically or circularly polarized

Transmission Line

Cost Information

Description Primary Transmission Line	Predetermined Cost Estimate \$200,125.29	Estimated Cost \$113,125.29	Estimated Cost Justification	Actual Cost \$72,305.15	Actual Cos Justificatio
Transmission Line Inner- Conductors	\$67,448.75	\$67,448.75	Main transmission line inner connectors needed to be replaced so that existing line could be reused.	\$61,628.61	N/A
Transmission line runs, elbows	\$10,676.54	\$10,676.54	See Rhode and Schwarz quote 358698.0 attached to invoice. Main and Aux costs included.	\$10,676.54	N/A
Transmission Line Layout Installation Drawings	\$35,000.00	\$35,000.00	Develop transmission line layout and installation drawings. See attached vendor quote.	N/A	N/A

Rigid Transmission Line - copper, 7 3 /16"	\$87,000.00	\$0.00	Custom Transmission line fabrication required. Each section will need to be a custom made section length in order to fit within the existing hallways and vertical shafts within Willis Tower. Standard Line section costs is not applicable.	N/A	N/A
Auxiliary Transmission Line	\$197,276.53	\$210,676.53		\$10,676.53	
Transmission Line runs, elbows, connectors	\$10,676.53	\$10,676.53	Transmission line runs, elbows, connectors	\$10,676.53	N/A
Transmission Line Layout	\$25,000.00	\$25,000.00	Develop transmission line layout and installation drawings. See attached vendor quote.	N/A	N/A

			custom made based upon CAD		
			drawings in		
			order to fit		
			within the		
			existing		
			hallway and		
			vertical		
			shafts within		
			the Willis		
			Tower		
			Building.		
			Standard line		
			sections will		
			not fit.		
Sub-total	\$397,401.82	\$323,801.82	N/A	\$82,981.68	N/A
Total for all systems	\$14,491,678.25	\$11,785,737.04	N/A	\$5,638,322.38	N/A

Actual Information	
Description	File Name

Transmission Line Inner-		
Conductors	Component Description:	Inner conductors for main
		transmission line
		so existing line
		could be reused.
	Amount:	\$58,003.40
	Component Description:	Tax on invoice
		735008, inner
		conductors for
		main transmission
		line
	Amount:	\$3,625.21
Transmission line runs,		
elbows	Component Description:	Transmission line
		runs and parts.
		Costs split 50/50
		between main and
		aux.
	Amount:	\$10,676.54
Transmission Line Layout Installation Drawings	Information not provided.	
Rigid Transmission Line - copper, 7 3/16"	Information not provided.	
Transmission Line runs,		
elbows, connectors	Component Description:	Transmission line
		runs, elbows,
		connectors. 50/50
		split between main
		and aux
		transmission line.
	Amount:	\$10,676.53
Transmission Line Layout	Information not provided.	
Rigid Transmission Line - copper, 6 1/8"	Information not provided.	

Tower Equipment and Rigging Costs

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justificatio
Primary Tower BTWR	\$1,493,000.00	\$0.00		\$0.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$0.00	See attached Willis Tower Spreadsheet and Engineering Statement.	N/A	N/A
Tower Helicopter Lift	\$0.00	\$0.00	See attached Willis Tower Engineering Statement and Spreadsheet.	N/A	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$0.00	See attached Willis Tower spreadsheet and engineering statement.	N/A	N/A
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$0.00	See attached Willis Tower Engineering Statement.	N/A	N/A
Interim Tower	\$461,300.00	\$40,300.00		\$40,300.00	
New tower	\$0.00	\$0.00	N/A	N/A	N/A

Structural modifications	\$30,000.00	\$30,000.00	Structural modifications to structure. See attached quote 190823 Quote American Tower.	\$30,000.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$0.00	N/A	N/A	N/A
Tower mapping and structural study	\$10,300.00	\$10,300.00	Interim structure mapping and structural analysis. See quote 190823 Quote American Tower.	\$10,300.00	N/A
Sub-total	\$1,954,300.00	\$40,300.00	N/A	\$40,300.00	N/A
Total for all systems	\$14,491,678.25	\$11,785,737.04	N/A	\$5,638,322.38	N/A

Actual Information Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.
Tower Helicopter Lift	Information not provided.
Serious tower reinforcement /modifications	Information not provided.

Structural engineering tower load study for a documented tower with candelabra	Information not provided.	
New tower	Information not provided.	
Structural modifications		
	Component Description:	Interim tower structural work
	Amount:	\$30,000.00
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	
Tower mapping and structural		
study	Component Description:	Interim tower
		analysis and
		mapping
	Amount:	\$10,300.00

Outside Professional Services

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual (Justifica
Outside Professional Services	\$521,175.00	\$544,130.00		\$147,444.17	
Prepare and File FCC Progress Reports	\$34,980.00	\$34,980.00	Prepare and File FCC Progress Reports. See attached vendor quote.	N/A	N/A
Additional Field Engineering Service, 45 Days	\$95,400.00	\$95,400.00	See attached vendor quote. On Site RF Engineering for complex project. Supervision of installation and commissioning of new systems.	\$0.00	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	Catalog	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	Catalog	N/A	N/A

Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$35,000.00	Willis Tower Building Lease Modifications	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	Catalog	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	Catalog	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	Catalog	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	Catalog	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	Catalog	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	Catalog	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	Catalog	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	Catalog	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	Catalog	N/A	N//
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$15,000.00	Coordination for Chicago Market and Willis Tower Building Testing and Transition End Dates	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	Catalog	N/A	N/A

RF Exposure Measurements	\$21,050.00	\$20,000.00	Catalog	N/A	N/A
Project management of the transition	\$237,000.00	\$225,000.00	Very large scope project management.	\$147,444.17	N/A
Sub-total	\$521,175.00	\$544,130.00	N/A	\$147,444.17	N/A
Total for all systems	\$14,491,678.25	\$11,785,737.04	N/A	\$5,638,322.38	N/A

Actual Information Description	File Name	
Prepare and File FCC Progress Reports	Information not provided.	
Additional Field Engineering Service, 45 Days	Component Description: Amount:	RF Consulting Services for WFLD. \$15,333.75
Comprehensive coverage verification via field study, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	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.	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
RF Exposure Measurements	Information not provided.	
Project management of the transition	Component Description:	Project Management 11/4 /19 - 11/5/19

Component Description:

Amount:

Component Description:

Amount:

Component Description:

Amount:

Component Description:

Amount:

Component Description:

Project Management 12/5 /18 - 12/6/18 \$682.54

Project Management 1/1 /18 - 12/31/18 \$45,883.75

Project Management 1/1 /19 - 12/31/19 \$1,077.08

Project Management 1/4 /18 - 12/31/18 \$594.03

Project Management Jan 5, 2017 - Dec 31, 2017 \$3,583.75

Management 1/1 /19 - 12/31/19 \$83,222.50

Project

Component Description:

Amount:

Amount:

Component Description:

Amount:

Project Management Jan 13-14, 2019 WFLD \$824.78

Component Description:	RF Consulting
	/Project
	Management.
	Revised invoice
	with consultant
	name added per
	request.
Amount:	\$15,333.75

Other Expenses

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actua Justi
Other Expenses	\$902,981.00	\$902,376.00		\$55,612.00	
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	N/A	٦
Develop and air announcement of upcoming channel change	\$1,500.00	\$1,500.00	N/A	N/A	1
Equipment Delivery and Handling Charges	\$250,000.00	\$250,000.00	Delivery and Logistics for Equipment to Willis Tower Building. Elevator and Freight Dock Considerations. Special elevator lifts. See attached rate sheet from Willis Tower Building Management.	\$7,200.00	7
Disposal Costs (for equipment and other waste, net of any salvage value)	\$45,000.00	\$45,000.00	Disposal of Glycol, Transformer Oil, Old Antenna, etc. from Willis Tower Building.	N/A	7
Non-zoning permits	\$19,000.00	\$19,000.00	Building Permits, Electrical, and Mechanicals. Willis Tower Building City of Chicago	N/A	1

Local Zoning	\$0.00	\$0.00	N/A	N/A	١
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	Catalog	N/A	٦
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	1
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	Catalog	N/A	٦
Equipment Storage	\$56,791.00	\$56,791.00	Transmitter Storage off site until needed on site. See quotes 190725_Quotation 170275.3.WFLD. Main. Consolidation for main and 190725_Quotation 170264.3.WFLD (FOX).Int. Consolidation for interim	\$48,412.00	1
Illinois and Chicago Sales Tax	\$512,500.00	\$512,500.00	Estimated Chicago and Illinois Sales Tax on Equipment. The sales tax rate in the City of Chicago is 10.25%. Total Estimated Sales Tax on equipment at the 10.25% rate.	N/A	1
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	Catalog	N/A	٦

Sub-total	\$902,981.00	\$902,376.00	N/A	\$55,612.00	1
Total for all systems	\$14,491,678.25	\$11,785,737.04	N/A	\$5,638,322.38	٦

Actual Information Description	File Name	
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Delivery and Handling Charges	Component Description:	Partial payment for antenna shipping
	Amount:	\$3,600.00
	Component Description:	2nd partial payment for antenna shipping.
	Amount:	\$3,600.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Non-zoning permits	Information not provided.	
Local Zoning	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	

	Component Description:	Main transmitter storage, delivery
	Amount:	\$48,412.00
Illinois and Chicago Sales Tax	Information not provided.	
DTV Medical Facility Notification	Information not provided.	

Cost Information	Grand Total				
		Predetermined Cost Estimate	Estimated Cost	Actual Cost	
	Total for all systems	\$14,491,678.25	\$11,785,737.04	\$5,638,322.38	

Reimbursem	entestans	Response
	The facility has ceased operating on its pre- auction channel.	No
	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. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

- 4. 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.

8. 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.	Angelo Servedio SVP Controller 01/07/2021

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. 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.
- 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.	Angelo Servedio SVP Controller 01/07/2021

Attachments