

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 34847 Service: DTV Call KING-TV Channel: 25 (UHF)

ID:

Sign:

File **0000028077**

Number:

FRN: **0001582782**

Date **06/06**

Submitted: /2019

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
KING BROADCASTING COMPANY	Denise Branson, Sr. Paralegal TEGNA, INC. 8350 Broad Street, Suite 2000 Tysons, VA 22102 United States	+1 (703) 873- 6606	dbranson@TEGNA.	Corporation

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
Jeffrey Johnson , Johnson . Vice President Projects TEGNA	Jeffrey Johnson 7950 Jones Branch Drive McLean, VA 22102 United States	+1 (703) 873- 6736	jsjohnson@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	KING will transition to its new facilities with a side mount antenna in the same aperture of the existing antenna. Interim facilities will need to be constructed and this tower will need serious structural reinforcement.

Transmitters

S 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	CD3200P2
	Year	1998
	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-40
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	25.3 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 17.0 kW based on initial 90-day filing CP. This would require a ULXTE-30. A 1-Step-Up is the ULXTE-40 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, transformers, cooling pumps, etc.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Heating and Cooling
	Size	10 tons
	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 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Other Transmitter Cost Not Listed

Transmitter Information not provided.

Primary

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)	950.0 kW

Manufacturer	
Model	TFU- 30DSC-R P200
Year	1998

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?	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	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)	608.0 kW
	Manufacturer	
		1

Model	TFU-26DSC /VP-R P200
Year	2019
Justification for New Antenna	Licensed side-mount antenna cannot be re-tuned for new post-transition frequency and must be replaced. Station is opting to Upgrade to Elliptical polarization.

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	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?	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	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)	960.0 kW
	Manufacturer	
	Model	TUAP4- 8 /20H-1-R SM

Year	2019
Justification for New Antenna	An interim antenna is necessary to keep station on air during primary antenna replacement & for duration of assigned phase. An interim antenna with a custom peanut pattern is required 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	\$6,800

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

Primary Transmission Line

Existing Transmission Line

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 Line Manufacturer and Type	Manufacturer	
	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	590 feet per run

New Transmission Line

Primary Transmission

settion	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	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	590 feet per run
	Justification for New Transmission Line	Main 7-3 /16" rigid transmission line has 20 ft sections which are prohibited for post- transition Channel 25. Therefore, station must replace existing 20 ft section line with new 19-3/4 ft section line.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

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

Interim New Transmission Line

Transmission

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Туре	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	500 feet per run
	Justification for New Transmission Line	Interim transmission line is necessary to keep station on air during primary antenna replacement & for duration of assigned phase. 6-1 /8" rigid line is required to provide required power rating for replication ERP.

Other Transmission Line Expenses Not Listed

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

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower	Type of change	Modify Existing
Description	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	
	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	1032128
Coordinates (NAD83	Latitude (NAD83)	47° 37' 54.0" N-
(North American Datum of 1983))	Longitude (NAD83)	122° 21' 03.0" W-
	Overall Structure Height	569.87 feet
	Support Structure Height	438.64 feet
	Ground Elevation Above Mean Sea Level (AMSL)	430.44 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

Tower Owner	KING BROADCASTING COMPANY
Date Constructed	01/01/1953

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	Other
Helicopter Services Required	Are helicopter services required?	No

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Insurance	Insurance for the tower contractor
Lead-based Paint Management Program	Lead-based Paint Management Program

Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	750
	Explanation	It will be necessary to 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.
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	Yes
	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	Yes
	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	\$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.

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	Osborne engineering conducted a pre-filing analysis to determine if all of the necessary information had been captured.
Other Engineering Services	Fewer Proj Mgt "PM" tasks are req'd & Other Engineering Services "OES" are req'd, so the PM total was reduced to 750 hrs (\$112,500.00 at \$150/hr), a new OES comp was created & funded with \$ from PM. See attachment titled "KGA quote to KING for OES.pdf"

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	No
	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

Other Expenses Not Listed

Name	Description	
PR Firm	Public Relations Firm	
Internal labor	Local and Corporate labor	

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-40	\$1,062,700.00	\$1,123,726.48		\$457,162.14	
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.	N/A	N/A
10 Ton system	\$60,500.00	\$57,500.00	Additional HVAC required for operation of new transmitter while still operating with main transmitter during testing period.	N/A	N/A

Other	\$25,000.00	\$25,000.00	Additional	N/A	N/A
Electrical	4 _0,000.00	+ ==,=====	electrical		
Service:			services		
Additional			required for		
electrical			transmitter		
services			installation,		
required for			including		
transmitter			heat		
installation,			exchangers,		
including			transformers,		
heat			cooling		
exchangers,			pumps, etc.		
transformers,					
cooling					
pumps, etc.					
UHF - Liquid	\$947,000.00	\$1,011,326.48	The total	\$457,162.14	N/A
Cooled Solid			cost is		
State			higher due to		
Transmitter			the		
21 - 31 kW			additional of		
			Sales tax		
3" Rigid	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Conduit and					
Wiring (Cost					
per foot)					
Sub-total	\$1,062,700.00	\$1,123,726.48	N/A	\$457,162.14	N/A
Total for all systems	\$3,289,896.29	\$3,888,845.97	N/A	\$1,874,827.31	N/A

Components

Actual Information Description	File Name
Other Building Addition Size: 100.0	Information not provided.
10 Ton system	Information not provided.
Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 21 - 31		
kW	Component Description:	Gates inv
KVV		#JW30004448-1A
		ULXTE-40 pmt 2
		UL20190320jgv1
	Amount:	\$152,387.38
	Component Description:	Gates inv
		#JW30004448-1
		Transmitter 1 3rd
		dp UL20181211jgv2
	Amount:	\$304,774.76
3" Rigid Conduit and	Information not provided.	
Wiring (Cost per foot)		

Cost Information

Antennas

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

Description Interim Antenna TUAP4- 8 /20H-1-R SM	Predetermined Cost Estimate \$146,343.35	Estimated Cost \$143,903.35	Estimated Cost Justification	Actual Cost \$205,457.40	Actual Cost Justification
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	\$14,782.50	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$13,000.00	N/A	\$9,268.20	N/A

UHF - High Power, Side Mount, basic slot antenna, 960 kW input, directional,, horizontally polarized	\$90,703.35	\$90,703.35	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$181,406.70	The full cost of the antenna is \$201,563.00 as seen on the Quote in the submitted Invoices MAN00842 and MAN01040
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Shipping	\$6,800.00	\$6,800.00	N/A	N/A	N/A
Primary Antenna TFU-26DSC /VP-R P200	\$210,396.00	\$207,806.00		\$170,930.70	
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	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$21,750.00	N/A	\$19,575.00	N/A

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	\$9,268.20	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, 608 kW input, directional,, elliptically or circularly polarized	\$156,156.00	\$156,156.00	See attached Dielectric Quote DMS031-4.	\$142,087.50	N/A
Sub-total	\$356,739.35	\$351,709.35	N/A	\$376,388.10	N/A
Total for all systems	\$3,289,896.29	\$3,888,845.97	N/A	\$1,874,827.31	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)	Component Description: Amount:	Die inv #MAN00842 Aux ant mt brackets 45 pct pmt 1 UL20190128jgv1 \$7,391.25
	Component Description: Amount:	Die MAN01040 v190509jgv1 \$7,391.25
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Component Description: Amount:	Die MAN01040 v190509jgv1 \$4,634.10
	Component Description: Amount:	Die inv #MAN00842 Aux elbow complex 45 pct pmt 1 UL20190128jgv1 \$4,634.10
UHF - High Power, Side Mount, basic slot antenna, 960 kW input, directional,, horizontally polarized	Component Description: Amount:	Die MAN01040 v190509jgv1 \$90,703.35
	Component Description: Amount:	Die inv #MAN00842 Aux ant and line 45 pct pmt 1 UL20190128jgv1 \$90,703.35
Sweep test of existing antenna	Information not provided.	
	Information not provided	
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)	Component Description: Amount:	Die inv #MAN00843 Primary side brackets pmt 1 UL20190312jgv1 \$9,787.50
	Component Description: Amount:	Die inv #MAN01065 Primary side brackets pmt 2 UL20190312jgv1 \$9,787.50
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description:	Die inv #MAN00843 Primary elbow complex pmt 1 UL20190312jgv1
	Amount: Component Description:	\$4,634.10 Die inv #MAN01065 Primary elbow complex pmt 2
	Amount:	UL20190312jgv1 \$4,634.10
Sweep test of existing antenna	Information not provided.	

UHF - High Power, Side Mount, basic slot antenna, 608 kW input, directional,, elliptically or circularly polarized

Component Description: Die inv #MAN01065

Primary antenna

pmt 2

UL20190312jgv1

\$70,270.20

Component Description: Die inv #MAN00843

Primary fixed flange

swivel pmt 1 UL20190312jgv1

Amount: \$773.55

Amount:

Component Description: Die inv #MAN00843

Primary antenna

pmt 1

UL20190312jgv1

Amount: \$70,270.20

Component Description: Die inv #MAN01065

Primary fixed flange

swivel pmt 2 UL20190312jgv1

Ф**77**2 *ЕЕ*

Amount: \$773.55

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	\$122,400.00	\$116,900.00		\$73,748.34	
Rigid Transmission Line - copper, 6 1 /8" broadband	\$116,000.00	\$110,500.00	N/A	\$67,988.34	N/A
TX Line Sweep	\$6,400.00	\$6,400.00	N/A	\$5,760.00	N/A
Primary Transmission Line	\$125,580.00	\$92,718.20		\$81,899.28	
Rigid Transmission Line - copper, 6 1/8"	\$119,180.00	\$86,318.20	See attached Dielectric Quote DMS031-4. Estimated total include the Transmission Line & Fixed Flange Swivel line items 5 and 10.	\$76,139.28	N/A
TX Line Sweep	\$6,400.00	\$6,400.00	N/A	\$5,760.00	N/A
Sub-total	\$247,980.00	\$209,618.20	N/A	\$155,647.62	N/A
Total for all systems	\$3,289,896.29	\$3,888,845.97	N/A	\$1,874,827.31	N/A

Actual Information Description	File Name	
Rigid Transmission Line - copper, 6 1/8" broadband	Component Description:	Die inv #MAN00842 Aux transmission line 45 pct pmt 1 UL20190128jgv1
	Amount:	\$30,900.87
	Component Description:	Die MAN01040 v190509jgv1
	Amount:	\$3,093.30
	Component Description:	Die MAN01040 v190509jgv1
	Amount:	\$30,900.87
	Component Description:	Die inv #MAN00842 Aux TLSCRs 45 pct pmt 1
	Amount:	UL20190128jgv1 \$3,093.30
TX Line Sweep		
	Component Description:	Die MAN01040 v190509jgv1
	Amount:	\$2,880.00
	Component Description:	Die inv #MAN00842 Aux sweep 45 pct pmt 1 UL20190128jgv1
	Amount:	\$2,880.00

Rigid Transmission Line - copper, 6 1/8"		
оррег, о 1/о	Component Description:	Die inv #MAN00843 Primary fixed flange swivel pmt 1
	Amount:	UL20190312jgv1 \$2,319.97
	Component Description:	Die inv #MAN01065 Primary fixed flange swivel pmt 2 UL20190312jgv1
	Amount:	\$2,319.97
	Component Description:	Die inv #MAN00843 Primary transmission line pmt 1
	Amount:	UL20190312jgv1 \$35,749.67
	Component Description:	Die inv #MAN01065 Primary transmission line pmt 2
	Amount:	UL20190312jgv1 \$35,749.67
TX Line Sweep		
	Component Description:	Die inv #MAN00843 Primary sweep pmt 1 UL20190312jgv1
	Amount:	\$2,880.00
	Component Description:	Die inv #MAN01065 Primary sweep pmt 2 UL20190312jgv1
	Amount:	\$2,880.00

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 Cos Justificatio
Primary Tower TOWER	\$952,394.94	\$1,509,094.94		\$828,797.06	
Major tower reinforcement /modifications	\$421,000.00	\$1,000,000.00	Tower is very complicated in metro neighborhood. Tower showing signs of compression. Replacement probably not an option because of very tough local zoning.	\$750,110.00	N/A
Lead-based Paint Management Program	\$14,900.00	\$14,900.00	See uploaded Ramboll US Corporation invoice 1690031980 and accompanying Scope of Work / Budget Estimate.	\$9,492.12	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Insurance	\$69,194.94	\$69,194.94	Insurance	\$69,194.94	N/A

Tower mapping for	\$26,300.00	\$25,000.00	N/A	N/A	N/A
an					
undocumented					
/poorly					
documented					
tower and					
preparation of					
documentation					
necessary for					
tower load					
study					
Sub-total	\$952,394.94	\$1,509,094.94	N/A	\$828,797.06	N/A
Total for all	\$3,289,896.29	\$3,888,845.97	N/A	\$1,874,827.31	N/A

Actual Information	
Description	File Name

Major tower reinforcement		
modifications	Component Description:	TCI inv #8643 Tower maintenance
		and repairs pmt 1
		UL20190306jgv1
	Amount:	\$108,850.00
	Component Description:	TCI 8651
	Component Description.	v190606jgv1
	Amount:	\$111,710.00
		, ,
	Component Description:	TCI inv #8589
		Foundation
		modification 50 pct
		pmt 1
	Amount:	UL20190127jgv1 \$223,420.00
		V ===0, ====0
	Component Description:	TCI inv #8644
		Tower mods
		UL20190318jgv1
	Amount:	\$306,130.00
Lead-based Paint		
Management Program	Component Description:	Ramboll
		1690031980
		v190507jgv1
	Amount:	\$9,492.12
Complex Tower (includes,	Information not provided.	
for example, those with		
candelabras and/or stacked antennas)		
Insurance		
		TCI inv #8645
	Component Description:	
	Component Description:	Insurance
	Component Description: Amount:	

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study

Information not provided.

Outside Professional Services

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

Description Outside Professional Services	Predetermined Cost Estimate \$389,685.00	Estimated Cost \$414,850.00	Estimated Cost Justification	Actual Cost \$35,381.33	Actual Cos Justificatio
Other Engineering Services	\$37,500.00	\$37,500.00	Fewer Proj Mgt "PM" tasks are req'd & Other Engineering Services "OES" are req'd, so the PM total was reduced to 750 hrs (\$112,500.00 at \$150/hr), a new OES comp was created & funded with \$ from PM. See attachment titled "KGA quote to KING for OES.pdf"	\$24,625.01	N/A
Pre filing site review	\$24,100.00	\$24,100.00	N/A	N/A	N/A
Other Legal Services	\$10,000.00	\$10,000.00	Other Legal Services related to the DTV Repack	\$443.82	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	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	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	\$2,000.00	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 request for Special Temporary Authorization	\$7,360.00	\$7,000.00	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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$2,105.00	\$4,000.00	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	\$4,100.00	\$3,000.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$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	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A

Project	\$118,500.00	\$150,000.00	It will be	\$10,312.50	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.		
Prepare and or	\$2,630.00	\$2,500.00	N/A	N/A	N/A
eview					
eimbursement					
orm					
Sub-total	\$389,685.00	\$414,850.00	N/A	\$35,381.33	N/A
Fotal for all	\$3,289,896.29	\$3,888,845.97	N/A	\$1,874,827.31	N/A

Actual Information	
Description	File Name

Component Description:	Osborn inv #26012
	Prof srvcs 170531 -
	170728
	UL20190220jgv2
Amount:	\$21,075.01
	0 100774
Component Description:	Osborn inv #29771
	Other Engineering
	Services
	UL20181206jgv1
Amount:	\$3,550.00
Amount.	ψ3,330.00
Amount.	ψ3,330.00
	Amount: Component Description:

Other Legal Services Covington **Component Description:** 60801032 v190528jgv2 \$70.43 Amount: **Component Description:** Covington 60805585 v190513pmv1 Amount: \$34.53 **Component Description:** Covington 60801029 v190508pmv1 Amount: \$164.44 **Component Description:** Covington 60805585 v190508pmv1 Amount: \$34.53 **Component Description:** Covington inv #60796723 Various Legal UL20181024jgv1 Amount: \$174.42 **Component Description:** Covington 60801032 v190508pmv1 Amount: \$99.68 Covington **Component Description:** 60801029 v190513pmv1 \$164.44 Amount: Information not provided.

Additional Field
Engineering Service, 20
Days

RF Exposure Measurements	Information not provided.
Comprehensive coverage verification via field study, if needed	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 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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License 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.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
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.

Project management of the transition		
ne transition	Component Description:	Inv 29213 KING
		Proj Mgt 180428- 180525
		UL20180702jg v1
	Amount:	\$1,575.00
	Common and December	Oak am ins #00774
	Component Description:	Osborn inv #29771 Form 387 2018 Q2
		UL20181206jgv1
	Amount:	\$337.50
	Component Description:	Osborn inv #29771
		Prof srvcs 180526 -
		180629
	Amount:	UL20181206jgv1 \$2,400.00
	Component Description:	AFF inv #20181435 Consulting Services
		181101-190131
		UL20190402jgv1
	Amount:	\$6,000.00
	Component Description:	Osborn inv #26012
		Prof srvcs 170531 -
		170728
	Amount:	UL20181107jg v1
	Amount.	\$21,075.01

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$280,397.00	\$279,847.00		\$21,451.06	
Internal labor	\$23,847.00	\$23,847.00	N/A	N/A	N/A
PR Firm	\$43,000.00	\$43,000.00	See the Quote attached to the uploaded the FEAREY GROUP, INC. invoice 2019-035.	\$8,580.06	N/A
MVPD Notification of Channel Change	\$6,000.00	\$6,000.00	Hire services to insure that MVPD's have been notified of upcoming changes and testing windows for new channel operation.	N/A	N/A
Develop and air announcement of upcoming channel change	\$6,000.00	\$6,000.00	Produce informational spot about upcoming changes for consumers.	\$3,270.00	N/A

Equipment Storage	\$15,000.00	\$15,000.00	Flatbed storage for 6 months per Dielectric for new antennas and transmission line.	N/A	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	N/A	N/#
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	\$9,601.00	N/A

Local Zoning	\$100,000.00	\$100,000.00	Zoning and	N/A	N/A
			Construction		
			permits		
			could		
			require		
			extensive		
			reviews and		
			extensively		
			long		
			permitting		
			process.		
			expediter		
			are		
			commonly		
			used and		
			because of		
			the location		
			of the tower		
			we can		
			expect		
			multiple		
			challenges		
			in the		
			permitting		
			process for		
			structural		
			mods.		
DTV Medical Facility	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Notification					
Sub-total	\$280,397.00	\$279,847.00	N/A	\$21,451.06	N/A
Total for all systems	\$3,289,896.29	\$3,888,845.97	N/A	\$1,874,827.31	N/A

Actual Information Description	File Name
Internal labor	Information not provided.

PR Firm		
	Component Description:	Fearey inv #2019- 035 PR
	Amount:	UL20190402jgv1 \$8,000.00
	Amount	ψ0,000.00
	Component Description:	US Print 307744
	Amount:	v190530pmv1
	Amount:	\$580.06
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
		UL20181016jgv1
	Amount:	\$3,270.00
Equipment Storage	Information not provided.	
Equipment Delivery and	Information not provided.	
Handling Charges		
Diamond Conta (for	Information not provided.	
Disposal Costs (for		
equipment and other waste, net of any salvage		

	One and an and Deposite the second	City of Coattle in-
	Component Description:	City of Seattle inv
		#1041343 Ant struct
		alter local permit
		pmt 2
	Amount:	UL20181029jgv1 \$2,581.00
	, unounc	Ψ2,001.00
	Component Description:	City of Seattle inv
		#943971 Ant struct
		alter local permit
		pmt 1
	Amount:	UL20181029jgv1
	Amount:	\$7,020.00
Local Zoning	Information not provided.	
	Information not provided.	

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,289,896.29	\$3,888,845.97	\$1,874,827.31

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

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

06/06/2019

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

06/06/2019

Attachments