



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **6093** | Service: **DTV** | Call **WFSG** | Channel: **28 (UHF)** |
ID: | Sign:
File **0000024819**
Number:
FRN: **0001810977** | Date **12/28**
Submitted: **/2018**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
Florida State University	Doug Crall 1600 RED BARBER PLAZA TALLAHASSEE, FL 32310 United States	+1 (850) 645-6032	DCRALL@FSU. EDU	Government Entity

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Ryan C Wilhour <i>Consulting Engineer</i> <i>Kessler and Gehman Associates, Inc.</i>	507 NW 60th ST STE D Gainesville, FL 32607 United States	+1 (352) 332-3157	ryan@kesslerandgehman. 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	Replace Transmitter and purchase a new antenna and transmission line. Use the existing antenna system as the interim through the end of the assigned phase. See WFSG Transmission Plan attached.

Transmitters

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

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Ultimate
	Year	2002
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	10 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-16
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	10.8 kW
	Justification for New Transmitter	The station currently has a 10kW Comark Ultimate solid state liquid cooled transmitter, which is no longer being manufactured. Jack McNulty of Comark has indicated that they will NOT re-channelize the Ultimate transmitter. A new transmitter is required.

**Primary
Transmitter**

Other Transmitter Costs

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

	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line
Standby Exciter and Switch	Standby Exciter with Automatic Change Over Switch

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	158.0 kW

Manufacturer	
Model	TLP-32A (c)
Year	2002

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	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	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	129.0 kW
	Manufacturer	

	Model	TFU-24JTH /VP-R O4
	Year	2018
	Justification for New Antenna	Refer to Exhibit 2

**Primary
Antenna**

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	4 1/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna	Other Antenna Cost Not Listed Information not provided.
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Transmission Line

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

**Primary
Transmission Line**

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	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	
	Type	Rigid
	Diameter	3 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	500 feet per run

Primary
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	550 feet per run
	Justification for New Transmission Line	The existing transmission line will be kept in place and used to feed the currently licensed antenna during the interim transitional period.

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1038765
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	30° 22' 03.0" N-
	Longitude (NAD83)	085° 55' 28.0" W-
	Overall Structure Height	488.51 feet
	Support Structure Height	443.56 feet
	Ground Elevation Above Mean Sea Level (AMSL)	65.62 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	WFSU / WFSG--TV
Date Constructed	09/01/1987

**FM, AM or TV radio
broadcasters. Facility ID's,
Call Signs and Services of
other broadcast stations with
whom the tower is shared**

Facility ID	Call Sign	Service
21798	WFSW	FM

Other Types of Users

Users
Public Safety

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

**Primary
Tower**

Other Tower Expenses Not Listed

Name	Description
Transmission Line Bridge	Transmission line ice bridge to support the new transmission line running to the new transmitter location inside the existing building. See Cover Letter and photo in file named WFSG TCI Final Package
Additional Mobilization	Additional mobilization services associated with Tower Rigging

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	24
	Explanation	Fewer project management hours are being required than originally estimated
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 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	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	No
	Additional Field Engineering Service	Yes
	Number of Days	5
	Justification	Fewer on site days are being required than originally estimated

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Other Engineering Services	Outside engineering services not included in any other OPS sections
Other Legal Services	Outside legal services not included in any other OPS sections

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
	Information not provided.

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-16	\$599,750.00	\$426,451.92		\$219,302.72	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$399,707.92	Upgraded transmitter for which Licensee will pay the upgrade cost difference. Amended 12/21/18 to reflect changes.	\$219,302.72	N/A
Standby Exciter and Switch	<i>\$0.00</i>	\$0.00	Included in transmitter cost	N/A	N/A
Additional Interior RF System	<i>\$0.00</i>	\$0.00	Included in transmitter cost	N/A	N/A
10 Ton system	\$38,900.00	\$26,744.00	See quote and justification attached as file WFSG Quote S26744 00000000 Quote 00000000 000000000 PEA TX EQ Aug18 FSU	N/A	N/A

2" Rigid Conduit and Wiring (Cost per foot)	\$2,600.00	\$0.00	Included in transmitter cost	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$0.00	Included in transmitter cost	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$0.00	Included in transmitter cost	N/A	N/A
Sub-total	\$599,750.00	\$426,451.92	N/A	\$219,302.72	N/A
Total for all systems	\$1,880,985.00	\$1,489,429.92	N/A	\$893,045.39	N/A

Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	<p>Component Description: 2nd Installment, one-third payment prior to shipping</p> <p>Amount: \$109,651.36</p> <p>Component Description: One-third down payment for new transmitter</p> <p>Amount: \$109,651.36</p>
Standby Exciter and Switch	Information not provided.
Additional Interior RF System	Information not provided.
10 Ton system	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.

Switchgear - industrial 800 amp	Information not provided.
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**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
Primary Antenna TFU-24JTH /VP-R 04	\$270,900.00	\$322,981.00		\$254,828.80	
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$8,890.00	N/A	\$2,667.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$309,646.00	See Cover Letter associated with Invoice 8330 in file named WFSG TCI Final Package	\$247,716.80	The total cost of this antenna will be \$309,646.00, which is the cost offered by TCI under the turnkey antenna and tower contract.
Sweep test of existing antenna	\$6,730.00	\$0.00	Sweep is included in cost of antenna	N/A	N/A

Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	\$7,600.00	\$4,445.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***See Cover Letter associated with Invoice 8330 in file named WFSG TCI Final Package	\$4,445.00	N/A
Sub-total	\$270,900.00	\$322,981.00	N/A	\$254,828.80	N/A
Total for all systems	\$1,880,985.00	\$1,489,429.92	N/A	\$893,045.39	N/A

Components

Actual Information Description	File Name
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	<p>Component Description: 30pct progress payment</p> <p>Amount: \$2,667.00</p>
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	<p>Component Description: 30 pct progress pmt Pri ant</p> <p>Amount: \$86,318.80</p> <p>Component Description: 50 pct down payment</p> <p>Amount: \$161,398.00</p>

Sweep test of existing antenna	Information not provided.	
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	Component Description: Amount:	30 pct progress pmt, but prior 50% payment was already sufficient to total 80%. N/A
	Component Description: Amount:	50 pct down payment \$4,445.00

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
Primary Transmission Line	\$135,300.00	\$60,874.00		\$48,699.20	
Rigid Transmission Line - copper, 4 1 /16"	\$78,100.00	\$30,437.00	Total cost of the actual 4- 1/16" transmission line is \$60,874. Part of this was entered into the line previously named 3-1 /8" transmission line, which is now locked. This is the balance of the actual transmission line cost.	\$18,262.20	N/A

Rigid Transmission Line - copper, 3 1/8"	\$57,200.00	\$30,437.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***See Cover Letter associated with Invoice 8330 in file named WFSG TCI Final Package	\$30,437.00	N/A
Sub-total	\$135,300.00	\$60,874.00	N/A	\$48,699.20	N/A
Total for all systems	\$1,880,985.00	\$1,489,429.92	N/A	\$893,045.39	N/A

Components

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 4 1/16"	<p>Component Description: 30 pct progress pmt for transmission line</p> <p>Amount: \$18,262.20</p>

Rigid Transmission Line - copper, 3 1/8"		
	Component Description:	50 pct down payment
	Amount:	\$30,437.00
	Component Description:	This component is RED. See new component for the 30pct progress payment.
	Amount:	N/A

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	\$605,548.00	\$417,478.00		\$319,160.00	
Additional Mobilization	<i>\$41,768.00</i>	\$41,768.00	See attachment named: WFSG Remobilization Change Order Cover Page. pdf, for explanation	\$41,768.00	N/A
Short Tower (less than 500')	\$84,200.00	\$136,750.00	See Cover Letter associated with Invoice 8330 in file named WFSG TCI Final Package	\$109,400.00	The total cost of this rigging work will be \$136,750, which is part of a turnkey project by TCI for the antenna and tower work.
Transmission Line Bridge	<i>\$32,280.00</i>	\$32,280.00	See Cover Letter and photo in file named WFSG TCI Final Package	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$173,040.00	See Cover Letter associated with Invoice 8330 in file named WFSG TCI Final Package	\$138,432.00	N/A

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$33,640.00	Includes Structural Analysis which perhaps should have been entered into Modifications section of this Category.	\$29,560.00	Perhaps the Structural Analysis should have been entered in the tower modifications section.
Sub-total	\$605,548.00	\$417,478.00	N/A	\$319,160.00	N/A
Total for all systems	\$1,880,985.00	\$1,489,429.92	N/A	\$893,045.39	N/A

Components

Actual Information Description	File Name
Additional Mobilization	<p>Component Description: Tower Contractor Remobilization WFSG</p> <p>Amount: \$41,768.00</p>
Short Tower (less than 500')	<p>Component Description: 30 pct progress pmt rigging antenna installation</p> <p>Amount: \$47,600.00</p> <p>Component Description: 50 pct down payment</p> <p>Amount: \$61,800.00</p>
Transmission Line Bridge	Information not provided.

Major tower reinforcement /modifications	<table> <tr> <td data-bbox="710 174 1013 208">Component Description:</td><td data-bbox="1150 174 1374 241">30 pct progress pmt for tower mods</td></tr> <tr> <td data-bbox="710 255 815 288">Amount:</td><td data-bbox="1150 255 1283 288">\$51,912.00</td></tr> <tr> <td data-bbox="710 394 1013 427">Component Description:</td><td data-bbox="1150 394 1294 461">50 pct down payment</td></tr> <tr> <td data-bbox="710 474 815 508">Amount:</td><td data-bbox="1150 474 1283 508">\$86,520.00</td></tr> </table>	Component Description:	30 pct progress pmt for tower mods	Amount:	\$51,912.00	Component Description:	50 pct down payment	Amount:	\$86,520.00								
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Amount:	\$51,912.00																
Component Description:	50 pct down payment																
Amount:	\$86,520.00																
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<table> <tr> <td data-bbox="710 647 1013 680">Component Description:</td><td data-bbox="1150 647 1374 916">Structural Analysis of the WFSG Panama City Tower. Also see attached letter from the vendor with further explanation.</td></tr> <tr> <td data-bbox="710 929 815 963">Amount:</td><td data-bbox="1150 929 1267 963">\$6,000.00</td></tr> <tr> <td data-bbox="710 1068 1013 1102">Component Description:</td><td data-bbox="1150 1068 1342 1180">Tower Structural Analysis for Side Mount Antennas</td></tr> <tr> <td data-bbox="710 1193 815 1227">Amount:</td><td data-bbox="1150 1193 1267 1227">\$7,240.00</td></tr> <tr> <td data-bbox="710 1332 1013 1366">Component Description:</td><td data-bbox="1150 1332 1342 1400">30 pct progress pmt for mapping</td></tr> <tr> <td data-bbox="710 1413 815 1447">Amount:</td><td data-bbox="1150 1413 1267 1447">\$6,120.00</td></tr> <tr> <td data-bbox="710 1552 1013 1585">Component Description:</td><td data-bbox="1150 1552 1294 1619">50 pct down payment</td></tr> <tr> <td data-bbox="710 1632 815 1666">Amount:</td><td data-bbox="1150 1632 1283 1666">\$10,200.00</td></tr> </table>	Component Description:	Structural Analysis of the WFSG Panama City Tower. Also see attached letter from the vendor with further explanation.	Amount:	\$6,000.00	Component Description:	Tower Structural Analysis for Side Mount Antennas	Amount:	\$7,240.00	Component Description:	30 pct progress pmt for mapping	Amount:	\$6,120.00	Component Description:	50 pct down payment	Amount:	\$10,200.00
Component Description:	Structural Analysis of the WFSG Panama City Tower. Also see attached letter from the vendor with further explanation.																
Amount:	\$6,000.00																
Component Description:	Tower Structural Analysis for Side Mount Antennas																
Amount:	\$7,240.00																
Component Description:	30 pct progress pmt for mapping																
Amount:	\$6,120.00																
Component Description:	50 pct down payment																
Amount:	\$10,200.00																

Cost
Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$176,937.00	\$169,645.00		\$44,954.26	
Project management of the transition	\$3,792.00	\$3,600.00	N/A	\$1,320.00	Outside Project Management Services for WFSG
Other Legal Services	<i>\$10,000.00</i>	\$10,000.00	N/A	\$2,589.00	N/A
Other Engineering Services	<i>\$24,107.50</i>	\$24,107.50	N/A	\$6,412.50	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	\$18,811.51	Comprehensive coverage verification via field study for WFSG. These measurement: will be used to compare with post-transition measurement:
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

Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	\$783.75	Attorney Request for Special Temporary Authority - early transition for WFSG
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
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	\$1,500.00	Engineering section of FCC Construction Permit Application Main Facility for WFSG
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$4,500.00	Engineering study for new channel assignment and antenna development for WFSG
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A

Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$2,500.00	Prepare or Review FCC Form 399 for Reimbursement for WFSG
Additional Field Engineering Service, 5 Days	\$10,000.00	\$10,000.00	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), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$1,475.00	Attorney section of Forr FCC Construction Permit Application Main Facility for WFSG
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	\$875.00	Engineering for Special Temporary Authority for early transition of WFSG
Additional Field Engineering Service, 15 Days	\$4,187.50	\$4,187.50	***System Notice: Estimate adjusted and locked because line has been superseded.***	\$4,187.50	Additional Field Engineering Service, Site survey WFSC
Sub-total	\$176,937.00	\$169,645.00	N/A	\$44,954.26	N/A
Total for all systems	\$1,880,985.00	\$1,489,429.92	N/A	\$893,045.39	N/A

Components

Actual Information	
Description	File Name
Project management of the transition	Component Description: Prepare and submit Form 387 1Q2018 progress report Amount: \$225.00
	Component Description: Project Management Preparation of Form 387 Quarterly Report Amount: \$150.00
	Component Description: Refer to attachment "KG Invoice Explanations.pdf". Outside Project Management Services, Form 387 Progress Report Amount: \$300.00
	Component Description: Project Management Preparation of Form 387 Quarterly Report Amount: \$150.00
	Component Description: Prepare and submit Form 387 4Q2017 progress report Amount: \$495.00

Other Legal Services	Component Description:	Repack reimbursement legal advice
	Amount:	\$57.00
	Component Description:	Other Legal Services WFSG Repacking
	Amount:	\$617.50
	Component Description:	Other Legal Services WFSG Repacking
	Amount:	\$618.00
	Component Description:	Other Legal Services WFSG Repacking
	Amount:	\$1,296.50
Other Engineering Services	Component Description:	RF Design for WFSG primary and interim facilities
	Amount:	\$5,600.00
	Component Description:	Prepare and submit Form 399 actual cost invoices
	Amount:	\$812.50

Comprehensive coverage verification via field study, if needed	<p>Component Description:</p> <p>Refer to attachment "KG Invoice Explanations.pdf". Comprehensive coverage verification via field study for WFSG</p> <p>Amount:</p> <p>\$18,811.51</p>
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	<p>Component Description:</p> <p>Attorney Request for Special Temporary Authority - early transition for WFSG</p> <p>Amount:</p> <p>\$783.75</p>
Attorney Fees -Prepare and File FCC Form 2100 (main), 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	<p>Component Description:</p> <p>Refer to attachment "KG Invoice Explanations.pdf". Engineering section of Form FCC Construction Permit Application Main Facility for WFSG</p> <p>Amount:</p> <p>\$1,500.00</p>

Perform engineering study for new channel assignment and antenna development	<p>Component Description:</p> <p>Refer to attachment "KG Invoice Explanations.pdf". Engineering study for new channel assignment and antenna development for WFSG</p> <p>Amount:</p> <p>\$4,500.00</p>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Prepare and or review reimbursement form	<p>Component Description:</p> <p>Refer to attachment "KG Invoice Explanations.pdf". Prepare or Review FCC Form 399 for Reimbursement for WFSG</p> <p>Amount:</p> <p>\$2,500.00</p>
Additional Field Engineering Service, 5 Days	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<p>Component Description:</p> <p>Incentive Auction Public Notice and regional coordinator for repack transition</p> <p>Amount:</p> <p>\$213.75</p>

Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility for WFSG
Amount:	\$71.25

Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility for WFSG
Amount:	\$285.00

Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility for WFSG
Amount:	\$71.25

Component Description:	Post auction reimbursement procedures and application procedures
Amount:	\$142.50

Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility WFSG
Amount:	\$285.00

Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility for WFSG
Amount:	\$406.25

Prepare request for Special Temporary Authorization	<p>Component Description:</p> <p>Refer to attachment "KG Invoice Explanations.pdf". Engineering for Special Temporary Authority for early transition for WFSG</p> <p>Amount:</p> <p>\$875.00</p>
Additional Field Engineering Service, 15 Days	<p>Component Description:</p> <p>Refer to attachment "KG Invoice Explanations.pdf". WFSG on-site Equipment inventory and facilities survey - site visit</p> <p>Amount:</p> <p>\$4,187.50</p>

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$92,550.00	\$92,000.00		\$6,100.41	
Equipment Storage	<i>\$15,000.00</i>	\$15,000.00	N/A	\$1,162.91	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	\$1,812.50	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$20,000.00</i>	\$20,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Local Zoning	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,125.00	N/A
Develop and air announcement of upcoming channel change	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Sub-total	\$92,550.00	\$92,000.00	N/A	\$6,100.41	N/A

Total for all systems	\$1,880,985.00	\$1,489,429.92	N/A	\$893,045.39	N/A
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Components

Actual Information	
Description	File Name
Equipment Storage	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Portable Storage Container for WFSG Repack</div> <div>\$144.11</div> </div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Portable Storage Container for WFSG Repack</div> <div>\$144.11</div> </div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Portable Storage Container for WFSG Repack</div> <div>\$144.11</div> </div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Portable Storage Container for WFSG Repack</div> <div>\$144.11</div> </div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Portable Storage Container for WFSG Repack</div> <div>\$586.47</div> </div>

MVPD Notification of Channel Change	<p>Component Description:</p> <p>Prepare and distribute MVPD notifications and certification statement for public file</p> <p>Amount:</p> <p>\$1,812.50</p>
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Non-zoning permits	Information not provided.
Local Zoning	Information not provided.
DTV Medical Facility Notification	<p>Component Description:</p> <p>Prepare and distribute Medical notifications and certification statement for public file</p> <p>Amount:</p> <p>\$3,125.00</p>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.

Cost Information	Grand Total		
	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$1,880,985.00	\$1,489,429.92	\$893,045.39

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

<p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Robert Gehman <i>Consulting Engineer</i></p> <p>12/28/2018</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Robert Gehman <i>Consulting Engineer</i></p> <p>12/28/2018</p>

Attachments