

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

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

ID:

Sign:

08/04

File **0000027829** 

Number:

FRN: **0005795067** Date

Submitted: /2020

# 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?	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 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
		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

# Primary Transmitter

#### **Other Transmitter Cost Not Listed**

Name	Description
Remove Existing Main Transmitter	Remove existing main transmitter from Willis Tower
Remote Control Wiring	Wire up existing remote control to new transmitter
Installation	Installation of transmitter. See estimate 190823 Quote Land Communications
Water Glycol System	Building Chilled Water System Connection. (ZonaTherm)
Site Survey and Drawings	Pre-installation survey of transmitter facility with drawings. See 190823 Quote Land Communications.

Plumbing Demolition	Disconnect Piping for transmitter (Great Lakes)
ThermoFlo Leibert system	ThermoFlo Leibert Installation
Mask Filter	Mask filter with parts to implement VSWR & Arc Monitoring
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
	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	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	500.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No

#### Interim Transmitter

#### **Other Transmitter Cost Not Listed**

Name	Description
RF Components	Additional transmitter components required to interconnect to combiner
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
Main and backup STL	Studio to Transmitter Link. Main link is fiber and backup is radio
Offloading	Offloading of transmitter and heat exchanger on ground and move to 97th floor.
Combiner connection	Facilitation by antenna/combiner owner (ATC) to connect into their system.
Monitoring Equipment	Equipment needed to ensure signal and RF 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 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?	No

# Enter a list of RF channel numbers.

RF Channel Number
21
24
29

#### Auxiliary Antenna

#### **Other Antenna Cost Not Listed**

Information not provided.

# **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 Manufacturer and Type	Class	Full Power
	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
Types	Mounting	Top Mount
	Antenna position in stack	Тор
Manufacturer and	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?	chase of the 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 <sup>Sartion</sup>	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 S	Other Segment Length	N/A
	Number of parallel runs	2
	Length	400 feet per
	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

Haime	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 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	Do you have a tower registration number?	Yes
Registration	ASR Number	1032959
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	41° 52' 44.1" N-
	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
10981	WCPX-TV	DTV
51165	WGCI-FM	FM
12498	WGBO-DT	DTV
72115	WGN-TV	DTV
60539	WXFT-DT	DTV
9617	WBBM-TV	DTV
32334	WJYS	DTV
28621	WJMK	FM
47905	WMAQ-TV	DTV
9613	WBBM-FM	FM
71425	WWME-CD	DTV
22211	WFLD	DTV
73226	WLS-TV	DTV
71283	WCFS-FM	FM
10801	WFMT	FM
10802	WTTW	DTV
74178	WKSC-FM	FM

73228	WLS-FM	FM
53971	WEBG	FM
6377	WTMX	FM
70042	WLIT-FM	FM
48772	WPWR-TV	DTV

# 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.

#### **Transmitters**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Justifi
Interim Transmitter THU9-24 EVO	\$3,535,606.46	\$2,872,677.77		\$2,227,343.29	
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 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,

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,
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,
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,
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,

Offloading	\$30,160.00	\$30,160.00	Offload transmitter and heat exchanger on ground and move to 97th. floor.	\$26,000.00	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
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
Mask Filter	\$313,448.00	\$313,448.00	Mask filter with Parts to Implement VSWR & Arc Monitoring. See Rohde and Schwarz quote #358694.0	\$166,519.27	N
ThermoFlo Leibert system	\$360,000.00	\$360,000.00	ThermoFlo Quote Attached. Leibert Units Installation at Willis Tower	N/A	N
Plumbing Demolition	\$13,220.00	\$13,220.00	Plumbing Demolition. Pipefitter Scope. Quote Attached.	N/A	N
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

Water Glycol System	\$75,750.00	\$75,750.00	ZonaTherm Quote attached. Water /Glycol System	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
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
Remote Control Wiring	\$3,600.00	\$3,600.00	Wire up existing remote control to new transmitter. See attached vendor quote.	\$0.00	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

Total for all systems	\$14,311,940.23	\$11,749,224.21	N/A	\$4,176,136.78	N
Sub-total	\$7,676,051.16	\$6,453,023.47	N/A	\$3,762,006.27	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,
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
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,

Actual Information	
Description	File Name

Combiner connection		
	Component Description:	Interconnect into RF plant including antenna. Milestone
	Amount:	payment 2. \$513,275.00
	Component Description:	Interconnect into RF plant including antenna. Milestone
	Amount:	payment 1. \$256,637.50
	Component Description:	Interconnect into RF plant including antenna. Final
	Amount:	payment \$347,896.80
Transmitter Site Survey		
	Component Description:	Partial invoice for interim transmitter pre-install survey
	Amount:	\$10,062.50
	Component Description:	Tax applied to site survey
	Amount:	\$1,257.82
	Component Description:	Final 50% for Site
	Amount:	Survey \$10,062.50

Monitoring Equipment		
	Component Description:	ASI/SDI monitoring
	Amazinti	equipment
	Amount:	\$3,123.00
	Component Description:	RF Signal Analyzer (monitoring equipment)
	Amount:	\$8,395.00
Main and backup STL		
	Component Description:	Partial payment for STL and GPS antenna install
	Amount:	\$4,425.00
	Component Description:	STL failover switch
	Amount:	\$3,896.74
	Component Description:	Integrated Microwave
		Technologies cables and clamps for STL
	Amount:	\$3,005.01
Transmitter retuning	Information not provided.	
Second Mask filer	Information not provided.	
RF Components	Information not provided.	
Other Building Addition Size: 500.0	Component Description:	Architectural
		Design Services for Hancock Building. Please disregard
		amount shown in
		amount shown in the invoice file name.

Component Description: Architectural

Design Services for Hancock Building

**Amount:** \$4,354.40

Component Description: Architectural

Design Services for

Hancock Building

**Amount:** \$8,734.44

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

Amount:

**Component Description:** 

Design Services for Hancock Building

\$9,801.66

Osborn Interim Transmission

Facility

Construction
Drawings
/Professional
Services through 1

/31/19

**Amount:** \$6,206.20

Component Description: Architectural

Design Services for Hancock Building

**Amount:** \$1,275.00

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.

**Amount:** \$103,051.20

Component Description: Pacific

Construction
Hancock
Transmission

Space

**Amount:** \$19,624.57

Component Description: Osborn

Engineering Interim
Site Construction
Professional
Services through
July 26, 2019

**Amount:** \$19,850.00

( )ttlnading		
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
	parameter parame	off loading
		transmitter to 97th.
		floor Willis bldg.
	Amount:	\$13,000.00
UHF - Liquid Cooled Solid		
	Component Description:	Partial payment for
	Component Description:	Partial payment for interim transmitter
	Component Description: Amount:	
State Transmitter 35 - 50 kW		interim transmitter
State Transmitter 35 - 50 kW  Additional Transmitter RF	Amount:	interim transmitter
State Transmitter 35 - 50 kW  Additional Transmitter RF  Components	Amount:  Information not provided.	interim transmitter \$410,098.15
State Transmitter 35 - 50 kW  Additional Transmitter RF  Components	Amount:	interim transmitter \$410,098.15 Mask filter,
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW  Additional Transmitter RF Components  Mask Filter	Amount:  Information not provided.  Component Description:	interim transmitter \$410,098.15 Mask filter, monitoring, shipping
State Transmitter 35 - 50 kW  Additional Transmitter RF  Components	Amount:  Information not provided.	interim transmitter \$410,098.15 Mask filter,

Plumbing Demolition	Information not provided.	
Site Survey and Drawings	Component Description:	50 percent down payment for transmitter site survey and drawing package
	Amount:	\$13,000.00
Water Glycol System	Information not provided.	
Installation	Component Description:  Amount:	50 percent down payment for transmitter installation \$29,000.00
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
Remote Control Wiring	Information not provided.	
Remove Existing Main Transmitter	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. \$174.856.00

**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 for main transmitter \$619,750.50
Other Electrical Service: Transmitter Electrical Installation Costs Willis Tower	Information not provided.	
50 Ton system	Information not provided.	

#### **Antennas**

Description  Primary Antenna TFU-14ETT/VP-R C210	Predetermined Cost Estimate \$2,843,280.00	Estimated Cost \$2,873,875.00	Estimated Cost Justification	Actual Cost \$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	\$14,311,940.23	\$11,749,224.21	N/A	\$4,176,136.7

<b>Actual Information</b>	
Description	File Name

West Tower Stack Project

**Component Description:** Osborn **Engineering West** Stack project work \$2,100.00 **Amount: Component Description:** Osborn Engineering professional personnel 6/29/19-7 /26/19 Amount: \$1,575.00 **Component Description:** Osborn Engineering professional services 12/1/18-12 /31/18 Amount: \$6,906.76 **Component Description:** West Tower Stack work. See 190725\_Willis **Tower Repack** Engineering Statement R4 07112017 page 12 **Amount:** \$7,978.39 **Component Description:** Willis Tower Repack. See 190725\_Willis **Tower Repack** Engineering

Statement R4 \$9,171.44

Amount:

**Component Description:** Osborn

Professional

Services 6/29/19-7

/26/19

N/A Amount:

Component Description: West Tower Stack

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

**Amount:** \$9,171.44

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 work on West Stack

project.

**Amount:** \$8,967.65

Component Description: West Tower Stack

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

**Amount:** \$1,934.07

Component Description: Osborn

Engineering Professional

Services 10/27/18-

11/30/18

**Amount:** \$15,176.40

**Component Description:** Osborn Engineering professional services 6/29/19-7 /26/19 \$4,242.57 Amount: **Component Description:** Osborn Engineering professional services 10/27/18-11/30/18. Attachment includes variance cover letter. Amount: N/A Information not provided. Southwest Pole Decommissioning Elbow complex, single channel, at antenna input, **Component Description:** Partial payment for per 6 1/8. feedline (if needed) elbow complex Amount: \$4,942.80

**Component Description:** 

Amount:

Partial payment for

Elbows

\$4,942.80

Mount (200-1000 kW), One station antenna, elliptically or circularly polarized	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
Sweep test of existing antenna		
antenna	Component Description:	2nd Partial payment for antenna sweep
	Amount:	\$2,880.00
	Component Description:	Partial payment for antenna sweep
	Amount:	\$2,880.00
New combiner, cost per channel (without antenna)	Information not provided.	
UHF - High Power Top Mount Three Station broadband panel antenna elliptically or circularly polarized	Information not provided.	

### **Transmission Line**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos
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	\$87,000.00	\$215,000.00	Custom	N/A	N/
Transmission			Transmission		
Line -			line fabrication		
copper, 7 3 /16"					
/10			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.		
Auxiliary Transmission	\$197,276.53	\$210,676.53		\$10,676.53	
Line					
Transmission	\$10,676.53	\$10,676.53	Transmission	\$10,676.53	N/
Line runs,			line runs,		
elbows,			elbows,		
			connectors		
			COMMECTORS		
connectors  Transmission	\$25,000.00	\$25,000.00	Develop	N/A	N/
connectors	\$25,000.00	\$25,000.00	Develop transmission	N/A	N/
connectors  Transmission	\$25,000.00	\$25,000.00	Develop transmission line layout	N/A	N/
connectors  Transmission	\$25,000.00	\$25,000.00	Develop transmission line layout and	N/A	N/
connectors  Transmission	\$25,000.00	\$25,000.00	Develop transmission line layout and installation	N/A	N/
connectors  Transmission	\$25,000.00	\$25,000.00	Develop transmission line layout and installation drawings.	N/A	N/.
connectors  Transmission	\$25,000.00	\$25,000.00	Develop transmission line layout and installation	N/A	N/

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	\$329,953.07	\$471,353.07	N/A	\$21,353.07	N/A
Total for all systems	\$14,311,940.23	\$11,749,224.21	N/A	\$4,176,136.78	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:  Amount:	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**

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 Tower.	\$30,000.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$0.00	N/A	N/A	N/A
Tower mapping and structural study	\$10,300.00	\$10,300.00	Interim structure mapping and structural analysis. See quote 190823 Quote American Tower.	\$10,300.00	N/A
Sub-total	\$1,954,300.00	\$40,300.00	N/A	\$40,300.00	N/A
Total for all systems	\$14,311,940.23	\$11,749,224.21	N/A	\$4,176,136.78	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.

#### **Outside Professional Services**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual (
Outside Professional Services	\$521,175.00	\$544,130.00		\$15,333.75	
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/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
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
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

A.,, E	<b>#0.005.00</b>	<b>#0.050.00</b>	0.11	<b>N</b> 1/A	<b>N.</b> 1.4.0
Attorney Fees - Prepare and	\$2,365.00	\$2,250.00	Catalog	N/A	N/A
File FCC Form					
2100 (main),					
License to					
Cover					
Application					
Perform	\$7,360.00	\$7,000.00	Catalog	N/A	N/A
engineering					
study for new					
channel					
assignment					
and antenna					
development					
Sub-total	\$521,175.00	\$544,130.00	N/A	\$15,333.75	N/A
Total for all	\$14,311,940.23	\$11,749,224.21	N/A	\$4,176,136.78	N/A
systems					

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

#### Other Expenses

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actua Justi
Other Expenses	\$902,981.00	\$902,376.00		\$7,200.00	
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	r
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	٢
Non-zoning permits	\$19,000.00	\$19,000.00	Building Permits, Electrical, and Mechanicals. Willis Tower Building City of Chicago	N/A	٢
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	\$335.00	\$325.00	N/A	N/A	
Fees - Form 2100 license to cover application					
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	Catalog	N/A	
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	Catalog	N/A	
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	
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	N/A	
Develop and air announcement of upcoming channel change	\$1,500.00	\$1,500.00	N/A	N/A	

Equipment	\$56,791.00	\$56,791.00	Transmitter	N/A	1
Storage			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		
Sub-total	\$902,981.00	\$902,376.00	N/A	\$7,200.00	١
Total for all	\$14,311,940.23	\$11,749,224.21	N/A	\$4,176,136.78	1

Actual Information Description	File Name	
Equipment Delivery and Handling Charges	Component Description:  Amount:	2nd partial payment for antenna shipping. \$3,600.00
	Component Description: Amount:	Partial payment for antenna shipping \$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.
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.

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$14,311,940.23	\$11,749,224.21	\$4,176,136.78

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

08/04/2020

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).

- 1. 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.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.
- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Angelo Servedio SVP Controller

08/04/2020

#### **Attachments**