



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **71127** | Service: **DTV** | Call **WAVY-TV** | Channel: **19 (UHF)** |
ID: | Sign:
File **0000028695**
Number:
FRN: **0009961889** | Date **01/28**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
NEXSTAR BROADCASTING, INC.	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
Elizabeth Ryder <i>General Counsel</i> <i>Nexstar Broadcasting,</i> <i>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	See the attached transition document.

Transmitters

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

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DCX
	Year	2001
	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-48
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	73.5 kW
	Justification for New Transmitter	End of life components require transmitter replacement rather than simple conversion of existing transmitter per manufacturer.

**Primary
Transmitter**

Other Transmitter Costs

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

	Size	3 inches
	Length	75.0 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?	Yes
	Size	100.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
RF SYSTEM CONVERSION	Equipment and labor to convert inside RF system to new combiner/antenna switching.
Transmitter Installation Services	Installation and Commissioning of new RePack Transmitter. Please see Land Communications Inc. quote # 1065

Antennas

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

**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?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	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)	1000.0 kW

Manufacturer	
Model	TFU-30GBH-R08
Year	2001

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	Top Mount
	Antenna position in stack	Bottom
	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)	1000.0 kW
	Manufacturer	

Model	TFU-30GBH /VP-R O8
Year	2017
Justification for New Antenna	Existing coaxial slot antenna is not designed to operate on repacked channel.

Primary 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	4
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	Yes
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No

Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes
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Enter a list of RF channel numbers.

RF Channel Number
31
14
19
21

**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Second channel combiner port	WAVY must operate on pre-repack channel as well as post-repack channel into combiner so it needs 2 ports on the combiner.

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	3
	Number of Panels/Bays	32
	Lower Limit	470.00 MHz
	Upper Limit	630.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	500.0 kW
	Manufacturer	
	Model	TUA-O4-8 /32H-1-R SM

Year	2019
Justification for New Antenna	WAVY does not have an interim antenna to use while main facility is being built out. See WAVY transition plan for cost and time savings justification associated with overall approach.

Interim 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?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes

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?	Yes

Interim Antenna

Other Antenna Cost Not Listed

Information not provided.

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
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	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	970 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Line extension	30 ft Line extension due to antenna length change and tower mods.
Reducer	Reducer
TL 8-75 Length 5' to 10'	TL 8-75 Length 5' to 10'
Trans Test 8-75	Trans Test 8-75

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	825 feet per run

	<p>Justification for New Transmission Line</p>	<p>The transmission line with higher power capability is an integral part to the tower consolidation plan (see attached WAVY Transition Plan) that reduces cost and time associated with the 3 stations being repacked on this tower.</p>
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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?	No
	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?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1018104
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 49' 15.0" N-
	Longitude (NAD83)	076° 30' 40.0" W-
	Overall Structure Height	1026.89 feet
	Support Structure Height	889.10 feet
	Ground Elevation Above Mean Sea Level (AMSL)	22.97 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

	Tower Owner	WAVY BROADCASTING INC
	Date Constructed	01/01/1957

**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
71121	WKTD-CD	DTV
65387	WVBT	DTV
71119	WITD-CD	DTV

**Primary
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:	Serious Reinforcements needed

**Primary
Tower**

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
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?	Yes
	Number of Hours	90
	Explanation	The engineering, tower rigging, transmitter and combiner suppliers, must all coordinate effectively because WAVY transitions in Phase 9 and the WNLO-CD & WVBTV transition in Phase 7. Cost of this activity is shared between WAVY, WVBTV, & WNLO-CD.
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	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
Attorney and Other Outside Consulting Services	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
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**
Services 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	Yes
	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?	No
	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 Information not provided.
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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-48	\$3,749,324.00	\$1,293,949.00		\$1,215,274.00	
Transmitter Installation Services	<i>\$195,824.00</i>	\$195,824.00	Installation and Commissioning of new RePack Transmitter. Please see Land Communications Inc. quote # 1065	\$195,824.00	N/A
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	\$1,999,000.00	\$746,587.50	See Rohde & Schwarz quote 195248.1 less upgrade cost and amount reported on 35-50 kW line (\$272,862.50)	\$746,587.50	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$272,862.50	***System Notice: Estimate adjusted and locked because line has been superseded. ***See Rohde&Schwarz quote 195248.1 total cost \$1,267,351 less upgrade cost (\$247,901)	\$272,862.50	N/A

RF SYSTEM CONVERSION	\$20,000.00	\$20,000.00	Equipment and labor to convert inside RF system to new combiner /antenna switching.	N/A	N/A
Other -- Building Addition Size: 100.0	\$5,000.00	\$5,000.00	Need to move walls, plumbing, electrical wiring, lighting fixtures, etc.	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$3,900.00	\$3,675.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A
Sub-total	\$3,749,324.00	\$1,293,949.00	N/A	\$1,215,274.00	N/A
Total for all systems	\$6,057,628.34	\$2,689,434.98	N/A	\$1,945,228.28	N/A

Components

Actual Information
Description

File Name

Transmitter Installation Services	Component Description:	Transmitter installation, installment #2
	Amount:	\$97,912.00
	Component Description:	Transmitter installation, installment #1
	Amount:	\$97,912.00
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	Component Description:	Transmitter, installment #2
	Amount:	\$746,587.50
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description:	Reverse submission for transmitter model correction
	Amount:	(\$746,587.50)
	Component Description:	Transmitter, installment #2, less upgrade cost
	Amount:	\$746,587.50
	Component Description:	Transmitter, installment #1, less upgrade cost
	Amount:	\$272,862.50
RF SYSTEM CONVERSION	Information not provided.	
Other -- Building Addition Size: 100.0	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

Switchgear - industrial 800 amp	Information not provided.
Service entrance 3 phase /800 amp/208 volt	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
Interim Antenna TUA-O4-8 /32H-1-R SM	\$127,538.67	\$100,918.67		\$80,566.80	
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	\$7,250.00	See Dielectric quote 700323CMZ-5. Cost to be shared with WNLO-CD and WVBT, split 3 ways; this is WAVY share of cost	\$6,525.00	N/A

Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$3,570.00	See Dielectric quote 700323CMZ-5. Cost to be shared with WNLO-CD and WVBT, split 3 ways; this is WAVY share of cost	\$3,213.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF " Broadband Panel, Side Mount Auxiliary /Interim, 500 horizontally polarized	\$78,698.67	\$78,698.67	The antenna selection is part of an overall cost reduction and time /complexity for all three stations on the tower: WAVY, WVBT and WNLO-CD. See Dielectric quote 700323CMZ-5. Cost to be shared with WNLO-CD and WVBT, split 3 ways; this is WAVY share of cost	\$70,828.80	N/A
Primary Antenna TFU-30GBH /VP-R 08	\$598,730.00	\$627,810.00		\$450,083.80	

Second channel combiner port	\$80,000.00	\$80,000.00	To operate on pre-repack and post-repack channels, WAVY needs 2 ports on input combiner.	\$68,524.80	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$410,700.00	See Dielectric quote DMS188-3 total cost \$441,450 less vpol (\$30750)	\$369,630.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,290.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$0.00	See Second Channel Combiner Port	N/A	N/A

Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$120,000.00	This combiner switching system is used to directly the RF output to the combined WNLO antenna (see WAVY transition plan document) or the WAVY antenna.	N/A	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 DMS188-3	\$9,639.00	N/A
Sub-total	\$726,268.67	\$728,728.67	N/A	\$530,650.60	N/A
Total for all systems	\$6,057,628.34	\$2,689,434.98	N/A	\$1,945,228.28	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.

<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="722 174 1029 212">Component Description:</td><td data-bbox="1161 174 1385 405">Side mount brackets, installment #2, 1/3 shared cost with WVBT and WNLO-CD</td></tr> <tr> <td data-bbox="722 416 831 454">Amount:</td><td data-bbox="1161 416 1281 454">\$3,262.50</td></tr> <tr> <td data-bbox="722 555 1029 593">Component Description:</td><td data-bbox="1161 555 1385 786">Side mount brackets, installment #1, 1/3 shared cost with WVBT and WNLO-CD</td></tr> <tr> <td data-bbox="722 797 831 835">Amount:</td><td data-bbox="1161 797 1281 835">\$3,262.50</td></tr> </table>	Component Description:	Side mount brackets, installment #2, 1/3 shared cost with WVBT and WNLO-CD	Amount:	\$3,262.50	Component Description:	Side mount brackets, installment #1, 1/3 shared cost with WVBT and WNLO-CD	Amount:	\$3,262.50
Component Description:	Side mount brackets, installment #2, 1/3 shared cost with WVBT and WNLO-CD								
Amount:	\$3,262.50								
Component Description:	Side mount brackets, installment #1, 1/3 shared cost with WVBT and WNLO-CD								
Amount:	\$3,262.50								
<p>Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)</p>	<table> <tr> <td data-bbox="722 965 1029 1003">Component Description:</td><td data-bbox="1161 965 1385 1160">Elbow complex, installment #2, 1/3 shared cost with WVBT and WNLO-CD</td></tr> <tr> <td data-bbox="722 1171 831 1209">Amount:</td><td data-bbox="1161 1171 1281 1209">\$1,606.50</td></tr> <tr> <td data-bbox="722 1310 1029 1348">Component Description:</td><td data-bbox="1161 1310 1385 1505">Elbow complex, installment #1, 1/3 shared cost with WVBT and WNLO-CD</td></tr> <tr> <td data-bbox="722 1516 831 1554">Amount:</td><td data-bbox="1161 1516 1281 1554">\$1,606.50</td></tr> </table>	Component Description:	Elbow complex, installment #2, 1/3 shared cost with WVBT and WNLO-CD	Amount:	\$1,606.50	Component Description:	Elbow complex, installment #1, 1/3 shared cost with WVBT and WNLO-CD	Amount:	\$1,606.50
Component Description:	Elbow complex, installment #2, 1/3 shared cost with WVBT and WNLO-CD								
Amount:	\$1,606.50								
Component Description:	Elbow complex, installment #1, 1/3 shared cost with WVBT and WNLO-CD								
Amount:	\$1,606.50								
<p>Sweep test of existing antenna</p>	<p>Information not provided.</p>								

UHF “ Broadband Panel, Side Mount Auxiliary/Interim, 500 horizontally polarized	Component Description: Interim antenna, installment #2, 1/3 shared cost with WVBT and WNLO- CD	Amount: \$35,414.40
	Component Description: Interim antenna, installment #1, 1/3 shared cost with WVBT and WNLO- CD	Amount: \$35,414.40
Second channel combiner port	Component Description: Combiner, installment #2, shared cost with WVBT and WNLO- CD	Amount: \$34,262.40
	Component Description: Combiner, installment #1, shared cost with WVBT and WNLO- CD	Amount: \$34,262.40
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Antenna, installment #2	Amount: \$184,815.00
	Component Description: Antenna, installment #1	Amount: \$184,815.00

Sweep test of existing antenna	<div> Component Description: Sweep test, 50% of invoice cost shared with WVBT FAC ID 65387. </div> <div> Amount: \$2,290.00 </div>
New combiner, cost per channel (without antenna)	Information not provided.
Combiner output splitting /switching for dual feed lines, if applicable	Information not provided.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<div> Component Description: Elbow complex, installment #2 </div> <div> Amount: \$4,819.50 </div> <div> Component Description: Elbow complex, installment #1 </div> <div> Amount: \$4,819.50 </div>

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	\$192,041.67	\$52,275.31		\$47,047.78	
Transmission Line 6-50	<i>\$641.67</i>	\$641.67	See Dielectric quote 800089CMZ. Cost to be shared with WNLO-CD and WVB, split 3 ways; this is WAVY share of cost	\$577.50	N/A
Rigid Transmission Line - copper, 6 1/8" broadband	\$191,400.00	\$51,633.64	See Dielectric quote 800089CMZ. Cost to be shared with WNLO-CD and WVB, split 3 ways; this is WAVY share of cost	\$46,470.28	N/A
Primary Transmission Line	\$20,634.00	\$20,634.00		\$8,337.60	
Trans Test 8-75	<i>\$4,742.25</i>	\$4,742.25	See Dielectric quote DMS188-3 and change order	\$4,268.02	N/A

TL 8-75 Length 5' to 10'	\$2,103.75	\$2,103.75	See Dielectric quote DMS188-3 and change order	\$1,893.38	N/A
Line extension	\$11,370.00	\$11,370.00	30 ft of 8" BB line extension.	N/A	N/A
Reducer	\$2,418.00	\$2,418.00	See Dielectric quote DMS188-3 and change order	\$2,176.20	N/A
Sub-total	\$212,675.67	\$72,909.31	N/A	\$55,385.38	N/A
Total for all systems	\$6,057,628.34	\$2,689,434.98	N/A	\$1,945,228.28	N/A

Components

Actual Information	
Description	File Name
Transmission Line 6-50	<div> <div>Component Description:</div> <div>Transmission line, installment #2, 1/3 shared cost with WVBT and WNLO-CD</div> </div> <div> <div>Amount:</div> <div>\$288.75</div> </div> <div> <div>Component Description:</div> <div>Transmission line, installment #1, 1/3 shared cost with WVBT and WNLO-CD</div> </div> <div> <div>Amount:</div> <div>\$288.75</div> </div>

Rigid Transmission Line - copper, 6 1/8" broadband	Component Description:	Interim transmission line, installment #2, 1/3 shared cost with WVBT and WNLO-CD
	Amount:	\$23,235.14
	Component Description:	Interim transmission line, installment #1, 1/3 shared cost with WVBT and WNLO-CD
	Amount:	\$23,235.14
Trans Test 8-75	Component Description:	Trans test, installment #2
	Amount:	\$2,134.01
	Component Description:	Trans test, installment #1
	Amount:	\$2,134.01
TL 8-75 Length 5' to 10'	Component Description:	Transmission line piece, installment #2
	Amount:	\$946.69
	Component Description:	Transmission line piece, installment #1
	Amount:	\$946.69
Line extension	Information not provided.	

Reducer		
	Component Description:	Reducer, installment #2
	Amount:	\$1,088.10
	Component Description:	Reducer, installment #1
	Amount:	\$1,088.10

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
Primary Tower TOWER	\$1,275,100.00	\$491,333.00		\$101,952.00	
Tall Tower (greater than 500')	\$210,500.00	\$154,000.00	See Coast to Coast proposal 05211901T; shared cost with WVBt and WLNO-CD	\$91,952.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$4,000.00	Cost of this activity is shared between WAVY, WVBt, & WNLO-CD. This is only the cost for WAVY.	N/A	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$333,333.00	Cost of this activity is shared between WAVY, WVBt, & WNLO-CD.	\$10,000.00	N/A
Sub-total	\$1,275,100.00	\$491,333.00	N/A	\$101,952.00	N/A
Total for all systems	\$6,057,628.34	\$2,689,434.98	N/A	\$1,945,228.28	N/A

Components

Actual Information Description	File Name
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Tall Tower (greater than 500')	<div> <div> Component Description: </div> <div> Antenna installation, installment #2, shared cost with WVBT and WNLO-CD </div> </div> <div> Amount: </div> <div> \$38,191.67 </div> <div> Component Description: </div> <div> Antenna installation, installment #1, shared cost with WVBT and WNLO-CD </div> <div> Amount: </div> <div> \$53,760.33 </div>
Structural engineering tower load study for well documented tower	Information not provided.
Serious tower reinforcement /modifications	<div> <div> Component Description: </div> <div> Deposit as agreed per Nexstar Commitment Letter and Coast to Coast Tower Service </div> </div> <div> Amount: </div> <div> \$10,000.00 </div>

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	\$44,930.00	\$58,750.00		\$12,601.50	
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	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	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$5,337.50	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
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	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
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 request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A

Project management of the transition	\$14,220.00	\$30,000.00	This is a complex project with three stations on a single tower with multiple phase assignments. We have estimated WAVY's portion of the total project management cost to be 200 hours each at a rate of \$150 /hr.	\$7,264.00	N/A
Sub-total	\$44,930.00	\$58,750.00	N/A	\$12,601.50	N/A
Total for all systems	\$6,057,628.34	\$2,689,434.98	N/A	\$1,945,228.28	N/A

Components

Actual Information Description	File Name
Prepare and or review reimbursement form	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Perform engineering study for new channel assignment and antenna development	

Component Description:	Revise storyboard, interference study, create CP and recalculate ERP if COR changed, transition plan document, create 399, coverage maps, & upload draft documents to ASANA.
Amount:	\$1,225.00

Component Description:	Revise and update 399 form
Amount:	\$612.50

Component Description:	Repack engineering services. Evaluation of expansion options for WAVY for 2nd priority window application. Creation of exhibit to support Legal STA for WAVY to transition earlier than assigned.
Amount:	\$1,137.50

Component Description:	Information gathering, creation of transition plan with definition of initial equipment and service needs.
Amount:	\$350.00

	Component Description:	Creation of initial repacked versus licensed map comparison. Information gathering for all station transmission facilities and creation of repack plan for each station . WAVY RPU license mod to address narrow banding and use of digital emissions.
	Amount:	\$2,100.00
	Component Description:	Repack plan and revision, 399 form info
	Amount:	\$1,050.00
Prepare engineering section of 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 request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	

Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.																				
Project management of the transition	<table border="1"> <tr> <td>Component Description:</td><td>Project management of the transition professional services from September 20, 2017 through May 25, 2018 including services provided by consultants Kessler and Gehman Associates, Inc.</td></tr> <tr> <td>Amount:</td><td>\$3,491.00</td></tr> <tr> <td>Component Description:</td><td>Project management services January 2019</td></tr> <tr> <td>Amount:</td><td>\$65.00</td></tr> <tr> <td>Component Description:</td><td>Project management services April 2019</td></tr> <tr> <td>Amount:</td><td>\$39.00</td></tr> <tr> <td>Component Description:</td><td>Project management services 3.30.19 through 4.26.19</td></tr> <tr> <td>Amount:</td><td>\$450.00</td></tr> <tr> <td>Component Description:</td><td>Project management services June 2019</td></tr> <tr> <td>Amount:</td><td>\$110.00</td></tr> </table>	Component Description:	Project management of the transition professional services from September 20, 2017 through May 25, 2018 including services provided by consultants Kessler and Gehman Associates, Inc.	Amount:	\$3,491.00	Component Description:	Project management services January 2019	Amount:	\$65.00	Component Description:	Project management services April 2019	Amount:	\$39.00	Component Description:	Project management services 3.30.19 through 4.26.19	Amount:	\$450.00	Component Description:	Project management services June 2019	Amount:	\$110.00
Component Description:	Project management of the transition professional services from September 20, 2017 through May 25, 2018 including services provided by consultants Kessler and Gehman Associates, Inc.																				
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Amount:	\$450.00																				
Component Description:	Project management services June 2019																				
Amount:	\$110.00																				

Component Description:	Project management services 6.1.19 through 6.28.19
Amount:	\$600.00

Component Description:	Project management services June 2019
Amount:	\$162.50

Component Description:	Project management services May 2019
Amount:	\$70.00

Component Description:	Project management services May 2019
Amount:	\$78.00

Component Description:	Project management services February 2019
Amount:	\$123.50

Component Description:	Project management services 9.29.18 through 10.26.18
Amount:	\$150.00

Component Description:	Professional management services 10.27.18 through 12.31.18
Amount:	\$275.00

Component Description:	Project management services 1.1.19 through 1.31.19
Amount:	\$600.00

Component Description:	Project management services 2.1.19 through 3.1.19
Amount:	\$600.00

Component Description:	Project management of the transition professional services from May 26, 2018 through June 29, 2018 including services provided by consultants Kessler and Gehman Associates, Inc.
Amount:	\$450.00

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	\$49,330.00	\$43,765.00		\$29,364.80	
DTV Medical Facility Notification	\$11,550.00	\$6,000.00	N/A	\$4,364.80	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
Local Zoning	<i>\$1,000.00</i>	\$1,000.00	Building permits and fees.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	See USA Commercial quote 22 attached.	\$25,000.00	N/A
Equipment Storage	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$3,500.00</i>	\$3,500.00	Develop and produce crawls and spots for viewer notification.	N/A	N/A

MVPD Notification of Channel Change	\$5,750.00	\$5,750.00	See attached quote for notification of all relevant MVPD entities.	N/A	N/A
Sub-total	\$49,330.00	\$43,765.00	N/A	\$29,364.80	N/A
Total for all systems	\$6,057,628.34	\$2,689,434.98	N/A	\$1,945,228.28	N/A

Components

Actual Information Description	File Name
DTV Medical Facility Notification	Component Description: Notification of medical facilities Amount: \$4,364.80
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
Local Zoning	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Disposal costs Amount: \$25,000.00
Equipment Storage	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
MVPD Notification of Channel Change	Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$6,057,628.34	\$2,689,434.98
			\$1,945,228.28

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<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.

**Elizabeth
Ryder**
*General
Counsel*

01/28/2020

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"> 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.

<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>Elizabeth Ryder <i>General Counsel</i></p> <p>01/28/2020</p>

Attachments