



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **54420** | Service: **DTV** | Call **KMYT-TV** | Channel: **34 (UHF)** |  
ID: | Sign: |  
File **0000027940**  
Number:  
FRN: **0032111452** | Date **01/05**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>COX TELEVISION TULSA, LLC</b> Doing Business As: COX TELEVISION TULSA, LLC	Chief Engineer 2625 SOUTH MEMORIAL DRIVE TULSA, OK 74129 United States	+1 (918) 491-0023	Jeff. Stuart@coxinc. com	Limited Liability Company

## 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
<b>Jeff Stuart</b> <i>Chief Engineer</i> <i>Cox Television Tulsa, LLC</i>	Chief Engineer 2625 South Memorial Drive Tulsa, OK 74129 United States	+1 (918) 491-0023	Jeff.Stuart@coxinc. 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.		Yes
Briefly describe transition plan		KMYT will construct interim facilities on nearby tower. KMYT will move to the interim tower on its current channel. KMYT's new equipment will be installed after serious tower modifications at existing site.

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	Sigma CD3200
	Year	2002
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	42 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	Current IOT Transmitter cannot be retuned per manufacturer and solid state transmitter is less than a comparable IOT transmitter.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	3 inches

	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Required new 208vac Transformer, Switch and Panel with Breakers
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
<b>Indoor RF Equipment</b>	New mask filter, reject loads, main load and switch control equipment
<b>Spare Parts Kit</b>	Current Spare parts kit is not compatible with new transmitter.
<b>Transmitter Disposal</b>	Removal and environmental disposal of existing transmitter coolant and High Voltage Beam Supply oil.

**Interim  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	47.2 kW
	Justification for New Transmitter	Interim transmitter needed for continued viewer service during the repack process.

**Interim  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	250.0 feet
	Other Electrical Service	Yes

	Description	208vAC Transformer, Switch and Panel with Breakers for Pumps, Loads, Generator, lighting and UPS.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	20 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	1200.0 square feet
<b>Channel 14 Costs</b>	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
<b>Inside RF System</b>	Is an additional interior RF system required to support this interim transmitter?	Yes

**Interim Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
<b>STL Signal Link</b>	STL/TSL microwave equipment, dish, line and rigging installation costs
<b>Transmitter Control</b>	Required Transmitter control, Rack, UPS and remote monitoring system

**Antennas**

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



**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	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) .....	900.0 kW

Manufacturer	
Model	ATW30H5- HSOL-41H
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?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side 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) .....	770.0 kW
	Manufacturer	

Model	TFU-29JSC-R-04
Year	2018
Justification for New Antenna	Current antenna cannot be retuned on new Repacked channel.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	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
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes

<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes
-------------------	--	-----

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels/Bays	3
	Lower Limit	521.00 MHz
	Upper Limit	641.00 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
	Year	2018

	Justification for New Antenna	Broadband panel antenna required to approximate the current viewer coverage without exceeding licensed contour.
--	-------------------------------	---

## Interim Antenna

### Other Antenna Costs

Section	Question	Response
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	6 1/8 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

## Interim Antenna

### Other Antenna Cost Not Listed

Name	Description
<b>Interim Tower Rigging</b>	Rigging and installation costs for Interim Antenna and Line.

**Transmission Line**

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



**Primary**      **Add Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmission currently shared with any other stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1285 feet per run

**Primary** **New Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1285 feet per run
	Justification for New Transmission Line	Current line will not technically operate within specs at channel 34 per manufacturer.

**Primary** **Other Transmission Line Expenses Not Listed**  
**Transmission Line**

Information not provided.

**Interim**  
**Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	19 ½ '
	Other Segment Length	
	Number of parallel runs	1
	Length	1720 feet per run
	Justification for New Transmission Line	Rigid Coaxial Transmission line for Interim Antenna located at the Interim site.

**Interim**  
**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	Leased
	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?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1048931
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 01' 36.0" N-
	Longitude (NAD83)	095° 40' 45.0" W-
	Overall Structure Height	1268.03 feet
	Support Structure Height	1200.12 feet
	Ground Elevation Above Mean Sea Level (AMSL)	709.97 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	IWG Towers Assets II, LLC
	Date Constructed	03/28/2003

**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
11910	KOKI-TV	DTV

#### Other Types of Users

Users
Action Radio Co

#### Primary Tower

#### Tower Modification Costs

Section	Question	Response
<b>Engineering Study</b>	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
<b>Tower Reinforcements</b>	Please select whether tower reinforcements are needed:	Serious 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
Additional Tower Engineering	Additional tower studies and modifications engineering.

**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	160
	Explanation	Manage and coordinate delivery of all equipment at both the Interim Site as well as the Main Site. Confirm all contractors arrival and schedule.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A

<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A



Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Interim Facility Engineering	Service Fees for engineering, mechanical and utilities design and management.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	Local Zoning	Yes
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
<b>Other Miscellaneous Expenses</b>	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
<b>Interim Tower and Ground Lease</b>	Interim Tower and Ground Lease will be required by Interim Tower Owner for 5 years minimum.
<b>Interim Tower Mapping and Studies</b>	Tower Mapping and Studies will be needed to be performed on Interim Tower and grounds to determine loading.
<b>Interim Tower Modifications</b>	Modifications will needed on Interim Tower to bring to TIA/ANSI Rev. G standard.

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
Interim Transmitter ULXTE-72	\$2,571,888.56	\$2,072,939.24		\$389,712.21	
Transmitter Control	\$27,863.90	\$27,863.90	Includes IP router, rack, UPS and control server needed to be in compliance with remote monitoring of transmitters.	N/A	N/A
STL Signal Link	\$222,634.64	\$222,634.64	STL/TSL Signal from Studio. Dish, Line, Radios for both ends. Includes Rigging and path alignment. Frequency path analysis and line sweeps.	N/A	N/A

Other Electrical Service: 208vAC Transformer, Switch and Panel with Breakers for Pumps, Loads, Generator, lighting and UPS.	<b>\$272,140.02</b>	\$272,140.02	208vac transformer and TVSS from Gates Air. Interim transmitter panel and breakers. Generator and ATS switch for building including installation.	\$3,378.28	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$13,000.00	\$12,250.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,046,689.68	N/A	\$348,896.54	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
Other -- HVAC Service Type: C Size: 20 (Other)	<b>\$37,600.00</b>	\$37,600.00	2-10 ton Cooling only HVAC units for interim site.	N/A	N/A

Other -- Building Addition Size: 1200.0	<b>\$300,000.00</b>	\$300,000.00	Building constructed at Interim Site. No existing facility available at site. This build includes floor, walls, roof, and ice protection. Outdoor concrete pads for heat exchangers with ice protection.	\$2,100.00	N/A
UHF inside RF system including switching	\$147,500.00	\$79,461.00	Indoor RF equipment and control including dummy load, switch, mask filter and control equipment.	\$35,337.39	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A
<b>Primary Transmitter ULXTE-72</b>	<b>\$1,750,765.99</b>	<b>\$1,434,058.49</b>		<b>\$326,088.81</b>	
Transmitter Disposal	<b>\$1,788.00</b>	\$1,788.00	Environmental disposal of existing Sigma coolant and Beam supply oil. 10 Drums/550 gallons.	N/A	N/A

Spare Parts Kit	<b>\$12,008.57</b>	\$12,008.57	Current Parts kit is not compatible with new transmitter. New kit replaces existing parts kit of PA module, power supply, control boards.	\$3,482.82	N/A
Indoor RF Equipment	<b>\$144,685.80</b>	\$144,685.80	Inside RF System including Mask Filter, dummy load system and control from Gates Air.	\$24,727.09	N/A
10 Ton system	\$38,900.00	\$37,000.00	N/A	N/A	N/A
Other Electrical Service: Required new 208vac Transformer, Switch and Panel with Breakers	<b>\$36,983.62</b>	\$36,983.62	208VAC Transformer and Surge Suppressor from Gates Air, installation and 208VAC panel board and breakers including associated wiring.	\$2,495.91	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,160,392.50	Main transmitter required for operation, Gates Air quote minus the spare parts kit, Indoor RF, and Electrical.	\$295,382.99	N/A

3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
<b>Sub-total</b>	\$4,322,654.55	\$3,506,997.73	N/A	\$715,801.02	N/A
<b>Total for all systems</b>	\$7,948,026.74	\$7,020,532.92	N/A	\$1,223,007.89	N/A

## Components

Actual Information	
Description	File Name
Transmitter Control	Information not provided.
STL Signal Link	Information not provided.
Other Electrical Service: 208vAC Transformer, Switch and Panel with Breakers for Pumps, Loads, Generator, lighting and UPS.	<p><b>Component Description:</b></p> <p>Down Payment for the portion of invoice pertaining to the category of Electrical provided by Gates Air.</p> <p><b>Amount:</b></p> <p>\$3,378.28</p>
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<p><b>Component Description:</b></p> <p>Down payment for portion of the invoice pertaining to the category of transmitter and installation.</p> <p><b>Amount:</b></p> <p>\$348,896.54</p>
Switchgear - industrial 800 amp	Information not provided.



Transformer 3 phase/480v - 150 KVA	Information not provided.	
Other -- HVAC Service Type: C Size:20 (Other)	Information not provided.	
Other -- Building Addition Size: 1200.0	<b>Component Description:</b>	Invoice pertaining to the portion of geotech in the category of Interim Facility
	<b>Amount:</b>	\$2,100.00
UHF inside RF system including switching	<b>Component Description:</b>	Down Payment for the portion of invoice pertaining to the category of Indoor RF including Mask Filter
	<b>Amount:</b>	\$35,337.39
Service entrance 3 phase /800 amp/208 volt	Information not provided.	
Transmitter Disposal	Information not provided.	
Spare Parts Kit	<b>Component Description:</b>	Down payment for the portion of the invoice pertaining to the category of spare parts.
	<b>Amount:</b>	\$3,482.82
Indoor RF Equipment	<b>Component Description:</b>	Down Payment for the portion of invoice pertaining to the category of Indoor RF.
	<b>Amount:</b>	\$24,727.09

10 Ton system	Information not provided.	
Other Electrical Service: Required new 208vac Transformer, Switch and Panel with Breakers	<b>Component Description:</b>	Down payment for the portion of the invoice pertaining to the category of other Electrical service.
	<b>Amount:</b>	\$2,495.91
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<b>Component Description:</b>	Down payment for portion of the invoice pertaining to the category of transmitter and installation.
	<b>Amount:</b>	\$295,382.99
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	

## 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	\$397,890.00	\$395,550.00		\$81,107.65	
Interim Tower Rigging	<i>\$200,000.00</i>	\$200,000.00	Interim Site rigging, installation of antenna and line using Widelity Estimate for Tower Rigging.	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	N/A	N/A
UHF – Broadband Panel, Side Mount Auxiliary /Interim, 1000 horizontally polarized	<i>\$150,450.00</i>	\$150,450.00	Interim Panel Antenna required to approximate the current viewer coverage without exceeding licensed contour. Vendor Change	\$67,702.50	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	\$2,700.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	\$8,364.60	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,340.55	N/A
<b>Primary Antenna TFU-29JSC-R-04</b>	<b>\$233,940.00</b>	<b>\$231,500.00</b>		<b>\$87,321.60</b>	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	\$9,787.50	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	\$2,700.00	N/A
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	\$13,900.00	\$13,200.00	N/A	\$4,634.10	N/A
UHF - High Power, Side Mount, basic slot antenna, 770 kW input, horizontally polarized	<b>\$184,900.00</b>	\$184,900.00	Main Antenna replacement, current antenna cannot be retuned. Price includes shipping. Vendor Change	\$70,200.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
<b>Sub-total</b>	\$631,830.00	\$627,050.00	N/A	\$168,429.25	N/A
<b>Total for all systems</b>	\$7,948,026.74	\$7,020,532.92	N/A	\$1,223,007.89	N/A

## Components

**Actual Information**  
**Description**

**File Name**

Interim Tower Rigging	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
UHF – Broadband Panel, Side Mount Auxiliary/Interim, 1000 horizontally polarized	<b>Component Description:</b>  <b>Amount:</b>	Down Payment for the portion of invoice pertaining to the category of Interim Antenna. \$67,702.50
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	<b>Component Description:</b>  <b>Amount:</b>	Invoice pertaining to the portion of design in the category of Scatter Study. \$2,700.00
Side mount brackets for high power antennas (if not included in antenna base cost)	<b>Component Description:</b>  <b>Amount:</b>	Down Payment for the portion of invoice pertaining to the category of side mount bracket. \$8,364.60
Sweep test of existing antenna	<b>Component Description:</b>  <b>Amount:</b>	Invoice pertaining to the category of existing Antenna and Line Sweep. \$2,340.55

Side mount brackets for high power antennas (if not included in antenna base cost)	<p><b>Component Description:</b></p> <p>Down Payment for the portion of invoice pertaining to the category of side mount bracket.</p> <p><b>Amount:</b></p> <p>\$9,787.50</p>
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	<p><b>Component Description:</b></p> <p>Invoice pertaining to the portion of design in the category of Scatter Study.</p> <p><b>Amount:</b></p> <p>\$2,700.00</p>
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	<p><b>Component Description:</b></p> <p>Down Payment for the portion of invoice pertaining to the category of Elbow Complex</p> <p><b>Amount:</b></p> <p>\$4,634.10</p>
UHF - High Power, Side Mount, basic slot antenna, 770 kW input, horizontally polarized	<p><b>Component Description:</b></p> <p>Down Payment for the portion of invoice pertaining to the category of Primary Antenna.</p> <p><b>Amount:</b></p> <p>\$70,200.00</p>
Sweep test of existing antenna	Information not provided.

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	\$347,440.00	\$298,752.00		\$136,212.26	
Rigid Transmission Line - copper, 6 1/8"	\$347,440.00	\$298,752.00	N/A	\$136,212.26	N/A
Primary Transmission Line	\$372,650.00	\$383,346.00		\$92,117.36	
Rigid Transmission Line - copper, 7 3/16"	\$372,650.00	\$383,346.00	Cost includes all hangars, line, pressure windows and required dehydrator. Line design and site evaluation included in cost.	\$92,117.36	N/A
Sub-total	\$720,090.00	\$682,098.00	N/A	\$228,329.62	N/A
Total for all systems	\$7,948,026.74	\$7,020,532.92	N/A	\$1,223,007.89	N/A

Components

Actual Information	
Description	File Name



Rigid Transmission Line - copper, 6 1/8"	<div data-bbox="722 174 1027 208"><b>Component Description:</b></div> <div data-bbox="1163 174 1369 365">Down Payment for the portion of invoice pertaining to the category of Interim Line.</div> <div data-bbox="722 376 831 409"><b>Amount:</b></div> <div data-bbox="1163 376 1310 409">\$136,212.26</div>
Rigid Transmission Line - copper, 7 3/16"	<div data-bbox="722 553 1027 586"><b>Component Description:</b></div> <div data-bbox="1163 553 1369 743">Down Payment for the portion of invoice pertaining to the category of Primary Line.</div> <div data-bbox="722 754 831 788"><b>Amount:</b></div> <div data-bbox="1163 754 1295 788">\$92,117.36</div>

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	\$1,319,324.00	\$1,255,524.00		\$45,960.00	
Additional Tower Engineering	<i>\$30,524.00</i>	\$30,524.00	Additional tower engineering due to serious tower modifications and studies.	\$26,220.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	N/A	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$1,000,000.00	Serious Tower Modification are required to bring tower to current standards.	N/A	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	\$19,740.00	N/A
Sub-total	\$1,319,324.00	\$1,255,524.00	N/A	\$45,960.00	N/A
Total for all systems	\$7,948,026.74	\$7,020,532.92	N/A	\$1,223,007.89	N/A

## Components

Actual Information	File Name
Description	
Additional Tower Engineering	<div> <b>Component Description:</b> Invoice pertaining to the category of Tower Mod Studies for difficult Tower.         </div> <div> <b>Amount:</b> \$26,220.00         </div>
Tall Tower (greater than 500')	Information not provided.
Serious tower reinforcement /modifications	Information not provided.
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<div> <b>Component Description:</b> Invoice pertaining to the category of Tower Mapping.         </div> <div> <b>Amount:</b> \$13,440.00         </div> <div> <b>Component Description:</b> Invoice pertaining to the category of Additional mapping and studies for difficult Tower.         </div> <div> <b>Amount:</b> \$6,300.00         </div>

## 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
<b>Outside Professional Services</b>	<b>\$213,450.00</b>	<b>\$208,750.00</b>		<b>\$40,800.00</b>	
Interim Facility Engineering	<i>\$48,000.00</i>	\$48,000.00	Interim Facility building engineering, mechanical, A/E, and utilities. Civil design and stamped drawing package.	\$40,800.00	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
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$8,000.00	This is for both the Main Tower Site as well as the Interim Site.	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare 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
Project management of the transition	\$25,280.00	\$24,000.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	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

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
<b>Sub-total</b>	\$213,450.00	\$208,750.00	N/A	\$40,800.00	N/A
<b>Total for all systems</b>	\$7,948,026.74	\$7,020,532.92	N/A	\$1,223,007.89	N/A

## Components

Actual Information	
Description	File Name
Interim Facility Engineering	<p><b>Component Description:</b> Invoice pertaining to the portion of design in the category of Interim Facility Engineering.</p> <p><b>Amount:</b> \$7,200.00</p> <p><b>Component Description:</b> Invoice pertaining to the portion of design in the category of Interim Facility Engineering.</p> <p><b>Amount:</b> \$33,600.00</p>
RF Exposure Measurements	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.

Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare 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.
Project management of the transition	Information not provided.
Prepare and or review reimbursement form	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Perform engineering study for new channel assignment and antenna development	Information not provided.
Prepare 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 Cost Justification
<b>Other Expenses</b>	<b>\$740,678.19</b>	<b>\$740,113.19</b>		<b>\$23,688.00</b>	
Interim Tower Modifications	<i>\$150,000.00</i>	\$150,000.00	Tower Modifications to bring Interim tower to latest standard before interim antenna and line may be installed. Widelity Estimate for Minor Tower Modifications used.	N/A	N/A
Interim Tower Mapping and Studies	<i>\$31,218.00</i>	\$31,218.00	Interim Tower Mapping, Structural and engineering studies required by tower owner.	\$23,688.00	N/A
Interim Tower and Ground Lease	<i>\$510,000.00</i>	\$510,000.00	Interim site tower and ground lease for \$8,500.00 month for minimum 5 years.	N/A	N/A
MVPD Notification of Channel Change	<i>\$2,500.00</i>	\$2,500.00	Certified letter services and notification for FCC Repack channel change.	N/A	N/A



FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<b>\$4,000.00</b>	\$4,000.00	Cost of antenna and line removal from property for environmental disposal.	N/A	N/A
Equipment Delivery and Handling Charges	<b>\$9,896.63</b>	\$9,896.63	Large equipment rental to unload deliveries. Main and Interim Site will be needed.	N/A	N/A
Equipment Storage	<b>\$9,983.56</b>	\$9,983.56	Container purchase and delivery for Main and Interim site requiring storage of equipment during construction and tower modifications.	N/A	N/A
Develop and air announcement of upcoming channel change	<b>\$2,500.00</b>	\$2,500.00	General Public information and channel change campaign including cost of production.	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A

DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Local Zoning	<b>\$8,500.00</b>	\$8,500.00	Interim Building Permit and Zoning Permits for Wagoner County, Oklahoma	N/A	N/A
<b>Sub-total</b>	\$740,678.19	\$740,113.19	N/A	\$23,688.00	N/A
<b>Total for all systems</b>	\$7,948,026.74	\$7,020,532.92	N/A	\$1,223,007.89	N/A

## Components

Actual Information	
Description	File Name
Interim Tower Modifications	Information not provided.

Interim Tower Mapping and Studies	<b>Component Description:</b>	Invoice pertaining to the portion of design in the category of Interim Mapping /Study.
	<b>Amount:</b>	\$6,500.00
	<b>Component Description:</b>	Invoice pertaining to the portion of design in the category of Interim Mapping /Study.
	<b>Amount:</b>	\$10,438.00
	<b>Component Description:</b>	Invoice pertaining to the portion of design in the category of Interim Mapping /Study.
	<b>Amount:</b>	\$6,750.00
Interim Tower and Ground Lease	Information not provided.	
MVPD Notification of Channel Change	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Equipment Delivery and Handling Charges	Information not provided.	
Equipment Storage	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	

FCC Filing Fees - Special Temporary Authorization request	Information not provided.
DTV Medical Facility Notification	Information not provided.
Local Zoning	Information not provided.

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$7,948,026.74	\$7,020,532.92
			\$1,223,007.89

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	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"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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><b>Jeff Stuart</b>  <i>Chief Engineer</i></p> <p>01/05/2018</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"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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><b>Jeff Stuart</b>  <i>Chief  Engineer</i></p> <p>01/05/2018</p>

## Attachments