

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: File Number:	73318 000002	Service: DTV 7985	Call Sign:	WNEP-TV	Channel: 50 (UHF)
FRN: 002	8358455	Date Submitted:	05/13 /2021		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
TEGNA Broadcast Holdings, LLC	Denise A. Branson, Sr. Paralegal 8350 BROAD STREET, SUITE 2000 Tysons, VA 22102 United States	+1 (703) 873-6606	dbranson@tegna. com	Limited Liability Company

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information			
Contact Information	Applicant	Address	Phone	Email
	Gary Davis Regional Head of Technology and Operations TEGNA	Gary Davis 8350 Broad Street Suite 2000	+1 (404) 312- 9199	gadavis@tegna. com
		Tysons, VA 30019 United States		

Broadcaster	Question	Response
Information and Transition Plan	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 Antenna and Transmission Line Replace transmitter

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	SigmaCD- P2		
		Year	2008		
		Туре	Inductive Output Tube		
		IOT Power Type	Тwo		
		Power Capacity	60 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?	Yes		
		Manufacturer			
		Model	ULXTE-90		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	51.6 kW		
		Justification for New Transmitter	Current transmitter is not re tunable as state by the manufacturer		

Primary	Other Transmitter Costs				
Transmitter	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	2 inches		
		Length	200.0 feet		
		Other Electrical Service	No		

	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	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 Other Transmitter Cost Not Listed

Transmitter	Name	Description	
	Site survey	Site survey	
	Channel Change Services from Ch. 16 to Ch. 21	Channel Change Services from Ch. 16 to Ch. 21	

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?	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	Not in Stack	
		Polarization	Elliptical	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels	N/A	
		Design power capacity in use	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	500.0 kW	

Manufacturer	
Model	ATW18H3H
Year	2009

Primary	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna Description	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Ownership	Owned	
		Owner	N/A	
		Is antenna shared?	No	
		Is antenna directional?	Yes	
		Will antenna be located on or in close proximity to an antenna farm?	No	
	New Antenna Manufacturer and Types	Class	Full Power	
		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)	248.0 kW	
		Manufacturer		
			1	

Model	TFU-21ETT /VP-R 04SF
Year	2020
Justification for New Antenna	Current antenna will not operate on assigned channel

Antenna	Other Antenna Costs			
	Section	Question	Response	
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?		
		Туре		
		Number of channels supported	N/A	
		Frequencies of channels supported	N/A	
		Frequency	N/A	
		Do you need a combiner output splitter /switcher for dual feed lines?	N/A	
	Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes	
		Broadband or Single Channel?	Single Channel	
		Feed Line Size	6 1/8 inches inches	
	Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?		
	Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No	
	Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes	

Primary Antenna	Other Antenna Cost Not Listed		
	Name	Description	
	Tower Top Interface	Elbows and Line to transition at the top of the tower	
	AFM 6-75 CH21 18 inches LONG, EXTERIOR	AFM 6-75 CH21 18.00" LONG, EXTERIOR	

Primary	Add 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 this antenna currently shared with any other stations?	No	
		Is this 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	Not in Stack	
		Polarization	Elliptical	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels	N/A	
		Design power capacity in use	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	500.0 kW	

Manufacturer	
Model	ATW18H3H
Year	2009

Primary	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna Description	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Ownership	Owned	
		Owner	N/A	
		Is antenna shared?	No	
		Is antenna directional?	No	
		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	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)	760.0 kW	
		Manufacturer		
			1	

Model	TFU-20ETT /VP-R O4
Year	2018
Justification for New Antenna	Old antenna will not work on the new channel

Primary Antenna	Other Antenna Costs			
	Section	Question	Response	
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?		
		Туре		
		Number of channels supported	N/A	
		Frequencies of channels supported	N/A	
		Frequency	N/A	
		Do you need a combiner output splitter /switcher for dual feed lines?	N/A	
	Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes	
		Broadband or Single Channel?	Single Channel	
		Feed Line Size	6 1/8 inches inches	
	Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?		
	Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No	
	Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes	

Primary Antenna	Other Antenna Cost Not Listed		
	Name	Description	
	Product RTLSCR650-5 TLSCR	RIGID - COPPER TLSCR T/L 6-50 EIA LENGTH UP TO 5' FIXED FLG 1 END / SWIVEL FLG 1 END	
	Product R70668 TL Tuner Indoor Use	T/L TUNER INDOOR USE	
	Product R66595 Reducer	REDUCER 6-75 X 7-75 EIA CU TO BE TUNED WITH ELBOW COMPLEX FOR WNEP CH16	
	Product RTLSCR675-20 TLSCR	RIGID - COPPER TBD TLSCR T/L 6-75 EIA LENGTH 15' TO 20' FIXED FLG 1 END/ SWIVEL FLG 1 END	
	Product REPACKVPOL	VPOL COMPONENTS	
	Product RTT675 Trans test	TRANS TEST 6-75	

Interim	New Antenna Costs			
Antenna	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?	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 Power	
		Mounting	Side Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Broadband Slot	
		Number of Stations Supported	1	
		Number of Panels/Bays	8	
		Lower Limit	470.00 MHz	
		Upper Limit	670.00 MHz	
		Design power capacity in use	90.0 %	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	200.0 kW	
		Manufacturer		
		Model	TFU-8WB- 1-R	
		Year	2018	
			2018	

Other Antenna Costs

Interim Antenna

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?	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

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

Existing Transmission Line Primary Existing Transmission

ion	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	Manufacturer	ERI
	Line Manufacturer and Type	Туре	Rigid
		Diameter	6 1/8 inches
		Other Diameter	N/A
		Segment Length	19 3/4 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	1000 feet per run

Primary Other Transmission Line Expenses Not Listed

Transmission	Naine	Description
	Line refurbishment	Line refurbishment
	RTLSCR675-20	RIGID TRANSMISSION LINE - COPPER T /L 6- 75 EIA LENGTH 15 ft TO 20 ft FIXED FLG 1 END SWIVEL FLG 1 END LENGTH TBD
	RTLSCR650-10	RTLSCR650-10

Interim	New Transmission Line			
Transmissio	on Section	Question	Response	
	New Transmission Line Costs	Use	Interim	
		Description of Use	N/A	
		Change Type	Purchase New	
		Туре	Rigid	
		Diameter	4 1/16 inches	
		Segment Length	19 ¾ '	
		Other Segment Length		
		Number of parallel runs	1	
		Length	900 feet per run	
		Justification for New Transmission Line	Temporary Line to operate from during transition. We are awaiting quotes in this system	

Other Transmission Line Expenses Not Listed

Transmission not provided.

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 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?	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?	Yes	
		Is tower compliant with Rev G?	Yes	
	Existing Tower Structure Registration	Do you have a tower registration number?	Yes	
		ASR Number	1266878	
	Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 10' 57.2" N-	
		Longitude (NAD83)	075° 52' 13.9" W-	
		Overall Structure Height	836.28 feet	
		Support Structure Height	802.81 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	2134.82 feet	

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Local TV Pennsylvania, LLC
Date Constructed	01/23/2009

Primary Tower Modification Costs

Tower

Tower

SectionQuestionResponseEngineering StudyPlease what type of engineering study is
required, if any:Study needed
for documented
towerTower ReinforcementsPlease select whether tower reinforcements
are needed:Minor
Reinforcements
needed

Primary Tower Rigging Costs

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	
	Site Work	Site Work	

Outside Professional	Section	Question	Response
	Services Costs Outside Project Management Services	Do you require outside project management services?	No
		Number of Hours	N/A
		Explanation	N/A
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	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	No
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Other Professional Services Expenses Not Listed

Professional	Services Costs	Description
	Other Engineering Services	Other Engineering Services
	Project management of the transition	Project management of the transition

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	Yes
		Non-zoning permits	No
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	Yes
		FCC License to Cover Application	Yes
		FCC Special Temporary Authority Application	Yes
	Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	No
		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	Other Expenses Not Listed				
Expenses	Name	Description			
	Viewer call assistance service	Viewer call assistance service			

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 Cost Justification
Primary Transmitter ULXTE-90	\$1,334,151.91	\$1,389,201.91		\$1,372,201.91	
Channel Change Services from Ch. 16 to Ch. 21	\$25,964.00	\$25,964.00	See attached / uploaded PDF file titled "Gates US0338709 v210413gv1. pdf"	\$25,964.00	N/A
Site survey	\$6,173.33	\$6,173.33	See attached / uploaded PDF file titled "Gates US0324170 v210427jgv1. pdf"	\$6,173.33	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$95,850.00	See attached / uploaded PDF file titled "Herron 6779 v210423jgv1. pdf"	\$95,850.00	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$12,000.00	N/A	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 51.6 kW	\$1,244,214.58	\$1,244,214.58	See attached / uploaded PDF file titled "Gates US0327108 v210503jgv1. pdf"	\$1,244,214.58	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$5,000.00	N/A	N/A	N/A
Sub-total	\$1,334,151.91	\$1,389,201.91	N/A	\$1,372,201.91	N/A
Total for all systems	\$2,978,803.62	\$2,862,205.62	N/A	\$2,309,851.87	N/A

Components

Actual Information Description	File Name	
Channel Change Services from Ch. 16 to Ch. 21	Component Description: Amount:	Gates US0338709 v210413gv1 \$25,964.00
Site survey	Component Description: Amount:	Gates US0324170 v210427jgv1 \$6,173.33
Switchgear - industrial 800 amp	Component Description: Amount: Component Description: Amount:	Herron 6821 v210426jgv1 \$63,900.00 Herron 6779 v210426jgv1 \$31,950.00

Service entrance 3 phase /800 amp/208 volt	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 51.6 kW	Component Description: Amount:	Gates US0327108 v210503jgv1 \$1,244,214.58
2" Rigid Conduit and Wiring (Cost per foot)	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 Justificatior
Interim Antenna TFU- 8WB-1-R	\$205,800.00	\$74,400.00		\$0.00	
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$8,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - Lower Power Side Mount, One station - 200- 500 kW, horizontally polarized	\$189,500.00	\$60,000.00	N/A	N/A	N/A
Primary Antenna TFU- 21ETT/VP-R 04SP	\$331,470.00	\$244,162.00		\$224,162.00	
AFM 6-75 CH21 18 inches LONG, EXTERIOR	\$2,940.00	\$2,940.00	See the attached / uploaded PDF file titled "Die MAN01580 v210415gv1. pdf"	\$2,940.00	N/A
Tower Top Interface	\$20,000.00	\$20,000.00	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 the attached / uploaded PDF file titled "Die MAN01580 v210415gv1. pdf"	\$10,710.00	N/A
UHF - High Power Top Mount (200- 1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$204,112.00	Estimated Cost is the new Primary Antenna and V pol; See the attached / uploaded PDF file titled "Die MAN01580 v210415gv1. pdf"	\$204,112.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Primary Antenna TFU- 20ETT/VP-R O4	\$334,930.00	\$209,643.00		\$209,643.00	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See attached / uploaded PDF files titled "Die MAN00552 v210506jgv1. pdf" and "Die MAN00660 v210506jgv1. pdf"	\$6,400.00	N/A
Product	\$1,056.00	\$1,056.00	N/A	\$1,056.00	N/A

Product R70668 TL Tuner Indoor Use	\$1,400.00	\$1,400.00	N/A	\$1,400.00	N/A
Product RTLSCR675- 20 TLSCR	\$1,719.00	\$1,719.00	See attached / uploaded PDF files titled "Die MAN00552 v210506jgv1. pdf" and "Die MAN00660 v210506jgv1. pdf"	\$1,719.00	N/A
Product RTT675 Trans test	\$2,125.00	\$2,125.00	See attached / uploaded PDF files titled "Die MAN00552 v210506jgv1. pdf" and "Die MAN00660 v210506jgv1. pdf"	\$2,125.00	N/A
Product R66595 Reducer	\$2,100.00	\$2,100.00	See attached / uploaded PDF files titled "Die MAN00552 v210506jgv1. pdf" and "Die MAN00660 v210506jgv1. pdf"	\$2,100.00	N/A

Total for all	\$2,978,803.62	\$2,862,205.62	N/A	\$2,309,851.87	N/A
Sub-total	\$872,200.00	\$528,205.00	N/A	\$433,805.00	N/A
UHF - High Power Top Mount (200- 1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$166,545.00	See attached / uploaded PDF files titled "Die MAN00552 v210506jgv1. pdf" and "Die MAN00660 v210506jgv1. pdf"	\$166,545.00	N/A
Product REPACKVPOL	\$18,000.00	\$18,000.00	See attached / uploaded PDF files titled "Die MAN00552 v210506jgv1. pdf" and "Die MAN00660 v210506jgv1. pdf"	\$18,000.00	N/A
complex, single channel, at antenna input, per 6 1/8. reedline (if needed)			attached / uploaded PDF files titled "Die MAN00552 v210506jgv1. pdf" and "Die MAN00660 v210506jgv1. pdf"		

Components

Actual Information	
Description	File Name

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 - Lower Power Side Mount, One station - 200- 500 kW, horizontally polarized	Information not provided.	
AFM 6-75 CH21 18 inches LONG, EXTERIOR	Component Description: Amount:	Die MAN01581 v210415gv1 \$1,323.00
	Component Description: Amount:	Die 779001 v210507pmv1b \$294.00
	Component Description: Amount:	Die MAN01580 v210415gv1 \$1,323.00
Tower Top Interface	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description: Amount:	Die 779001 v210507pmv1b \$1,071.00
	Component Description: Amount:	Die MAN01581 v210415gv1 \$4,819.50
	Component Description: Amount:	Die MAN01580 v210415gv1 \$4,819.50

UHF - High Power Top		
Mount (200-1000 kW), One	Component Description:	Die MAN0158 [,]
station antenna, elliptically		v210415gv1
or circularly polarized	Amount:	\$83,514.15
	Component Description:	Die MAN0158 [,]
		v210415gv1
	Amount:	\$8,336.25
	Component Description:	Die 779001
		v210507pmv1
	Amount:	, \$1,852.50
		·
	Component Description:	Die 779001
		v210507pmv1
	Amount:	\$18,558.70
	Component Description:	Die MAN0158
		v210415gv1
	Amount:	\$8,336.25
	Component Description:	Die MAN01580
	Americant	v210415gv1
	Amount:	\$83,514.15
Sweep test of existing		
antenna	Component Description:	Die MAN0158
		v210415gv1
	Amount:	\$2,880.00
	Component Description:	Die MAN0158 ⁻
		v210415gv1
	Amount:	\$2,880.00
	Component Description:	Die 913004
		v210507pmv1
	Amount:	\$640.00

Sweep test of existing antenna	Component Description: Amount:	Die MAN00552 v210506jgv1 \$2,880.00
	Component Description: Amount:	Die MAN00660 v210506jgv1 \$2,880.00
	Component Description: Amount:	Die 599018 v210513pmv1 \$640.00
Product RTLSCR650-5 TLSCR	Component Description: Amount:	Die 536007 v210513pmv1 \$1,056.00
Product R70668 TL Tuner Indoor Use	Component Description: Amount:	Die 536007 v210513pmv1 \$1,400.00
Product RTLSCR675-20 TLSCR	Component Description: Amount:	Die MAN00552 v210506jgv1 \$773.55
	Component Description: Amount:	Die 536007 v210513pmv1 \$171.90
	Component Description: Amount:	Die MAN00660 v210506jgv1 \$773.55

Product RTT675 Trans test	Component Description: Amount:	Die MAN00552 v210506jgv1 \$956.25
	Component Description: Amount:	Die 389005 v210513pmv1 \$212.50
	Component Description: Amount:	Die MAN00660 v210506jgv1 \$956.25
Product R66595 Reducer		
	Component Description: Amount:	Die MAN00552 v210506jgv1 \$945.00
	Component Description: Amount:	Die 389005 v210513pmv1 \$210.00
	Component Description: Amount:	Die MAN00660 v210506jgv1 \$945.00

Component Description: Amount:	Die MAN00660 v210506jgv1 \$4,634.10
Component Description: Amount:	Die 389005 v210513pmv1 \$1,029.80
Component Description: Amount:	Die MAN00552 v210506jgv1 \$4,634.10
Component Description: Amount:	Die MAN00660 v210506jgv1 \$8,100.00
Component Description: Amount:	Die MAN00552 v210506jgv1 \$8,100.00
Component Description: Amount:	Die 350012 v210513pmv1 \$1,800.00
	Amount:Component Description:Amount:Component Description:Amount:Component Description:Amount:Component Description:Amount:Component Description:Amount:

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	Die MAN00660 v210506jgv1 \$74,945.25
	Component Description:	Die MAN00552
		v210506jgv1
	Amount:	\$74,945.25
	Component Description:	Die 350012
		v210513pmv1
	Amount:	\$16,654.50

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	\$127,800.00	\$121,500.00		\$0.00	
Rigid Transmission Line - copper, 4 1 /16"	\$127,800.00	\$121,500.00	N/A	N/A	N/A
Primary Transmission Line	\$59,256.00	\$59,256.00		\$1,737.00	
RTLSCR650- 10	\$1,737.00	\$1,737.00	N/A	\$1,737.00	N/A
Line refurbishment	\$55,800.00	\$55,800.00	See attached / uploaded PDF file titled "Die 351002 v210427jgv1. pdf"	\$0.00	N/A
RTLSCR675- 20	\$1,719.00	\$1,719.00	See the attached / uploaded PDF file titled "Die MAN01580 v210415gv1. pdf"	\$0.00	N/A
Sub-total	\$187,056.00	\$180,756.00	N/A	\$1,737.00	N/A
Total for all systems	\$2,978,803.62	\$2,862,205.62	N/A	\$2,309,851.87	N/A

Actual Information Description	File Name	
Rigid Transmission Line - copper, 4 1/16"	Information not provided.	
RTLSCR650-10		
	Component Description:	Die 827009
		v210511pmv1
	Amount:	\$1,737.00
Line refurbishment		
	Component Description:	Die 351002
		v210427jgv1
	Amount:	\$55,800.00
RTLSCR675-20		
	Component Description:	Die 779001
		v210507pmv1b
	Amount:	(\$1,547.10)
	Component Description:	Die MAN01580
	Component Decomponent	v210415gv1
	Amount:	\$773.55
	Component Description:	Die MAN01581
	Component Description.	v210415gv1
	Amount:	\$773.55

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).

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justification
Primary Tower TOWER	\$397,300.00	\$591,637.00		\$393,161.00	
Site Work	\$16,200.00	\$16,200.00	See attached / uploaded PDF file titled "B and B 21195 v210426jgv1. pdf"	\$16,200.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$5,500.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$488,437.00	See attached / uploaded PDF files titled "FDH SIN002490R v210422jgv1. pdf" and "FDH E- 177476 v210426jgv1. pdf"	\$371,461.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$75,000.00	N/A	N/A	N/A
Sub-total	\$397,300.00	\$591,637.00	N/A	\$393,161.00	N/A
Total for all systems	\$2,978,803.62	\$2,862,205.62	N/A	\$2,309,851.87	N/A

Actual Information Description	File Name	
Site Work	Component Description: Amount:	B and B 21195 v210426jgv1 \$16,200.00
Structural engineering tower load study for well documented tower	Component Description: Amount:	FDH 158502 v210426jgv1 \$5,500.00
Tall Tower (greater than 500')	Component Description: Amount:	FDH E-177476 v210426jgv1 \$116,976.00
	Component Description: Amount:	FDH SIN002490R v210422jgv1 \$127,242.50
	Component Description: Amount:	FDH SIN006100 v210422jgv1 \$127,242.50
Minor tower reinforcement /modifications	Information not provided.	

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 Cos Justification
Outside Professional Services	\$80,361.75	\$65,276.75		\$40,201.75	
Project management of the transition	\$17,833.00	\$17,833.00	See attached / uploaded PDF files titled, "Osborn 39689 v210125pmv1; Osborn 40022 v210125pmv1, Osborn 40308 v210125pmv1, Osborn 40656 v210125pmv1 & Osborn 40961 v210125pmv1"	\$17,833.00	N/A
Other Engineering Services	\$13,398.75	\$13,398.75	N/A	\$13,398.75	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	\$0.00	N/A	N/A	N//
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/J
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$675.00	N//
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$4,300.00	See attached invoices	\$4,300.00	N/J
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/J
Prepare and or review reimbursement form	\$2,630.00	\$3,995.00	See attached invoices.	\$3,995.00	N//
RF Exposure Measurements	\$21,050.00	\$10,000.00	N/A	N/A	N/
Sub-total	\$80,361.75	\$65,276.75	N/A	\$40,201.75	N/

Total for all	\$2,978,803.62	\$2,862,205.62	N/A	\$2,309,851.87	N/A
systems					

Actual Information Description	File Name	
Project management of the transition	Component Description: Amount:	Osborn 37941 v210412pmv1 \$237.00
	Component Description: Amount:	Osborn 37941 v210412pmv1 \$150.00
	Component Description: Amount:	Osborn 40022 v210125pmv1 \$1,422.00
	Component Description: Amount:	Osborn 37047 v210412pmv1 \$300.00
	Component Description: Amount:	Osborn 38335 v210114pmv1 \$790.00
	Component Description: Amount:	Osborn 39395 v210114pmv1 \$3,652.00
	Component Description: Amount:	Osborn 36546 v210308pmv1 \$158.00

Component Description: Amount:	Osborn 37442 v210412pmv1 \$1,185.00
Component Description: Amount:	Osborn 40308 v210125pmv1 \$948.00
Component Description: Amount:	Osborn 42170 v210412pmv1 \$79.00
Component Description: Amount:	Osborn 39689 v210125pmv1 \$870.00
Component Description: Amount:	Osborn 40656 v210125pmv1 \$395.00
Component Description: Amount:	Osborn 39009 v210114pmv1 \$1,659.00
Component Description: Amount:	Osborn 41455 v210412pmv1 \$158.00
Component Description: Amount:	Osborn 39689 v210125pmv1 \$2,923.00
Component Description: Amount:	Osborn 41749 v210412pmv1 \$79.00

	Component Description: Amount:	Osborn 38633 v210114pmv1 \$1,959.00
	Component Description: Amount:	Osborn 40961 v210125pmv1 \$869.00
Other Engineering Services	Component Description: Amount:	Osborn 40022 v210125pmv1 \$466.25
	Component Description: Amount:	Osborn 37047 v210412pmv1 \$9,467.50
	Component Description: Amount:	Osborn 39395 v210114pmv1 \$3,465.00
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 request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Osborn 39689 v210125pmv1 \$675.00

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Osborn 39395 v210114pmv1 \$825.00
	Component Description: Amount:	Osborn 37442 v210412pmv1 \$3,475.00
Perform engineering study for new channel assignment and antenna development	Information not provided.	

Prepare and or review reimbursement form	Component Description:	Osborn 39689
	••••••••••••••••••••••••••••••	v210125pmv1
	Amount:	\$25.00
	Component Description:	Osborn 40022
	Amount:	v210125pmv1 \$1,585.00
	Component Description:	Osborn 39395
	Amount:	v210114pmv1 \$250.00
	Component Description:	Osborn 42170
	Amount:	v210412pmv1 \$1,440.00
	Common and Deconingian	Och are 11710
	Component Description: Amount:	Osborn 41749 v210412pmv1 \$60.00
	Component Description:	Osborn 40308 v210125pmv1
	Amount:	\$150.00
	Component Description:	Osborn 38633 v210114pmv1
	Amount:	\$275.00
	Component Description:	Osborn 41455
	Amount:	v210412pmv1 \$210.00
RF Exposure Measurement	s Information not provided.	

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	\$107,733.96	\$107,128.96		\$68,745.21	
Viewer call assistance service	\$20,896.82	\$20,896.82	See attached / uploaded PDF file titled "Inktel 35286 v210427jgv1. pdf"	\$20,896.82	N/A
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$0.00	\$0.00	N/A	N/A	N/A
Equipment Storage	\$25,000.00	\$25,000.00	N/A	\$12,747.50	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$7,500.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	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	\$15,000.00	\$15,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$28,647.14	\$28,647.14	See attached / uploaded PDF file titled "Gates US0327108 v210503jgv1. pdf"	\$27,600.89	N/A
Sub-total	\$107,733.96	\$107,128.96	N/A	\$68,745.21	N/A
Total for all systems	\$2,978,803.62	\$2,862,205.62	N/A	\$2,309,851.87	N/A

Actual Information Description	File Name	
Viewer call assistance service	Component Description: Amount:	Inktel 35286 v210503jgv2 \$20,896.82
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	

Equipment Storage		
	Component Description:	Die 570002
		v210513pmv1
	Amount:	\$8,100.00
	Component Description:	Die 853013
		v210507pmv1
	Amount:	\$3,000.00
	Component Description:	Die 625012
		v210511pmv1
	Amount:	\$1,647.50
DTV Medical Facility		
Notification	Component Description:	RF Notifs 1438
		v200721gv1
	Amount:	\$3,750.00
	Component Description:	RF Notifs 1154
		v210413gv1
	Amount:	\$3,750.00
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
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.	

Equipment Delivery and		
Handling Charges	Component Description:	Die 570002
		v210513pmv1
	Amount:	\$2,853.47
	Component Description:	Die 841009
		v210507pmv1
	Amount:	\$677.47
	Component Description:	Die 539028
	Amount:	v210513pmv1 \$1,988.22
		ψ1,000.22
	Component Description:	Die 608038
		v210511pmv1
	Amount:	\$1,046.25
		D: 040005
	Component Description:	Die 842005
	Amount:	v210507pmv1 \$2,829.06
	Amount.	φ2,029.00
	Component Description:	Die 832018
		v210511pmv1
	Amount:	\$1,408.33
	Component Description	Gates US032710
	Component Description:	v210503jgv1
	Amount:	\$17,844.34

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,978,803.62	\$2,862,205.62	\$2,309,851.87

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

Certification	Section	Question	Response
	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.	
		 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.	Jeffrey C Gehman Engineering Associate 05/13/2021

Certification	Section	Question	Response
Certification	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).	
		 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).
- 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.

	The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 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.	
an aut named	are, under penalty of perjury, that I am chorized representative of the above- d applicant for the Authorization(s) ied above.	Jeffrey C Gehman Engineering Associate
		05/13/2021

Attachments