

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 22211 Service: DTV Call WFLD Channel: 31 (UHF)

Sign:

File **0000027829**

Number:

ID:

FRN: **0005795067** Date **04/22**

Submitted: /2021

Applicant Information

Applicant Name, Type, and Contact Information

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

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email	
[Confidential]				

Preparer Contact Information

Preparer 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 United States	+1 (202) 251- 7589	Dennis. Wallace@mswdtv.com

Broadcaster Information and Transition Plan

Question	Response
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

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

Primary Transmitter

Existing Transmitter Information

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 Transmitter

New Transmitter Costs

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 Transmitter

Other Transmitter Costs

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

	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

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Water Glycol System	Building Chilled Water System Connection. (ZonaTherm)
Remove Existing Main Transmitter	Remove existing main transmitter from Willis Tower
Site Survey and Drawings	Pre-installation survey of transmitter facility with drawings. See 190823 Quote Land Communications.
ThermoFlo Leibert system	ThermoFlo Leibert Installation
Additional Transmitter RF Components	Plumbing, RF and switch components. See quote 190725_Quotation 230209.2 WFLD. Addtnl Install Parts

Mask Filter	Mask filter with parts to implement VSWR & Arc Monitoring
Plumbing Demolition	Disconnect Piping for transmitter (Great Lakes)
Installation	Installation of transmitter. See estimate 190823 Quote Land Communications
Remote Control Wiring	Wire up existing remote control to new transmitter

Interim Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	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 Transmitter

Other Transmitter Costs

•	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	Yes
	Description	Install ConEd meter for electrical service an interim transmitter site
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 to support this interim transmitter?	No

Interim Transmitter

Other Transmitter Cost Not Listed

Name	Description

Transmitter Site Survey	Survey by transmitter vendor to plan installation
Second Mask filer	Second mask filter to allow operation on channel 31 (pre-repack)
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
Transmitter retuning	Retuning cost for transmitter from ch. 31 to ch. 24
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.

Antennas

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

Auxiliary Antenna

Existing Antenna Information

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	Class	Full Power
Manufacturer and Type	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

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 Antenna

New Antenna Costs

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_Willis Tower Repack Engineering Statement R4 07112017 page 10

Auxiliary Antenna

Other Antenna Costs

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?	Yes

Enter a list of RF channel numbers.

RF Channel Number	
29	
21	
24	

Auxiliary Antenna

Other Antenna Cost Not Listed

Name	Description
Aux Antenna Monthly Tower Rental Fees	American Tower aux antenna monthly tower rental fees.

Existing Antenna Information

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

Manufacturer	
Model	ATW14H3H- ETC2-31H
Year	1999

New Antenna Costs

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	Class	Full Power
Manufacturer and Types	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

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

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 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

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

Transmission ^{Sartion}	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Existing Transmission Line

Auxiliary Transmission Line

Line 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 Line Manufacturer and Type	Manufacturer	
	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

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

New Transmission Line

Auxiliary Transmission

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.

Auxiliary
Transmission Line

Other Transmission Line Expenses Not Listed

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 Transmission Line

Existing Transmission Line

on Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is 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 Transmission Line

New Transmission Line

New Transmission Line
Costs

Question	Response
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 will re-use as much as possible of the existing line.

Primary Transmission

Other Transmission Line Expenses Not Listed

Hime	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 Equipment And Rigging Costs

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

Primary Tower

Existing 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 Registration	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))	Longitude (NAD83)	087° 38' 10.2" W-
	Overall Structure Height	1729.97 fee
	Support Structure Height	1435.35 fee
	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
73228	WLS-FM	FM
74178	WKSC-FM	FM
70042	WLIT-FM	FM
48772	WPWR-TV	DTV
10802	WTTW	DTV
10801	WFMT	FM
51165	WGCI-FM	FM
22211	WFLD	DTV
71283	WCFS-FM	FM
73226	WLS-TV	DTV
47905	WMAQ-TV	DTV
9617	WBBM-TV	DTV
12498	WGBO-DT	DTV
10981	WCPX-TV	DTV
60539	WXFT-DT	DTV
6377	WTMX	FM
72115	WGN-TV	DTV

53971	WEBG	FM
32334	WJYS	DTV
9613	WBBM-FM	FM
71425	WWME-CD	DTV
28621	WJMK	FM

Other Types of Users

Users	
Two Way	
Microwave	
Willis Tower	

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

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

Tower Rigging Costs

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

Interim Tower

Other Tower Expenses Not Listed

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

Other Professional Services Expenses Not Listed

al	Şeryices 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

Other Expenses Not Listed

scription
5

Illinois and C	Chicago	Sales	Tax
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Estimated Sales tax on equipment.

Cost Information

Transmitters

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Justifi
Interim Transmitter THU9-24 EVO	\$3,562,833.46	\$2,971,679.58		\$2,726,795.97	
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,
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	Nı

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	\$36,026.45	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,
Other Electrical Service: Install ConEd meter for electrical service an interim transmitter site	\$27,227.00	\$27,227.00	Electrical service to install ConEd meter at interim transmitter site	\$0.00	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

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	\$21,382.82	
			(FOX).Aux. SiteSurvpdf		
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	
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	
Primary Transmitter THU9-40 EVO	\$4,252,733.97	\$3,692,634.97		\$2,300,891.05	
Remote Control Wiring	\$3,600.00	\$3,600.00	Wire up existing remote control to new transmitter. See attached vendor quote.	\$0.00	

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	Instal cos inclustal addit parts frei
Plumbing Demolition	\$13,220.00	\$13,220.00	Plumbing Demolition. Pipefitter Scope. Quote Attached.	N/A	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
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	\$11,468.00	N
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
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

Water Glycol System	\$75,750.00	\$75,750.00	ZonaTherm Quote attached. Water /Glycol System	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
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

ThermoFlo Leibert system	\$360,000.00	\$360,000.00	ThermoFlo Quote Attached. Leibert Units Installation at Willis Tower	N/A	N
Sub-total	\$7,815,567.43	\$6,664,314.55	N/A	\$5,027,687.02	N
Total for all systems	\$14,754,609.59	\$12,048,338.38	N/A	\$5,881,194.75	N,

Actual Information Description	File Name	
Monitoring Equipment	Component Description: Amount:	RF Signal Analyzer (monitoring equipment) \$8,395.00
	Component Description: Amount:	ASI/SDI monitoring equipment \$3,123.00

Offloading

Component Description: Partial payment for

off loading

transmitter to 97th. floor Willis bldg.

Amount: \$13,000.00

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:	Interconnect into
	Component Description:	
		RF plant including
		antenna. Final
		payment
	Amount:	\$347,896.80
	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
Transmitter retuning	Information not provided.	

Main and backup STL STL failover switch **Component Description:** Amount: \$3,896.74 **Component Description:** Partial payment for STL and GPS antenna install \$4,425.00 Amount: **Component Description:** IP link, coax, crimps, FCC license coordination Amount: \$24,922.29 **Component Description:** Integrated Microwave Technologies cables and clamps for STL \$3,005.01 Amount: **Component Description:** Coax, clamps, crimps, misc items for IP link Amount: \$2,782.42 Other -- Building Addition Size: 500.0 **Component Description:** Architectural Design Services for Hancock Building \$4,354.40 Amount: Architectural **Component Description: Design Services for** Hancock Building \$8,734.44 Amount:

Component Description: Architectural

Design Services for Hancock Building

Amount: \$9,647.50

Component Description: Architectural

Design Services for

Hancock Building

Amount: \$10,243.50

Component Description: Architectural

Design Services for Hancock Building

Amount: \$9,801.66

Component Description: Osborn Interim

Transmission

Facility
Construction
Drawings
/Professional
Services through 1

/31/19

Amount: \$6,206.20

Component Description: Architectural

Design Services for Hancock Building

\$1,275.00

Amount:

Component Description: Hancock

Transmission Space Alteration progress payment

Amount: \$96,890.90

Component Description: Partial payment for

general
construction
services at
Hancock site.

Amount: \$21,167.90

Component Description: General

construction services at Hancock site. Partial payment.

Amount: \$325,273.76

Component Description: Partial payment

general

construction services at Hancock Bldg. \$103,051,20

Amount: \$103,051.20

Component Description: Architectural

Design Services for Hancock Building. Please disregard amount shown in the invoice file

name.

Amount: \$7,610.25

Component Description: Pacific

Construction Hancock Transmission

Space

Amount: \$19,624.57

	Component Description: Amount:	Osborn Engineering Interim Site Construction Professional Services through July 26, 2019 \$19,850.00
Other Electrical Service: Install ConEd meter for electrical service an interim transmitter site	Component Description: Amount:	Electrical work to install ConEd meter at interim transmitter site \$27,227.00
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description: Amount:	Final 50% of interim transmitter plus shipping and tax \$471,747.97
	Component Description: Amount:	Partial payment for interim transmitter \$410,098.15
Transmitter Site Survey	Component Description: Amount:	Partial invoice for interim transmitter pre-install survey \$10,062.50
	Component Description: Amount:	Tax applied to site survey \$1,257.82
	Component Description: Amount:	Final 50% for Site Survey \$10,062.50

Second Mask filer	Information not provided.	
RF Components	Information not provided.	
Remote Control Wiring	Information not provided.	
Installation	Component Description: Amount:	50% of transmitter install and proof \$29,000.00
	Component Description: Amount:	Installation parts, shipping and tax \$72,427.45
	Component Description:	Installation parts and freight for transmitter
	Amount: Component Description:	\$39,861.82 50 percent down payment for transmitter
	Amount:	installation \$29,000.00
Plumbing Demolition	Information not provided.	
Mask Filter	Component Description: Amount:	Mask filter, monitoring, shipping \$166,519.27
Additional Transmitter RF Components	Component Description:	Wireless link. System would not allow me to include / in invoice number
	Amount:	\$11,468.00

Site Survey and Drawings		
	Component Description:	50% of site survey
		and drawing
		package
	Amount:	\$13,000.00
	Component Description:	50 percent down
		payment for
		transmitter site
		survey and drawing
		package
	Amount:	\$13,000.00
Remove Existing Main Transmitter	Information not provided.	
Water Glycol System	Information not provided.	
vator Glybor Gystem	information not provided.	
Other Building Addition		
Size: 1000.0	Component Description:	Willis Tower
		Primary
		Transmitter room
		construction
	Amount:	\$152,118.75
	Component Description:	Professional
	Compension 2 coorposition	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
		Ψ,300.00

Component Description: Progress payment

on primary

transmitter room.

Amount: \$59,502.00

Component Description: Architectural

Design Services for

Willis Tower Building

Amount: \$1,650.00

Component Description: Willis Tower

Primary

Transmitter room

Amount: \$284,861.00

Component Description: Progress payment

on primary

transmitter room

Amount: \$22,531.00

Component Description: Willis Tower

Primary

Transmitter Room.

Amount: \$78,812.25

Other Electrical Service:
Transmitter Electrical
Installation Costs Willis
Tower

3" Rigid Conduit and Wiring
(Cost per foot)

Information not provided.

Information not provided.

Switchgear - industrial 800 Information not provided. amp

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description: Amount:	30% down main transmitter \$371,850.30
	Component Description:	Final progress payment plus shipping and tax
	Amount:	\$114,269.90
	Component Description: Amount:	zeroed out N/A
	Component Description: Amount:	Progress payment on main transmitter \$32,317.60
	Component Description: Amount:	Down payment for main transmitter \$619,750.50
ThermoFlo Leibert system	Information not provided.	

Cost Information

Antennas

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
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	\$51,987.02
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
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-	\$289,500.00	\$321,741.00	Custom Three Station Stack Antenna designed for Willis	\$255,837.60
1000 kW), One station antenna , elliptically or circularly polarized			Tower Building West Pylon. This antenna will require special structural design. See quotes 190725_700427CMZ-1 WFLD FOX and 190725_900032CMZ WFLD FOX	
Auxiliary Antenna PHP- 24C	\$304,893.46	\$684,530.13		\$98,094.34
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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	sweep test of interim antenna at Willis Tower	\$6,400.00
UHF - High Power Top Mount Three Station broadband panel antenna elliptically or circularly polarized	\$0.00	\$0.00	N/A	N/A
Aux Antenna Monthly Tower Rental Fees	\$213,963.46	\$213,963.46	N/A	\$91,694.34
Sub-total	\$3,148,173.46	\$3,558,405.13	N/A	\$421,564.56
Total for all systems	\$14,754,609.59	\$12,048,338.38	N/A	\$5,881,194.75

Actual Information Description	File Name	
West Tower Stack Project	Component Description: Amount:	Osborn Engineering professional services 12/1/18-12 /31/18 \$6,906.76
	Component Description: Amount:	West Tower Stack work. See 190725_Willis Tower Repack Engineering Statement R4 07112017 page 12 \$7,978.39
	Component Description: Amount:	Osborn Engineering professional services 6/29/19-7 /26/19 \$4,242.57
	Component Description: Amount:	Osborn Engineering Professional Services 10/27/18- 11/30/18 \$15,176.40
	Component Description: Amount:	Osborn Engineering work on West Stack project. \$8,967.65

Component Description: Osborn

professional

services 7/27/19 - 8 /30/19 west stack

Amount: \$6,502.82

Component Description: Osborn

Engineering West

Stack work.

Amount: \$5,010.90

Component Description: Osborn

Engineering West

Stack project work

Amount: \$2,100.00

Component Description: West Tower Stack

work. See
190725_Willis
Tower Repack
Engineering
Statement R4
07112017 page 12

07 112017 page 12

Amount: \$9,171.44

Component Description: Osborn

Engineering professional

personnel 6/29/19-7

/26/19

Amount: \$1,575.00

Component Description: WFLD portion.

West Stack Project

consulting.

Amount: \$8,702.93

Component Description: West Tower Stack

work. See 190725_Willis Tower Repack Engineering Statement R4 07112017 page 12

Amount: \$1,934.07

Component Description: Osborn

Professional

Services 6/29/19-7

/26/19

Amount: N/A

Component Description: Osborn

Engineering professional

services 10/27/18-

11/30/18. Attachment

includes variance

cover letter.

Amount: N/A

Component Description: Willis Tower

Repack. See 190725_Willis Tower Repack Engineering Statement R4

Amount: \$9,171.44

Southwest Pole Decommissioning

Information not provided.

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
	Amount:	elbow complex \$4,942.80
Sweep test of existing antenna		
antenna	Component Description:	Partial payment for
		antenna sweep
	Amount:	\$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 or circularly polarized	Component Description:	Partial payment for antenna and associated parts
	Amount:	\$111,054.15
	Component Description:	2nd. Partial
		payment for
		antenna and parts.
		Includes change
		order which has
		been uploaded.
	Amount:	\$144,783.45
New combiner, cost per	Information not provided.	

Sweep test of existing antenna		
anoma	Component Description:	Antenna /Transmission line
		sweet test of WFLD
		interim antenna
		system at Willis
		Tower
	Amount:	\$6,400.00
UHF - High Power Top	Information not provided.	
Mount Three Station		
broadband panel antenna		
elliptically or circularly		
polarized		

Aux Antenna Monthly Tower Rental Fees

Component Description: Hancock tower

rental fees

December 2020

Amount: \$15,282.39

Component Description: Hancock tower

monthly rental fee

Amount: \$15,282.39

Component Description: March 2021

Hancock tower rental fees

Amount: \$15,282.39

Component Description: Jan 2021 Hancock

tower rental fees

Amount: \$15,282.39

Component Description: Hancock tower

monthly rental fee

Feb 2021

Amount: \$15,282.39

Component Description: November 2020

Hancock tower monthly rental fee

Amount: \$15,282.39

Cost Information

Transmission Line

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos
Primary Transmission Line	\$200,125.29	\$113,125.29		\$72,305.15	
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

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
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
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

5	*	^		.	.
Rigid	\$161,600.00	\$175,000.00	Custom	N/A	N/A
Transmission			transmission		
Line -			line		
copper, 6 1/8"			fabrication		
			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	\$397,401.82	\$323,801.82	N/A	\$82,981.68	N/A
Total for all systems	\$14,754,609.59	\$12,048,338.38	N/A	\$5,881,194.75	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
	Component Description.	
		735008, inner conductors for
		main transmission
	Amazonati	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
Rigid Transmission Line - copper, 7 3/16"	Information not provided.	
Transmission Line Layout	Information not provided.	
Installation Drawings		
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
	, moditi	ψ10,010.00
Transmission Line Layout	Information not provided.	
Rigid Transmission Line - copper, 6 1/8"	Information not provided.	

Cost Information

Tower Equipment and Rigging Costs

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos
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	\$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	\$14,754,609.59	\$12,048,338.38	N/A	\$5,881,194.75	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.

	ount: \$30,000.00
Complex Tower (includes, for example, those with candelabras and/or stacked	
Am	ount: \$30,000.00
	structural work
Structural modifications Col	mponent Description: Interim tower
New tower Info	rmation not provided.
Structural engineering tower load study for a documented tower with candelabra	rmation not provided.

Cost Information

Outside Professional Services

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual (
Outside Professional Services	\$521,175.00	\$544,130.00		\$204,659.61	
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.	\$30,500.00	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
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
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.	\$174,159.61	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	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
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	Catalog	N/A	N/A

Sub-total	\$521,175.00	\$544,130.00	N/A	\$204,659.61	N/A
Total for all systems	\$14,754,609.59	\$12,048,338.38	N/A	\$5,881,194.75	N/A

Actual Information Description	File Name	
Prepare and File FCC Progress Reports	Information not provided.	
Additional Field Engineering Service, 45 Days	Component Description:	Engineering planning and support for coax install.
	Amount:	\$18,000.00
	Component Description:	Engineering field work to rechannel transmitter and complete proof of performance.
	Amount:	\$12,500.00
	Component Description:	RF Consulting Services for WFLD.
	Amount:	\$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.	

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.	
Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	Component Description:	RF Consulting /Project Mgmt 1/5 /17 - 12/31/17
	Amount:	\$3,583.75
	Component Description:	Project Management 11/4 /19 - 11/5/19
	Amount:	\$1,496.85

Component Description: Project

Management /Professional

services through 11 /29/19. Primary transmitter drawings, floor plans, contract

admin.

Amount: \$6,994.36

Component Description: Project

Management 12/5

/18 - 12/6/18

Amount: \$682.54

Component Description: RF Consulting 1/1

/19 - 12/31/19

Amount: \$1,077.08

Component Description: Project

Management 1/1

/18 - 12/31/18

Amount: \$45,883.75

Component Description: RF Engineering 1/4

/18 - 12/31/18

Amount: \$594.03

Component Description: Project

Management,

engineering and architectural

support for interim facility through 11

/30/18

Amount: \$15,291.00

Component Description: Project

Management 1/4 /18 - 12/31/18

Amount: \$594.03

Component Description: Project

Management Jan

5, 2017 - Dec 31,

2017

Amount: \$3,583.75

Component Description: Project

Management 1/1

/19 - 12/31/19

Amount: \$1,077.08

Component Description: RF Consulting

/Project

Management.
Revised invoice
with consultant
name added per

request.

Amount: \$15,333.75

Component Description: Project

Management Jan

13-14, 2019 WFLD

Amount: \$824.78

Component Description: RF Consulting and

Project Mgmt 1/1 /19 -12/31/19

\$83,222.50

Amount: \$83,222.50

Component Description: Project

Management 1/1

/19 - 12/31/19

Amount: \$83,222.50

Comprehensive coverage verification via field study, if needed	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Perform engineering study for new channel assignment and antenna development	Information not provided.

Cost Information

Other Expenses

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actua Justi
Other Expenses	\$917,991.88	\$917,386.88		\$104,001.88	
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
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	N/A	١
Develop and air announcement of upcoming channel change	\$1,500.00	\$1,500.00	N/A	N/A	١
Equipment Storage	\$71,801.88	\$71,801.88	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	\$71,801.88	•

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.	\$32,200.00	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	١
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	Catalog	N/A	١
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	1
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	Catalog	N/A	١

Sub-total	\$917,991.88	\$917,386.88	N/A	\$104,001.88	1
Total for all systems	\$14,754,609.59	\$12,048,338.38	N/A	\$5,881,194.75	1

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		
	Component Description: Amount:	Main transmitter storage, delivery \$48,412.00
	Amount.	Ψ40,412.00
	Component Description:	3 months storage, delivery of WFLD interim transmitter
	Amount:	\$23,389.88

Equipment Delivery and		
Handling Charges	Component Description:	Partial payment
		for antenna
		shipping
	Amount:	\$3,600.00
	Component Description:	Delivery of
		transmitter
		equipment to
		100th floor, Willis
	Amount:	Tower \$25,000,00
	Amount.	\$25,000.00
	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.	
DTV Medical Facility Notification	Information not provided.	

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$14,754,609.59	\$12,048,338.38	\$5,881,194.75

Reimbursem	eAt Status	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

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.

- 1. The Authorized
 Person signing below
 certifies that he/she is
 authorized to submit
 this TV Broadcaster
 Relocation Fund
 Reimbursement Form
 on behalf of the
 above-named entity.
- 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

- 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).
- 5. 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 abovenamed applicant for the Authorization(s) specified above. Angelo Servedio SVP Controller

04/22/2021

Attachments