

Federal Communications Commission

### (REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility ID:	7841	Service: DTV	Call Sign:	KGCW	Channel: 21 (UHF)
File Number:	000002	8531	orgin.		
FRN: <b>00</b>	09961889	Date Submitted:	03/31 /2020		

#### Applicant Name, Type, and Contact Information

#### Applicant 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 Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

#### **Preparer Contact Name and Information** Preparer Contact Applicant Address Phone Email Information **Elizabeth Ryder** Elizabeth Ryder +1 (972) 373eryder@nexstar. General Counsel 545 E. John Carpenter 8800 tv Nexstar Broadcasting, Freeway Inc. Suite 700 Irving, TX 75062 **United States**

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.	No
	Briefly describe transition plan	Replace transmitter and antenna using existing line. Acquire interim antenna and line for continued operation 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	Existing Transmitter Information			
Transmitter	Section	Question	Response	
	Existing Transmitter Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is this transmitter currently shared with another station?	No	
		Is this transmitter currently in operating condition?	Yes	
	Existing Transmitter	Manufacturer		
	Manufacturer and Type	Model	Visionary	
		Year	2005	
		Туре	Inductive Output Tube	
		IOT Power Type	Single	
		Power Capacity	30 kW	

# **Existing Transmitter Information**

Primary	New Transmitter Costs				
Transmitter	Section	Question	Response		
	New Transmitter	Use	Primary (Main)		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	No		
		Manufacturer			
		Model	HPTV-PRLX- U14		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	22.7 kW		
		Justification for New Transmitter	The manufacturer of the existing IOT transmitter is out of business and no factory support is available. The purchase price of a new transmitter is based on a Proposal from Comark for an MSDC IOT as suggested by the FCC. See attachment.		

Primary	Other Transmitter Costs	itter Costs			
Transmitter	Section	Question	Response		
	Electrical Service	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		
	HVAC Service	Does the replacement transmitter require HVAC Service?	No		
		Does the replacement transmitter require No	N/A		
		Size	N/A		
		Other Size	N/A		
	Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	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	
	Transmitter Electrical and Installation	Transmitter Electrical and Installation	

Transmitter HVAC	New Transmitter requires adequate HVA Please see Total Maintenance Inc. Quote L17-0781 Attached
Transmitter Power Conditioner	New Transmitter requires Power Conditioning. Please see Staco Energy Products quote # QUO-18357-3CFVK5-3 Attached
Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line

Antennas Section		Question Response	
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Information				
Antenna	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		
		station or stations? Is the existing antenna directional? Is antenna in operating condition? Is antenna located on or in close proximity to an antenna farm? Class	Yes		
		Is antenna located on or in close proximity to an antenna farm?	No		
	•	Class	Full Power		
	Manufacturer and Type	Manufacturer and Type       Mounting         Antenna position in stack	Side Mount		
			Not in Stack		
		Polarization	Horizontal		
		Туре	Slotted Coaxial		
		Number of Stations Supported	N/A		
		Number of Panels	N/A		
		Design power capacity in use	N/A		
		Lower Limit	N/A		
		Upper Limit	N/A		
		Other Antenna Type	N/A		
		ERP: (Effective Radiated Power)	615.0 kW		

Manufacturer	
Model	TFU- 22JSC-R C152
Year	2005

ntenna	Section	Question	Response
	New Antenna	Use	Primary (Main
	Description	Description of Use	N/A
		Change Type	Purchase Nev
		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	Class	Full Power
	Manufacturer and Typ	Mounting	Top Mount
		Antenna position in stack	Not in Stack
		Polarization	Elliptical
	Туре	Slotted Coaxial	
		Number of Stations Supported	N/A
		Number of Panels/Bays	N/A
		Lower Limit	N/A
		Upper Limit	N/A
		Design power capacity in use	N/A
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	1000.0 kW
		Manufacturer	
	Model	TFU-22ETT /VP-R C200	

Year	2019
Justification for New Antenna	The existing primary antenna is a single channel slotted
	coaxial which cannot accommodate the assigned
	channel. See Engineering statement regarding the
	relocation to a different transmitter site and the
	requirement for a top mounted
	antenna.

# Primary Other Antenna Costs

Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
		Туре	
		Number of channels supported	N/A
		Frequencies of channels supported	N/A
		Frequency	N/A
		Do you need a combiner output splitter /switcher for dual feed lines?	N/A
	Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
		Broadband or Single Channel?	Single Channel

	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

### Primary Antenna

#### Other Antenna Cost Not Listed

Name	Description
Antenna Input Feed-Through Complex	Antenna Input Feed-Through Complex
Wedding Cake Mounting Adapter	Wedding Cake Mounting Adapter
Antenna Support Pole	Antenna Support Pole

New Antenna Description       Use       Intervention         Description of Use       V/A         Change Type       Qurrention         Ownership       Owner         Owner       NA         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 Type       Class       Full         Mounting       Side       Side	A rchase w ned A
Description of Use       N/A         Change Type       Purr         Ownership       Owner         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 Type       Class       Full         Mounting       Side	A rchase w rned A S S
Change Type       Pure New         Ownership       Owner         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 Type       Class       Full         Mounting       Side	rchase w med A s
New New         Ownership       Owner         Owner       N/A         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       Class       Full         Mounting       Side	w /ned A S I Power
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 Type       Class       Full         Mounting       Side	A S I Power
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 Type       Class       Full         Mounting       Side	s I Power
Is antenna directional?       Yes         Will antenna be located on or in close proximity to an antenna farm?       No         New Antenna Manufacturer and Type       Class       Full         Mounting       Side	s I Power
Will antenna be located on or in close proximity to an antenna farm?NoNew Antenna Manufacturer and TypeClassFullMountingSide	l Power
New Antenna     Class     Full       Manufacturer and Type     Mounting     Side	l Power
Manufacturer and Type Mounting Side	
Mounting	e Mount
Antenna position in stack Not	t in Stack
Polarization Hor	rizontal
Type Slot Coa	utted axial
Number of Stations Supported N/A	4
Number of Panels/Bays N/A	ł
Lower Limit N/A	ł
Upper Limit N/A	¥.
Design power capacity in use N/A	¥.
Other Antenna Type N/A	¥.
ERP: (Effective Radiated Power) 615	5.0 kW
Manufacturer	
Model TBE	D
Year 201	18

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

#### С Interim

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Other Antenna Costs
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Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	4 1/16 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 Other Antenna Cost Not Listed

Antenna Information not provided.

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary	Existing Transmission Line			
Transmissio	n Line Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing transmission line shared with another station or stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission	Manufacturer		
	Line Manufacturer and Type	Туре	Rigid	
		Diameter	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	1360 feet per run	

Primary	New Transmission Line			
Transmissio	Section	Question	Response	
	New Transmission Line Costs	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Туре	Rigid	
		Diameter	6 1/8 inches	
		Other Diameter	N/A	
		Segment Length	20 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	985 feet per run	
		Justification for New Transmission Line	KGCW is moving to an alternate transmitter site; therefore the existing tranmission line cannot be used. See Engineering Technical Statement attached.	

Interim	New Transmission Line		
Transmissior	on Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	4 1/16 inches
		Segment Length	19 ½ '
		Other Segment Length	
		Number of parallel runs	1
		Length	1210 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 Other Transmission Line Expenses Not Listed Transmission

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

# **Existing Tower**

Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower	Type of change	Modify Existing	
	Description	Tower Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Leased	
		Is this tower consider Complex?	No	
		Is this tower currently shared with any other stations?	No	
		One or more FM, AM or TV radio broadcaster(s)	N/A	
		Others Types of Users	N/A	
		Is tower documented for structural analysis?	No	
		Is tower compliant with Rev G?	No	
	Existing Tower	Do you have a tower registration number?	Yes	
	Structure Registration	ASR Number	1222627	
	Coordinates (NAD83 (	Latitude (NAD83)	41° 08' 08.0" N-	
	North American Datum of 1983))	Longitude (NAD83)	090° 48' 30.0" W-	
		Overall Structure Height	1416.98 feet	
		Support Structure Height	1416.98 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	631.88 feet	

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Tower, LLC
Date Constructed	10/01/2008

# Primary Tower Modification Costs

	•
Tower	

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 Rigging Costs

Tower	Section	Question	Response
	Tower Rigging Costs	Complex Tower	N/A
	Helicopter Services Required	Are helicopter services required?	No

Primary	Other Tower Expenses Not Listed		
Tower	Name	Description	

Tower Foundation Ground work, modification, and Ice Bridge Construction	Excavation of Tower Foundation, pour Concrete Pad, remove and replace old Ice Bridge. Please see Precision Communications Inc. quote # 19385-5 attached
Weather Delays and Prorated Equipment	Weather Delays, Prorated Equipment and Freight on Bid materials. Please see Precision Communications Addendum to Proposal 19393-5 Attached.
Tower Structural Analysis, Foundation Mapping, Geotechnical Survey and Report	Tower Analysis needed before major modifications can be made.

Outside Professional	Section	Question	Response
	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	277
		Explanation	Schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel or personnel trained in project management for such complex projects. Internal accounting and Project management.
	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	Prepare and file Form FCC Construction Permit Application	Yes
Services	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)	Yes
	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	Yes
Number of Days	17
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 Other Professional Services Expenses Not Listed

Professional	Services Costs	Description	
	Prepare engineering portion of minor modification to CP application	Prepare engineering portion of minor modification to CP application	

Other	Section	Question	Response
Expenses	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	Yes
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	Yes
		FCC License to Cover Application	No
		FCC Special Temporary Authority Application	No
	Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
		Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
		Does this relocation require Equipment Storage?	Yes
		Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
		Does this relocation require MVPD Notification of a Channel Change?	Yes

# Other Expenses Not Listed

Other Expenses	Other Expenses Not Listed			
	Name	Description		
	Microwave Rental	Microwave Rental During Transition		
	STL TSL Antenna Transmission Line.	STL / TSL microwave transmission line and Antenna. Please see Primus Electronics Quote # Q032180		
	Sales Taxes	Sales and use tax on goods and services		
	STL Microwave Demod	Demodulator for Microwave signal to transmitter. Please see Heartland Video Systems Quote # WISQ63437 Attached		

## Transmitters

### Cost Information

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 Co Justificati
Description Primary Transmitter HPTV-PRLX- U14	\$1,364,723.11	\$1,136,218.11	Justification	\$885,272.11	Justinicati
Transmitter Power Conditioner	\$53,088.81	\$53,088.81	New Transmitter requires Power Conditioning. Please see Staco Energy Products quote # QUO- 18357-3CFVK5-3 Attached	\$53,088.81	N/A
Transmitter Electrical and Installation	\$110,238.30	\$110,238.30	See Land Communications estimate 1076	\$110,238.30	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$721,945.00	See Hitachi quote P#3981PRLXU14- 060519	\$721,945.00	N/A
Transmitter HVAC	\$45,446.00	\$45,446.00	New Transmitter requires adequate HVAC Please see Total Maintenance Inc. Quote # L17- 0781 Attached	N/A	N/A
Additional Interior RF System	\$140,000.00	\$140,000.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A

Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Sub-total	\$1,364,723.11	\$1,136,218.11	N/A	\$885,272.11	N/A
Total for all systems	\$3,968,886.87	\$3,448,553.97	N/A	\$2,241,576.37	N/A

## Components

Actual Information Description	File Name	
Transmitter Power Conditioner	Component Description: Amount:	Transmitter power conditioner \$1,600.00
	Component Description: Amount:	Transmitter power conditioner \$51,488.81
Transmitter Electrical and Installation	Component Description:	Transmitter electrical and installation,
	Amount:	installment #1 \$55,119.15
	Component Description:	Transmitter electrical and installation,
	Amount:	installment #2 \$55,119.15

Component Description:	Transmitter, installment #1, items 1 & 2 from
Amount:	invoice \$360,972.50
Component Description:	Transmitter, installment #2, items 1 & 2 from invoice
Amount:	\$324,875.25
Component Description:	Transmitter, installment #3, items 1 & 2 from invoice
Amount:	\$36,097.25
Information not provided.	
	Amount:   Component Description:   Amount:   Component Description:   Amount:   Information not provided.   Information not provided.   Information not provided.   Information not provided.   Information not provided.

#### Antennas

### Cost Information

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	\$279,710.00	\$277,500.00		\$0.00	
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	\$22,000.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$9,100.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A

UHF - High Power, Side Mount, basic slot antenna, 615 kW input, directional,, horizontally polarized	\$235,000.00	\$235,000.00	Used High Power Top Mount for budget because side mount is only rated for 500 kW	N/A	N/A
Primary Antenna FFU-22ETT VP-R C200	\$472,491.00	\$374,154.00		\$326,478.60	
Antenna Support Pole	\$109,220.00	\$109,220.00	See Dielectric quote 900083CMZ- 1	\$98,298.00	N/A
Wedding Cake Mounting Adapter	\$30,825.00	\$30,825.00	See Dielectric quote 900083CMZ- 1	\$27,742.50	N/A
Antenna Input Feed- Through Complex	\$18,656.00	\$18,656.00	See Dielectric quote 900083CMZ- 1	\$16,790.40	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

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,710.00	See Dielectric quote 900083CMZ- 1	\$9,639.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - High Power Top Mount (200- 1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$193,343.00	See Dielectric quote 900083CMZ- 1 less vpol cost	\$174,008.70	N/A
Sub-total	\$752,201.00	\$651,654.00	N/A	\$326,478.60	N/A
Total for all systems	\$3,968,886.87	\$3,448,553.97	N/A	\$2,241,576.37	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)	Information not provided.
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.

Sweep test of existing antenna	Information not provided.	
UHF - High Power, Side Mount, basic slot antenna, 615 kW input, directional,, horizontally polarized	Information not provided.	
Antenna Support Pole		
	Component Description:	Antenna support pole, installment #1
	Amount:	\$49,149.00
	Component Description:	Antenna support pole, installment #2
	Amount:	\$49,149.00
	Component Description:	Antenna support pole, installment #1
	Amount:	\$49,149.00
Wedding Cake Mounting Adapter	Component Description:	Wedding cake
	Amount:	mounting adapter, installment #1 \$13,871.25
	Component Description:	Wedding cake mounting adapter,
	Amount:	installment #2 \$13,871.25
	Component Description:	Wedding cake mounting
	Amount:	adapter, installment #1 \$13,871.25

Antenna Input Feed-Through		
Complex	Component Description:	Feed through complex,
		installment #2
	Amount:	\$8,395.20
	Amount.	ψ0,000.20
	Component Description:	Feed through
		complex,
		installment #1
	Amount:	\$8,395.20
	Component Description:	Feed through
		complex,
		installment #1
	Amount:	\$8,395.20
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, single		
channel, at antenna input,	<b>Component Description:</b>	Elbow complex,
per 6 1/8. feedline (if needed)		installment #2
	Amount:	\$4,819.50
	Component Description:	Elbow complex,
		installment #1
	Amount:	\$4,819.50
	Component Description:	Elbow complex,
		installment #1
	Amount:	\$4,819.50
Sweep test of existing antenna	Information not provided.	

Mo sta	HF - High Power Top bunt (200-1000 kW), One ation antenna , elliptically circularly polarized	Component Description: Amount:	Antenna, installment #2 \$87,004.35
		Component Description:	Antenna, installment #1
		Amount:	\$87,004.35
		Component Description:	Antenna, installment #1
		Amount:	\$87,004.35

#### **Transmission Line**

#### Cost Information

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	\$171,820.00	\$163,350.00		\$0.00	
Rigid Transmission Line - copper, 4 1 /16"	\$171,820.00	\$163,350.00	N/A	N/A	N/A
Primary Transmission Line	\$198,970.00	\$144,510.10		\$130,059.10	
Rigid Transmission Line - copper, 6 1/8"	\$198,970.00	\$144,510.10	See Dielectric quote 900083CMZ- 1	\$130,059.10	N/A
Sub-total	\$370,790.00	\$307,860.10	N/A	\$130,059.10	N/A
Total for all systems	\$3,968,886.87	\$3,448,553.97	N/A	\$2,241,576.37	N/A

Actual Information Description	File Name
Rigid Transmission Line - copper, 4 1/16"	Information not provided.

Rigid Transmission Line - copper, 6 1/8"	Component Description:	Transmission line, installment #2, lines 6 and 10 of invoice
	Amount:	\$65,029.55
	Component Description:	Transmission line, installment #1
	Amount:	\$65,029.55
	Component Description:	Transmission line,
		installment #1, lines 6 and 10 of
	Amount:	invoice \$65,029.55

# **Tower Equipment and Rigging Costs**

#### Cost Information

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

	<b>D</b>				
Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual C Justifica
Primary Tower GTOWER	\$1,056,340.00	\$920,640.00		\$789,340.00	
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	\$15,400.00	N/A
Weather Delays and Prorated Equipment	\$121,700.00	\$121,700.00	Weather Delays, Prorated Equipment and Freight on Bid materials. Please see Precision Communications Addendum to Proposal 19393- 5 Attached.	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$298,500.00	See PCI quote 19394-5	\$298,500.00	N/A
Tower Structural Analysis, Foundation Mapping, Geotechnical Survey and Report	\$28,440.00	\$28,440.00	See proposals Paul J Ford & Co A00018- 0122.001 and A00018- 0122.003	\$28,440.00	N/A

Major tower reinforcement /modifications	\$421,000.00	\$198,600.00	See PCI quote 19393-5	\$198,600.00	N/A
Tower Foundation Ground work, modification, and Ice Bridge Construction	\$248,400.00	\$248,400.00	Excavation of Tower Foundation, pour Concrete Pad, remove and replace old Ice Bridge. Please see Precision Communications Inc. quote # 19385-5 attached	\$248,400.00	N/A
Sub-total	\$1,056,340.00	\$920,640.00	N/A	\$789,340.00	N/A
Total for all systems	\$3,968,886.87	\$3,448,553.97	N/A	\$2,241,576.37	N/A

Actual Information Description	File Name	
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Component Description: Amount:	Tower modification drawings \$2,800.00
	Component Description: Amount:	Tower mapping \$11,750.00
	Component Description: Amount:	Structure surveying \$850.00
Weather Delays and Prorated Equipment	Information not provided.	

Tall Tower (greater than 500')				
500)	Component Description:	Main antenna installation,		
		installment #1		
	Amount:	\$199,000.00		
	Component Description:	Main antenna installation, installment #2		
	Amount:	\$99,500.00		
Tower Structural Analysis,				
Foundation Mapping, Geotechnical Survey and	Component Description:	Tower modification		
Report	A maximum to	drawings		
	Amount:	\$3,000.00		
	Component Description:	Structural analysis,		
		foundation		
		mapping and		
		geotechnical report		
	Amount:	\$25,440.00		
Major tower reinforcement				
/modifications	<b>Component Description:</b>	Tower		
		modifications,		
		installment #2		
	Amount:	\$66,200.00		
	Component Description:	Tower		
		modifications,		
		installment #1		
	Amount:	\$132,400.00		

Tower Foundation Ground		
work, modification, and Ice Bridge Construction	<b>Component Description:</b>	Tower mods and
Bridge Construction		ice shield,
		installment #1
	Amount:	\$165,600.00
	Component Description:	Tower mods and
		ice shield,
		installment #2
	Amount:	\$82,800.00

## **Outside Professional Services**

#### Cost Information

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	\$119,791.00	\$126,300.00		\$59,293.00	
Prepare engineering portion of minor modification to CP application	\$5,000.00	\$5,000.00	See Osborn invoices 31219 and	\$5,000.00	N/A
Additional Field Engineering Service, 17 Days	\$34,000.00	\$34,000.00	N/A	N/A	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,050.00	N/A	\$550.00	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 - 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 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	\$2,050.00	\$1,500.00	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
Project management of the transition	\$43,766.00	\$52,500.00	Estimated 350 hours at \$150 per hour	\$41,243.00	N/A
Sub-total	\$119,791.00	\$126,300.00	N/A	\$59,293.00	N/A
Total for all systems	\$3,968,886.87	\$3,448,553.97	N/A	\$2,241,576.37	N/A

Actual Information Description	File Name	
Prepare engineering portion of minor modification to CP application	Component Description:	Prepare engineering portion of minor modification of CP permit to change antenna models \$2,500.00
	Component Description:	Amendment application provides community of license compliance exhibits and Longley-Rice verification \$2,500.00

Additional Field Engineering Service, 17 Days	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Component Description: Amount:	Prepare and submit FAA filing, item 9 from invoice summary \$550.00
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	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	Component Description:	Vendor has issued a revised invoice;
Application		see 29362R
	Amount:	\$3,000.00
	Component Description:	Vendor has issued
		a revised invoice;
	A	see 29362R
	Amount:	(\$3,000.00)
	Component Description:	Prepare
		engineering section
		of FCC Form 2100,
		item 4 from invoice
		summary
	Amount:	\$3,000.00
Perform engineering study		
for new channel	<b>Component Description:</b>	Perform
assignment and antenna		engineering study,
development		item 3 from invoice
		summary
	Amount:	\$7,000.00
	Component Description:	Vendor has issued
	compensation boostiption	a revised invoice;
		see 29362R
	Amount:	\$7,000.00
	Component Description:	Vendor has issued
		a revised invoice;
		see 29362R
	Amount:	(\$7,000.00)
Address transition timing	Information not provided.	
and coordination issues w/ other stations and wireless		

Prepare and or review reimbursement form	Component Description:	Prepare reimbursement form, item 2 from
	Amount:	invoice summary \$2,500.00
	Component Description:	Vendor has issued a revised invoice; see 29362R
	Amount:	\$2,500.00
	Component Description:	Vendor has issued a revised invoice; see 29362R
	Amount:	(\$2,500.00)
Project management of the transition	Component Description:	Project management services 10.27.18 through 11.30.18
	Amount:	\$4,150.00
	Component Description:	Project management services 1.1.18 through 1.26.18
	Amount:	\$750.00

Component Description:	Project Management for Structural Analysis and Tower Modifications including consultants Kessler and Gehman Associates. Services from January 27, 2018 through February 23, 2018. \$3,675.00
Component Description:	Project Management for Structural Analysis and Tower Modifications for services from June 30, 2018 through July 27, 2018. \$825.00
Component Description: Amount:	Project management services 1.1.18 through 1.26.18 \$375.00
Component Description: Amount:	Project management services 4.27.19 through 5.31.19 \$1,800.00

Component Description:	Project management services 9.29.18 through 10.26.18, items 1 and 2 from invoice summary \$525.00
Component Description: Amount:	Project management services June 2019 \$227.50
Component Description: Amount:	Project management services 7.27.19 through 8.30.19 \$1,580.00
Component Description: Amount:	Project management services \$7,782.50
Component Description:	Project management services 8.31.19 through 9.27.19 \$1,106.00
Component Description:	Project management services April 2019 \$45.50
Component Description:	Project management services 6.1.19 through 6.28.19
Amount:	\$375.00

Component Description: Amount:	Project management services 12.1.18 through 1.31.19 \$1,325.00
Component Description:	Project management services February 2019
Amount:	\$123.50
Component Description:	Prepare FCC Schedule 387, item 6 from invoice
Amount:	summary \$150.00
Component Description:	Vendor has issued a revised invoice; see 29362R
Amount:	\$1,000.00
Component Description:	Project management services 7.28.18 through 9.28.18
Amount:	\$650.00
Component Description:	Project management services 3.2.19 through 3.29.19
Amount:	\$75.00

Component Description: Amount:	Project management services, item 7 from invoice summary \$5,758.00
Component Description:	Project management services 2.1.19 through 3.1.19
Amount:	\$450.00
Component Description: Amount:	Vendor has issued a revised invoice; see 29362R (\$1,000.00)
Component Description:	Prepare FCC Schedule 387, item 5 from invoice summary
Amount:	\$300.00
Component Description:	Project management services 3.30.19 through 4.26.19
Amount:	\$1,425.00
Component Description:	Project management services 5.26.18 through 6.29.18
Amount:	\$420.00

Component Description:	Project
	management
	services, item 1
	from invoice
	summary
Amount:	\$7,350.00

## **Other Expenses**

#### Cost Information

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	\$305,041.76	\$305,881.76		\$51,133.56	
STL Microwave Demod	\$1,215.32	\$1,215.32	Microwave Demod needed for signal to Transmitter from Studio. Please see Attached Quote # WISQ63437 from Heartland Video Systems	N/A	N/A
Sales Taxes	\$165,800.00	\$165,800.00	N/A	\$45,121.56	N/A
STL TSL Antenna Transmission Line.	\$15,971.44	\$15,971.44	N/A	N/A	N/A
Microwave Rental	\$3,895.00	\$3,895.00	Microwave rental during transition	N/A	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$3,500.00	\$3,500.00	N/A	N/A	N/A

Equipment Storage	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	\$1,500.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$2,012.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	\$25,000.00	\$25,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$2,500.00	Time involved for Modification /Amendment of Post- Transition Construction Permit Application	\$2,500.00	N/A
Sub-total	\$305,041.76	\$305,881.76	N/A	\$51,133.56	N/A
Total for all systems	\$3,968,886.87	\$3,448,553.97	N/A	\$2,241,576.37	N/A

Actual Information Description	File Name
STL Microwave Demod	Information not provided.

Sales Taxes		
	Component Description:	Tax on transmitter, installment #3
	Amount:	\$2,256.08
	Component Description:	Tax on transmitter,
	Amount:	installment #1 \$22,560.78
	Component Description:	Tax on transmitter, installment #2 \$20,304.70
		φ20,00 11 0
STL TSL Antenna Transmission Line.	Information not provided.	
Microwave Rental	Information not provided.	
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	Component Description:	Freight costs for tower modification
	Amount:	materials \$1,500.00
DTV Medical Facility		
Notification	Component Description:	Notification of medical facilities
	Amount:	\$2,012.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	

FCC Filing Fees - Form		
2100 minor change CP	Component Description:	Prepare
application		Engineering
		Portion, item 8
		from invoice
		summary
	Amount:	\$2,500.00

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,968,886.87	\$3,448,553.97	\$2,241,576.37

Reimbursem	entestiatus	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	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.	
		<ol> <li>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>The above-named</li> </ol>	
		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).
- 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 03/31/2020

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 IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol> <li>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> </ol>	
		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).
- 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.

	<ul> <li>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</li> <li>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.</li> </ul>	
-	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
		03/31/2020

# Attachments