



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **52408** | Service: **DTV** | Call **WQRF-TV** | Channel: **36 (UHF)** |  
ID: | Sign:  
File **0000028518**  
Number:  
FRN: **0009961889** | Date **05/15**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>NEXSTAR BROADCASTING, INC.</b>	Elizabeth Ryder 545 E. JOHN CARPENTER FREEWAY SUITE 700 IRVING, TX 75062 United States	+1 (972) 373-8800	eryder@nexstar.tv	Corporation

## 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
<b>Elizabeth Ryder</b> <i>General Counsel</i> <i>Nexstar Broadcasting, Inc.</i>	Elizabeth Ryder 545 E. John Carpenter Freeway Suite 700 Irving, TX 75062 United States	+1 (972) 373-8800	eryder@nexstar.tv

**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	Replace transmitter, antenna, and transmission line. Acquire interim antenna system during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required. See attached.

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	CTT-U- DCX-1
	Year	2007
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	25.3 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-24
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	37 kW
	Justification for New Transmitter	The manufacturer of the existing IOT transmitter advises that the transmitter cannot be re-tuned to the assigned channel. A new Comark Paragon MSDC IOT transmitter is the basis for a replacement as suggested by the FCC. See attachment.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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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<b>Burk SNMP License</b>	License for Burk remote for new Rhode & Schwarz Transmitter Please see Heartland Video Systems Quote # WISQ65253 attached.
<b>Transmitter Installation Services</b>	Transmitter Installation, drawings, and Electrical Installation. Please see Land Communications Estimate # 1096 attached.
<b>Additional Interior RF System</b>	Interior RF System Existing Transmitter to Interim Transmission line

**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	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?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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) .....	900.0 kW



Manufacturer	
Model	TFU- 25JSC-R P210SP
Year	2007

## 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?	Yes
	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?	No
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) .....	910.0 kW
	Manufacturer	
	Model	TFU-25JSC /VP-R P210

Year	2018
Justification for New Antenna	The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	
	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
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes

<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes
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**Primary  
Antenna**

**Other Antenna Cost Not Listed**

<b>Name</b>	<b>Description</b>
<b>Radome Color Change</b>	Due to placement of new RePack Antenna, color of radome needed to be changed from orange to white. Please see Addendum #2 of Precision Communications Proposal #20302-5 attached.

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	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?	No
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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) .....	900.0 kW
	Manufacturer	
	Model	TBD
	Year	2018

	Justification for New Antenna	An interim antenna is necessary to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to rent if renting is available at time of acquisition.
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## Interim Antenna

### Other Antenna Costs

Section	Question	Response
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	6 1/8 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

Interim  
Antenna

Other Antenna Cost Not Listed

Name	Description
Elbow Reinf Uneq Leg	Elbow Reinf Uneq Leg

**Transmission Line**

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



**Primary**  
**Transmission Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	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
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	530 feet per run

**Primary**      **New Transmission Line**  
**Transmission Line**      **Section**

	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	530 feet per run
	Justification for New Transmission Line	The existing primary transmission line is rigid with section lengths that cannot accommodate the assigned channel.

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

**Interim  
Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	5 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	390 feet per run
	Justification for New Transmission Line	An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to rent if renting is available at time of acquisition.

Interim

Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Transmission Line 6-50	Transmission Line 6-50

**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	Owned
	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	No
	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	1035539
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	42° 17' 14.0" N-
	Longitude (NAD83)	089° 10' 15.0" W-
	Overall Structure Height	708.65 feet
	Support Structure Height	649.60 feet

Ground Elevation Above Mean Sea Level (AMSL)	790.67 feet
Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Mission Broadcasting, Inc.
Date Constructed	01/01/1953

**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
72945	WTVO	DTV

## 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:	Major Reinforcements needed

## Primary Tower

### Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	Located on Building

<b>Helicopter Services Required</b>	Are helicopter services required?	No
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**Primary  
Tower**

**Other Tower Expenses Not Listed**

Name	Description
<b>Additional Tower Work, and Weather Delays</b>	Unexpected Work outside the original quote, & Weather Delays. Please see addendum to Proposal 20302-5 Attached.

**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	295
	Explanation	Schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects. Internal accounting and Project management.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes



	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	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	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No

RF exposure measurements	No
Additional Field Engineering Service	Yes
Number of Days	14
Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

**Outside Professional Services Costs**      **Other Professional Services Expenses Not Listed**

Services provided.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	Local Zoning	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
<b>Other Miscellaneous Expenses</b>	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**

Name	Description
Sales Tax	Sales and use tax on goods and services

## 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
<b>Primary Transmitter THU9evo-24</b>	<b>\$1,790,618.38</b>	<b>\$1,031,385.38</b>		<b>\$825,379.00</b>	
Additional Interior RF System	<i>\$140,000.00</i>	\$140,000.00	N/A	N/A	N/A
Transmitter Installation Services	<i>\$108,162.00</i>	\$108,162.00	Transmitter Installation, drawings, and Electrical Installation. Please see Land Communications Estimate # 1096 attached.	\$108,162.00	N/A
Burk SNMP License	<i>\$506.38</i>	\$506.38	License for Burk remote for new Rhode & Schwarz Transmitter Please see Heartland Video Systems Quote # WISQ65253 attached.	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A

Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$717,217.00	See Rohde & Schwarz quote 230148.0 less upgrade cost	\$717,217.00	N/A
<b>Sub-total</b>	\$1,790,618.38	\$1,031,385.38	N/A	\$825,379.00	N/A
<b>Total for all systems</b>	\$3,661,803.05	\$2,711,821.20	N/A	\$1,951,969.74	N/A

## Components

Actual Information	
Description	File Name
Additional Interior RF System	Information not provided.
Transmitter Installation Services	<b>Component Description:</b> Transmitter installation <b>Amount:</b> \$108,162.00
Burk SNMP License	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW		
	<b>Component Description:</b>	Transmitter, installment #2, less upgrade cost
	<b>Amount:</b>	\$537,912.75
	<b>Component Description:</b>	Transmitter, installment #1, less upgrade cost
	<b>Amount:</b>	\$179,304.25

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
Interim Antenna TBD	\$54,469.00	\$42,752.00		\$24,085.90	
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	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$12,623.00	See Dielectric quote 700443CMZ-4	\$11,360.70	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A



UHF - High Power, Side Mount, basic slot antenna, 900 kW input, directional,, horizontally polarized	<b>\$1.00</b>	\$1.00	WQRF will reuse TUA-P4-4 /10H-1-SM antenna from KASN	N/A	N/A
Elbow Reinf Uneq Leg	<b>\$7,028.00</b>	\$7,028.00	See Dielectric quote 700443CMZ-4.	\$6,325.20	N/A
<b>Primary Antenna TFU-25JSC /VP-R P210</b>	<b>\$218,641.00</b>	<b>\$215,061.00</b>		<b>\$176,194.90</b>	
Radome Color Change	<b>\$15,000.00</b>	\$15,000.00	Due to placement of new RePack Antenna, color of radome needed to be changed from orange to white. Please see Addendum #2 of Precision Communications Proposal #20302-5 attached.	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$21,750.00	See Dielectric quote DMS160-2	\$19,575.00	N/A

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,710.00	See Dielectric quote DMS160-2	\$9,639.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 910 kW input, directional,, elliptically or circularly polarized	<b>\$156,201.00</b>	\$156,201.00	See Dielectric quote DMS160-2; total cost \$176,826 less vpol (\$20,625)	\$140,580.90	N/A
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	N/A	N/A
<b>Sub-total</b>	\$273,110.00	\$257,813.00	N/A	\$200,280.80	N/A
<b>Total for all systems</b>	\$3,661,803.05	\$2,711,821.20	N/A	\$1,951,969.74	N/A

## Components

**Actual Information**  
**Description**

**File Name**

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	<b>Component Description:</b>  <b>Amount:</b>	Mounting brackets, installment #2, line 1 of invoice \$5,680.35  Mounting brackets, installment #1, line 1 of invoice \$5,680.35
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	<b>Component Description:</b> <b>Amount:</b>	Sweep test \$6,400.00
UHF - High Power, Side Mount, basic slot antenna, 900 kW input, directional,, horizontally polarized	Information not provided.	
Elbow Reinf Uneq Leg	<b>Component Description:</b>  <b>Amount:</b>	Elbow, installment #2, line 2 of invoice \$3,162.60  Elbow, installment #1, line 2 of invoice \$3,162.60
Radome Color Change	Information not provided.	

<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="726 168 1037 212"><b>Component Description:</b></td><td data-bbox="1165 168 1420 324">Side Mount Brackets, installment #1, line 3 of invoice</td></tr> <tr> <td data-bbox="726 324 1037 369"><b>Amount:</b></td><td data-bbox="1165 324 1420 369">\$9,787.50</td></tr> <tr> <td data-bbox="726 470 1037 515"><b>Component Description:</b></td><td data-bbox="1165 470 1420 627">Side mount brackets, installment #2, line 2 of invoice</td></tr> <tr> <td data-bbox="726 627 1037 672"><b>Amount:</b></td><td data-bbox="1165 627 1420 672">\$9,787.50</td></tr> </table>	<b>Component Description:</b>	Side Mount Brackets, installment #1, line 3 of invoice	<b>Amount:</b>	\$9,787.50	<b>Component Description:</b>	Side mount brackets, installment #2, line 2 of invoice	<b>Amount:</b>	\$9,787.50
<b>Component Description:</b>	Side Mount Brackets, installment #1, line 3 of invoice								
<b>Amount:</b>	\$9,787.50								
<b>Component Description:</b>	Side mount brackets, installment #2, line 2 of invoice								
<b>Amount:</b>	\$9,787.50								
<p>Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)</p>	<table> <tr> <td data-bbox="726 795 1037 840"><b>Component Description:</b></td><td data-bbox="1165 795 1420 918">Elbow complex, installment #1, line 4 of invoice</td></tr> <tr> <td data-bbox="726 918 1037 963"><b>Amount:</b></td><td data-bbox="1165 918 1420 963">\$4,819.50</td></tr> <tr> <td data-bbox="726 1064 1037 1108"><b>Component Description:</b></td><td data-bbox="1165 1064 1420 1187">Elbow complex, installment #2, line 3 of invoice</td></tr> <tr> <td data-bbox="726 1187 1037 1232"><b>Amount:</b></td><td data-bbox="1165 1187 1420 1232">\$4,819.50</td></tr> </table>	<b>Component Description:</b>	Elbow complex, installment #1, line 4 of invoice	<b>Amount:</b>	\$4,819.50	<b>Component Description:</b>	Elbow complex, installment #2, line 3 of invoice	<b>Amount:</b>	\$4,819.50
<b>Component Description:</b>	Elbow complex, installment #1, line 4 of invoice								
<b>Amount:</b>	\$4,819.50								
<b>Component Description:</b>	Elbow complex, installment #2, line 3 of invoice								
<b>Amount:</b>	\$4,819.50								
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="726 1344 1037 1388"><b>Component Description:</b></td><td data-bbox="1165 1344 1420 1388">Sweep Test</td></tr> <tr> <td data-bbox="726 1388 1037 1433"><b>Amount:</b></td><td data-bbox="1165 1388 1420 1433">\$6,400.00</td></tr> </table>	<b>Component Description:</b>	Sweep Test	<b>Amount:</b>	\$6,400.00				
<b>Component Description:</b>	Sweep Test								
<b>Amount:</b>	\$6,400.00								
<p>UHF - High Power, Side Mount, basic slot antenna, 910 kW input, directional,, elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="726 1556 1037 1601"><b>Component Description:</b></td><td data-bbox="1165 1556 1420 1680">Antenna, installment #1, line 1 of invoice</td></tr> <tr> <td data-bbox="726 1680 1037 1724"><b>Amount:</b></td><td data-bbox="1165 1680 1420 1724">\$70,290.45</td></tr> <tr> <td data-bbox="726 1825 1037 1870"><b>Component Description:</b></td><td data-bbox="1165 1825 1420 1948">Antenna, installment #2, line 1 of invoice</td></tr> <tr> <td data-bbox="726 1948 1037 1993"><b>Amount:</b></td><td data-bbox="1165 1948 1420 1993">\$70,290.45</td></tr> </table>	<b>Component Description:</b>	Antenna, installment #1, line 1 of invoice	<b>Amount:</b>	\$70,290.45	<b>Component Description:</b>	Antenna, installment #2, line 1 of invoice	<b>Amount:</b>	\$70,290.45
<b>Component Description:</b>	Antenna, installment #1, line 1 of invoice								
<b>Amount:</b>	\$70,290.45								
<b>Component Description:</b>	Antenna, installment #2, line 1 of invoice								
<b>Amount:</b>	\$70,290.45								

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
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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
Interim Transmission Line	\$43,652.00	\$35,192.35		\$31,673.12	
Transmission Line 6-50	\$2,702.00	\$2,702.00	See Dielectric quote 700443CMZ-4.	\$2,431.80	N/A
Flexible Air Transmission Line - dielectric, 5"	\$40,950.00	\$32,490.35	See Dielectric quote 700443CMZ-4.	\$29,241.32	N/A
Primary Transmission Line	\$107,060.00	\$84,569.80		\$76,112.82	
Rigid Transmission Line - copper, 6 1/8"	\$107,060.00	\$84,569.80	See Dielectric quote DMS160-2	\$76,112.82	N/A
Sub-total	\$150,712.00	\$119,762.15	N/A	\$107,785.94	N/A
Total for all systems	\$3,661,803.05	\$2,711,821.20	N/A	\$1,951,969.74	N/A

Components

Actual Information Description	File Name
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Transmission Line 6-50	<b>Component Description:</b>	Transmission Line 6-50, installment #2, line 3 of invoice
	<b>Amount:</b>	\$1,215.90
	<b>Component Description:</b>	Transmission Line 6-50, installment #1, line 3 of invoice
	<b>Amount:</b>	\$1,215.90
Flexible Air Transmission Line - dielectric, 5"	<b>Component Description:</b>	Transmission line, installment #2, line 4 of invoice
	<b>Amount:</b>	\$14,620.66
	<b>Component Description:</b>	Transmission line, installment #1, line 4 of invoice
	<b>Amount:</b>	\$14,620.66
Rigid Transmission Line - copper, 6 1/8"	<b>Component Description:</b>	Transmission line, installment #1, line 5 of invoice
	<b>Amount:</b>	\$38,056.41
	<b>Component Description:</b>	Transmission line, installment #2, line 4 of invoice
	<b>Amount:</b>	\$38,056.41

## 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
<b>Primary Tower TOWER</b>	<b>\$1,013,597.67</b>	<b>\$873,965.67</b>		<b>\$709,168.00</b>	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$276,450.00	Interim antenna installation \$96,750 see PCI quote 20301-5; main antenna installation \$179,700 see PCI quote 20302-5	\$276,450.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	\$5,500.00	N/A
Major tower reinforcement /modifications	\$421,000.00	\$427,218.00	\$70818 Tower Modification Materials - see FDH quotes P18_T01311 and P18_T013112; \$356,400 see PCI quote 20300-5	\$427,218.00	N/A



Additional Tower Work, and Weather Delays	<b>\$145,297.67</b>	\$145,297.67	Unexpected Work outside the original quote, & Weather Delays. Please see addendum to Proposal 20302-5 Attached.	N/A	N/A
<b>Sub-total</b>	\$1,013,597.67	\$873,965.67	N/A	\$709,168.00	N/A
<b>Total for all systems</b>	\$3,661,803.05	\$2,711,821.20	N/A	\$1,951,969.74	N/A

## Components

Actual Information	
Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	<b>Component Description:</b>
	Interim antenna installation, installment #1
	<b>Amount:</b>
	\$64,500.00
	<b>Component Description:</b>
	Interim antenna installation, installment #2
	<b>Amount:</b>
	\$32,250.00
	<b>Component Description:</b>
	Main antenna installation, installment #1
	<b>Amount:</b>
	\$119,800.00
	<b>Component Description:</b>
	Main antenna installation, installment #2
	<b>Amount:</b>
	\$59,900.00

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study		
	<b>Component Description:</b>	Structural analysis, balance due on completion
	<b>Amount:</b>	\$2,750.00
	<b>Component Description:</b>	Structural analysis
	<b>Amount:</b>	\$2,750.00

Major tower reinforcement /modifications	<b>Component Description:</b> Tower Modifications, installment #1 <b>Amount:</b> \$237,600.00
	<b>Component Description:</b> Tower Modifications, installment #2 <b>Amount:</b> \$118,800.00
	<b>Component Description:</b> Tower modification materials, installment #2 <b>Amount:</b> \$15,695.50
	<b>Component Description:</b> Tower modification materials, installment #1 <b>Amount:</b> \$15,695.50
	<b>Component Description:</b> Tower modification materials, installment #2 <b>Amount:</b> \$19,713.50
	<b>Component Description:</b> Tower modification materials, installment #1 <b>Amount:</b> \$19,713.50
Additional Tower Work, and Weather Delays	Information not provided.

## 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
<b>Outside Professional Services</b>	<b>\$105,320.00</b>	<b>\$101,000.00</b>		<b>\$37,146.00</b>	
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$1,500.00	N/A
Project management of the transition	\$46,610.00	\$44,250.00	N/A	\$23,146.00	N/A
Additional Field Engineering Service, 14 Days	<i>\$28,000.00</i>	\$28,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$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 engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	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	\$3,000.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$7,000.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$2,500.00	N/A
<b>Sub-total</b>	\$105,320.00	\$101,000.00	N/A	\$37,146.00	N/A
<b>Total for all systems</b>	\$3,661,803.05	\$2,711,821.20	N/A	\$1,951,969.74	N/A

## Components

**Actual Information**  
**Description**

**File Name**

Prepare request for Special Temporary Authorization	<b>Component Description:</b> <b>Amount:</b>	Prepare STA \$1,500.00
Project management of the transition	<b>Component Description:</b> <b>Amount:</b>	Project management services 7.28.18 through 9.28.18 \$2,700.00
	<b>Component Description:</b> <b>Amount:</b>	Project management services \$790.00
	<b>Component Description:</b> <b>Amount:</b>	Project management services 10.2018 \$75.00
	<b>Component Description:</b> <b>Amount:</b>	Project management services 5/26/18 through 6/29/18 \$1,020.00
	<b>Component Description:</b> <b>Amount:</b>	Project management services \$2,025.50
	<b>Component Description:</b> <b>Amount:</b>	Project management services 12.1.18 through 1.31.19 \$1,050.00

<b>Component Description:</b>	Project management services June 2019
<b>Amount:</b>	\$325.00

<b>Component Description:</b>	Project management services
<b>Amount:</b>	\$703.00

<b>Component Description:</b>	Project management services
<b>Amount:</b>	\$714.50

<b>Component Description:</b>	Project management services 6.26.19 through 7.26.19
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Project management services 6.1.19 through 6.28.19
<b>Amount:</b>	\$375.00

<b>Component Description:</b>	Project management services March 2019
<b>Amount:</b>	\$143.00

<b>Component Description:</b>	Project management services February 2019
<b>Amount:</b>	\$123.50

<b>Component Description:</b>	Project management services April 2019
<b>Amount:</b>	\$123.50

<b>Component Description:</b>	Project management services 3.30.19 through 4.26.19
<b>Amount:</b>	\$300.00

<b>Component Description:</b>	Prepare FCC Schedule 387, item 6 from invoice summary
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Project management services 9.29.18 through 10.26.18
<b>Amount:</b>	\$2,100.00

<b>Component Description:</b>	Project management services, item 1 from invoice summary
<b>Amount:</b>	\$3,825.00

<b>Component Description:</b>	Prepare FCC Schedule 387, item 7 from invoice summary
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Project management services, various
<b>Amount:</b>	\$653.00



<b>Component Description:</b>	Vendor has issued a revised invoice; see 29370R
<b>Amount:</b>	(\$13,500.00)

<b>Component Description:</b>	Vendor has issued a revised invoice; see 29370R
<b>Amount:</b>	(\$525.00)

<b>Component Description:</b>	Project management services 2.1.19 through 3.1.19
<b>Amount:</b>	\$825.00

<b>Component Description:</b>	Project management services 4.27.19 through 5.31.19
<b>Amount:</b>	\$1,200.00

<b>Component Description:</b>	Project management services 10.27.18 through 11.30.18
<b>Amount:</b>	\$1,600.00

<b>Component Description:</b>	Project management services 3.2.19 through 3.29.19
<b>Amount:</b>	\$225.00

<b>Component Description:</b>	Project management services 6/30/18 through 7/27/18
<b>Amount:</b>	\$1,500.00

	<b>Component Description:</b>	Prepare FCC Schedule 387, item 5 from invoice summary
	<b>Amount:</b>	\$300.00
	<b>Component Description:</b>	Vendor has issued a revised invoice; see 29370R
	<b>Amount:</b>	\$525.00
	<b>Component Description:</b>	Vendor has issued a revised invoice; see 29370R
	<b>Amount:</b>	\$13,500.00
Additional Field Engineering Service, 14 Days	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<p><b>Component Description:</b></p> <p>Prepare engineering section of FCC Form 2100, item 4 from invoice summary</p> <p><b>Amount:</b></p> <p>\$3,000.00</p>
Perform engineering study for new channel assignment and antenna development	<p><b>Component Description:</b></p> <p>Perform engineering study for new channel assignment, item 3 from invoice summary.</p> <p><b>Amount:</b></p> <p>\$7,000.00</p>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Prepare and or review reimbursement form	<p><b>Component Description:</b></p> <p>Prepare reimbursement form, item 2 from invoice summary</p> <p><b>Amount:</b></p> <p>\$2,500.00</p>

## 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
<b>Other Expenses</b>	<b>\$328,445.00</b>	<b>\$327,895.00</b>		<b>\$72,210.00</b>	
Sales Tax	<i>\$218,395.00</i>	\$218,395.00	N/A	\$44,826.00	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$1,500.00</i>	\$1,500.00	N/A	N/A	N/A
Equipment Storage	<i>\$20,000.00</i>	\$20,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	Per quote from USA Commercial EST-13 attached	\$25,000.00	N/A
Non-zoning permits	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$2,384.00	N/A
<b>Sub-total</b>	<b>\$328,445.00</b>	<b>\$327,895.00</b>	N/A	<b>\$72,210.00</b>	N/A

<b>Total for all systems</b>	\$3,661,803.05	\$2,711,821.20	N/A	\$1,951,969.74	N/A
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## Components

<b>Actual Information</b>	
<b>Description</b>	<b>File Name</b>
Sales Tax	<p><b>Component Description:</b> Tax due on transmitter, less upgrade cost</p> <p><b>Amount:</b> \$44,826.00</p>
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	<p><b>Component Description:</b> Removal of transmitters and components</p> <p><b>Amount:</b> \$25,000.00</p>
Non-zoning permits	Information not provided.
DTV Medical Facility Notification	<p><b>Component Description:</b> Notification of medical facilities</p> <p><b>Amount:</b> \$2,384.00</p>

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$3,661,803.05	\$2,711,821.20
			\$1,951,969.74

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<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"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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.

**Elizabeth  
Ryder**  
*General  
Counsel*

05/15/2020

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR 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).	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Elizabeth Ryder</b> <i>General Counsel</i></p> <p>05/15/2020</p>

## Attachments