

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 17037 Service: DTV Call KDFI Channel: 27 (UHF)

ID:

Sign: **0000027215** 

Number:

File

FRN: **0013522339** Date **12/07** 

Submitted: /2018

# Applicant Information

#### **Applicant Name, Type, and Contact Information**

Applicant	Address	Phone	Email	Applicant Type
NW COMMUNICATIONS OF TEXAS, INC.	Joseph M. Di Scipio 400 N. CAPITOL STREET, NW SUITE 890 WASHINGTON, DC 20001 United States	+1 (202) 824- 6522	JDISCIPIO@21CF. COM	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
Dennis Wallace Managing Partner Meintel, Sgrignoli & Wallace, LLC	Dennis Wallace 1282 Smallwood Drive Suite 372 Waldorf, MD 20603 United States	+1 (202) 251- 7589	Dennis. Wallace@mswdtv.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	Station KDFI is still working on its transition plan. However, the initial plan would be to install an interim facility to broadcast on the post-auction channel. Then replace the existing antenna and transmission line with new antenna and tx line.

#### **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	Retune Existing
	Use	Primary (Main)
	Ownership	Owned
	Owner	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	Comark
	Model	DCXP-2

Year	2004
Туре	Inductive Output Tube
IOT Power Type	Two
Power capacity	30 kW

# Primary Transmitter

# **Retuning Transmitter Costs**

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	2
New Mask Filter	Power	60 kW
	Other Power	N/A
New Exciter	Is a new exciter needed?	Yes
	Exciter Type	Dual exciter with changeover

# 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	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
		I

	Description	Interlock wiring and conduits for new mask filter. (Retune of Comark Transmitter).
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

#### Primary Transmitter

#### **Other Transmitter Cost Not Listed**

Name	Description
Remove Existing Equipment	Remove Existing Equipment to make room for Interim TX
Remote Control Wiring	Wire up remote control to interim tx

# Auxiliary Transmitter

# **Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Comark
	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	1KW
	Year	2003
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1 kW

# Auxiliary Transmitter

#### **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	TBD
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1 kW
	Justification for New Transmitter	Replace Aux transmitter with unit that will work on new RF Channel.

# Auxiliary 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	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes

	Description	Install new aux transmitter electrical contractor
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Auxiliary
Transmitter

**Other Transmitter Cost Not Listed** 

**Transmitter** Information not provided.

#### Interim Transmitter

#### **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	TBD
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	30 kW
	Justification for New Transmitter	Interim Transmitter for operation at interim facility site while existing site is modified. ATC will decommission existing antenna waveguide run in early 2018.

#### Interim 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	No

	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Electrical installation costs for Interim Transmitter at interim transmitter site.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	800.0 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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

Interim Transmitter **Other Transmitter Cost Not Listed** 

**Transmitter** Information not provided.

#### **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	Auxiliary (Backup)
	Description of Use	Licensed Aux Antenna
	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?	Yes
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)	11.2 kW
Manufacturer	
Model	AL12N-36- PL
Year	2009

#### **New Antenna Costs**

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Licensed Aux
	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?	Yes
New Antenna	Class	Full Power
Manufacturer and Types	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)	15.0 kW
	Manufacturer	
	Model	TBD

Year	2017
Justification for New Antenna	Antenna on new channel to replaced existing licensed aux antenna.  Manufacturer and model number of licensed aux antenna are yet to be finalized.

#### **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	3 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**

Information not provided.

#### 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	Leased
	Owner	ATC
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Туре	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	48
	Design power capacity in use	35.0 %
	Lower Limit	602.00 MHz
	Upper Limit	644.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	A /CUK40671 /1
Year	2008

# Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
68834	KPXD-TV

#### 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	Leased
	Owner	American Tower
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Broadband Panel
	Number of Stations Supported	1
	Number of Panels/Bays	48
	Lower Limit	548.00 MHz
	Upper Limit	554.00 MHz
	Design power capacity in use	34.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	829.0 kW
	Manufacturer	

Model	TBD
Year	2017
Justification for New Antenna	New Repacked channel antenna. Existing antenna optimized for upper UHF band. This antenna is actually mounted below the candelabra. Bottom Mount. New antenna manufacturer and model number are yet to be finalized.

#### Primary Antenna

#### **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	Yes
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
		-

	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?	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

# Enter a list of RF channel numbers.

RF Channel Number	
25	
27	

#### Primary Antenna

**Other Antenna Cost Not Listed** 

Information not provided.

#### 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?	Yes
New Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Bottom
	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)	829.0 kW
	Manufacturer	
	Model	TBD
	Year	2017

Justification for New Antenna	Interim
	Antenna for
	operation
	while main
	antenna
	transmission
	line is
	removed and
	replaced by
	ATC.
	Antenna
	manufacturer
	and model
	number is
	yet to be
	finalized.

#### 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** 

Information not provided.

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

# Auxiliary Transmission Line

#### **Existing Transmission Line**

n Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Aux Antenna line
	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	3 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1250 feet per run

#### New Transmission Line

Auxiliary Transmissio

n Line Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Licensed Aux Site Feed Line
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Туре	Rigid
	Diameter	3 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1250 feet per
	Justification for New Transmission Line	Transmission line run for licensed aux antenna.

Auxiliary Other Transmission Line Expenses Not Listed

Transmission loine tion not provided.

#### **Existing Transmission Line**

#### Primary Transmission

n Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	ATC
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Туре	Waveguide
	Diameter	N/A
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1600 feet per run

Facility ID's and Call Signs of all stations with whom the transmission line is shared.

Facility ID	Call Sign
68834	KPXD-TV

#### **New Transmission Line**

Primary
<b>Transmis</b>

ssion 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
	Туре	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1600 feet per run
	Justification for New Transmission Line	New transmission line to feed to main antenna. Final transmission line size and manufacturer are yet to be finalized.

Primary Other Transmission Line Expenses Not Listed Transmission of provided.

#### Interim

#### **New Transmission Line**

Transmission Line	n Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	8 3/16 inches
		Segment Length	Broadband
		Other Segment Length	
		Number of parallel runs	1
		Length	1600 feet per
	Justification for New Transmission Line	Transmission line to feed Interim antenna. Final line size, length, and diameter are yet to finalized.	

Interim Other Transmission Line Expenses Not Listed Transmission Line tion 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

# Auxiliary Tower

# **Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	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	No
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1059733
Coordinates (NAD83 (	Latitude (NAD83)	32° 32' 36.0" N-
North American Datum of 1983))	Longitude (NAD83)	096° 57' 33.0" W-
	Overall Structure Height	1635.15 feet
	Support Structure Height	1523.60 feet
	Ground Elevation Above Mean Sea Level (AMSL)	813.97 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers, LLC
Date Constructed	06/18/2000

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
68834	KPXD-TV	DTV

#### Auxiliary 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:	Minor Reinforcements needed

#### Auxiliary Tower

#### **Tower Rigging Costs**

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

# Auxiliary Tower

# Other Tower Expenses Not Listed

Information not provided.

# Primary Tower

#### **Existing Tower**

Section	Question	Response
Existing Tower	Type of change	Modify Existing
Description	Tower Use	Primary (Main)
Existing Tower Description  Existing Tower	Description of Use	N/A
	Ownership	Leased
Existing Tower Description	Is this tower consider Complex?	Candelabra
	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	No
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1059733
***************************************	Latitude (NAD83)	32° 32' 36.0" N-
	Longitude (NAD83)	096° 57' 33.0" W-
	Overall Structure Height	1635.15 feet
	Support Structure Height	1523.60 feet
	Ground Elevation Above Mean Sea Level (AMSL)	813.97 feet
	Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
	Tower Owner	American Towers, LLC
	Date Constructed	06/18/2000

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
68834	KPXD-TV	DTV

#### 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:	Minor Reinforcements needed

#### Primary Tower

#### **Tower Rigging Costs**

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

#### Primary Tower

#### Other Tower Expenses Not Listed

Name	Description
American Tower Modification Costs	ATC Estimated costs for modification of existing main antenna.

#### Interim Tower

#### **Tower Construction Costs**

Section	Question	Response
Construct New Tower	Use	Interim
	Description of Use	N/A
	Height	1600.00 feet
	Justification for New Tower	Interim Tower at existing KDFW /WFAA Site.

#### Interim Tower

# **Tower Rigging Costs**

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

#### Interim Tower

#### **Other Tower Expenses Not Listed**

Information not provided.

#### Outside Professional

Section	Question	Response
al Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	350
	Explanation	Project management of transitioning facilities.
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	Yes
	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	Yes
	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	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	Yes
	Number of Days	20
	Justification	On Site RF Engineering Services to supervise installation of equipmen and verify performance of new equipment.

Outside
Outside
Professional Services Expenses Not Listed
Professional Services © ostsided.

# 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	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD  Notification of a Channel Change?	Yes

# Other Expenses

### Other Expenses Not Listed

Name	Description
Prepare FCC Qtrly Reports	Prepare & file quarterly FCC Progress Reports
Lease Modifications	Lease modification for new facilities
Prepare FCC Qtrly Reports	Prepare & file quarterly FCC Progress Reports
Lease Modifications	Lease modification for new facilities

### **Transmitters**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmitter TBD	\$1,159,120.00	\$1,645,088.07		\$0.00	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$1,440,468.07	estimated costs from catalog	\$0.00	N/A
UHF inside RF system including switching	\$147,500.00	\$140,000.00	catalog	N/A	N/A
Other Electrical Service: Electrical installation costs for Interim Transmitter at interim transmitter site.	\$45,120.00	\$45,120.00	Estimated electrical contractor costs for installation of new interim transmitter at interim site. See attached quote as proxy for costs.	N/A	N/A
Other Building Addition Size: 800.0	\$19,500.00	\$19,500.00	Concrete Pad addition for Heat Exchangers.	N/A	N/A
Primary Transmitter DCXP-2	\$763,250.00	\$456,445.00		\$0.00	

Two IOT system (30 kW)	\$356,500.00	\$311,445.00	Retune existing IOT Transmitter See	N/A	N/A
			attached		
			Comark		
			Quote for		
			Paragon		
			Transmitter		
			Retuning.		
Remote Control Wiring	\$0.00	\$0.00	no changes required.	N/A	N/A
Remove	\$7,500.00	\$7,500.00	Remove and	N/A	N/A
Existing	. ,		dispose of		
Equipment			existing		
			mask filter		
			and other		
			components.		
Other	\$7,500.00	\$7,500.00	Estimated	N/A	N/A
Electrical			costs for		
Service:			electrical		
Interlock			contractor to		
wiring and			add new AC		
conduits for			power		
new mask			outlets for		
filter.			mask filter and RF		
(Retune of Comark			system as		
Transmitter).			well as		
Transmittor).			conduits for		
			interlocks		
			and RF		
			Sample		
			cables at		
			main		
			transmitter		
			site as part		
			of retuning		
			Comark		
			transmitter.		
Dual exciter system with change over	\$47,350.00	\$45,000.00	catalog	N/A	N/A
60 kW mask filter	\$89,400.00	\$85,000.00	Catalog Cost.	N/A	N/A

2 IOT Tubes	\$255,000.00	\$0.00	N/A	N/A	N/A
Auxiliary Transmitter TBD	\$129,500.00	\$123,500.00		\$0.00	
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$120,000.00	Catalog	N/A	N/A
Other Electrical Service: Install new aux transmitter electrical contractor	\$3,500.00	\$3,500.00	Electrical contractor to install new Aux Transmitter.	N/A	N/A
Sub-total	\$2,051,870.00	\$2,225,033.07	N/A	\$0.00	N/A
Total for all systems	\$11,638,345.00	\$5,857,584.05	N/A	\$792,745.57	N/A

Actual Information Description	File Name	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	Component Description:  Amount:	Invoice reflects 50% downpayment. \$719,734.00
UHF inside RF system including switching	Information not provided.	
Other Electrical Service: Electrical installation costs for Interim Transmitter at interim transmitter site.	Information not provided.	
Other Building Addition Size: 800.0	Information not provided.	
Two IOT system (30 kW)	Information not provided.	

Remote Control Wiring	Information not provided.
Remove Existing Equipment	Information not provided.
Other Electrical Service: Interlock wiring and conduits for new mask filter. (Retune of Comark Transmitter).	Information not provided.
Dual exciter system with change over	Information not provided.
60 kW mask filter	Information not provided.
2 IOT Tubes	Information not provided.
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	Information not provided.
Other Electrical Service: Install new aux transmitter electrical contractor	Information not provided.

#### **Antennas**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TBD	\$506,040.00	\$1,301,168.38		\$748,477.97	
UHF - High Power Top Mount (200- 1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$1,254,768.38	catalog	\$748,477.97	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	Catalog	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	Catalog	N/A	N/A

Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$13,000.00	catalog	N/A	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$0.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Catalog	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$0.00	N/A	N/A	N/A
Primary Antenna TBD	\$477,630.00	\$454,400.00		\$0.00	
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$13,000.00	Catalog	N/A	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$120,000.00	Catalog	N/A	N/A

New combiner, cost per channel (without antenna)	\$84,200.00	\$80,000.00	Catalog	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	catalog	N/A	N/A
UHF - High Power Top Mount (200- 1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$235,000.00	Catalog	N/A	N/A
Auxiliary Antenna TBD	\$162,740.00	\$160,800.00		\$0.00	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	Catalog	N/A	N/A
Elbow complex, single channel, at antenna input, per 3	\$7,600.00	\$7,400.00	Catalog	N/A	N/A

JHF - High	\$120,000.00	\$120,000.00	Catalog	N/A	N/A
Power,	ψ.20,000.00	ψ·20,000.00	Cost. New	, .	. 4// 1
Side			Aux		
Mount,			Antenna		
pasic slot			for		
antenna,			Licensed		
15 kW			Aux. UHF		
nput,			Side Mount		
directional,,			Antenna 3 1		
norizontally			/8" EIA		
oolarized			Input		
			Connector.		
			Directional		
			Ch. 27		
Side mount brackets for high bower cantennas (if not included in cantenna base cost)  Sweep test of existing	\$23,150.00 \$6,730.00	\$22,000.00 \$6,400.00	Catalog	N/A	N/A
antenna					
Sub-total	\$1,146,410.00	\$1,916,368.38	N/A	\$748,477.97	N/A
Total for all systems	\$11,638,345.00	\$5,857,584.05	N/A	\$792,745.57	N/A

<b>Actual Information</b>		
Description	File Name	

UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	Component Description:	DT CH27 Antenna and Transmission Line Project-30% Payment 30 days ARO (after receipt of order)
	Amount:	\$372,047.46
	Component Description:	DT CH27 Antenna and Transmission Line Project-30% Payment with Order
	Amount:	\$376,430.51
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Combiner output splitting /switching for dual feed lines, if applicable	Information not provided.	
Sweep test of existing antenna	Information not provided.	
New combiner, cost per channel (without antenna)	Information not provided.	
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Combiner output splitting /switching for dual feed lines, if applicable	Information not provided.	

New combiner, cost per channel (without antenna)	Information not provided.
Sweep test of existing antenna	Information not provided.
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	Information not provided.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 15 kW input, directional,, horizontally polarized	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Sweep test of existing antenna	Information not provided.

#### **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
Interim Transmission Line	\$638,400.00	\$0.00		\$0.00	
Rigid Transmission Line - copper, 8 3 /16" broadband	\$638,400.00	\$0.00	Catalog costs for new interim transmitter site transmission line.	N/A	N/A
Primary Transmission Line	\$638,400.00	\$606,400.00		\$0.00	
Rigid Transmission Line - copper, 8 3 /16" broadband	\$638,400.00	\$606,400.00	Catalog	N/A	N/A
Auxiliary Transmission Line	\$150,000.00	\$142,500.00		\$0.00	
Rigid Transmission Line - copper, 3 1 /8" broadband	\$150,000.00	\$142,500.00	Catalog Costs.	N/A	N/A
Sub-total	\$1,426,800.00	\$748,900.00	N/A	\$0.00	N/A
Total for all systems	\$11,638,345.00	\$5,857,584.05	N/A	\$792,745.57	N/A

### Components

Information not provided.

### **Tower Equipment and Rigging Costs**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos Justificatio
Interim Tower	\$5,469,000.00	\$400,000.00		\$0.00	
New tower between 1500' and 2000' without elevator, presumptive soil conditions	\$5,048,000.00	\$0.00	N/A	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	Catalog cost. Interim facility tower services including rigging, mobilization, removal of existing equipment and installation of new interim antenna and transmission line.	N/A	N/A
Auxiliary Tower GTOWER	\$605,300.00	\$244,267.60		\$44,267.60	

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$44,267.60	See attached quote from ERI for tower mapping and tower studies for potential Interim/Aux site. Includes sales tax of \$1,887.60.  Plus additional fee of \$7,500 for supplemental study of the original	\$44,267.60	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$200,000.00	analysis.  Catalog Price - tower rigging and new Aux Antenna Installation at Aux Site.	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$0.00	N/A	N/A	N/A
Primary Tower GTOWER	\$605,300.00	\$0.00		\$0.00	
American Tower Modification Costs	\$0.00	\$0.00	American Tower Estimated costs. See attached spreadsheet from ATC for Main Antenna at Main Site.	N/A	N/A

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$0.00	N/A	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$0.00	N/A	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$0.00	N/A	N/A	N/A
Sub-total	\$6,679,600.00	\$644,267.60	N/A	\$44,267.60	N/A
Total for all systems	\$11,638,345.00	\$5,857,584.05	N/A	\$792,745.57	N/A

Actual Information Description	File Name
New tower between 1500' and 2000' without elevator, presumptive soil conditions	Information not provided.
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.

undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Component Description:  Amount:	Supplemental study required for original analysis. \$7,500.00
	Component Description: Amount:	Structural analysis and report PO 17-0230. \$36,767.60
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	
Minor tower reinforcement /modifications	Information not provided.	
American Tower Modification Costs	Information not provided.	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.	
Minor tower reinforcement /modifications	Information not provided.	

### **Outside Professional Services**

Description Outside Professional Services	Predetermined Cost Estimate \$226,235.00	Estimated Cost \$216,150.00	Estimated Cost Justification	Actual Cost \$0.00	Actual Cost Justification
Additional Field Engineering Service, 20 Days	\$42,400.00	\$42,400.00	20 Days on site RF Engineering Supervision of equipment installation and performance verification.	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	\$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	\$4,210.00	\$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

Total for all systems	\$11,638,345.00	\$5,857,584.05	N/A	\$792,745.57	N/A
Sub-total	\$226,235.00	\$216,150.00	N/A	\$0.00	N/A
Project management of the transition	\$55,300.00	\$52,500.00	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 engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A

Information not provided.

### **Other Expenses**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$107,430.00	\$106,865.00		\$0.00	
Lease Modifications	\$15,000.00	\$15,000.00	N/A	N/A	N/A
Prepare FCC Qtrly Reports	\$23,850.00	\$23,850.00	See attached vendor quote for FCC Progress Reporting.	N/A	N/A
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$1,500.00	\$1,500.00	N/A	N/A	N/A
Equipment Storage	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Non-zoning permits	\$10,000.00	\$10,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A

FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$15,000.00	\$15,000.00	Disposal Costs	N/A	N/A
Equipment Delivery and Handling Charges	\$15,000.00	\$15,000.00	N/A	N/A	N/A
Sub-total	\$107,430.00	\$106,865.00	N/A	\$0.00	N/A
Total for all systems	\$11,638,345.00	\$5,857,584.05	N/A	\$792,745.57	N/A

Information not provided.

### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$11,638,345.00	\$5,857,584.05	\$792,745.57

Reimbursem	envestiatus	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.

#### Angelo Servedio

Vice President Controller

12/07/2018

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. Angelo Servedio Vice President Controller

12/07/2018

#### **Attachments**