

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

70492 Service: DTV Channel: 31 (UHF) Facility Call **KUBE-TV** Sign:

ID:

File 0000028493

Number:

FRN: 0029023009 Date

10/09

Submitted: /2019

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
NRJ TV HOUSTON LICENSE CO., LLC	Robert Andrews 722 S. DENTON TAP ROAD SUITE 130 COPPELL, TX 75019 United States	+1 (972) 947-3391	bob@nrjventures. com	Limited Liability Company

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Ap	pplicant	Address	Phone	Email

The Preparer is same as the reimbursement contact.

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	Replacement in kind on existing tower at existing location. Will purchase new transmitter to replace non re-tunable IOT system currently in place. Interim antenna will be installed to protect from extensive

Transmitters

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

stations

outages required by tower top work on

Primary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	Sigma IOT CD3220P2
	Year	2006
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	47.2 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	42 kW
	Justification for New Transmitter	Current transmitter, no longer supported, not retunable. Comparable IOT unit not available from this vendor. See attachment.

Primary 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	300 kVA
	Rigid Conduit and Wiring	Yes
		1

Size 4 inches			
Other Electrical Service No Description N/A HVAC Service Does the replacement transmitter require HVAC Service? Type N/A Size N/A Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A Is additional field engineering time needed? N/A		Size	4 inches
Description N/A HVAC Service Does the replacement transmitter require HVAC Service? Type 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? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A Is additional field engineering time needed? N/A		Length	200.0 feet
HVAC Service Does the replacement transmitter require HVAC Service? Type N/A Size N/A Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A Is a channel 14 Mask Filer needed? N/A		Other Electrical Service	No
HVAC Service? Type 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? 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		Description	N/A
Size Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Does the Transmitter Building require an addition, modification, other leashold improvement? 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	HVAC Service		No
Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Does the Transmitter Building require an addition, modification, other leashold improvement? 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		Туре	N/A
Transmitter Building Addition/Modification or Leasehold Improvement Size No No No Addition/Modification or Leasehold Improvement 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		Size	N/A
Addition/Modification or Leasehold Improvement 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		Other Size	N/A
Channel 14 Costs Is an RF Consulting Engineer needed? Is a channel 14 Mask Filer needed? N/A Is additional field engineering time needed? N/A	Addition/Modification or	addition, modification, other leashold	No
Is a channel 14 Mask Filer needed? N/A Is additional field engineering time needed? N/A		Size	N/A
Is additional field engineering time needed? N/A	Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
		Is a channel 14 Mask Filer needed?	N/A
Number of Days N/A		Is additional field engineering time needed?	N/A
		Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Misc Small Parts	Miscellaneous parts required during transmitter installation
MFR Site Survey	Required to verify installation conditions for transmitter

Antennas

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

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	ATW30H4- ESCH-41H
Year	2007

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

Model	ATW30HS4- ESCX-31H
Year	2019
Justification for New Antenna	Existing antenna is single channel only, not compatible with new repack channel (31)

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
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

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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	66.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	40.0 kW
	Manufacturer	
	Model	TFU-16WB- R C160
	Year	2018

Justification for New Antenna	Due to the extensive work required at the candelabra level, substantial outages are predicted. Interim antenna at lower level will keep station onair. Purchase of an off-the-shelf broadband antenna was cheaper than custom slotted coax single channel ant

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an 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

Interim Antenna **Other Antenna Cost Not Listed**

Information not provided.

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

Primary Transmission Line

Existing Transmission Line

n Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Туре	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	2100 feet per run

Primary

New Transmission Line

Fransmissio	n 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?	No
		Туре	Rigid
		Diameter	8 3/16 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	2100 feet per run
	Justification for New Transmission Line	Repack channel (31) is prohibited on the 19.5 foot sections that are currently installed.	

Primary Other Transmission Line Expenses Not Listed Transmission Line tion not provided.

Interim

New Transmission Line

Transmission	n Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	6 1/8 inches
		Segment Length	19 ¾ '
		Other Segment Length	
		Number of parallel runs	1
		Length	1700 feet per run
		Justification for New Transmission Line	Required to feed interim antenna due to extensive work requiring extended downtime on candelabra top mount antennas

Interim Other Transmission Line Expenses Not Listed

Transmission loine 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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower	Type of change	Modify Existing
Description	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	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?	No
	Is tower compliant with Rev G?	No
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1064696
Coordinates (NAD83 (Latitude (NAD83)	29° 34' 16.0" N-
North American Datum of 1983))	Longitude (NAD83)	095° 30' 38.0" W-
	Overall Structure Height	1973.07 feet
	Support Structure Height	1842.17 feet
	Ground Elevation Above Mean Sea Level (AMSL)	76.77 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers, LLC
Date Constructed	11/19/2001

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

TH-DT DTV
XB-TV DTV
ΓJ DTV
TH-TV DTV
BE-TV DTV
GB-CD DTV
MD DTV
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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:	Serious 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
Expenses for On-Site Crew	Travel, Lodging, Per Diem for on-site crew
Interim Tower Lease Cost	Expected additional tower lease charges for temporary installation of interim antenna and interim transmission line

Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	160
	Explanation	Extensive co- ordination and on-site supervision required due to the complex nature of the tower project. Estimated at \$100/hr
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	1
	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	1
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional

Other Professional Services Expenses Not Listed

Services Costs	Description
Proj Manager Expenses	Travel, per diem etc expenses for on-site proj mgt

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	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	No
	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 Not Listed

Expenses 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 72	\$1,600,970.00	\$1,476,992.13		\$1,453,973.74	
MFR Site Survey	\$16,370.00	\$16,370.00	Required for proper installation and site planning.	N/A	N/A
Misc Small Parts	\$2,000.00	\$2,000.00	N/A	\$1,662.88	N/A
4" Rigid Conduit and Wiring (Cost per foot)	\$20,200.00	\$11,500.00	N/A	\$10,510.80	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$32,000.00	N/A	\$29,247.44	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$18,600.00	N/A	\$17,000.07	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$12,000.00	N/A	\$11,030.42	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,384,522.13	adjusted June 4, 2019 to match final invoice	\$1,384,522.13	N/A
Sub-total	\$1,600,970.00	\$1,476,992.13	N/A	\$1,453,973.74	N/A

Total for all	\$5,051,792.19	\$4,041,322.35	N/A	\$3,291,056.37	N/A
systems					

Components

Actual Information Description	File Name	
MFR Site Survey	Information not provided.	
Misc Small Parts	Component Description:	Misc small parts and supplies for transmitter installation
	Amount:	\$725.47
	Component Description: Amount:	Small parts for transmitter installation \$917.56
	Component Description:	Mount for GPS antenna
	Amount:	\$19.85
4" Rigid Conduit and Wiring (Cost per foot)	Component Description: Amount:	45% final payment \$4,729.86
	Component Description: Amount:	30% progress payment \$3,153.24
	Component Description: Amount:	25% downpayment \$2,627.70

ransformer 3 phase/480v -	Component Description: Amount:	45% final payment \$13,161.35
	Component Description: Amount:	30% progress payment \$8,774.23
	Component Description: Amount:	25% downpayment \$7,311.86
Switchgear - industrial 800 amp	Component Description: Amount:	25% downpayment \$4,250.02
	Component Description: Amount:	30% progress payment \$5,100.02
	Component Description: Amount:	45% final payment \$7,650.03

Service entrance 3 phase /800 amp/208 volt

Component Description: Power cords for

temporary power to encoders, networking, etc, while main power supply modified for new transmitter

Amount: \$62.63

Component Description: 45% final payment

Amount: \$4,935.52

Component Description: 25% downpayment

Amount: \$2,741.94

Component Description: 30% progress

payment

Amount: \$3,290.33

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW

Component Description: Final Invoice

Primary Transmitter

Amount: \$100,650.02

Component Description: ULXTE-72

Transmitter

Amount: \$453,878.86

Component Description: ULXTE-72

Transmitter

Amount: \$453,878.86

Component Description: ## New

attachment includes cover letter requested by reviewer. ## Final

invoice for materials; installation and freight still to be

billed

Amount: \$376,114.39

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-16WB- R C160	\$325,730.00	\$119,035.00		\$118,884.99	
UHF . Broadband Slot, Side Mount, 16 bay, 40 kW input, directional, horizontally polarized	\$129,500.00	\$14,787.00	Note that the first two invoices for this antenna, totaling \$97,848, were submitted in a different category, so the final expense in this category is actually \$97,848 plus \$14,787 = \$112,635	\$14,787.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,249.99	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$97,848.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$97,848.00	N/A

Primary Antenna ATW30HS4- ESCX-31H	\$338,770.19	\$258,856.52		\$258,706.52	
UHF - High	\$42,540.19	\$42,540.19	The Fund	\$42,540.19	N/A
Power,			Administrator		
Side			requested		
Mount,			we enter the		
basic slot			fourth		
antenna,			invoice for		
1000 kW			this antenna		
input,			in a new line		
directional,,			for "side		
elliptically			mount"		
or circularly			antennas.		
polarized			The first		
			three		
			invoices are		
			all shown		
			under "top		
			mount" so		
			the two lines		
			must be		
			added		
			together to		
			get the total		
			cost of the		
			antenna		
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,250.00	N/A

			nearly \$20,000 of discount would be		
			· ·		
			final cost. Original cost estimate		
or circularly polarized		invoice on 8 /4/2019 to reflect actual			
		***Increased with submission of final			
One station antenna , elliptically			locked because line has been superseded.		
UHF - High Power Top Mount (200- 1000 kW),	\$289,500.00	\$209,916.33	***System Notice: Estimate adjusted and	\$209,916.33	N/A

Components

Description	File Name	
UHF . Broadband Slot, Side Mount, 16 bay, 40 kW input, directional, horizontally polarized	Component Description:	Final payment for interim antenna, including freight
	Amount:	\$14,787.00

Sweep test of existing		
antenna	Component Description:	Sweep Test -
		progress billing
	Amount:	\$3,437.50
	Component Description:	Final Installment
		Interim Antenna
		Sweep
	Amount:	\$1,086.52
	Component Description:	30% deposit.
		Sweep Test -
		Interim Antenna
		/Trans Line
	Amount:	\$1,725.97
UHF - Lower Power Side Mount, One station - 200-		
500 kW, horizontally	Component Description:	Antenna - UHF
polarized	Amount:	\$48,924.00
	Component Description:	Antenna - UHF
	Amount:	\$48,924.00
UHF - High Power, Side		
Mount, basic slot antenna,	Component Description:	Fourth installment
1000 kW input, directional,,		primary antenna
elliptically or circularly	Amount:	\$42,540.19

Sweep test of existing	
antenna	

Component Description: Final Installment -

Antenna Sweep

Amount: \$1,086.13

Component Description: Sweep Test of

antenna. First

invoice

representing 30%

of total

Amount: \$1,726.37

Component Description: Sweep Test -

Progress Billing

Amount: \$3,437.50

UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized

Component Description: New Primary

Antenna. First

invoice,

representing 30%

of cost

Amount: \$68,654.27

Component Description: Primary Antenna -

3rd Progress
Billing (Prior to

Ship)

Amount: \$91,552.06

Component Description: moved to new line

in 399 per request to update model number and change to side

mount

Amount: N/A

Component Description: Primary Antenna

progress billing

Amount: \$49,710.00

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
Interim Transmission Line	\$343,400.00	\$293,000.00		\$271,008.06	
Rigid Transmission Line - copper, 6 1/8"	\$343,400.00	\$293,000.00	N/A	\$271,008.06	N/A
Primary Transmission Line	\$728,700.00	\$569,953.00		\$544,427.98	
Rigid Transmission Line - copper, 8 3 /16"	\$728,700.00	\$569,953.00	N/A	\$544,427.98	N/A
Sub-total	\$1,072,100.00	\$862,953.00	N/A	\$815,436.04	N/A
Total for all systems	\$5,051,792.19	\$4,041,322.35	N/A	\$3,291,056.37	N/A

Components

Actual Information Description	File Name	
Rigid Transmission Line - copper, 6 1/8"	Component Description:	Fourth Invoice Interim Transmission Line. Includes additional parts (hangers, etc.) identified at time of install
	Amount:	\$39,028.15

Component Description: Interim Trans Line

- progress

payment (prior to

ship)

\$93,669.20 Amount:

Component Description: Additional parts to

> convert interim facility operation from pre-repack channel 41 to post-

repack ch 31

Amount: \$6,207.88

Component Description: 30% deposit

Amount: \$78,605.09

Component Description: Interim

> Transmission Line Connectors - 50%

deposit

Amount: \$1,779.90

Component Description: Interim

Transmission Line

Connectors

\$1,779.90 Amount:

Component Description: Rental of lift and

purchase of

nitrogen for interim line commissioning

\$937.72 Amount:

Component Description: Interim

> Transmission Line progress billing

Amount: \$49,000.22 Rigid Transmission Line - copper, 8 3/16"

Component Description: Final custom-cut

connecting pieces
- EIN corrected -

.......

Amount: \$2,019.74

Component Description: Final Installment

Primary Trans Line

Amount: \$76,567.77

Component Description: Primary

transmission line.
First Invoice for 30% of cost

Amount: \$165,957.72

Component Description: Primary Trans Line

Progress Billing \$102,401.73

Component Description: Impedance

Amount:

Transformer and Fine Matcher

Amount: \$4,599.33

Component Description: Primary Trans Line

Progress Billing (prior to ship)

Amount: \$192,881.69

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 GTOWER	\$1,566,000.00	\$1,188,708.00		\$580,268.17	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$724,833.00	10/4/2019: increased by \$207,833 to cover cost of interim antenna and transmission line removal, per ERI quote 20190830- 621, a copy of which is attached	\$523,443.17	N/A
Expenses for On-Site Crew	\$28,300.00	\$28,300.00	Expense for on-site crew for tower, antenna and line work. See attachment.	N/A	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$375,000.00	N/A	(\$3,750.00)	N/A

Sub-total	\$1,566,000.00	\$1,188,708.00	N/A	\$580,268.17	N/A
nterim Tower Lease Cost	\$38,400.00	\$38,400.00	Need to lease space on tower for interim antenna and interim transmission line. Updated 9 /24/2018 per final agreement with American Tower	\$38,400.00	N/A
mapping for an undocumented /poorly documented cower and preparation of documentation necessary for cower load study	\$26,300.00	\$22,175.00	N/A	\$22,175.00	N/A

Components

Actual Information Description	File Name	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description:	"Weather Day" charges for 6 person crew, Feb 5, 2019, installing interim transmission line and antenna
	Amount:	\$3,900.00

Component Description: "Weather Day"

charges for 6 person crew Feb 26, 27 and 28, 2019 installing interim trans line and antenna

Amount: \$11,700.00

Component Description: Refund of 50% of

weather day

charges previously billed on invoice

52861

Amount: (\$5,850.00)

Component Description: "Weather Day"

charges for April 6, 10, 12, 17, 19, 21, 23, 24, 2019 installing primary trans line and antenna

Amount: \$30,550.00

Component Description: Refund of 50% of

weather day

charges previously billed on invoice

53334

Amount: (\$2,925.00)

Component Description: Refund of 50% of

weather day

charges previously billed on invoice

52755

Amount: (\$1,950.00)

Component Description: Refund of 50% of

weather day

charges previously billed on invoice

53236

Amount: (\$15,275.00)

Component Description: Final Installment

Primary Antenna and Trans Line Installation

Amount: \$46,006.91

Component Description: Weather Days May

28 and 29

Amount: \$4,550.00

Component Description: Weather Days May

1, 11, 18, 21, 22.

Amount: \$10,075.00

Component Description: Backhoe rental for

placing gravel and mats in muddy area to support repack tower crew

equipment

Amount: \$3,426.67

Component Description: Crane rental and

labor for extraction of equipment from muddy tower site following

completion of repack work

Amount: \$6,817.50

Component Description: Final 15%

installment installation of interim trans line and antenna

Amount: \$36,130.68

Component Description: Installation of

antenna and transmission line. First invoice for 30% of costs.

Amount: \$73,126.54

Component Description: Interim Antenna

and Trans Line Rigging Costs, 30% Deposit

Amount: \$57,394.17

Component Description: "Weather Day"

charges for May 8 and 10, 2019 installing primary trans line and antenna

Amount: \$5,850.00

Component Description: Installation of

interim antenna and transmission line. Progress

billing.

Amount: \$114,308.15

Component Description: Installation of

primary antenna and transmission line. Progress

billing.

Amount: \$145,607.55

Expenses for On-Site Crew	Information not provided.	
Serious tower reinforcement		
/modifications	Component Description:	Serious Tower
		Reinforcement
		/Modification
	Amount:	\$93,750.00
	Component Description:	Zeroed out and
		entered new
		component
		because this one
		has status
		"Denied" so
		subtotals aren't
		working properly
	Amount:	N/A
	Component Description:	Refund of
		previously
		reimbursed costs
		that were refunded
		by American Tower
	Amount:	(\$97,500.00)
Tower mapping for an		
undocumented/poorly	Component Description:	Tower Structural
documented tower and	,	Engineering
preparation of		Analysis
documentation necessary	Amount:	\$9,775.00
		,
for tower load study		
for tower load study	Component Description:	Tower mapping
for tower load study	Component Description: Amount:	Tower mapping \$12,400.00
for tower load study		· · · · · ·
for tower load study Interim Tower Lease Cost		· · · · · ·
·		· · · · · ·
·	Amount:	\$12,400.00

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	\$101,882.00	\$90,367.70		\$47,238.91	
Proj Manager Expenses	\$10,112.00	\$10,112.00	Weather delays in project in Houston extended construction period 2 months past original schedule, significantly increasing the number of required trips to Houston.	\$10,111.76	N/A
RF Exposure Measurements	\$21,050.00	\$15,000.00	N/A	\$3,750.00	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$1,400.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$500.00	N/A	N/A	N/A

NEPA Section 106	\$6,310.00	\$5,400.00	N/A	N/A	N/A
environmental review, if needed					
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$4,301.00	Required additional STA for interim operation on post-auction channel due to extensive weather delays with primary facility construction	\$4,300.95	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	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	\$223.50	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	\$2,050.00	\$1,750.00	actual invoice from RF Engineering consultant	\$1,750.00	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	\$2,000.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$650.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$298.00	N/A
Project management of the transition	\$25,280.00	\$24,154.70	updated 1/4 /2019 per actual invoices received	\$24,154.70	N/A
Sub-total	\$101,882.00	\$90,367.70	N/A	\$47,238.91	N/A
Total for all systems	\$5,051,792.19	\$4,041,322.35	N/A	\$3,291,056.37	N/A

Components

Actual Information

Description File Name

Proj Manager Expenses

Component Description: Project Manager's

Expense

Amount: \$871.48

Component Description: Trip Expenses for

Proj Mgmt

Amount: \$2,533.09

Component Description: Trip Expenses for

Proj Mgmt

Amount: \$2,382.87

Component Description: Trip Expenses

related to

preparation of initial 399 cost estimates

Amount: \$512.18

Component Description: Project

management - site

survey and meetings

Amount: \$595.51

Component Description: Trip Expenses for

Proj Mgmt

Amount: \$2,202.38

Component Description: Trip expenses for

project

management

Amount: \$587.65

Component Description: Trip expenses for

project

management

Amount: \$426.60

RF Exposure Measurements	Component Description: Amount:	RF Exposure Measurements \$3,750.00
	Component Description: Amount:	Zeroed out per Reimbursement Team instructions N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	
NEPA Section 106 environmental review, if needed	Information not provided.	

Attorney Fees - Prepare and File request for Special Temporary Authorization

Component Description: Interim Facility STA

extension for another 6 months

Amount: \$508.95

Component Description: Interim facility STA

Extension follow-up

Amount: \$44.50

Component Description: Attorney Fees STA

for Interim

Operation on postauction channel

Amount: \$819.50

Component Description: Fees for STA to

change Phase from

2 to 3

Amount: \$1,341.00

Component Description: Attorney fees-

Prepare Special
Temporary
Authorization

Amount: \$759.00

Component Description: Interim Facility STA

Amount: \$828.00

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

Component Description: Attorney Fees

License-to-cover

Amount: \$223.50

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Component Description: Amount:	Prepare engineering portion of STA application for interim facility operation \$1,750.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Prepare Construction Permit Application (Main) \$1,750.00
	Component Description: Amount:	Revise and edit Form 2100 Construction Permit Application \$250.00
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Interference study of repack channel 31 \$650.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Prepare and or review reimbursement form

Component Description: Assistance with

399 preparation

Amount: \$298.00

Project management of the transition

Component Description: Project

management

Amount: \$250.00

Component Description: Project

Management

Amount: \$5,000.00

Component Description: Project

management

Amount: \$625.00

Component Description: Project

management

Amount: \$1,395.00

Component Description: Project

Management

Amount: \$4,654.70

Component Description: Fixed fee charged

by tower landlord for management of

timelines and schedules during

the repack \$9,480.00

Component Description: Professional

Amount:

services

Amount: \$250.00

Component Description: Project

Management

Amount: \$2,500.00

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	\$46,340.00	\$44,410.00		\$16,548.00	
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	Legal Fees for research, and delivery of notices.	\$1,865.00	N/A
Develop and air announcement of upcoming channel change	\$400.00	\$400.00	Cost for outside contractor to create spot. 2 hrs.	N/A	N/A
Equipment Delivery and Handling Charges	\$12,000.00	\$12,000.00	Shipping charge est for antenna, and lines.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$15,000.00	\$15,000.00	Proper disposal of old transmitter, lines and fittings.	\$5,093.00	N/A
Non-zoning permits	\$750.00	\$750.00	N/A	N/A	N/A

FCC Filing Fees - Special	\$195.00	\$790.00	A six month	\$790.00	N/A
Temporary			extension		
Authorization			triggered		
request			an		
1			additional		
			\$200 filing		
			fee. A		
			change		
			from Phase		
			2 to Phase		
			3 due to		
			weather		
			delays		
			required		
			another		
			\$200 filing fee. An		
			STA for		
			interim op		
			on post-		
			auction		
			channel		
			required		
			another		
			\$200 filing		
			fee.		
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	N/A	\$335.00	N/A
FCC Filing	\$1,110.00	\$1,070.00	N/A	N/A	N/A
Fees - Form 2100 minor					
change CP					
application					
DTV Medical Facility Notification	\$11,550.00	\$9,065.00	N/A	\$8,465.00	N/A
Sub-total	\$46,340.00	\$44,410.00	N/A	\$16,548.00	N/A
Total for all systems	\$5,051,792.19	\$4,041,322.35	N/A	\$3,291,056.37	N/A

Actual Information Description	File Name	
MVPD Notification of Channel Change	Component Description: Amount:	Notifications of channel change sent to MVPD's \$1,865.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Delivery and Handling Charges	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	Dumpster costs for disposal of packing materials for the transmitter, antennas, and transmission line \$1,498.00
	Component Description: Amount:	Dumpster costs for disposal of packing materials for the transmitter, antennas, and transmission line \$1,438.00
	Component Description: Amount:	Dumpster costs for disposal of packing materials for the transmitter, antennas, and transmission line \$2,157.00
Non-zoning permits	Information not provided.	

FCC Filing Fees - Special Temporary Authorization request	Component Description:	Interim STA extension filing fee
	Amount:	\$200.00
	Component Description:	Interim STA on post-auction channel
	Amount:	\$200.00
	Component Description:	Legal STA Filing Fee for Phase change from 2 to 3
	Amount:	\$200.00
	Component Description: Amount:	Filing Fees \$190.00
FCC Filing Fees - Form 2100 license to cover application	Component Description:	Licence-to-cover filing fee
	Amount:	\$335.00
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
DTV Medical Facility Notification	O	Nacco
	Component Description:	Notifications to Medical Facilities of Upcoming
	Amount:	Channel Change \$8,465.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,051,792.19	\$4,041,322.35	\$3,291,056.37

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

Section Question Response

Submission of Estimated Expenses Statements

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.

- 1. The Authorized
 Person signing
 below certifies that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

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

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Jeff Hazelrigg CFO

10/09/2019

Section Question Response

Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

- 1. The Authorized
 Person signing
 below certifies and
 represents that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

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

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

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Jeff Hazelrigg CFO

10/09/2019

Attachments