



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **28324** | Service: **DTV** | Call **KTBU** | Channel: **33 (UHF)** |  
ID: | Sign:  
File **000028551**  
Number:  
FRN: **0016584138** | Date **02/22**  
Submitted: **/2021**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	App Type
<b>KHOU-TV, INC.</b>	Denise A. Branson, Sr. Paralegal TEGNA Inc. 8350 BROAD STREET, SUITE 2000 Tysons, VA 22102 United States	+1 (703) 873-6606	dbranson@tegnacom	Co

## 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>Fan Jia</b> <i>Summit Ridge Group, LLC</i>	535 5th Avenue, 4th Floor New York, NY 10017 United States	+1 (212) 433-4804	SBS-Repack@SummitRic.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	KTBU will transition to a temporary side m antenna at the current tower site while the antenna is removed and a new top mount band antenna is installed. KTBU will purch install a new transmitter to operate on cha

**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
	Use	Primary (M
	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	HP60DDF
	Year	2006
	Type	Inductive Tube
	IOT Power Type	Two
	Power Capacity	60 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Primary (M
	Change Type	Purchase
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	THU9-36
	Transmitter Type	Solid Stati
	Solid State Cooling	Liquid Co
	Solid State Power capacity	55 kW
	Justification for New Transmitter	Current IC transmitte combiner re-tuned fr channel 3 see attach justificatio quote.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	2000.0 feet
	Other Electrical Service	No
	Description	N/A

<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling O
	Size	5 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	1500.0 sq
<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**

<b>Name</b>	<b>Description</b>
<b>Ice Shield for HVAC equipment</b>	Ice protection for new outdoor HVAC equip outside the combiner room. The total estim area is 300 sq. ft.
<b>Interim Transmitter Installation</b>	Installation of new transmitter into existing system, tuning, proofing.
<b>New Electrical Sub-Panels</b>	New HVAC electrical sub-panels for new / required for the repack combiner area fed existing 480/208 main panel. This equipm required to provide the existing power to th units.

## 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	Lease Net
	Antenna Use	Primary (M
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	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
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Powe
	Mounting	Top Moun
	Antenna position in stack	Not in Sta
	Polarization	Horizontal
	Type	Broadban
	Number of Stations Supported	2
	Number of Panels	8
	Design power capacity in use	50.0 %
	Lower Limit	638.00 MI
	Upper Limit	722.00 MI
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	
	Model	RD32A-D

Year
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2002
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**Facility ID's and Call Signs of all stations with whom the antenna is shared.**

Facility ID	Call Sign
31870	KYAZ



**Primary  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Primary (M
	Description of Use	N/A
	Change Type	Lease Ne
	Is this a request for upgraded equipment?	Yes
	Ownership	Leased
	Owner	American Corporatic
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
<b>New Antenna Manufacturer and Types</b>	Class	Full Powe
	Mounting	Top Moun
	Antenna position in stack	Not in Sta
	Polarization	Elliptical
	Type	Broadban
	Number of Stations Supported	4
	Number of Panels/Bays	14
	Lower Limit	515.00 MI
	Upper Limit	605.00 MI
	Design power capacity in use	90.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	1000.0 kW
	Manufacturer	
	Model	PEPL42C
Year	2017	

Justification for New Antenna	Current Antenna will not support repair assigned on 3/30/2023.
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**Primary Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	3
	Frequencies of channels supported	Upper and lower frequency
	Frequency	515.0 MHz
	Do you need a combiner output splitter/switcher for dual feed lines?	Yes
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	7 3/16 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary Antenna**

**Other Antenna Cost Not Listed**

Name	Description
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**Combiner Installation**

Combiner installation cost for three (3) (or modules, 2 per channel) constant impedar waveguide modules and three (3) directior modules, for 3 repacked frequency transm

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**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Lease Ne
	Ownership	Leased
	Owner	American Corporatic
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
<b>New Antenna Manufacturer and Type</b>	Class	Full Powe
	Mounting	Side Moun
	Antenna position in stack	Not in Sta
	Polarization	Horizontal
	Type	Broadban
	Number of Stations Supported	2
	Number of Panels/Bays	24
	Lower Limit	470.00 MI
	Upper Limit	692.00 MI
	Design power capacity in use	95.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	60.0 kW
	Manufacturer	
	Model	TFU-24W
Year	2018	

Justification for New Antenna	Interim Antenna required to dismantle top mount remain on new antenna installed.
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**Interim 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?	B
	Feed Line Size	6 1/8 inch
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	No

**Interim Antenna**

**Other Antenna Cost Not Listed**

Name	Description
Interim Antenna Rental	Rental of Interim Antenna



**Transmission  
Line**

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

**Primary  
Transmission  
Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase
	Use	Primary (M
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Waveguid
	Diameter	N/A
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	2200 feet

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

Facility ID	Call Sign
31870	KYAZ



**Primary  
Transmission  
Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (M
	Description of Use	N/A
	Change Type	Purchase
	Is this a request for upgraded equipment?	Yes
	Type	Rigid
	Diameter	7 3/16 inc
	Other Diameter	N/A
	Segment Length	Broadban
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	2100 feet
	Justification for New Transmission Line	Material c two (2) 7- Broadban transmissi three (6) € each line) nitrogen g for pressu control on lines. Two at 2100' e 4200' tota

**Primary  
Transmission  
Line**

**Other Transmission Line Expenses Not Listed**

Name	Description
<b>Internal Transmission Line</b>	Material cost for two (2) 7/316" Transmissi to connect Transmitter and combiner. Two at 200' or 400' total.
<b>New 6.125 ft rigid EHT broadband line installed for interim operation 1,740ft</b>	New 6.125 ft rigid EHT broadband line ins interim operation 1,740ft

**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
<b>Existing Tower Description</b>	Type of change	Modify Ex
	Tower Use	Primary (M
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelab
	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
<b>Existing Tower Structure Registration</b>	Do you have a tower registration number?	Yes
	ASR Number	1059622
<b>Coordinates (NAD83 (North American Datum of 1983))</b>	Latitude (NAD83)	29° 33' 45
	Longitude (NAD83)	095° 30' 3
	Overall Structure Height	1974.06 fe
	Support Structure Height	1844.14 fe
	Ground Elevation Above Mean Sea Level (AMSL)	74.15 feet
	Structure Type	GTOWER Structure Communi Purposes

Tower Owner	American LLC.
Date Constructed	08/30/200

**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
13200	KUVM-CD	DTV
31870	KYAZ	DTV
22204	KRIV	DTV
53847	KXLN-DT	DTV
51569	KTXH	DTV
69531	KZJL	DTV

**Primary  
Tower**

**Tower Modification Costs**

Section	Question	Response
<b>Engineering Study</b>	Please what type of engineering study is required, if any:	Study nee tower with candelabr
<b>Tower Reinforcements</b>	Please select whether tower reinforcements are needed:	Major Reinforce needed

**Primary  
Tower**

**Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	Candelabr
<b>Helicopter Services Required</b>	Are helicopter services required?	No

**Primary  
Tower**

**Other Tower Expenses Not Listed**

<b>Name</b>	<b>Description</b>
<b>One-time Tower Rental</b>	One-time tower rental cost for interim side antenna on the AT tower at Missouri City, with two other broadcasters
<b>Ground and Building - Permit Drawing Packag</b>	Basic drawing package for municipality pe
<b>Construction Project Management -Tower Modifications reinforcements and facilities</b>	(17.5) hours on modification project mana and (42.5) hours for RF installation project management.
<b>Tower Permit Drawing Package</b>	Basic drawing package for municipality pe

**Outside Professional Services Costs**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	135
	Explanation	Project management for the tra broadcast Scheduling management the timelin schedules occurring the replac
<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	2
	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	2
	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
<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**

<b>Name</b>	<b>Description</b>
<b>Migratory Bird Assessment - Permitting</b>	Migratory Bird Assessment / Permitting (if
<b>RF System Test</b>	Testing of the combiner to ensure all one ( frequencies are tuned for optimal patterns
<b>Other Legal Services</b>	Other Legal Services

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**Site Coordination Meeting**

Site coordination meetings with all broadcast contractors and vendors involved with the deliveries and construction. This cost is for and logistics expenses accrued.

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**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	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	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
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<b>Compound Fencing</b>	The removal and installation of existing fence for compound area where the construction and additional equipment is being installed, so fencing will require replacement and reconfiguration once all repack construction is completed.
<b>Grading</b>	Cost of preparation and staging of hoists and equipment on the soft soil area around tower. Due to the heavy weights of the equipment used to perform the antenna gin pole removals and installation, the equipment may sink in some conditions.
<b>Road upgrades to support heavy equipment transportation exclusive to Repack activities</b>	Repairs and upgrades to roadway due to increased traffic and weight loads associated with the repack activities.
<b>Site Security Company during construction for theft prevention and vandalism</b>	Site security for installation and storage of Transmission line and materials for 30 day period. The materials are a high risk of theft due to the material makeup such as copper, brass and aluminum.
<b>Other Costs - Nitrogen Generator</b>	Other Costs - Nitrogen Generator
<b>Site Survey</b>	Complete Site Survey to determine existing site parameters, determine equipment needs, and develop an action plan for repack.

**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	Ac Ju
<b>Primary Transmitter THU9-36 EVO</b>	<b>\$2,057,251.00</b>	<b>\$1,444,708.87</b>		<b>\$1,394,856.77</b>	
10 Ton system	\$38,900.00	\$18,500.00	***System Notice: Estimate adjusted and locked because line has been superseded.***	\$18,500.00	
Switchgear - industrial 800 amp	\$38,200.00	\$6,806.25	N/A	\$6,806.25	
Ice Shield for HVAC equipment	<i>\$6,000.00</i>	\$6,000.00	Ice protection for new outdoor HVAC equipment outside the combiner room. The total estimated area is 300 sq. ft.	\$6,000.00	
Other -- Building Addition Size: 1500.0	<i>\$18,750.00</i>	\$18,750.00	Building space upgrade, converting large suite area to the new repack combiner area, split from a private suite in room 106. 300 Sqft concrete pad for new HVAC	\$18,750.00	
5 Ton system	\$20,250.00	\$2,901.91	N/A	\$2,901.91	
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,280,232.12	N/A	\$1,280,232.12	

New Electrical Sub-Panels	<b>\$1,250.00</b>	\$1,250.00	New HVAC electrical sub-panels for new AC units required for the repack combiner area fed off of the existing 480/208 main panel. This equipment is required to provide the existing power to the HVAC units.	\$937.50
Interim Transmitter Installation	<b>\$68,351.00</b>	\$68,351.00	Cost to route and plumb new transmitter into existing RF system. Once new external line and antenna are complete the transmitter will be re-plumbed into it. This is necessary to make space within the existing transmitter suite.	\$18,811.40
2" Rigid Conduit and Wiring (Cost per foot)	\$52,000.00	\$28,767.59	The total of estimate from ATC and Marsand (\$6,250.00,\$5,000.00 and reimbursed \$18,150.00). Please see Marsand quote 1886.	\$28,767.59
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$13,150.00	See Marsand Quote #1886.	\$13,150.00
<b>Sub-total</b>	\$2,057,251.00	\$1,444,708.87	N/A	\$1,394,856.77
<b>Total for all systems</b>	\$6,485,602.90	\$3,336,393.42	N/A	\$2,789,750.53

## Components

Actual Information Description	File Name
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10 Ton system	<p><b>Component Description:</b> ATC Invoice for 10 system; 2nd 50%</p> <p><b>Amount:</b> \$12,333.34</p> <p><b>Component Description:</b> HVAC cost. KTBU payment to Americ Tower. Invoice #460197771 with F</p> <p><b>Amount:</b> \$6,166.67</p> <p><b>Component Description:</b> Total of line 7 and balance. #4602272</p> <p><b>Amount:</b> \$2,901.91</p> <p><b>Component Description:</b> Second invoice - 5i project. #46020893</p> <p><b>Amount:</b> \$12,333.33</p>
Switchgear - industrial 800 amp	<p><b>Component Description:</b> Switchgear cost. K 25% payment to American Tower. Invoice #460197771 with F</p> <p><b>Amount:</b> \$2,268.75</p> <p><b>Component Description:</b> Second invoice - 5i project. #46020893</p> <p><b>Amount:</b> \$4,537.50</p> <p><b>Component Description:</b> ATC Switchgear Invoice 2nd 50%</p> <p><b>Amount:</b> \$4,537.50</p>

Ice Shield for HVAC equipment	<p><b>Component Description:</b> Second invoice - 5t project. #46020893</p> <p><b>Amount:</b> \$4,000.00</p> <p><b>Component Description:</b> Ice shield for HVAC equipment outside combiner room for sq ft. KTBU 25% payment to American Tower. Invoice #460197771 with F</p> <p><b>Amount:</b> \$2,000.00</p> <p><b>Component Description:</b> ATC Ice Shield Inv 2nd 50%</p> <p><b>Amount:</b> \$4,000.00</p>
Other -- Building Addition Size: 1500.0	<p><b>Component Description:</b> New building for combiner and concrete slabs for HVAC. KTBU 25% payment to American Tower. Invoice #460197771 with F</p> <p><b>Amount:</b> \$6,250.00</p> <p><b>Component Description:</b> ATC Invoice for building addition; 2nd 50%</p> <p><b>Amount:</b> \$12,500.00</p> <p><b>Component Description:</b> Second invoice - 5t project. #46020893</p> <p><b>Amount:</b> \$12,500.00</p>
5 Ton system	<p><b>Component Description:</b> Total of line 7 and 8 balance. #4602272</p> <p><b>Amount:</b> \$2,901.91</p>

UHF - Liquid Cooled Solid State  
Transmitter 52 - 61 kW

**Component Description:** Transmitter cost, 4  
payment. #6962  
**Amount:** \$512,092.85

**Component Description:** Amount represents  
payment of KTBU's  
Marsand, Inc. trans  
work cost.  
**Amount:** \$640,116.06

**Component Description:** Marsand Final 10%  
invoice for transmit  
**Amount:** \$128,023.21

**Component Description:** 2nd 40% payment  
Marsand Transmitt  
**Amount:** \$512,092.85

**Component Description:** Transmitter related  
10% balance. #696  
**Amount:** \$128,023.21

New Electrical Sub-Panels

**Component Description:** ATC Invoice for ele  
panels; 2nd 50%  
**Amount:** \$625.00

**Component Description:** Second invoice - 5  
project. #46020893  
**Amount:** \$625.00

**Component Description:** Electrical sub-pane  
new HVAC. KTBU  
payment to Americ  
Tower. Invoice  
#460197771 with F  
**Amount:** \$312.50

Interim Transmitter Installation

**Component Description:** Interim transmitter configuration, 40% payment. #6962  
**Amount:** \$7,524.56

**Component Description:** Transmitter configuration to route to existing filter. KTBU 50% payment to Marsar Invoice # 6811, PC with quote.  
**Amount:** \$9,405.70

**Component Description:** Interim transmitter configuration, 10% balance. #6981  
**Amount:** \$1,881.14

**Component Description:** Marsar Invoice for 10% of interim transmitter configuration  
**Amount:** \$1,881.14

**Component Description:** 2nd 40% of Marsar Transmitter costs; Interim Transmitter Configuration.  
**Amount:** \$7,524.56

2" Rigid Conduit and Wiring (Cost per foot)

**Component Description:** Line 6, balance. #460227266  
**Amount:** \$930.09

**Component Description:** Rigid conduit and v  
for HVAC. KTBU 2  
payment to Americ  
Tower. Invoice  
#460197771 with F  
**Amount:** \$1,562.50

**Component Description:** Second invoice - 5i  
project. #46020893  
**Amount:** \$3,125.00

**Component Description:** ATC Invoice for rig  
conduit and wiring;  
50%  
**Amount:** \$3,125.00

**Component Description:** 2" rigid conduit and  
wiring, 10% balanc  
#6981  
**Amount:** \$1,000.00

**Component Description:** 2" rigid conduit and  
wiring, 40% payme  
#6962  
**Amount:** \$4,000.00

**Component Description:** Line 6, balance.  
#460227266  
**Amount:** \$930.09

**Component Description:** Electrical service fo  
new main transmitt  
KTBU 50% payme  
Marsand, Inc. Invoi  
#6811, PO #514 w  
quote.  
**Amount:** \$18,150.00



	<p><b>Component Description:</b> Marsand Invoice fo 10% of electrical se</p> <p><b>Amount:</b> \$3,630.00</p> <p><b>Component Description:</b> 2nd 40% of Marsar Transmitter Costs; Electrical Service Expansion.</p> <p><b>Amount:</b> \$4,000.00</p>
<p>Transformer 3 phase/480v - 150 KVA</p>	<p><b>Component Description:</b> Transformer, 10% balance. #6981</p> <p><b>Amount:</b> \$2,630.00</p> <p><b>Component Description:</b> Transformer, 40%.</p> <p><b>Amount:</b> \$10,520.00</p> <p><b>Component Description:</b> Second 40% of Ma for 3 Phase/480v- 150KVA. inv# 6962</p> <p><b>Amount:</b> \$10,520.00</p>

**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 Justification
<b>Interim Antenna TFU-24WB-R C160</b>	<b>\$194,184.96</b>	<b>\$182,834.08</b>		<b>\$99,518.67</b>	
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$7,200.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***Please see attache quotes from ATC	\$7,200.00	
Interim Antenna Rental	<i>\$57,600.00</i>	\$57,600.00	Interim Antenna Rental	\$0.00	
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 60 - 65 kW input, directional,, horizontally polarized	<i>\$106,034.96</i>	\$106,034.96	See attached quotes from ATC. Interim antenna must be purchased so the station may timely transition to its post-auction channel.	\$80,319.55	

Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$11,999.12	N/A	\$11,999.12
<b>Primary Antenna PEPL42C</b>	<b>\$1,333,280.00</b>	<b>\$338,723.62</b>		<b>\$276,673.61</b>
Sweep test of existing antenna	\$6,730.00	\$9,464.48	Please see attached quotes from ATC	\$9,464.48
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	\$1,090,000.00	\$176,026.86	N/A	\$176,026.86
Combiner Installation	<i>\$9,500.00</i>	\$9,500.00	Installation and tuning of combiner modules.	\$6,249.99
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$16,000.00	N/A	\$7,200.00
Combiner output splitting/switching for dual feed lines, if applicable	\$126,000.00	\$50,000.00	N/A	\$0.00
New combiner, cost per channel (without antenna)	\$84,200.00	\$77,732.28	N/A	\$77,732.28
<b>Sub-total</b>	<b>\$1,527,464.96</b>	<b>\$521,557.70</b>	<b>N/A</b>	<b>\$376,192.28</b>
<b>Total for all systems</b>	<b>\$6,485,602.90</b>	<b>\$3,336,393.42</b>	<b>N/A</b>	<b>\$2,789,750.53</b>

## Components

Actual Information Description	File Name
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<p>Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)</p>	<table> <tr> <td data-bbox="842 174 1150 210"><b>Component Description:</b></td> <td data-bbox="1286 174 1501 248">Second invoice - 5 project. #4602089:</td> </tr> <tr> <td data-bbox="842 255 954 291"><b>Amount:</b></td> <td data-bbox="1286 255 1406 291">\$4,800.00</td> </tr> <tr> <td data-bbox="842 394 1150 430"><b>Component Description:</b></td> <td data-bbox="1286 394 1501 468">ATC Invoice for ell complex; 2nd 50%</td> </tr> <tr> <td data-bbox="842 474 954 510"><b>Amount:</b></td> <td data-bbox="1286 474 1406 510">\$4,800.00</td> </tr> <tr> <td data-bbox="842 613 1150 649"><b>Component Description:</b></td> <td data-bbox="1286 613 1501 687">Total of line 2 and balance. #460227:</td> </tr> <tr> <td data-bbox="842 694 954 730"><b>Amount:</b></td> <td data-bbox="1286 694 1422 730">\$11,999.12</td> </tr> <tr> <td data-bbox="842 833 1150 869"><b>Component Description:</b></td> <td data-bbox="1286 833 1501 1021">Interim antenna ell complex cost. KTE 25% payment to American Tower. I #460197771 with I</td> </tr> <tr> <td data-bbox="842 1028 954 1064"><b>Amount:</b></td> <td data-bbox="1286 1028 1406 1064">\$2,400.00</td> </tr> </table>	<b>Component Description:</b>	Second invoice - 5 project. #4602089:	<b>Amount:</b>	\$4,800.00	<b>Component Description:</b>	ATC Invoice for ell complex; 2nd 50%	<b>Amount:</b>	\$4,800.00	<b>Component Description:</b>	Total of line 2 and balance. #460227:	<b>Amount:</b>	\$11,999.12	<b>Component Description:</b>	Interim antenna ell complex cost. KTE 25% payment to American Tower. I #460197771 with I	<b>Amount:</b>	\$2,400.00
<b>Component Description:</b>	Second invoice - 5 project. #4602089:																
<b>Amount:</b>	\$4,800.00																
<b>Component Description:</b>	ATC Invoice for ell complex; 2nd 50%																
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<b>Component Description:</b>	Total of line 2 and balance. #460227:																
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<b>Component Description:</b>	Interim antenna ell complex cost. KTE 25% payment to American Tower. I #460197771 with I																
<b>Amount:</b>	\$2,400.00																
<p>Interim Antenna Rental</p>	<p>Information not provided.</p>																

<p>UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 60 - 65 kW input, directional,, horizontally polarized</p>	<table border="0"> <tr> <td data-bbox="828 91 1244 246"><b>Component Description:</b></td> <td data-bbox="1244 91 1514 246">Line 1, balance. #460227266</td> </tr> <tr> <td data-bbox="828 246 1244 380"><b>Amount:</b></td> <td data-bbox="1244 246 1514 380">\$28,569.55</td> </tr> <tr> <td data-bbox="828 380 1244 537"><b>Component Description:</b></td> <td data-bbox="1244 380 1514 537">Interim antenna cc KTBU 25% payme American Tower. I #460197771 with I</td> </tr> <tr> <td data-bbox="828 537 1244 672"><b>Amount:</b></td> <td data-bbox="1244 537 1514 672">\$17,250.00</td> </tr> <tr> <td data-bbox="828 672 1244 828"><b>Component Description:</b></td> <td data-bbox="1244 672 1514 828">ATC Invoice for 24 60kw antenna; 2nc</td> </tr> <tr> <td data-bbox="828 828 1244 963"><b>Amount:</b></td> <td data-bbox="1244 828 1514 963">\$34,500.00</td> </tr> <tr> <td data-bbox="828 963 1244 1120"><b>Component Description:</b></td> <td data-bbox="1244 963 1514 1120">Total of line 1 and balance. #460227:</td> </tr> <tr> <td data-bbox="828 1120 1244 1254"><b>Amount:</b></td> <td data-bbox="1244 1120 1514 1254">\$54,284.96</td> </tr> <tr> <td data-bbox="828 1254 1244 1411"><b>Component Description:</b></td> <td data-bbox="1244 1254 1514 1411">Second invoice - 5 project. #4602089:</td> </tr> <tr> <td data-bbox="828 1411 1244 1550"><b>Amount:</b></td> <td data-bbox="1244 1411 1514 1550">\$34,500.00</td> </tr> </table>	<b>Component Description:</b>	Line 1, balance. #460227266	<b>Amount:</b>	\$28,569.55	<b>Component Description:</b>	Interim antenna cc KTBU 25% payme American Tower. I #460197771 with I	<b>Amount:</b>	\$17,250.00	<b>Component Description:</b>	ATC Invoice for 24 60kw antenna; 2nc	<b>Amount:</b>	\$34,500.00	<b>Component Description:</b>	Total of line 1 and balance. #460227:	<b>Amount:</b>	\$54,284.96	<b>Component Description:</b>	Second invoice - 5 project. #4602089:	<b>Amount:</b>	\$34,500.00
<b>Component Description:</b>	Line 1, balance. #460227266																				
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<b>Component Description:</b>	Second invoice - 5 project. #4602089:																				
<b>Amount:</b>	\$34,500.00																				
<p>Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)</p>	<table border="0"> <tr> <td data-bbox="828 1301 1244 1456"><b>Component Description:</b></td> <td data-bbox="1244 1301 1514 1456">Total of line 2 and balance. #460227:</td> </tr> <tr> <td data-bbox="828 1456 1244 1550"><b>Amount:</b></td> <td data-bbox="1244 1456 1514 1550">\$11,999.12</td> </tr> </table>	<b>Component Description:</b>	Total of line 2 and balance. #460227:	<b>Amount:</b>	\$11,999.12																
<b>Component Description:</b>	Total of line 2 and balance. #460227:																				
<b>Amount:</b>	\$11,999.12																				

Sweep test of existing antenna

**Component Description:** Second invoice - 5 project. #4602089:  
**Amount:** \$3,333.33

**Component Description:** Antenna and transmission line s test cost. KTBU 2E payment to Americ Tower. Invoice #460197771 with I  
**Amount:** \$1,666.67

**Component Description:** ATC Invoice for Sv testing of existing antenna; 2nd 50%  
**Amount:** \$3,333.34

**Component Description:** Total of line 12 and balance. #460227:  
**Amount:** \$4,464.48

**Component Description:** Total of line 12 and balance. #460227:  
**Amount:** \$4,464.48

UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized

**Component Description:** Second invoice - 5 project. #4602089:  
**Amount:** \$74,960.00

**Component Description:** ATC Invoice for Antenna; 2nd 50%  
**Amount:** \$74,960.00

**Component Description:** Line item 10, balar #460227266  
**Amount:** \$63,586.86

**Component Description:** Line item 10, balar #460227266  
**Amount:** \$63,586.86

**Component Description:** KBTU share of new antenna cost, share with four stations. . payment to American Tower. Invoice #460197771 with I  
**Amount:** \$37,480.00

Combiner Installation	<p><b>Component Description:</b> Second invoice - 5 project. #4602089:</p> <p><b>Amount:</b> \$4,166.66</p> <p><b>Component Description:</b> Combiner installati cost. KTBU 25% payment to Americ Tower. Invoice #460197771 with I</p> <p><b>Amount:</b> \$2,083.33</p> <p><b>Component Description:</b> ATC Invoice for Combiner installati 2nd 50%</p> <p><b>Amount:</b> \$4,166.67</p>
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	<p><b>Component Description:</b> Elbow complex co KTBU 25% payme American Tower. I #460197771 with I</p> <p><b>Amount:</b> \$2,400.00</p> <p><b>Component Description:</b> Second invoice - 5 project. #4602089:</p> <p><b>Amount:</b> \$4,800.00</p> <p><b>Component Description:</b> ATC Invoice for EI Complex; 2nd 50%</p> <p><b>Amount:</b> \$4,800.00</p>
Combiner output splitting/switching for dual feed lines, if applicable	Information not provided.



New combiner, cost per channel  
(without antenna)

**Component Description:** ATC Invoice for Ne  
Combiner costs; 2  
50%  
**Amount:** \$27,000.00

**Component Description:** Total of line 11 and  
balance. #460227:  
**Amount:** \$37,232.28

**Component Description:** Combiner cost for  
25% payment to  
American Tower. I  
#460197771 with I  
**Amount:** \$13,500.00

**Component Description:** Second invoice - 5  
project. #4602089:  
**Amount:** \$27,000.00

**Component Description:** Total of line 11 and  
balance. #460227:  
**Amount:** \$37,232.28

**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 Justification
<b>Primary Transmission Line</b>	<b>\$1,620,010.17</b>	<b>\$679,989.70</b>		<b>\$500,956.96</b>	
Internal Transmission Line	<i>\$126,800.00</i>	\$126,800.00	Internal transmission line from transmitter room to combiner room. \$317 per foot at 400 feet.	\$42,377.43	
New 6.125 ft rigid EHT broadband line installed for interim operation 1,740ft	<i>\$94,610.17</i>	\$94,610.17	N/A	\$94,610.17	
Rigid Transmission Line - copper, 7 3/16" broadband	\$1,398,600.00	\$458,579.53	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$363,969.36	
<b>Sub-total</b>	<b>\$1,620,010.17</b>	<b>\$679,989.70</b>	N/A	<b>\$500,956.96</b>	
<b>Total for all systems</b>	<b>\$6,485,602.90</b>	<b>\$3,336,393.42</b>	N/A	<b>\$2,789,750.53</b>	

**Components**

Actual Information Description	File Name
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Internal Transmission Line	<p><b>Component Description:</b> Internal transmissi run to combiner wi sweep. KTBU 50% payment to Marsa Inc. Invoice #6811, #514 with quote.</p> <p><b>Amount:</b> \$23,543.02</p> <p><b>Component Description:</b> 2nd 40% of Marsa Transmitter Costs; Transmission Line</p> <p><b>Amount:</b> \$18,834.41</p> <p><b>Component Description:</b> Transmission line i shared combiner r 40% payment. #69</p> <p><b>Amount:</b> \$18,834.41</p>
New 6.125 ft rigid EHT broadband line installed for interim operation 1,740ft	<p><b>Component Description:</b> Line 3, balance. #460227266</p> <p><b>Amount:</b> \$94,610.17</p>

Rigid Transmission Line - copper, 7  
3/16" broadband

**Component Description:** Total of line 3 and  
balance. #4602272  
**Amount:** \$244,379.53

**Component Description:** ATC Invoice for  
Transmission line;  
50%  
**Amount:** \$142,800.00

**Component Description:** Transmission line c  
KTBU 25% payme  
American Tower. Ii  
#460197771 with F  
**Amount:** \$71,400.00

**Component Description:** Line 15, balance.  
#460227266  
**Amount:** \$149,769.36

**Component Description:** Second invoice - 5  
project. #4602089:  
**Amount:** \$142,800.00

**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 Justification
<b>Primary Tower GTOWER</b>	<b>\$948,415.41</b>	<b>\$382,527.51</b>		<b>\$377,702.51</b>	
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$13,204.21	N/A	\$13,204.21	
Tower Permit Drawing Package	<i>\$5,000.00</i>	\$5,000.00	Basic drawing package for municipality permitting.	\$3,525.00	
Ground and Building - Permit Drawing Packag	<i>\$5,000.00</i>	\$5,000.00	Basic drawing package for municipality permitting.	\$3,525.00	
Construction Project Management - Tower Modifications reinforcements and facilities	<i>\$7,500.00</i>	\$7,500.00	(17.5) hours on modification project management and (42.5) hours for RF installation project management. 60 Hrs x \$125hr	\$5,625.00	
Major tower reinforcement /modifications	\$421,000.00	\$85,464.56	N/A	\$85,464.56	
One-time Tower Rental	<i>\$68,915.41</i>	\$68,915.41	N/A	\$68,915.41	

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$197,443.33	N/A	\$197,443.33
<b>Sub-total</b>	\$948,415.41	\$382,527.51	N/A	\$377,702.51
<b>Total for all systems</b>	\$6,485,602.90	\$3,336,393.42	N/A	\$2,789,750.53

### Components

Actual Information	Description	File Name
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Structural engineering tower load study for a documented tower with candelabra

**Component Description:** ATC Invoice for Tow Load Study; 2nd 50%  
**Amount:** \$2,443.75

**Component Description:** Second invoice - 50% project. #46020893  
**Amount:** \$5,543.75

**Component Description:** Structural engineering study cost. KTBU 25% payment to American Tower. Invoice #460197771 with P  
**Amount:** \$1,221.87

**Component Description:** Total of line 16 and balance. #4602272  
**Amount:** \$4,888.59

**Component Description:** Total of line 16 and balance. #4602272  
**Amount:** \$4,888.59

**Component Description:** Tower mapping cost KTBU 25% payment American Tower. Invoice #460197771 with P  
**Amount:** \$1,550.00

**Component Description:** ATC Invoice for tower mapping; 2nd 50%  
**Amount:** \$3,100.00

Tower Permit Drawing Package	<p><b>Component Description:</b> Tower permit drawing package cost. KTBU payment to American Tower. Invoice #460197771 with P</p> <p><b>Amount:</b> \$1,175.00</p> <p><b>Component Description:</b> ATC Invoice for tower permit drawings; 2nd</p> <p><b>Amount:</b> \$2,350.00</p> <p><b>Component Description:</b> Second invoice - 50 project. #46020893</p> <p><b>Amount:</b> \$2,350.00</p>
Ground and Building - Permit Drawing Package	<p><b>Component Description:</b> Second invoice - 50 project. #46020893</p> <p><b>Amount:</b> \$2,350.00</p> <p><b>Component Description:</b> ATC Invoice for Ground and Building Permit Drawings; 2nd 50%</p> <p><b>Amount:</b> \$2,350.00</p> <p><b>Component Description:</b> Ground &amp; building permit drawing package cost KTBU 25% payment American Tower. Invoice #460197771 with P</p> <p><b>Amount:</b> \$1,175.00</p>



Construction Project Management -  
Tower Modifications  
reinforcements and facilities

**Component Description:**

Second invoice - 50  
project. #46020893!

**Amount:**

\$3,750.00

**Component Description:**

ATC Invoice for  
Construction Project  
Management; 2nd 5

**Amount:**

\$3,750.00

**Component Description:**

Construction project  
management cost. I  
25% payment to Arr  
Tower. Invoice  
#460197771 with P!

**Amount:**

\$1,875.00

Major tower reinforcement  
/modifications

**Component Description:** Line 18, balance.  
#460227266  
**Amount:** \$17,964.32

**Component Description:** Major tower  
reinforcements cost  
interim facility equip  
KTBU 25% paymen  
American Tower. In  
#460197771 with Pt  
**Amount:** \$7,500.08

**Component Description:** Line 18, balance.  
#460227266  
**Amount:** \$17,964.32

**Component Description:** ATC Invoice for Maj  
Tower Reinforceme  
2nd 50%  
**Amount:** \$15,000.16

**Component Description:** ATC Invoice for Maj  
Reinforcements; 2n  
**Amount:** \$30,000.00

**Component Description:** Second invoice - 50  
project. #46020893!  
**Amount:** \$45,000.16

**Component Description:** Major tower  
reinforcements cost  
primary facility equip  
KTBU 25% paymen  
American Tower. In  
#460197771 with Pt  
**Amount:** \$15,000.00

<p>One-time Tower Rental</p>	<p><b>Component Description:</b> ATC One-time tower rental during market repack period; 2nd invoice</p> <p><b>Amount:</b> \$28,800.00</p> <p><b>Component Description:</b> Line 5, balance. #460227266</p> <p><b>Amount:</b> \$25,715.41</p> <p><b>Component Description:</b> Second invoice - 50 project. #46020893</p> <p><b>Amount:</b> \$28,800.00</p> <p><b>Component Description:</b> KBTU portion of rental American Tower Miami City site for the inter antenna location, shared with two other repack broadcasters. 25% payment to American Tower. Invoice #460197771 with Payment</p> <p><b>Amount:</b> \$14,400.00</p>
<p>Complex Tower (includes, for example, those with candelabras and/or stacked antennas)</p>	<p><b>Component Description:</b> Total of line 4 and 1 balance. #460227266</p> <p><b>Amount:</b> \$122,443.33</p> <p><b>Component Description:</b> Second invoice - 50 project. #46020893</p> <p><b>Amount:</b> \$50,000.00</p> <p><b>Component Description:</b> Total of line 4 and 1 balance. #460227266</p> <p><b>Amount:</b> \$122,443.33</p>

**Component Description:** ATC invoice for Cor Tower costs; 2nd 50%  
**Amount:** \$30,000.00

**Component Description:** Complex tower installation and rigging for existing interim antenna and transmission line reinstallation of new interim antenna and line, as well as labor and material costs. KTBU 25% payment to American Tower. Invoice #460197771 with PO  
**Amount:** \$10,000.00

**Component Description:** ATC Invoice for Cor tower (Includes, e.g towers with cantelera and/or stacked antenna 2nd 50%  
**Amount:** \$20,000.00

**Component Description:** Complex tower installation and rigging for existing primary antenna and transmission line reinstallation of new primary antenna and line, as well as labor and material costs. 25% payment to American Tower. Invoice #460197771 with PO  
**Amount:** \$15,000.00

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**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 Justification
<b>Outside Professional Services</b>	<b>\$194,924.00</b>	<b>\$172,072.28</b>		<b>\$43,312.91</b>	
Other Legal Services	<i>\$1,674.00</i>	\$1,674.00	Other Legal Services related to the station's transition to it's post-Repack channel	\$1,674.00	
Site Coordination Meeting	<i>\$10,000.00</i>	\$10,000.00	Travel and logistical expenses for planning, construction, and installation.	\$937.50	
RF System Test	<i>\$5,000.00</i>	\$5,000.00	Testing of the combiner to ensure all frequencies are tuned for optimal patterns.	\$3,750.00	
Migratory Bird Assessment - Permitting	<i>\$500.00</i>	\$500.00	Study to prove no disruption to migratory birds for permitting.	\$328.13	
RF Exposure Measurements	\$21,050.00	\$5,000.00	N/A	\$2,812.50	

Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	\$0.00
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	\$125.00
NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,000.00	N/A	\$1,012.50
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$1,875.00
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	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
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	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

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,650.00
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$8,592.24	Please see attached quotes from ATC	\$8,592.24
Project management of the transition	\$21,330.00	\$20,556.04	N/A	\$20,556.04
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	\$0.00
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$0.00
<b>Sub-total</b>	\$194,924.00	\$172,072.28	N/A	\$43,312.91
<b>Total for all systems</b>	\$6,485,602.90	\$3,336,393.42	N/A	\$2,789,750.53

## Components

Actual Information Description	File Name
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Other Legal Services	<p><b>Component Description:</b> Lerman 484641 v210222jgv1</p> <p><b>Amount:</b> \$207.00</p> <p><b>Component Description:</b> Lerman 483755 v210222jgv1</p> <p><b>Amount:</b> \$855.00</p> <p><b>Component Description:</b> Lerman 484150 v210222jgv1</p> <p><b>Amount:</b> \$360.00</p> <p><b>Component Description:</b> Lerman 480645 v210222jgv1</p> <p><b>Amount:</b> \$252.00</p>
Site Coordination Meeting	<p><b>Component Description:</b> ATC Invoice for site coordination meetin 50%</p> <p><b>Amount:</b> \$625.00</p> <p><b>Component Description:</b> Second invoice - 5C project. #46020893</p> <p><b>Amount:</b> \$625.00</p> <p><b>Component Description:</b> Site coordination meetings cost. KBT 25% payment to American Tower. In #460197771 with P</p> <p><b>Amount:</b> \$312.50</p>



RF System Test	<p><b>Component Description:</b> RF system testing c KTBU 25% paymer American Tower. In #460197771 with P</p> <p><b>Amount:</b> \$1,250.00</p> <p><b>Component Description:</b> Second invoice - 5C project. #46020893</p> <p><b>Amount:</b> \$2,500.00</p> <p><b>Component Description:</b> ATC Invoice for RF system test; 2nd 50</p> <p><b>Amount:</b> \$2,500.00</p>
Migratory Bird Assessment - Permitting	<p><b>Component Description:</b> Second invoice - 5C project. #46020893</p> <p><b>Amount:</b> \$218.75</p> <p><b>Component Description:</b> Migratory bird assessment cost. K 25% payment to American Tower. In #460197771 with P</p> <p><b>Amount:</b> \$109.38</p> <p><b>Component Description:</b> ATC Invoice for Mig Bird Assessment; 2 50%</p> <p><b>Amount:</b> \$218.75</p>

RF Exposure Measurements	<p><b>Component Description:</b> ATC Invoice for RF Exposure Measurement 2nd 50%</p> <p><b>Amount:</b> \$1,875.00</p> <p><b>Component Description:</b> RF exposure mapping cost. KTBU 25% paid to American Tower. Invoice #46019777 PO.</p> <p><b>Amount:</b> \$937.50</p> <p><b>Component Description:</b> Second invoice - 50 project. #46020893</p> <p><b>Amount:</b> \$1,875.00</p>
Comprehensive coverage verification via field study, if needed	Information not provided.
ASR modification (prepare FCC Form 854)	<p><b>Component Description:</b> ASR modification cost KTBU 25% paid to American Tower. Invoice #460197771 with PO.</p> <p><b>Amount:</b> \$41.67</p> <p><b>Component Description:</b> Second invoice - 50 project. #46020893</p> <p><b>Amount:</b> \$83.33</p> <p><b>Component Description:</b> ATC Invoice for ASR modification; 2nd 50%</p> <p><b>Amount:</b> \$83.33</p>

<p>NEPA Section 106 environmental review, if needed</p>	<p><b>Component Description:</b> NEPA environment: review cost. KTBU : payment to American Tower. Invoice #460197771 with P</p> <p><b>Amount:</b> \$337.50</p> <p><b>Component Description:</b> ATC invoice for NE Review; 2nd 50%</p> <p><b>Amount:</b> \$675.00</p> <p><b>Component Description:</b> Second invoice - 5C project. #46020893</p> <p><b>Amount:</b> \$675.00</p>
<p>Attorney Fees - Prepare and File request for Special Temporary Authorization</p>	<p>Information not provided.</p>
<p>Attorney Fees - Negotiation of lease and other matters for shared locations</p>	<p>Information not provided.</p>
<p>Address transition timing and coordination issues w/ other stations and wireless</p>	<p><b>Component Description:</b> ATC Invoice Address transition and coordination issues</p> <p><b>Amount:</b> 50% \$1,250.00</p> <p><b>Component Description:</b> Second invoice - 5C project. #46020893</p> <p><b>Amount:</b> \$1,250.00</p> <p><b>Component Description:</b> Coordination for reconstruction cost. K 25% payment to American Tower. In</p> <p><b>Amount:</b> #460197771 with P \$625.00</p>

Prepare request for Special Temporary Authorization	Information not provided.				
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.				
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.				
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.				
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<table> <tr> <td><b>Component Description:</b></td> <td>Consulting enginee cost. #862-42-0007</td> </tr> <tr> <td><b>Amount:</b></td> <td>\$1,650.00</td> </tr> </table>	<b>Component Description:</b>	Consulting enginee cost. #862-42-0007	<b>Amount:</b>	\$1,650.00
<b>Component Description:</b>	Consulting enginee cost. #862-42-0007				
<b>Amount:</b>	\$1,650.00				

Perform engineering study for new channel assignment and antenna development

**Component Description:** Second invoice - 5C project. #46020893  
**Amount:** \$2,500.00

**Component Description:** Consulting enginee cost. #862-42-0007  
**Amount:** \$2,610.00

**Component Description:** ATC Invoice for Engineering Study; 50%  
**Amount:** \$2,500.00

**Component Description:** Engineering study c KTBU 25% paymer American Tower. In #460197771 with P  
**Amount:** \$1,250.00

**Component Description:** Line 24, balance. #460227266  
**Amount:** \$2,232.24

**Component Description:** Line 24, balance. #460227266  
**Amount:** \$2,232.24

Project management of the transition

**Component Description:** Project managemer #137  
**Amount:** \$1,753.33

**Component Description:** American Tower pr management cost. | 25% payment to American Tower. In #460197771 with P  
**Amount:** \$2,370.00

**Component Description:** ATC Invoice for Tra  
Project Managemer  
50%  
**Amount:** \$4,740.00

**Component Description:** Project managemer  
#172  
**Amount:** \$760.00

**Component Description:** Total of line 22 and  
balance. #4602272  
**Amount:** \$7,952.71

**Component Description:** Project managemer  
#180  
**Amount:** \$740.00

**Component Description:** Project managemer  
#144  
**Amount:** \$580.00

**Component Description:** Project managemer  
#185  
**Amount:** \$600.00

**Component Description:** Total of line 22 and  
balance. #4602272  
**Amount:** \$7,952.71

**Component Description:** Project managemer  
#117  
**Amount:** \$840.00

**Component Description:** Project managemer  
#157  
**Amount:** \$220.00

	<p><b>Component Description:</b> Second invoice - 5C project. #46020893</p> <p><b>Amount:</b> \$4,740.00</p>
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
Prepare and or review reimbursement form	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
<b>Other Expenses</b>	<b>\$137,537.36</b>	<b>\$135,537.36</b>	
Site Survey	<i>\$5,000.00</i>	\$5,000.00	Site Survey to determine repack action plan.
Other Costs - Nitrogen Generator	<i>\$20,696.13</i>	\$20,696.13	Total of line 8, 20, 27 and 28 in the breakdown page.
Site Security Company during construction for theft prevention and vandalism	<i>\$6,000.00</i>	\$6,000.00	Site security for installation and storage of Transmission line and materials for 30 days X 12 hours. The materials are a high risk of theft due to the material makeup such as copper, brass and aluminum.
Grading	<i>\$2,000.00</i>	\$2,000.00	Estimated costs to address soil conditions at base of tower. Costs to grade and repair soil disturbed by heavy machinery and equipment.
Compound Fencing	<i>\$2,000.00</i>	\$2,000.00	Compound fencing must be removed for repack work and then reinstalled once completed.
MVPD Notification of Channel Change	<i>\$1,265.00</i>	\$1,265.00	See KTBU_DTVNotification_INV001964_PO722
Develop and air announcement of upcoming channel change	<i>\$5,000.00</i>	\$5,000.00	Estimated cost for creation of announcement and air-time required.
Equipment Storage	<i>\$6,000.00</i>	\$6,000.00	Rental of a storage unit for \$500/month for 1 year to receive transmitter equipment



Equipment Delivery and Handling Charges	<i>\$10,000.00</i>	\$10,000.00	Additional shipping and delivery charges for larger items.
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$60,000.00</i>	\$60,000.00	Estimated costs for removal and disposal of old transmitter, line, and RF sections.
Non-zoning permits	<i>\$2,386.23</i>	\$2,386.23	Please see attached quotes from ATC. Local permit cost for representation change for permit/application.
Local Zoning	<i>\$1,500.00</i>	\$1,500.00	Estimate for local zoning costs
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$0.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$0.00	N/A
Road upgrades to support heavy equipment transportation exclusive to Repack activities	<i>\$2,500.00</i>	\$2,500.00	The cost associated damage to the access road/driveway caused by trenching (i.e. electrical and foundation installations) and equipment mobilization (i.e. excessive weighted and constant traffic that doesn't normally occur) associated with the repack.
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A
<b>Sub-total</b>	\$137,537.36	\$135,537.36	N/A

<b>Total for all systems</b>	\$6,485,602.90	\$3,336,393.42	N/A
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## Components

Actual Information Description	File Name
Site Survey	<b>Component Description:</b> 2nd 50% of Marsand Transmitter Cos site survey. <b>Amount:</b> \$2,303.85
	<b>Component Description:</b> Site survey 50% balance. #6962 <b>Amount:</b> \$2,303.85
	<b>Component Description:</b> Site survey for KTBU repack; 50% pa to Marsand, Inc. Invoice # 6811, PO # with quote. <b>Amount:</b> \$2,303.85
	<b>Component Description:</b> Total of line 8, 20, 27 and 28, balance #460227266 <b>Amount:</b> \$20,696.13
	<b>Component Description:</b> Total of line 8, 20, 27 and 28, balance #460227266 <b>Amount:</b> \$20,696.13
	<b>Component Description:</b> Total of line 8, 20, 27 and 28, balance #460227266 <b>Amount:</b> \$20,696.13
Other Costs - Nitrogen Generator	

<p>Site Security Company during construction for theft prevention and vandalism</p>	<p><b>Component Description:</b> Second invoice - 50% of project. #460208939</p> <p><b>Amount:</b> \$3,000.00</p> <p><b>Component Description:</b> Site security cost to avoid loss of valu construction materials. KTBU 25% pa to American Tower. Invoice #4601977 with PO.</p> <p><b>Amount:</b> \$1,500.00</p> <p><b>Component Description:</b> ATC Invoice for site security; 2nd 50%</p> <p><b>Amount:</b> \$3,000.00</p>
<p>Grading</p>	<p><b>Component Description:</b> Grading and soil preparation cost. KT 25% payment to American Tower. Inv #460197771 with PO.</p> <p><b>Amount:</b> \$250.00</p> <p><b>Component Description:</b> ATC Invoice for Grading; 2nd 50%</p> <p><b>Amount:</b> \$500.00</p> <p><b>Component Description:</b> Second invoice - 50% of project. #460208939</p> <p><b>Amount:</b> \$500.00</p>

Compound Fencing	<p><b>Component Description:</b> Second invoice - 50% of project. #460208939</p> <p><b>Amount:</b> \$937.50</p> <p><b>Component Description:</b> ATC Invoice for compound fencing; 21</p> <p><b>Amount:</b> \$937.50</p> <p><b>Component Description:</b> Fencing removal and installation costs; KTBU 25% payment to American Tow Invoice #460197771 with PO.</p> <p><b>Amount:</b> \$468.75</p>
MVPD Notification of Channel Change	<p><b>Component Description:</b> KTBU_DTVNotification_INV001964_F Other, MVPD</p> <p><b>Amount:</b> \$1,265.00</p>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	<p><b>Component Description:</b> ATC Invoice for Equipment Delivery and Handling; 2nd 50%</p> <p><b>Amount:</b> \$1,666.67</p> <p><b>Component Description:</b> Second invoice - 50% of project. #460208939</p> <p><b>Amount:</b> \$1,666.66</p> <p><b>Component Description:</b> Equipment delivery and handling cost; KTBU 25% payment to American Tow Invoice #460197771 with PO.</p> <p><b>Amount:</b> \$833.33</p>

Disposal Costs  
(for equipment  
and other waste,  
net of any  
salvage value)

<b>Component Description:</b>	Disposal cost, 10% balance. #6981
<b>Amount:</b>	\$3,517.30
<b>Component Description:</b>	2nd 40% of Marsand Transmitter Cos Equipment Disposal
<b>Amount:</b>	\$14,069.20
<b>Component Description:</b>	Equipment disposal - RF system, cab cooling, electrical. KBTU 50% payment Marsand, Inc. Invoice #6811, PO #51. quote.
<b>Amount:</b>	\$17,586.50
<b>Component Description:</b>	Marsand Invoice for last 10% of equip disposal
<b>Amount:</b>	\$3,517.30
<b>Component Description:</b>	Equipment disposal - remaining RF sy components. KBTU 50% payment to Marsand, Inc. Invoice #6811, PO #51. quote.
<b>Amount:</b>	\$7,123.50
<b>Component Description:</b>	Disposal cost, 40% payment. #6962
<b>Amount:</b>	\$19,768.00
<b>Component Description:</b>	2nd 40% of Marsand Transmitter Cos Equipment Disposal of RF system
<b>Amount:</b>	\$5,698.80

<p>Non-zoning permits</p>	<p><b>Component Description:</b> Second invoice - 50% of project. #460208939</p> <p><b>Amount:</b> \$500.00</p> <p><b>Component Description:</b> ATC Invoice for non-zoning permits; 2 50%</p> <p><b>Amount:</b> \$500.00</p> <p><b>Component Description:</b> Total of 21 and 26, balance. #460227.</p> <p><b>Amount:</b> \$1,636.23</p> <p><b>Component Description:</b> Non-zoning permit costs. KTBU 25% payment to American Tower. Invoice #460197771 with PO.</p> <p><b>Amount:</b> \$250.00</p> <p><b>Component Description:</b> Total of 21 and 26, balance. #460227.</p> <p><b>Amount:</b> \$1,636.23</p>
<p>Local Zoning</p>	<p><b>Component Description:</b> Local zoning permit costs. KTBU 25% payment to American Tower. Invoice #460197771 with PO.</p> <p><b>Amount:</b> \$187.50</p> <p><b>Component Description:</b> ATC Invoice for local zoning permits; 50%</p> <p><b>Amount:</b> \$375.00</p> <p><b>Component Description:</b> Second invoice - 50% of project. #460208939</p> <p><b>Amount:</b> \$375.00</p>

FCC Filing Fees - Special Temporary Authorization request	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
Road upgrades to support heavy equipment transportation exclusive to Repack activities	<p><b>Component Description:</b> Road fortification cost. KTBU 25% paid to American Tower. Invoice #4601977 with PO.</p> <p><b>Amount:</b> \$625.00</p> <p><b>Component Description:</b> ATC Invoice for Road/Drive Upgrades 50%</p> <p><b>Amount:</b> \$1,250.00</p> <p><b>Component Description:</b> Second invoice - 50% of project. #460208939</p> <p><b>Amount:</b> \$1,250.00</p>
DTV Medical Facility Notification	<p><b>Component Description:</b> KTBU_DTVNotification_INV-001960_PO719, Medical</p> <p><b>Amount:</b> \$8,185.00</p>

**Cost Information**

**Grand Total**

	<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>	<b>Actual Cos</b>
<b>Total for all systems</b>	\$6,485,602.90	\$3,336,393.42	\$2,789,750

**Reimbursement Status**

<b>Question</b>	<b>Response</b>
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



**Certification**

Section	Question	Response
<p><b>Submission of Estimated Expenses Statements</b></p>	<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 data-bbox="794 698 1117 981">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 data-bbox="794 1010 1134 1216">2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li><li data-bbox="794 1245 1134 1487">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><li data-bbox="794 1516 1126 1935">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).</li></ol>	

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 above-named applicant for the Authorization(s) specified above.

**Jeffrey C**  
*Engineeri*  
*Associate*

02/22/202

**Certification**

Section	Question	Response
<b>Submission of Actual Cost Documentation Statements</b>	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 data-bbox="794 819 1098 1137">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 data-bbox="794 1167 1114 1373">2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li><li data-bbox="794 1402 1134 1608">3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li><li data-bbox="794 1637 1134 1877">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.</li></ol>	

- 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 above-named applicant for the Authorization(s) specified above.

**Jeffrey C**  
*Engineeri*  
*Associate*

02/22/202

## Attachments