

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: **Reimbursement Request**

Facility	22211	Service: DTV	Call Sign:	WFLD	Channel: 31 (UHF)
File Number:	000002	7829	2.3		
FRN: 0005	795067	Date Submitted:	07/20 /2020		

Applicant Name, Type, and Contact Information

Applicant Information Applicant Address Phone **Applicant Type** Email FOX TELEVISION Limited Ann West Bobeck +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 Contact Information	Preparer Contact Name	reparer Contact Name and Information			
	Applicant	Address	Phone	Email	
	Dennis Wallace Managing Partner Meintel, Sgrignoli & Wallace, LLC	Dennis Wallace 1282 Smallwood Drive Suite 372 Waldorf, MD 20603	+1 (202) 251- 7589	Dennis. Wallace@mswdtv.com	
		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
	Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

Primary	Existing Transmitter Info	rmation	ation		
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		
		Туре	Inductive Output Tube		
		IOT Power Type	Three		
		Power Capacity	75 kW		

Primary	New Transm	itter Costs	
Transmitter	Section	Question	Response
	New	Use	Primary (Main)
	Transmitter	Change Type	Purchase New
		Is this a request for upgraded equipment?	No
		Manufacturer	
		Model	THU-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 Length	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	Other Transmitter Cost Not Listed		
Transmitter	Name	Description	
	Remove Existing Main Transmitter	Remove existing main transmitter from Willis Tower	
	ThermoFlo Leibert system	ThermoFlo Leibert Installation	
	Plumbing Demolition	Disconnect Piping for transmitter (Great Lakes)	
	Site Survey and Drawings	Pre-installation survey of transmitter facility with drawings. See 190823 Quote Land Communications.	
	Water Glycol System	Building Chilled Water System Connection. (ZonaTherm)	

Mask Filter	Mask filter with parts to implement VSWR & Arc Monitoring
Remote Control Wiring	Wire up existing remote control to new transmitter
Installation	Installation of transmitter. See estimate 190823 Quote Land Communications
Additional Transmitter RF Components	Plumbing, RF and switch components. See quote 190725_Quotation 230209.2 WFLD. Addtnl Install Parts

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

Interim Other Transmitter Costs

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

Image: Frame (480V)NoPowerNARigid Conduit and WiringNoSizeNALengthNAOther Electrical ServiceNADescriptionNAMAC Service?NATypeNASizeNAOther SizeNAOther SizeNASizeNASizeNASizeNASizeNASizeNASizeNASizeNASizeNASizeSolo Service?SizeSolo Service?SizeNASizeNASizeSolo Service?SizeSolo Service?			
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Inside RF System Is an additional interior RF system required No		Is a channel 14 Mask Filer needed?	N/A
Inside RF System Is an additional interior RF system required No		Is additional field engineering time needed?	N/A
		Number of Days	N/A
	Inside RF System		No

Interim	Other Transmitter Cost Not Listed		
Transmitter	Name	Description	
	RF Components	Additional transmitter components required to interconnect to combiner	
	Main and backup STL	Studio to Transmitter Link. Main link is fiber and backup is radio	

Combiner connection	Facilitation by antenna/combiner owner (ATC) to connect into their system.
Second Mask filer	Second mask filter to allow operation on channel 31 (pre-repack)
Transmitter retuning	Retuning cost for transmitter from ch. 31 to ch. 24
Offloading	Offloading of transmitter and heat exchang on ground and move to 97th floor.
Monitoring Equipment	Equipment needed to ensure signal and RI compliance with Rules.
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	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	Yes	
	Existing Antenna Manufacturer and Type	Class	Full Power	
		Mounting	Top Mount	
		Antenna position in stack	Bottom	
		Polarization	Circular	
		Туре	Broadband Panel	
		Number of Stations Supported	3	
		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		
21		
24		
29		

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 Ser	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 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			
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	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
	Transmission
	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 wil
	re-use as
	much as
	possible of
	the existing
	line.

Other Transmission Line Expenses Not Listed Transmission Line Descript

5101	N-1WE	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

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
9613	WBBM-FM	FM
51165	WGCI-FM	FM
32334	WJYS	DTV
71283	WCFS-FM	FM
28621	WJMK	FM
53971	WEBG	FM
71425	WWME-CD	DTV
73228	WLS-FM	FM
70042	WLIT-FM	FM
48772	WPWR-TV	DTV
9617	WBBM-TV	DTV
73226	WLS-TV	DTV
74178	WKSC-FM	FM
12498	WGBO-DT	DTV
6377	WTMX	FM
22211	WFLD	DTV
10801	WFMT	FM

60539	WXFT-DT	DTV
10981	WCPX-TV	DTV
10802	WTTW	DTV
72115	WGN-TV	DTV
47905	WMAQ-TV	DTV

Other Types of Users

Users

Willis Tower

Microwave

Two Way

or Modification Costs Primary

Tower

Tower	wouncation	Cosis

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 Expenses	Section	Question	Response
	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	\$3,444,347.16	\$2,781,418.47		\$1,879,446.49	
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
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
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

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,
Combiner connection	\$1,026,550.00	\$1,026,550.00	Charge to connect transmitter into combiner and antenna system owned by others. See cost breakout in quote 190725_Transmitter to Antenna Integration	\$769,912.50	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
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	\$810,071.31	See attached quote 190725_Quotation 110499.1.WFLD (FOX).Interim Main	\$410,098.15	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
Primary Transmitter THU-40 Evo	\$4,140,444.70	\$3,580,345.70		\$1,534,662.98	
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
Installation	\$58,000.00	\$58,000.00	Installation of transmitter. See quote 190823 Quote Land Communications for detail	\$29,000.00	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
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
Water Glycol System	\$75,750.00	\$75,750.00	ZonaTherm Quote attached. Water /Glycol System	N/A	N

Site Survey and Drawings	\$26,000.00	\$26,000.00	Pre-installation site survey with drawings. See 190823 Quote Land Communications for detail.	\$13,000.00	N
Plumbing Demolition	\$13,220.00	\$13,220.00	Plumbing Demolition. Pipefitter Scope. Quote Attached.	N/A	N
ThermoFlo Leibert system	\$360,000.00	\$360,000.00	ThermoFlo Quote Attached. Leibert Units Installation at Willis Tower	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,
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	\$706,393.21	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	\$619,750.50	N

Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	Catalog	N/A	N
3" Rigid Conduit and Wiring (Cost per foot)	\$20,800.00	\$19,600.00	Catalog	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,
50 Ton system	\$172,500.00	\$164,000.00	Modifications to HVAC/Mechanical Systems Willis Tower Building	N/A	N,
Sub-total	\$7,584,791.86	\$6,361,764.17	N/A	\$3,414,109.47	N/
Total for all systems	\$14,220,680.93	\$11,657,964.91	N/A	\$3,828,239.98	N

Actual Information	
Description	File Name

Transmitter Site Survey		
	Component Description:	Partial invoice for interim transmitter pre-install survey
	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
Monitoring Equipment		
	Component Description:	RF Signal Analyzer (monitoring equipment)
	Amount:	\$8,395.00
	Component Description:	ASI/SDI monitoring equipment
	Amount:	\$3,123.00

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
Transmitter retuning	Information not provided.	
Second Mask filer	Information not provided.	

Combiner connection		
	Component Description:	Interconnect into RF plant including antenna. Milestone payment 2.
	Amount:	\$513,275.00
	Component Description:	Interconnect into RF plant including antenna. Milestone payment 1.
	Amount:	\$256,637.50
Main and backup STL	Component Descriptions	Dorticl novement for
	Component Description:	Partial payment for STL and GPS antenna install
	Amount:	\$4,425.00
	Component Description: Amount:	STL failover switch \$3,896.74
	Component Description:	Integrated Microwave Technologies cables and clamps for STL
	Amount:	\$3,005.01
Other Building Addition Size: 500.0		
	Component Description:	Architectural Design Services for Hancock Building. Please disregard amount shown in the invoice file name.
	Amount:	\$7,610.25

Componen	t Descriptior	1:
Componen		

Amount:

Component Description:

Architectural Design Services for Hancock Building \$9,801.66

Osborn Interim Transmission Facility Construction Drawings /Professional Services through 1 /31/19 \$6,206.20

Amount:

Component Description:

Architectural Design Services for Hancock Building \$1,275.00

Amount:

Architectural Design Services for Hancock Building \$4,354.40

Architectural Design Services for Hancock Building \$8,734.44

Architectural Design Services for Hancock Building \$9,647.50

Architectural Design Services for \$10,243.50

Hancock Building

Component Description: Amount:	Hancock Transmission Space Alteration progress payment \$96,890.90
Component Description: Amount:	Partial payment for general construction services at Hancock 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:	Pacific Construction Hancock Transmission
Amount:	Space \$19,624.57

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description: Amount:	Partial payment for interim transmitter \$410,098.15
RF Components	Information not provided.	
Additional Transmitter RF Components	Information not provided.	
Installation	Component Description: Amount:	50 percent down payment for transmitter installation \$29,000.00
Remote Control Wiring	Information not provided.	
Mask Filter	Component Description: Amount:	Mask filter, monitoring, shipping \$166,519.27
Water Glycol System	Information not provided.	
Site Survey and Drawings	Component Description: Amount:	50 percent down payment for transmitter site survey and drawing package \$13,000.00
Plumbing Demolition	Information not provided.	
Plumbing Demolition ThermoFlo Leibert system	Information not provided.	

Other Building Addition		
Size: 1000.0	Component Description:	Willis Tower Primary Transmitter room construction
	Amount:	\$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:	Willis Tower Primary Transmitter room
	Amount:	\$284,861.00
	Component Description:	Architectural Design Services for Willis Tower Building
	Amount:	\$1,650.00
	Component Description:	Willis Tower Primary Transmitter Room.
	Amount:	\$78,812.25

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description: Amount:	zeroed out N/A
	Component Description: Amount:	Down payment fo main transmitter \$619,750.50
Switchgear - industrial 800 amp	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Other Electrical Service: Transmitter Electrical Installation Costs Willis Tower	Information not provided.	
50 Ton system	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		\$329,943.69
West Tower Stack Project	\$1,424,250.00	\$1,424,250.00	Willis Tower Triple Destack and Double Stack per attached spreadsheet from Willis Tower and attached Willis Tower Engineering Statement. See 190725_Willis Tower Repack Engineering Statement R4 07112017 page 12	\$58,460.49
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
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,984.00	Within quote 190725_700427CMZ-1 WFLD FOX	\$9,885.60

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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Within quote 190725_700427CMZ-1 WFLD FOX	\$5,760.00
Auxiliary Antenna PHP- 24C	\$84,200.00	\$464,166.67		\$0.00
New combiner, cost per channel (without antenna)	\$84,200.00	\$464,166.67	Willis Tower Aux Combiner / East Tower per Willis Tower Spreadsheet. See 190725_Willis Tower Repack Engineering Statement R4 07112017 page 10.	N/A
UHF - High Power Top Mount Three Station broadband panel antenna elliptically or circularly polarized	\$0.00	\$0.00	N/A	N/A
Sub-total	\$2,927,480.00	\$3,338,041.67	N/A	\$329,943.69
Total for all systems	\$14,220,680.93	\$11,657,964.91	N/A	\$3,828,239.98

Actual Information	
Description	File Name

West Tower Stack Project

Component Description: Amount:	Osborn Engineering West Stack project work \$2,100.00
Component Description: Amount:	Osborn Engineering professional personnel 6/29/19-7 /26/19 \$1,575.00
Component Description: Amount:	Osborn Engineering professional services 12/1/18-12 /31/18 \$6,906.76
Component Description:	Willis Tower Repack. See 190725_Willis Tower Repack Engineering Statement R4 \$9,171.44
Component Description: Amount:	Osborn professional services 7/27/19 - 8 /30/19 west stack \$6,502.82
Component Description: Amount:	West Tower Stack work. See 190725_Willis Tower Repack Engineering Statement R4 07112017 page 12 \$9,171.44

Component Description: Amount:	Osborn Professional Services 6/29/19-7 /26/19 N/A
Component Description:	Osborn Engineering professional services 10/27/18- 11/30/18. Attachment includes variance cover letter. N/A
Component Description: Amount:	Osborn Engineering West Stack work. \$5,010.90
Component Description: Amount:	Osborn Engineering work on West Stack 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:	West Tower Stack work. See 190725_Willis Tower Repack Engineering Statement R4 07112017 page 12 \$1,934.07
	Component Description:	Osborn Engineering Professional Services 10/27/18- 11/30/18
	Amount:	\$15,176.40
	Component Description: Amount:	Osborn Engineering professional services 6/29/19-7 /26/19 \$4,242.57
Southwest Pole Decommissioning	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description: Amount:	Partial payment for elbow complex \$4,942.80
	Component Description: Amount:	Partial payment for Elbows \$4,942.80

Component Deceristics	and Derticl
Component Description:	2nd. Partial
	payment for
	antenna and parts.
	Includes change
	order which has
	been uploaded.
Amount:	\$144,783.45
Component Description:	Partial payment for
	antenna and
	associated parts
Amount:	\$111,054.15
Component Description:	2nd Partial
	payment for
	antenna sweep
Amount:	\$2,880.00
Component Description:	Partial payment for
	antenna sweep
Amount:	\$2,880.00
	<i>,</i>
Information not provided.	
Information not provided.	
	Component Description: Amount: Component Description: Amount: Component Description: Amount: Information not provided.

Transmission Line

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos [.] Justificatio
Primary Transmission Line	\$132,676.54	\$260,676.54		\$10,676.54	
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	\$215,000.00	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

Rigid Transmission	\$161,600.00	\$175,000.00	Custom transmission	N/A	N/A
Line -			line		
copper, 6 1/8"			fabrication		
coppol, o no			required.		
			Each line		
			section will		
			need to be		
			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	\$329,953.07	\$471,353.07	N/A	\$21,353.07	N/A
Total for all systems	\$14,220,680.93	\$11,657,964.91	N/A	\$3,828,239.98	N/A

Actual Information Description	File Name	
Transmission line runs, elbows	Component Description: Amount:	Transmission line runs and parts. Costs split 50/50 between main and aux. \$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. \$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 Cos Justificatio
Primary Tower BTWR	\$1,493,000.00	\$0.00		\$0.00	
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
Serious tower reinforcement /modifications	\$1,052,000.00	\$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
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
Interim Tower	\$461,300.00	\$40,300.00		\$40,300.00	

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
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$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
New tower	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$1,954,300.00	\$40,300.00	N/A	\$40,300.00	N/A
Total for all systems	\$14,220,680.93	\$11,657,964.91	N/A	\$3,828,239.98	N/A

Actual Information Description	File Name
Structural engineering tower load study for a documented tower with candelabra	Information not provided.
Serious tower reinforcement /modifications	Information not provided.

Tower Helicopter Lift	Information not provided.	
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
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	
Structural modifications		
	Component Description:	Interim tower structural work
	Amount:	\$30,000.00
New tower	Information not provided.	

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		\$15,333.75	
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
RF Exposure Measurements	\$21,050.00	\$20,000.00	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
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	Catalog	N/A	N/A
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
Project management of the transition	\$237,000.00	\$225,000.00	Very large scope project management.	\$15,333.75	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	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//
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	Catalog	N/A	N//
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//
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
Sub-total	\$521,175.00	\$544,130.00	N/A	\$15,333.75	N/A
Total for all systems	\$14,220,680.93	\$11,657,964.91	N/A	\$3,828,239.98	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
RF Exposure Measurements	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.	
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.	
Project management of the transition	Component Description:	RF Consulting /Project Management. Revised invoice with consultant name added pe request.
	Amount:	\$15,333.75
Comprehensive coverage verification via field study, if needed	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.	

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		\$7,200.00	
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	٦
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	N/A	1
Develop and air announcement of upcoming channel change	\$1,500.00	\$1,500.00	N/A	N/A	1
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	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	1
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	1
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	1
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	Catalog	N/A	1
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	٦
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	Catalog	N/A	٦
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	Catalog	N/A	١

Sub-total	\$902,981.00	\$902,376.00	N/A	\$7,200.00	1
Total for all systems	\$14,220,680.93	\$11,657,964.91	N/A	\$3,828,239.98	٦

Actual Information Description	File Name	
Illinois and Chicago Sales Tax	Information not provided.	
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	Component Description:	2nd partial payment for antenna shipping.
	Amount:	\$3,600.00
	Component Description:	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.
DTV Medical Facility Notification	Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$14,220,680.93	\$11,657,964.91	\$3,828,239.98

Reimbursem	entestanus	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 07/20/2020

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

Attachments