

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 39664 Service: DTV Call WCSH Channel: 31 (UHF)

ID: Sign:

File **0000028041**

Number:

FRN: **0030521983** Date **02/12**

Submitted: /2021

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
PACIFIC AND SOUTHERN, LLC	Denise Branson, Sr. Paralegal TEGNA, Inc. 8350 Broad Street, Suite 2000 Tysons, VA 22102 United States	+1 (703) 873-6606	dbranson@TEGNA.	Limited Liability Company

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Gary Davis Regional Head of Technology and Operations TEGNA	Gary Davis 8350 Broad Street Suite 2000 Tysons, VA 22102 United States	+1 (404) 873- 9199	gadavis@tegna. com

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	WCSH will construct it's new assigned facility. this will require a new transmitter, antenna and interim antenna and line during the primary facility construction.

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	
Manufacturer and Type	Model	CDP3200 P2
	Year	2001
	Туре	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	ULXTE 72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	47.2 kW
	Justification for New Transmitter	Station has in excess of 10% TPO headroom and is eligible for a 1-Step-Up Allowance. Reimbursable TPO is 36.6 kW based on initial 90-day filing CP. This would require a ULXTE-60. A 1-Step-Up is the ULXTE-72 and is therefore reimbursable.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
		,

	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Additional electrical services required for transmitter installation, including heat exchangers transformer cooling pumps, etc.
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?	Yes
	Size	100.0 squa
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 and RF Component Decommissioning	Transmitter and RF Component Decommissioning

Antennas

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

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	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)	1000.0 kW

Manufacturer	
Model	TFU- 28DSC-R 4C150
Year	2001

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	Class	Full Power
Manufacturer and Types	Mounting	Side 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)	775.0 kW
	Manufacturer	

Model	TFU-26DSC /VP-R 4C150
Year	2018
Justification for New Antenna	Station's licensed horizontally polarized, side-mount, main antenna cannot be re-tuned and must be replaced for new channel assignment.

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	7 3/16 inches inches

Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power 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

Other Antenna Cost Not Listed

Name	Description
Shipping	\$6,800

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?	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 Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	24
	Lower Limit	650.00 MHz
	Upper Limit	656.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	
	Model	TFU-24WB- R C160
	Year	2018

Justification for New Antenna	An interim antenna is necessary to keep station on air during primary antenna replacement & for duration of assigned phase. TFU-24WB cost is equivalent to a single-channel slot interim antenna. A TFU-24WB is required to replicate existing
	to replicate existing coverage.
	_

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	В
	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

Name	Description
Shipping	\$5,400

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

Primary Transmission

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	Manufacturer	Dielectric
Type	Туре	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1400 feet per run

Primary

Other Transmission Line Expenses Not Listed

Transmission	Name	Description
	TX Line Sweep	Sweep required to verify post-transition channel measures well on existing line.

Interim

New Transmission Line

Transmissio	n Line Settion	Question	Response
	New Transmission Line	Use	Interim
	Costs Description of Use	Description of Use	N/A
		Change Type	Purchase New
		Type Rigid	Rigid
	Diameter Segment Length	Diameter	6 1/8 inches
		Segment Length	Broadband
		Other Segment Length	
	Number of parallel runs	1	
		Length	1250 feet per run

Interim

Other Transmission Line Expenses Not Listed

Transmission	Naine	Description
	TX Line Sweep	Sweep required to verify new TX line measures well

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

Add 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?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure	Do you have a tower registration number?	Yes
Registration	ASR Number	1055705
Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	43° 51' 30.0" N-
1983))	Longitude (NAD83)	070° 42' 39.0" W-
	Overall Structure Height	1304.77 fee
	Support Structure Height	1304.77 fee
	Ground Elevation Above Mean Sea Level (AMSL)	1228.33 fee

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Pacific and Southern, LLC
Date Constructed	01/01/1984

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Insurance	Insurance

Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	850
	Explanation	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x850hrs (\$127500), a new OES component has been created & funded with part of the \$ removed from PM,& "Prepare & or review reimbursement form" has been increased
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	2

	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	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	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes
	Number of Days	20

Justification	It will be necessary to
	survey the
	site, plan the
	equipment,
	develop
	specifications
	for purchasing,
	& oversee
	multiple
	vendor RF
	projects.
	Station does
	not have
	available
	personnel or
	personnel
	trained in such
	services.

Outside Professional

Other Professional Services Expenses Not Listed

Services Costs	Description
Other Legal Services	Other Legal Services related to the DTV Repack
Pre filing site review	outside engineering firm to review all sites
Other Engineering Services	Other Engineering Services related to the DTV Repack

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	Yes
	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)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses

Other Expenses Not Listed

Name	Description
Insurance	Insurance
Internal labor	Local and Corporate Labor
Tele-handler forklift rental	Tele-handler forklift rental

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 Co
Primary Transmitter ULXTE 72	\$1,587,050.00	\$1,513,750.00		\$1,435,768.82	
Transmitter and RF Component Decommissioning	\$19,250.00	\$19,250.00	See attached / uploaded PDF file titled "Q Comm QC20-310 v210212jgv1. pdf"	\$19,250.00	N/A
Other Building Addition Size: 100.0	\$25,000.00	\$25,000.00	New pad required for heat exchangers, transformers, pumps, etc. Equipment must also be shielded.	\$0.00	N/A
Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	\$64,600.00	\$64,600.00	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. See attached /uploaded PDF file titled "ESM 31737 v1911115jgv1. pdf"	\$64,599.99	N/A

3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,400,000.00	N/A	\$1,351,918.83	N/A
Sub-total	\$1,587,050.00	\$1,513,750.00	N/A	\$1,435,768.82	N/A
Total for all systems	\$3,541,804.10	\$3,859,176.90	N/A	\$3,056,656.24	N/A

Components

Actual Information Description	File Name	
Transmitter and RF Component Decommissioning	Component Description: Amount:	Q Comm QC20-310 v210212jgv1 \$19,250.00
Other Building Addition Size: 100.0	Information not provided.	
Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	Component Description: Amount: Component Description: Amount: Component Description:	ESM 32202 v191212jgv2 \$21,533.33 ESM 32201 v200109pmv1 \$21,533.33
	Amount:	v200217jgv1 \$21,533.33
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW

Component Description: Gates inv

#JW30004554-1 Primary Transmitter

50 pct pmt 1

UL20181205jgv1

Amount: \$669,675.56

Component Description: Gates US0336382

v200702pmv1

Amount: \$92,475.70

Component Description: Gates US0331813

v1911125jgv1

Amount: \$589,767.57

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 TFU-24WB- R C160	\$214,720.00	\$212,280.00		\$157,589.94	
Shipping	\$5,400.00	\$5,400.00	N/A	N/A	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	Per Widelity estimate	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	Per Widelity estimate	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$13,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Per Dielectric quotes	\$2,500.00	N/A

UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 1000 kW input, directional,, horizontally polarized	\$160,480.00	\$160,480.00	N/A	\$155,089.94	N/A
Primary Antenna TFU-26DSC /VP-R 4C150	\$231,989.10	\$229,549.10		\$208,197.10	
Shipping	\$6,800.00	\$6,800.00	N/A	N/A	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	Per Widelity estimate	N/A	N/A
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	\$13,900.00	\$13,200.00	Per Widelity estimate	\$10,298.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	per Widelity estimate	N/A	N/A

UHF - High Power, Side Mount, basic slot antenna, 775 kW input, directional,, elliptically or circularly polarized	\$96,804.65	\$96,804.65	See attached invoices and quotes.	\$96,804.65	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	Per Widelity estimate	\$21,750.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 775 kW input, directional,, horizontally polarized	\$79,344.45	\$79,344.45	***System Notice: Estimate adjusted and locked because line has been superseded. ***Per Widelity estimate.	\$79,344.45	N/A
Sub-total	\$446,709.10	\$441,829.10	N/A	\$365,787.04	N/A
Total for all systems	\$3,541,804.10	\$3,859,176.90	N/A	\$3,056,656.24	N/A

Components

Actual Information Description	File Name
Shipping	Information not provided.

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, broadband, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Component Description:	Inv 24619 WCSH Sweep UL20180629jg v1
	Amount:	\$2,500.00

UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 1000 kW input, directional,, horizontally polarized

Component Description:

Die MAN00851 v190715jgv1 \$37,612.50

Amount:

Component Description: Die MAN00851

v190715jgv1

Amount:

\$1,288.87

Component Description:

Die 637001 v200317pmv1

Amount:

\$15,045.00

Component Description:

Die MAN01245

Amount:

v190716jgv1 \$2,319.97

Component Description:

Die MAN00730

v190715jgv1

Amount:

\$30,090.00

Component Description:

Die MAN01245

v190716jgv1

Amount:

\$67,702.50

Component Description:

Die MAN00730

Amount:

v190715jgv1 \$1,031.10

Component Description:

Die 676017

v200317pmv1

Amount:

N/A

Shipping

Information not provided.

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, per 7 3/16. feedline (if needed)	Component Description: Amount:	Die 758004 v210118pmv1 \$1,029.80
	Component Description: Amount:	Die MAN01343 v190805pmv1 \$4,634.10
	Component Description: Amount:	Die inv #MAN00849 Elbow complex pmt 1 UL20190220jgv1 \$4,634.10
Sweep test of existing antenna	Information not provided.	
UHF - High Power, Side Mount, basic slot antenna, 775 kW input, directional,, elliptically or circularly polarized	Component Description: Amount:	Die 758004 v210118pmv1 \$17,460.20
	Component Description: Amount:	Die MAN01343 v190805pmv1 \$78,570.90
	Component Description: Amount:	Die MAN01343 v190805pmv1 \$773.55

Side mount brackets for high power antennas (if Die 758004 **Component Description:** not included in antenna v210118pmv1 base cost) \$2,175.00 Amount: Die MAN01343 **Component Description:** v190805pmv1 Amount: \$9,787.50 **Component Description:** Die inv #MAN00849 Brackets pmt 1 UL20190220jgv1 **Amount:** \$9,787.50 UHF - High Power, Side Mount, basic slot antenna, **Component Description:** Die inv #MAN00849 775 kW input, directional,, Antenna pmt 1 horizontally polarized UL20190220jgv1 **Amount:** \$78,570.90 **Component Description:** Die inv #MAN00849 Fixed flange pmt 1 UL20190220jgv1

Amount:

\$773.55

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	\$296,400.00	\$282,650.00		\$163,328.69	
TX Line Sweep	\$6,400.00	\$6,400.00	N/A	\$6,400.00	N/A
Rigid Transmission Line - copper, 6 1 /8" broadband	\$290,000.00	\$276,250.00	N/A	\$156,928.69	N/A
Primary Transmission Line	\$8,518.00	\$8,518.00		\$7,878.00	
TX Line Sweep	\$8,518.00	\$8,518.00	N/A	\$7,878.00	N/A
Sub-total	\$304,918.00	\$291,168.00	N/A	\$171,206.69	N/A
Total for all systems	\$3,541,804.10	\$3,859,176.90	N/A	\$3,056,656.24	N/A

Components

Actual Information	
Description	File Name

TX Line Sweep		
	Component Description:	Die 747020
		v210120pmv3
	Amount:	\$640.00
	Component Description:	Die MAN00851
		v190715jgv1
	Amount:	\$1,600.00
	Component Description:	Die MAN01245
	Component Description.	v190716jgv1
	Amount:	\$2,880.00
		. ,
	Component Descriptions	Die MANIOOZOO
	Component Description:	Die MAN00730 v190715jgv1
	Amount:	\$1,280.00
	7	Ψ.,200.00
Rigid Transmission Line -		
copper, 6 1/8" broadband	Component Description:	Die 730017
	Component Seconducin	v200702pmv1
	Amount:	\$910.00
	Component Description:	Die 747020
	Component Description.	v210120pmv3
	Amount:	\$5,760.00
		4 3,13333
	Component Bassalida	Die MANIOOSA
	Component Description:	Die MAN00851 v190715jgv1
	Amount:	\$37,439.50
	, anomic	ψο, ,του.ου
	Component Description:	Die 705028
	Amount	v200318pmv1
	Amount:	\$2,583.15
	Component Description:	Die 637001
		v200317pmv1
	Amount:	\$4,575.84

Component Description: Die MAN00730

v190715jgv1

Amount: \$29,951.60

Component Description: Die 706014

v200629pmv1

Amount: \$3,162.00

Component Description: Die 728030

v200325pmv1

Amount: \$343.70

Component Description: Die 676017

v200407pmv2

Amount: \$1,546.65

Component Description: Die MAN01245

v190716jgv1

Amount: \$67,391.10

Component Description: Die 728030

v200325pmv1

Amount: \$3,093.30

Component Description: Die 676017

v200407pmv2

Amount: \$171.85

TX Line Sweep		
	Component Description:	Die 758004
		v210118pmv1
	Amount:	\$211.80
	Component Description:	Die MAN01343
		v190805pmv1
	Amount:	\$953.10
	Component Description:	Die MAN01343
	Amount:	v190805pmv1 \$2,880.00
	Amount	Ψ2,000.00
	Component Description:	Die inv #MAN00849
		Trans test pmt 1
	Amount:	UL20190220jgv1 \$953.10
	Amount.	φ σ υσ. 10

Component Description:

Die inv #MAN00849

Sweep pmt 1

UL20190220jgv1

Amount: \$2,880.00

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$669,300.00	\$1,056,435.30		\$942,332.55	
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	\$304,686.00	N/A
Insurance	\$11,500.00	\$11,500.00	See attached /uploaded PDF file titled "Tower Eng 3080 v191126jgv1. pdf"	\$9,846.25	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	\$7,865.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$619,935.30	Per Widelity estimate;see attached invoices and quotes	\$619,935.30	N/A
Sub-total	\$669,300.00	\$1,056,435.30	N/A	\$942,332.55	N/A
Total for all systems	\$3,541,804.10	\$3,859,176.90	N/A	\$3,056,656.24	N/A

Components

Actual Information Description	File Name	
Major tower reinforcement /modifications	Component Description:	TEC 3192
	Component Description.	v200702pmv1
	Amount:	\$10,500.00
	Component Description:	FDH SIN000486 v200127jgv2
	Amount:	\$134,325.50
	Component Description:	Tower Eng inv #Final 2776 Structural Analysis
	Amount:	UL20190402jgv1 \$25,535.00
	Component Description:	FDH SIN000929 v200127jgv2
	Amount:	\$134,325.50
Insurance		T
	Component Description:	Tower Eng 3080 v191126jgv1
	Amount:	\$9,846.25
Tower mapping for an undocumented/poorly		TF0 F: 10107
documented tower and	Component Description:	TEC Final 3137 v191212jgv1
preparation of documentation necessary for tower load study	Amount:	\$3,750.00
	Component Description:	WCSH TI inv #0104904-IN
		Structural Analysis UL20180831jg v2
	Amount:	\$4,115.00

Tall Tower (greater than 500')

Component Description: FDH SIN002481 v200702pmv1
Amount: \$206,645.10

Component Description: FDH SIN005850 v210114pmv1
Amount: \$413,290.20

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 Co
Outside Professional Services	\$374,450.00	\$397,222.50		\$79,793.41	
Other Engineering Services	\$11,250.00	\$11,250.00	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x850hrs (\$127500), a new OES component has been created & funded with part of the \$ removed from PM,& "Prepare & or review reimbursement form" has been increased	\$3,443.75	N/A
Pre filing site review	\$23,000.00	\$23,000.00	N/A	N/A	N/A
Other Legal Services	\$10,000.00	\$10,000.00	Other Legal Services related to the DTV Repack	\$424.09	N/A

Additional Field Engineering Service, 20 Days	\$50,000.00	\$50,000.00	\$2,500 per site visit including expenses x 20 days. It is necessary to survey the site, plan the equipment, develop specifications for purchasing, & oversee multiple vendor RF projects. Station does not have available personnel trained in such services.	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	Per Widelity estimate	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	Per Widelity estimate	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	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	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	Per Widelity estimate	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	Per Widelity estimate	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	Per Widelity estimate	\$1,500.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	per Widelity estimate	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	Per Widelity estimate	\$675.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	Per Widelity estimate	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
Prepare and or review reimbursement form	\$2,630.00	\$17,722.50	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x850hrs (\$127500), a new OES component has been created & funded with part of the \$ removed from PM,& "Prepare & or review reimbursement form" has been increased	\$17,722.50	N/A

Project	\$134,300.00	\$150,000.00	It will be	\$56,028.07	N/A
management of			necessary to		
the transition			schedule and		
			coordinate		
			multiple		
			vendors,		
			complete		
			progress		
			reports, and		
			update		
			Schedule		
			399s. Station		
			does not have		
			available		
			personnel or		
			personnel		
			trained in		
			project		
			management		
			for such		
			complex		
			projects.		
Attorney Fees -	\$7,360.00	\$7,000.00	Per Widelity	N/A	N/A
Prepare and			estimate		
File request for					
Special					
Temporary					
Authorization					
Sub-total	\$374,450.00	\$397,222.50	N/A	\$79,793.41	N/A
Total for all systems	\$3,541,804.10	\$3,859,176.90	N/A	\$3,056,656.24	N/A

Components

Actual Information	
Description	File Name

Other Engineering Services		
	Component Description:	Osborn 38570
		v200717pmv1
	Amount:	\$1,890.00
	Component Description:	Osborn 39981
		v201217pmv1
	Amount:	\$466.25
	Component Description:	Osborn inv #29834
		Other Eng Srvcs
		UL20190325jgv1
	Amount:	\$1,087.50
	Component Description:	Osborn 35807
		v191219jgv1
	Amount:	\$4,110.00
Pre filing site review	Information not provided.	

		<u>.</u> .
	Component Description:	Covington 60801032
		v190715jgv2
	Amount:	\$70.43
	7.11.04.11.1	V . 0 0
	Component Description:	Covington
		60801029
	A	v190712jgv2
	Amount:	\$144.71
	Component Description:	Covington
		60805585
		v190513pmv1
	Amount:	\$34.53
	Component Description:	Covington inv
		#60796723 Various
		Legal
		UL20181024jgv1
	Amount:	\$174.42
	Component Description:	Covington
		60801029
		v190513pmv1
	Amount:	\$164.44
	Component Description:	Covington
		60801032
	Amazinta	v190530jgv2
	Amount:	\$70.43
Additional Field Engineering Service, 20 Days	Information not provided.	
RF Exposure Measurements	Information not provided.	

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
ASR modification (prepare FCC Form 854)	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	Component Description: Amount:	Osborn 39981 v201217pmv1 \$1,500.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Osborn 39668 v201217pmv1 \$675.00
Perform engineering study for new channel assignment and antenna development	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Component Description: Amount:	Osborn 39668 v201217pmv1 \$2,170.00

v200717pmv1

Amount: \$1,375.00

Component Description: Osborn 40280

v201217pmv1

Amount: \$75.00

Component Description: Osborn 32965

v190617pmv1

Amount: \$550.00

Component Description: Osborn 38962

v200717pmv1

Amount: \$675.00

Component Description: Osborn 39373

v201116pmv1

Amount: \$1,420.00

Component Description: Osborn 40947

v201217pmv1

Amount: \$300.00

Component Description: Osborn 39981

v201217pmv1

Amount: \$2,030.00

Component Description: Osborn 36535

v200522jgv3

Amount: \$410.00

Component Description: Osborn 38310

v200724pmv1

Amount: \$645.00

v191219jgv1 \$400.00

Amount: \$400.00

Component Description: Osborn 30002

v191219jgv1

Amount: \$422.50

Component Description: Osborn 36540

v200507jgv2

Amount: N/A

Amount:

Amount:

Amount:

Component Description: Osborn 35807

v191219jgv1 \$635.00

Component Description: Osborn 32198

v191219jgv1 \$525.00

Component Description: Osborn 35393

v191219jgv1 \$1,400.00

Amount: \$1,400.00

Component Description: Osborn 33848

v191219jgv1 \$405.00

Component Description: Osborn 33663

v190815jgv2

Amount: N/A

Component Description: Osborn 34998

v191219jgv1

Amount: \$605.00

v190813jgv1

Amount: \$995.00

Component Description: Osborn inv #28991

Amend 399 Form UL20190325jgv1

Amount: \$3,200.00

Component Description: Osborn 31149

v191219jgv1

Amount: \$525.00

Project management of the transition

Component Description: Osborn 40280

v201217pmv1

Amount: \$553.00

Component Description: Osborn inv #28581

Proj mgt thru

180330

UL20190325jgv1

\$375.00

Component Description: Osborn 36562

Amount:

v200710jgv2

Amount: \$1,185.00

Component Description: Osborn 32965

v190617pmv1

Amount: \$675.00

Component Description: Osborn 39373

v201116pmv1

Amount: \$4,125.00

Proj mgt 180331-

180427

UL20190325jgv1

Amount: \$1,275.00

Component Description: Osborn 39981

v201217pmv1

Amount: \$553.00

Component Description: Osborn 36535

Amount:

Amount:

Amount:

Amount:

Amount:

Amount:

Component Description:

v200522jgv3 \$2,593.00

Osborn 38310 v200724pmv1

Amount: \$280.00

Component Description: Osborn 32198

v191219jgv1 \$1,275.00

Component Description: Osborn 30480

v191219jgv1 \$1,500.00

Component Description: Osborn 33663

v190815jgv2 \$1,425.00

Component Description: Osborn 31786

v191219jgv1 \$1,350.00

Component Description: Osborn 33848

v200507jgv2 \$1,800.00

v191219jgv1 \$2,025.00

Amount:

Amount:

Amount:

Amount:

Amount:

Amount:

Amount:

Amount:

Component Description:

Component Description: Osborn 30002

v191219jgv1 \$1,050.00

v191219jgv1 \$1,801.00

Osborn 34998

Component Description: Osborn 34578

v190813jgv1 \$1,425.00

Component Description: Inv 29205 WCSH

Proj Mgt 180428-

180525

UL20180706jg v1

\$1,425.00

Component Description: Osborn 35393

v191219jgv1 \$2,449.00

Component Description: Osborn 31604

v191219jgv1 \$975.00

Component Description: Osborn 32824

v190614pmv1 \$1,575.00

Component Description: Osborn 36540

v200507jgv2

Amount: N/A

v200717pmv1

Amount: \$300.00

Component Description: Osborn inv #29834

Proj mgt 180526-

180629

UL20190325jgv1

Amount: \$1,800.00

Component Description: Osborn 31149

v191219jgv1 \$1,425.00

Amount: \$1,425.00

Component Description: Osborn inv #26020

Prof srvcs 170608 -

170728

UL20181107jg v1

\$19,453.07

Component Description: Osborn 39668

Amount:

v201217pmv1

Amount: \$1,106.00

Component Description: Osborn 33848

v191219jgv1

Amount: \$1,800.00

Component Description: Osborn 35807

v191219jgv1

Amount: \$2,865.00

Component Description: Osborn 36535

v200513jgv2

Amount: N/A

	Component Description: Amount:	Osborn 39668 v201217pmv1 \$255.00
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co
Other Expenses	\$159,377.00	\$158,772.00		\$61,767.73	
Tele-handler forklift rental	\$7,735.00	\$7,735.00	See attached / uploaded PDF file titled "WD Matthews PS107127 v191219jgv1. pdf"	\$7,735.00	N/A
Internal labor	\$24,052.00	\$24,052.00	N/A	N/A	N/A
Insurance	\$11,500.00	\$11,500.00	Insurance coverage. Please see the attached /uploaded PDF file titled "WCSH - TEC Services Agreement (9-19-2019 TEC signed).pdf"	N/A	N/A
MVPD Notification of Channel Change	\$6,000.00	\$6,000.00	Execute communication plan to the MVPD's about the up coming changes and testing dates.	N/A	N/A
Develop and air announcement of upcoming channel change	\$6,000.00	\$6,000.00	40 hours at \$150 per hour to shoot, edit, and post spot for audience awareness.	\$3,270.00	N/A

Sub-total	\$159,377.00	\$158,772.00	N/A	\$61,767.73	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	Per Widelity estimate	\$2,950.00	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	\$900.00	\$900.00	3 cents per hundred for construction permit.	N/A	N/A
Non-zoning permits	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	\$16,898.80	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	\$21,895.18	N/A
Equipment Storage	\$15,000.00	\$15,000.00	Six months of storage per Dielectric rate card for 2 flatbeds of equipment.	\$9,018.75	N/A

Total for all	\$3,541,804.10	\$3,859,176.90	N/A	\$3,056,656.24	N/A
systems					

Components

Actual Information Description	File Name	
Tele-handler forklift rental	Component Description:	WD Matthews PS108365 v200324pmv2
	Amount:	\$3,692.50
	Component Description:	WD Matthews PS107127 v191219jgv1
	Amount:	\$4,042.50
Internal labor	Information not provided.	
Insurance	Information not provided.	
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Component Description:	2C Media inv #203806 Creation of channel change announcement
	Amount:	UL20181016jgv1 \$3,270.00
Equipment Storage		
	Component Description:	Die 833002
	Amount:	v200713pmv1 \$5,118.75
	Component Description:	Die 841022
	Amount:	v200730pmv1 \$3,900.00

Equipment Delivery and Handling Charges

Component Description: Die 841022

v201006pmv2

Amount: \$789.75

Component Description: Gates US0336382

v200702pmv1

Amount: \$19,692.93

Component Description: Die 833002

v200713pmv1

Amount: \$1,412.50

Component Description: WD Matthews

PS108365

v200218pmv1

Amount: N/A

Amount:	Transmitter Demo UL20190402jgv1
Amount:	· -
	\$9,500.00
Component Description:	Pine Tree 2387663
Component Description:	v200107pmv1
Amount:	\$469.12
Component Description:	Pine Tree 2373227
	v200214pmv2b
Amount:	\$156.00
Component Description:	Pine Tree 2424428
Amount	v200629pmv1 \$462.96
Amount.	9402.90
Component Description:	ESM 34331
Amount:	v210118pmv1 \$5,500.00
7.11.5.11.11	ψο,σσσ.σσ
Component Description:	Pine Tree 2324400
Amount:	v191219pmv1 \$140.40
Component Description:	Pine Tree 2354482 v191219pmv1
Amount:	\$145.60
Component Description:	Pine Tree 2391971
Amount:	v200122jgv1 \$524.72
	Amount: Component Description: Amount: Component Description: Amount: Component Description: Amount: Component Description: Amount: Amount: Amount:

Non-zoning permits	Information not provided.
Local Zoning	Information not provided.

Temporary Authorization request		
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
DTV Medical Facility Notification	Component Description:	RF Notif 1399 v200416pmv1
	Amount:	\$2,950.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,541,804.10	\$3,859,176.90	\$3,056,656.24

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

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.

- 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 abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

02/12/2021

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).

- 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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

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

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

02/12/2021

Attachments