



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **71428** | Service: **DTV** | Call **WCIU-TV** | Channel: **23 (UHF)** |
 ID: | Sign:
 File **0000028286**
 Number:
 FRN: **0009562265** | Date **02/19**
 Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WCIU-TV LIMITED PARTNERSHIP	Norman Shapiro	+1 (312) 705-2600	NSHAPIRO@wciu.com	Limited Partnership
Doing Business As: WCIU-TV LIMITED PARTNERSHIP	26 NORTH HALSTED STREET CHICAGO, IL 60661 United States			

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
The Preparer is same as the reimbursement contact.			

Broadcaster Information and Transition Plan

Question	Response
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<p>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.</p>	<p>Yes</p>
<p>Briefly describe transition plan</p>	<p>WCIU broadcasts from Willis Tower in Chicago, IL. WCIU plans operate on the Aux antenna and transmitter while the Main antenna and transmitter are replaced. Once replaced, the Aux antenna and transmitter will be replaced.</p>

Transmitters

Section	Question	Response
<p>Transmitter Related Expenses</p>	<p>Do you have transmitter related expenses?</p>	<p>Yes</p>

**Auxiliary
Transmitter****Add Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup and Maintenance
	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 and Type	Manufacturer	
	Model	TDU2 8K00LV
	Year	2006
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	8 kW

**Auxiliary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	THU9evo-36
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	9.8 kW
	Justification for New Transmitter	The current mask filter is channel-specific and must be replaced. The current transmitter is no longer supported by the manufacturer and as a result, is unable to be returned.

**Auxiliary
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	4 inches
	Length	200.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	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 leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Transmitter Installation	Willis Tower has unique labor requirements. Standard transmitter installation practices are not allowed due to labor agreements. Only building electrical and plumbing contractors may perform any electric or plumbing work related to the installation.
State and City Taxes	State and city taxes are required for equipment that is purchased, but not services.

Structural Analysis	WCIU's transmission facility is located on floor 101 of Willis Tower. Willis Tower requires a detailed analysis of all equipment loads with respect to the structural aspects of the building.
Structural Modifications	As a result of the Structural Analysis, modifications may be required.

**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 and Type	Manufacturer	
	Model	CTT-U- CXIC2R
	Year	2009
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 kW

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	THU9evo-36
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	55 kW
	Justification for New Transmitter	The current mask filter that is channel-specific and must be replaced. The current transmitter is no longer supported by the manufacturer and as a result, is unable to be retuned. The cost of a replacement IOT exceeds the cost of a solid state.

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
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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	4 inches
	Length	300.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
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Transmitter Installation	Willis Tower has unique labor requirements. Standard transmitter installation practices are not allowed due to labor agreements. Only building electrical and plumbing contractors may perform any electric or plumbing work related to the installation.
State and City Taxes	State and city taxes are required for equipment that is purchased, but not services.
Structural Analysis	WCIU's transmission facility is located on floor 101 of Willis Tower. Willis Tower requires a detailed analysis of all equipment loads with respect to the structural aspects of the building.
Structural Modifications	As a result of the Structural Analysis, modifications may be required.

Antennas

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

**Auxiliary
Antenna****Add Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Auxiliary (Backup)
	Description of Use	Willis Tower NE Master AUX Antenna
	Ownership	Leased
	Owner	BRE Broadcast, LLC
	Site	N/A
	Is this antenna currently shared with any other stations?	Yes
	Is this 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	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	8

Number of Panels	24
Design power capacity in use	100.0 %
Lower Limit	470.00 MHz
Upper Limit	699.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	2500.0 kW
Manufacturer	RFS
Model	PHP24C
Year	1999

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

Facility ID	Call Sign
48772	WPWR-TV
10802	WTTW
22211	WFLD
47905	WMAQ-TV
70119	WSNS-TV
71428	WCIU-TV
72115	WGN-TV
73226	WLS-TV

Auxiliary Antenna

Adjustment to Existing Antenna

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

**Auxiliary
Antenna**

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	7
	Frequencies of channels supported	Upper and lower frequency
	Frequency	470.0 MHz - 610.0 MHz

**Auxiliary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

**Primary
Antenna**

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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	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)	550.0 kW

Manufacturer	
Model	TFU-10DSC /VP-R CT170
Year	2009

**Primary
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	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)	503.0 kW
Manufacturer		

Model	TFU-10DSC /VP-R CT170
Year	2019
Justification for New Antenna	The current WCIU main antenna is a slot antenna designed for channel 27. An equivalent replacement antenna is being proposed for channel 23.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	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?	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?	No

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

**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
State and City Taxes	State and city taxes are required for equipment that is purchased, but not services.

Transmission Line	Section	Question	Response
	Transmission Line Related Expenses		Do you have transmission line related expenses?

Primary Transmission Line
Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Other
	Other Segment Length	10 feet
	Number of parallel runs	1
	Length	270 feet per run

Primary Transmission Line **Other Transmission Line Expenses Not Listed**
 Information not provided.

Auxiliary Transmission Line **Add Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	Backup and Maintenance
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmission currently shared with any other stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Andrew
	Type	Flexible Air
	Diameter	5 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	80 feet per run

Auxiliary Transmission Line **Other Transmission Line Expenses Not Listed**

Name	Description
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Willis AUX Antenna

Due to the change in location of the Willis AUX combiner room, it is estimated that we will need to add approx. 40' of line to the existing line to reach the new combiner room.

Tower Equipment And Rigging Costs

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

Auxiliary Tower

Add Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Backup and Maintenance
	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
	ASR Number	1032960
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 52' 44.0" N-
	Longitude (NAD83)	087° 38' 08.0" W-
	Overall Structure Height	1722.09 feet
	Support Structure Height	1435.35 feet

Ground Elevation Above Mean Sea Level (AMSL)	595.14 feet
Structure Type	BMAST - Building with Mast
Tower Owner	233 Broadcast, LLC
Date Constructed	09/30/2012

**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
28621	WBMX	FM
9613	WBBM-FM	FM
47905	WMAQ-TV	DTV
32334	WJYS	DTV
10802	WTTW	DTV
51165	WGCI-FM	FM
48772	WPWR-TV	DTV
6377	WTMX	FM
71283	WCFS-FM	FM
73226	WLS-TV	DTV
10981	WCPX-TV	DTV
22211	WFLD	DTV
53971	WEBG	FM
72115	WGN-TV	DTV
10801	WFMT	FM
74178	WKSC-FM	FM

73228	WLS-FM	FM
70119	WSNS-TV	DTV
70042	WLIT-FM	FM
9617	WBBM-TV	DTV

Other Types of Users

Users
FX FM Services
LD TV Services
LM Land Mobile

Auxiliary Tower

Tower Modification Costs

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

Auxiliary Tower

Tower Rigging Costs

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

Auxiliary Tower

Other Tower Expenses Not Listed

Information not provided.

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?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	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 feet
	Support Structure Height	1435.35 feet
	Ground Elevation Above Mean Sea Level (AMSL)	595.14 feet
	Structure Type	BTWR - Building with Tower

Tower Owner	233 Broadcast, LLC
Date Constructed	01/01/2002

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

Facility ID	Call Sign	Service
48772	WPWR-TV	DTV
9617	WBBM-TV	DTV
72115	WGN-TV	DTV
71283	WCFS-FM	FM
70119	WSNS-TV	DTV
28621	WBMX	FM
73228	WLS-FM	FM
71425	WWME-CD	DTV
47905	WMAQ-TV	DTV
70042	WLIT-FM	FM
10802	WTTW	DTV
10801	WFMT	FM
22211	WFLD	DTV
168662	WMEU-CD	DTV
6377	WTMX	FM
66978	WEDE-CD	DTV
9613	WBBM-FM	FM

Other Types of Users

Users

LM Land Mobile

FX FM Services

LD TV Services

**Primary
Tower**

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor 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?	No

**Primary
Tower**

Other Tower Expenses Not Listed

Information not provided.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	No
	Number of Hours	N/A
	Explanation	N/A
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
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	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**
Information not provided.

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	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	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?	No
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	No
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Combiner Room Construction	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$90,000 for the Combiner Room Construction for the EAST Tower AUX antenna. WCIU's portion, \$12,857.14
Cylinder Entry Port Resoration	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$150,000 for the Cylinder Entry Port Restoration for the EAST Tower AUX antenna. WCIU's portion, \$25,000.
East Pole Material Disposal	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$80,000 for the East Pole Material Disposal for the EAST Tower AUX antenna. WCIU's portion, \$13,333.33.
Equipment Storage	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$2,000 for the Equipment Storage for the EAST Tower AUX antenna. WCIU's portion, \$333.33.
Transmission Line Installation	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$125,000 for the Transmission Line Installation of the EAST Tower AUX antenna. WCIU's portion, \$20,833.
Transmission Line Removal	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$250,000 for the Transmission Line Removal of the EAST Tower AUX antenna. WCIU's portion, \$41,666.67.
RF Safety Coordination	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$100,000 for the RF Safety Coordination of the EAST Tower AUX antenna. WCIU's portion, \$16,666.67.
Outside Project Management	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$95,000 for the Outside Project Management of the EAST Tower AUX antenna. WCIU's portion, \$15,833.

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter THU9evo-36	\$2,076,385.54	\$1,573,006.04		\$113,368.40	
Transmitter Installation	<i>\$30,188.00</i>	\$30,188.00	Willis Tower requires union labor for all electric and cooling connections. This is a general allowance to cover the additional labor fees for union labor to perform the transmitter installation and building water connections.	\$30,168.00	N/A

Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$83,200.40	This category includes a consolidated total for Primary Transmitter and Auxiliary Transmitter Switchgear-industrial 800 amp, 4" Rigid Conduit and Wiring. The estimates for this totaled \$120,600. Actual was \$83,200.40.
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,289,920.50	N/A	\$0.00	N/A
State and City Taxes	\$125,297.54	\$125,297.54	State and city taxes are required for equipment that is purchased, but not services. State tax is 6.25% and Chicago is an additional 4%, 10.25% total.	N/A	N/A
10 Ton system	\$38,900.00	\$37,000.00	N/A	N/A	N/A

4" Rigid Conduit and Wiring (Cost per foot)	\$30,300.00	\$28,800.00	N/A	\$0.00	This category has been consolidated to Primary Transmitter Switchgear-industrial 800 amp.
Structural Analysis	<i>\$5,500.00</i>	\$5,500.00	Willis Tower requires loading studies for equipment that exceeds normal tenant office loads, such as broadcast equipment. Actual costs to be determined once final equipment selection has been made.	N/A	N/A

Structural Modifications	<i>\$20,000.00</i>	\$20,000.00	Willis Tower requires loading studies for heavy equipment that is installed in the building. As a result, it is anticipated that additional reinforcement will be required. Actual costs to be determined once final equipment selection has been made.	N/A	N/A
Auxiliary Transmitter THU9evo-36	\$618,122.45	\$404,419.93		\$0.00	
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$0.00	This category has been consolidated to Primary Transmitter Switchgear-industrial 800 amp.
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$283,697.48	N/A	\$0.00	N/A

Structural Modifications	\$12,500.00	\$12,500.00	Willis Tower requires loading studies for heavy equipment that is installed in the building. As a result, it is anticipated that additional reinforcement will be required. Actual costs to be determined once final equipment selection has been made.	N/A	N/A
State and City Taxes	\$28,222.45	\$28,222.45	State and city taxes are required for equipment that is purchased, but not services.	N/A	N/A
4" Rigid Conduit and Wiring (Cost per foot)	\$20,200.00	\$19,200.00	N/A	\$0.00	This category has been consolidated to Primary Transmitter Switchgear-industrial 800 amp.

Transmitter Installation	<i>\$20,000.00</i>	\$20,000.00	Willis Tower requires union labor for all electric and cooling connections. This is a general allowance to cover the additional labor fees for union labor to perform the transmitter installation and building water connections.	N/A	N/A
Structural Analysis	<i>\$4,500.00</i>	\$4,500.00	Willis Tower requires loading studies for equipment that exceeds normal tenant office loads, such as broadcast equipment. Actual costs to be determined once final equipment selection has been made.	N/A	N/A
Sub-total	\$2,694,507.99	\$1,977,425.97	N/A	\$113,368.40	N/A
Total for all systems	\$4,638,191.85	\$2,996,099.02	N/A	\$207,700.20	N/A

Components

Actual Information Description	File Name
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Transmitter Installation	<p>Component Description: WCIU Main and Aux transmitter manifold and condensor water piping for heat exchangers</p> <p>Amount: \$11,917.40</p> <p>Component Description: WCIU Main and Aux transmitter manifold and condensor water piping for heat exchangers</p> <p>Amount: \$9,750.60</p> <p>Component Description: WCIU Main and Aux condensor valve installation</p> <p>Amount: \$8,500.00</p>
Switchgear - industrial 800 amp	<p>Component Description: Final Invoice for WCIU Main and Aux Transmitter electrical</p> <p>Amount: \$4,160.02</p> <p>Component Description: 95% Invoice for WCIU Main and Aux Transmitter electrical.</p> <p>Amount: \$79,040.38</p>

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	<p>Component Description: This invoice is for the 25% Initial down payment of the Main transmitter</p> <p>Amount: \$305,384.25</p>
	<p>Component Description: 50% Initial downpayment for WCIU Main transmitter installation and proof</p> <p>Amount: \$25,000.00</p>
	<p>Component Description: Final invoice for WCIU Main transmitter installation and proof</p> <p>Amount: \$25,000.00</p>
	<p>Component Description: This invoice is for the 25% Initial down payment for the Main transmitter.</p> <p>Amount: \$305,384.25</p>
State and City Taxes	Information not provided.
10 Ton system	Information not provided.
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Structural Analysis	Information not provided.
Structural Modifications	Information not provided.
Switchgear - industrial 800 amp	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	Component Description: Amount:	Initial 25% Down payment for the Aux transmitter. \$68,835.25
	Component Description: Amount:	Final Invoice WCIU Aux transmitter installation and proof \$10,000.00
	Component Description: Amount:	50% Initial downpayment for WCIU Aux transmitter installation and proof \$10,000.00
Structural Modifications	Information not provided.	
State and City Taxes	Information not provided.	
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transmitter Installation	Information not provided.	
Structural Analysis	Information not provided.	

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna TFU-10DSC /VP-R CT170	\$185,705.06	\$185,445.06		\$83,233.95	
UHF - High Power, Side Mount, basic slot antenna, 503 kW input, directional,, elliptically or circularly polarized	<i>\$164,264.00</i>	\$164,264.00	This is the cost of the current licensed antenna, but on channel 23.	\$82,138.95	The actual cost exceeds the allocated amount. WCIU's pre and post repack antenna utilize elliptical polarization. In addition, WCIU broadcasts from the Willis Tower and has specialized mounting and elbow complex requirements.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	\$0.00	WCIU elected not to do this since the installation options were limited.

State and City Taxes	\$16,181.06	\$16,181.06	State and city taxes are required for equipment that is purchased, but not services.	\$1,095.00	N/A
Auxiliary Antenna PHP24C	\$90,930.00	\$74,042.86		\$0.00	
New combiner, cost per channel (without antenna)	\$84,200.00	\$67,642.86	N/A	\$0.00	Original estimated costs were provided to tenants by Willis Tower. Actual costs have slightly exceeded the estimated costs. In addition, the estimates did not include taxes.
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Sub-total	\$276,635.06	\$259,487.92	N/A	\$83,233.95	N/A
Total for all systems	\$4,638,191.85	\$2,996,099.02	N/A	\$207,700.20	N/A

Components

Actual Information Description	File Name
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<p>UHF - High Power, Side Mount, basic slot antenna, 503 kW input, directional,, elliptically or circularly polarized</p>	<p>Component Description: WCIU Main antenna 45% initial invoice. Amount: \$82,138.95</p> <p>Component Description: WCIU Main antenna mounts Amount: \$12,085.10</p>
<p>Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)</p>	<p>Information not provided.</p>
<p>State and City Taxes</p>	<p>Component Description: WCIU Main antenna Sales tax Invoice Amount: \$10,958.36</p> <p>Component Description: WCIU Main antenna mounts- Sales Tax invoice Amount: \$1,095.00</p>

New combiner, cost per channel (without antenna)	<p>Component Description: Willis Tower WCIU Aux antenna combiner-taxes Invoice</p> <p>Amount: \$2,387.20</p>
	<p>Component Description: Willis Tower WCIU Aux Channel combiner Invoice</p> <p>Amount: \$50,852.90</p>
	<p>Component Description: Willis Tower WCIU Aux antenna combiner Invoice</p> <p>Amount: \$13,316.67</p>
Sweep test of existing antenna	Information not provided.

Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$0.00	\$0.00		\$0.00	
Auxiliary Transmission Line	\$8,000.00	\$8,000.00		\$5,847.85	
Willis AUX Antenna	<i>\$8,000.00</i>	\$8,000.00	Due to the relocation of the Willis Tower AUX antenna combiner room, WCIU is required to extend the existing 5" flex line 80' from the old combiner room to the new combiner room. (80'x\$100 /ft)	\$5,847.85	N/A
Sub-total	\$8,000.00	\$8,000.00	N/A	\$5,847.85	N/A
Total for all systems	\$4,638,191.85	\$2,996,099.02	N/A	\$207,700.20	N/A

Components

Actual Information Description	File Name
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Willis AUX Antenna

Component Description: WCIU Aux line
shipping invoice
Amount: \$1,887.85

Component Description: Willis Tower
WCIU AUX
antenna
connections
Invoice
Amount: \$150.00

Component Description: WCIU Aux line
invoice
Amount: \$3,960.00

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Auxiliary Tower BMAST	\$791,600.00	\$325,001.33		\$0.00	
Structural engineering tower load study for well documented tower	\$12,600.00	\$16,668.00	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$100,000 for the East Pole Decommissioning of the EAST Tower AUX antenna. WCIU's portion, \$16,666.67	\$0.00	N/A
Tower Helicopter Lift	<i>\$200,000.00</i>	\$200,000.00	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$600,000 for the NE Decommission Lift of the EAST Tower AUX antenna. WCIU's portion, \$200,000.	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$75,000.00	N/A	N/A	N/A

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$33,333.33	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$200,000 for the East Pole Decommission Prep Work of the EAST Tower AUX antenna. WCIU's portion, \$33,333.33.	N/A	N/A
Primary Tower BTWR	\$605,300.00	\$172,500.00		\$0.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$85,000.00	N/A	\$0.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$12,500.00	N/A	\$0.00	The original estimate were provided tenants Willis Tower Actual cost have slightly exceeded their estimate due to unforeseen structural requirements by the City of Chicago
Minor tower reinforcement /modifications	\$158,000.00	\$75,000.00	N/A	N/A	N/A

Sub-total	\$1,396,900.00	\$497,501.33	N/A	\$0.00	N/A
Total for all systems	\$4,638,191.85	\$2,996,099.02	N/A	\$207,700.20	N/A

Components

Actual Information	
Description	File Name
Structural engineering tower load study for well documented tower	<p>Component Description: Willis Tower Aux antenna Structural related costs Invoice</p> <p>Amount: \$1,779.17</p>
Tower Helicopter Lift	Information not provided.
Minor tower reinforcement /modifications	Information not provided.
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	<p>Component Description: Willis Tower WCIU Main antenna installation Invoice</p> <p>Amount: \$58.50</p> <p>Component Description: Willis Tower Main tower antenna demo and preparation Invoice</p> <p>Amount: \$32,520.58</p>

<p>Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study</p>	<p>Component Description: Willis Tower WCIU Main antenna structural and inspections Invoice</p> <p>Amount: \$16,822.99</p> <p>Component Description: Willis Tower WCIU Main tower documentation for antenna Invoice</p> <p>Amount: \$2,500.00</p>
<p>Minor tower reinforcement /modifications</p>	<p>Information not provided.</p>

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$48,545.00	\$40,645.00		\$0.00	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,210.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,580.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,105.00	N/A	N/A	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$0.00	WCIU was able to coordinate with other broadcasters without accruing any additional costs.
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A

Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$1,500.00	N/A	N/A	N/A
Sub-total	\$48,545.00	\$40,645.00	N/A	\$0.00	N/A
Total for all systems	\$4,638,191.85	\$2,996,099.02	N/A	\$207,700.20	N/A

Components

Information not provided.

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$213,603.80	\$213,038.80		\$5,250.00	
Outside Project Management	<i>\$15,833.33</i>	\$15,833.33	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$95,000 for the Outside Project Management of the EAST Tower AUX antenna. WCIU's portion, \$15,833.33.	\$0.00	N/A

RF Safety Coordination	<i>\$16,666.67</i>	\$16,666.67	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$100,000 for the RF Safety Coordination of the EAST Tower AUX antenna. WCIU's portion, \$16,666.67.	N/A	N/A
Transmission Line Removal	<i>\$41,666.67</i>	\$41,666.67	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$250,000 for the Transmission Line Removal of the EAST Tower AUX antenna. WCIU's portion, \$41,666.67.	N/A	N/A

Transmission Line Installation	<i>\$20,833.33</i>	\$20,833.33	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$125,000 for the Transmission Line Installation of the EAST Tower AUX antenna. WCIU's portion, \$20,833.33	N/A	N/A
MVPD Notification of Channel Change	<i>\$2,500.00</i>	\$2,500.00	Notification to all MVPD regarding channel changes.	\$0.00	WCIU was able to coordinate with MVPDs without accruing any additional costs.
Equipment Delivery and Handling Charges	<i>\$2,500.00</i>	\$2,500.00	Willis Tower loading dock after hours fees.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$5,250.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A

FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$50,000.00</i>	\$50,000.00	Removal of WCIU IOT transmitter cabinets, beam supplies, RF System, cooling system, electrical system.	\$0.00	N/A
Combiner Room Construction	<i>\$12,857.14</i>	\$12,857.14	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$90,000 for the Combiner Room Construction of the EAST Tower AUX antenna. WCIU's portion, \$12,857.14.	N/A	N/A

Equipment Storage	<i>\$333.33</i>	\$333.33	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$2,000 for the Equipment Storage of the EAST Tower AUX antenna. WCIU's portion, \$333.33.	N/A	N/A
East Pole Material Disposal	<i>\$13,333.33</i>	\$13,333.33	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$80,000 for the East Pole Material Disposal of the EAST Tower AUX antenna. WCIU's portion, \$13,333.33	N/A	N/A

Cylinder Entry Port Resoration	<i>\$25,000.00</i>	\$25,000.00	See attached Willis Tower Budget Overview for EAST Tower RFS Systems. Willis Tower estimates \$150,000 for the Cylinder Entry Port Restoration of the EAST Tower AUX antenna. WCIU's portion, \$25,000.	N/A	N/A
Sub-total	\$213,603.80	\$213,038.80	N/A	\$5,250.00	N/A
Total for all systems	\$4,638,191.85	\$2,996,099.02	N/A	\$207,700.20	N/A

Components

Actual Information	
Description	File Name
Outside Project Management	Component Description: Willis Tower Consultant Fees related to the building project Invoice Amount: \$1,634.46
	Component Description: Willis Tower Consultant Fees related to the building project Invoice Amount: \$154.90
	RF Safety Coordination
	Information not provided.

Transmission Line Removal	Information not provided.
Transmission Line Installation	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
DTV Medical Facility Notification	<p>Component Description: WCIU Medical Notifications invoice</p> <p>Amount: \$5,250.00</p>
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.

<p>Disposal Costs (for equipment and other waste, net of any salvage value)</p>	<p>Component Description: WCIU Pre-Repack Main transmitter demo invoice.</p> <p>Amount: \$18,900.00</p> <p>Component Description: Removal of WCIU transmitters pre-repack transmitter barrels used for containing glycol.</p> <p>Amount: \$914.19</p> <p>Component Description: Removal of glycol from WCIU pre-repack transmitters and excess anti-freeze from WCIU post-repack transmitters.</p> <p>Amount: \$4,074.91</p>
<p>Combiner Room Construction</p>	<p>Information not provided.</p>
<p>Equipment Storage</p>	<p>Information not provided.</p>
<p>East Pole Material Disposal</p>	<p>Information not provided.</p>
<p>Cylinder Entry Port Resoration</p>	<p>Information not provided.</p>

Cost Information **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$4,638,191.85	\$2,996,099.02	\$207,700.20

Reimbursement Status

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

Certification	Section	Question	Response
	<p>Submission of Estimated Expenses Statements</p>	<p>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.</p>	
		<ol style="list-style-type: none"> 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 above-named applicant for the Authorization(s) specified above.

Kyle Walker
VP,
Technology

02/19/2020

Certification	Section	Question	Response
	<p>Submission of Actual Cost Documentation Statements</p>	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS 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 AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 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. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

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

8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

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

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

Kyle Walker
VP,
Technology

02/19/2020

Attachments