

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 69531 Service: DTV Call KZJL Channel: 21 (UHF)

Sign:

ID:

0000028770

Number:

File

FRN: **0016264616** Date **12/17**

Submitted: /2019

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
KZJL LICENSE LLC Doing Business As: KZJL LICENSE LLC	Chris Buchanan 1845 EMPIRE AVENUE BURBANK, CA 91504 United States	+1 (818) 729-5300	chrisb@lbimedia. 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

Applicant	Address	Phone	Email
Samuel Hariton Widelity, Inc.	4031 University Drive Fairfax, VA 22030 United States	+1 (339) 222- 8107	sam.hariton@widelity. 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	The plan is for KZJL to replace the existing Channel 44 system with a new Channel 21 antenna, new 6-1/8" line and new transmitter. During the transition, KZJL will utilize a shared interim antenna at a new site. See attached narrative statement.

Transmitters

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

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	Ranger
	Year	2001
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1 kW

Auxiliary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	UAXTE- 2R37
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1 kW
	Justification for New Transmitter	Existing transmitter cannot be retuned, so a replacement transmitter needs to be purchased.

Auxiliary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A

	Other Electrical Service	Yes
	Description	The new auxiliary transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	5 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
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
	Number of Days	N/A

Auxiliary Transmitter **Other Transmitter Cost Not Listed**

Transmitter Information not provided.

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	Sigma CD
	Year	2006
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	42 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	47 kW
	Justification for New Transmitter	The existing transmitter cannot be retuned per letter from the manufacturer. A new replacement transmitter is required.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	2 inches

	Length	1000.0 feet
	Other Electrical Service	Yes
	Description	The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
Improvement	Size	1500.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
	•

ice Snield for HVAC Equipment ice snield nece	Ice Shield for HVAC Equipment	Ice shield nece
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Ice shield necessary for HVAC Equipment per tower owner.

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	Lease 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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

Model	TFU- 30DSC-R C170
Year	2004

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Lease New
	Is this a request for upgraded equipment?	Yes
	Ownership	Leased
	Owner	American Tower Corp.
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	Broadband Panel
	Number of Stations Supported	3
	Number of Panels/Bays	56
	Lower Limit	470.00 MHz
	Upper Limit	700.00 MHz
	Design power capacity in use	60.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	660.0 kW
	Manufacturer	
	Model	PEPL42C

Year	2018
Justification for New Antenna	The existing antenna cannot be re-tuned. KJZL decided to join effort through the BBA system in order to reduced cost compared to a like-for-like swap.

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	New
	Number of channels supported	3
	Frequencies of channels supported	Upper and lower frequency
	Frequency	470.0 MHz - 698.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	Yes
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	7 3/16 inches inches

Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
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

Name	Description
Combiner Space	600-1500 sq ft indoor space needed for new Combiner system.
Combiner HVAC	2x10 Ton HVAC needed for the Combiner

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	Type of change	Lease New
Line Description	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	Manufacturer	
Line Manufacturer and Type	Туре	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1800 feet per run

Primary Transmission

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Lease New
	Is this a request for upgraded equipment?	Yes
	Туре	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	2100 feet per run
	Justification for New Transmission Line	The existing transmission line is the wrong segment length.

Primary

Other Transmission Line Expenses Not Listed

Transmission	n Laine	Description
	Nitrogen Generator	For transmission line protection and dehydration

Tower Equipment And Rigging Costs

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

Auxiliary Tower

Add Tower

Section	Question	Response
Existing Tower Description	Type of change	Move Equipment
	Tower Use	Auxiliary (Backup)
	Description of Use	No Longer Needed
	Ownership	Leased
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1059622
Coordinates (NAD83 (North American Datum	Latitude (NAD83)	29° 33′ 45.2″ N-
of 1983))	Longitude (NAD83)	095° 30' 35.9" W-
	Overall Structure Height	1974.06 feet
	Support Structure Height	1844.14 feet
	Ground Elevation Above Mean Sea Level (AMSL)	74.15 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers LLC
Date Constructed	08/30/2000

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

Facility ID	Call Sign	Service
53847	KXLN-DT	DTV
9625	KQBT	FM
11969	KBXX	FM
11971	KMJQ	FM
13200	KUVM-CD	DTV
28324	KTBU	DTV
31870	KYAZ	DTV
51569	KTXH	DTV

Other Types of Users

Users
Wireless 1
Wireless 2
7079 KCVH
57189 KHLM-LD
142962 K236AR

Auxiliary Tower

Tower Rigging Costs

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

Auxiliary Tower

Other Tower Expenses Not Listed

Information not provided.

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	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	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Unknown
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1059622
Coordinates (NAD83 (Latitude (NAD83)	29° 33' 45.2" N-
North American Datum of 1983))	Longitude (NAD83)	095° 30' 35.9" W-
	Overall Structure Height	1974.06 feet
	Support Structure Height	1844.14 feet
	Ground Elevation Above Mean Sea Level (AMSL)	74.15 feet
	Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
	Tower Owner	American Towers, LLC.
	Date Constructed	08/30/2000

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

Facility ID	Call Sign	Service
31870	KYAZ	DTV
9625	KQBT	FM
11969	KBXX	FM
51569	KTXH	DTV
53847	KXLN-DT	DTV
22204	KRIV	DTV
28324	KTBU	DTV
11971	KMJQ	FM
13200	KUVM-CD	DTV

Other Types of Users

Users
Wireless 1
7079 KCVH
57189 KHLM-LD
142962 K236AR
Wireless 2

Primary Tower

Tower Modification Costs

Section	Question	Response
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Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description		
Ground Permit Drawings	Ground & Building A and E Permit Drawing Package		
Tower Permit Drawings	Tower Permit Drawing Package		
Structural Analysis	After the tower mapping is complete, a structural analysis will be necessary.		
Construction Management	Construction project management - Tower Modification reinforcements and facilities		

Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	807
	Explanation	KZJL does not have sufficient resource capacity and expertise in house to handle all of the Project Management related tasks necessary to facilitate on- time completion of the station's build by the Construction Deadline
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2

	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	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	Yes
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes
	Number of Days	10

Justification	Supervision
	and
	inspection of
	work
	completed

Outside Professional

Other Professional Services Expenses Not Listed

l Services Costs	Description		
Site Coordination Meeting	Site Coordination Meeting		
RF System Test	RF System Test		
Migratory Bird Assessment	Migratory Bird Assessment and Permitting (if needed)		

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	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

Other Expenses Not Listed

Name	Description
Site Security	Site Security necessary during repack activities.
Main Site Upgrades	Upgrades necessary at the Main tower site due to Repack Activities.

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	\$1,670,720.57	\$1,442,185.31		\$1,350,245.14	
Ice Shield for HVAC Equipment	\$8,000.00	\$8,000.00	See attached KZJL Main Transmitter Cost Estimate.	\$6,000.00	N/A
Other Building Addition Size: 1500.0	\$44,849.86	\$44,849.86	Per ATC Quote (\$33,333.33) and Wilson Fire Proposal dated 12/7 /18 (\$11,516.53)	\$36,073.86	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,290,031.41	See attached GatesAir quote GA- 00021324 for upgrade solid state transmitter.	\$1,247,892.25	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$12,100.00	Per ATC Invoice 460208944	\$9,075.00	N/A
Transformer 3 phase/480v - 300 KVA	\$36,800.00	\$35,000.00	N/A	N/A	N/A

Conduit and Wiring (Cost per foot) Cost						
Electrical Service: The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors. Other HVAC Service Type: C Size:20 (Other) \$42,204.04 \$42,204.04 Per Mercury Control proposal 1034 dated 9 /28/18 Auxiliary Transmitter UAXTE-2R37	Conduit and Wiring (Cost	\$26,000.00	\$8,333.33	attached KZJL Main Transmitter Cost Estimate and ATC Invoice	\$7,749.99	N/A
Service Type: C Size:20 (Other) 1034 dated 9 /28/18 Auxiliary Transmitter UAXTE-2R37 Control proposal 1034 dated 9 /28/18 \$179,300.00 \$171,050.00 \$88,150.29	Electrical Service: The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical	\$1,666.67	\$1,666.67		\$1,250.01	N/A
Transmitter UAXTE-2R37	Service Type: C Size:20	\$42,204.04	\$42,204.04	Control proposal 1034 dated 9	\$42,204.03	N/A
5 Ton system \$20,250.00 \$19,250.00 N/A N/A	Transmitter	\$179,300.00	\$171,050.00		\$88,150.29	
	5 Ton system	\$20,250.00	\$19,250.00	N/A	N/A	N/A
Transformer 3 \$25,550.00 \$24,300.00 N/A N/A phase/480v - 150 KVA	phase/480v -	\$25,550.00	\$24,300.00	N/A	N/A	N/A

Other Electrical Service: The new auxiliary transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors. \$126,000.00 \$120,000.00 N/A \$88,150.29 N/A Sub-total \$1,850,020.57 \$1,613,235.31 N/A \$1,438,395.43 N/A Total for all systems \$5,136,123.57 \$2,766,490.30 N/A \$2,061,536.58 N/A						
Cooled Solid State Transmitter 1 - 2.5 kW Sub-total \$1,850,020.57 \$1,613,235.31 N/A \$1,438,395.43 N/A Total for all \$5,136,123.57 \$2,766,490.30 N/A \$2,061,536.58 N/A	Electrical Service: The new auxiliary transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical	\$7,500.00	\$7,500.00	N/A	N/A	N/A
Total for all \$5,136,123.57 \$2,766,490.30 N/A \$2,061,536.58 N/A	Cooled Solid State Transmitter 1 -	\$126,000.00	\$120,000.00	N/A	\$88,150.29	N/A
	Sub-total	\$1,850,020.57	\$1,613,235.31	N/A	\$1,438,395.43	N/A
		\$5,136,123.57	\$2,766,490.30	N/A	\$2,061,536.58	N/A

Components

Actual Information Description	File Name	
Ice Shield for HVAC Equipment	Component Description: Amount:	KZJL 1st Primary Transmitter- Ice Shield for HVAC Equipment \$4,000.00
	Component Description: Amount:	Ice Shield for HVAC Equipment \$2,000.00

Other -- Building Addition

Size: 1500.0

Component Description: KZJL 1st Primary

Transmitter-

Building Addition

1500 SF

Amount: \$16,666.67

Component Description: Building Addition

1500 SF

Amount: \$8,333.33

Component Description: Material, labor,

engineering

Amount: \$11,073.86

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW

Component Description: "Transmitter Mask

Filter System RF

Accessories"

Amount: \$217,173.92

Component Description: New Primary

Transmitter
ULXTE-72
Transmitter

Amount: \$495,924.05

Component Description: 1st Primary

Transmitter - UHF Liquid Cooled Solid State

Amount: \$442,479.93

Component Description: Installation and

Proof per Quote Q-

76297

Amount: \$92,314.35

Component Description: 25% Down

payment for 1st Primary Transmitter

Amount: \$22,024.98

Switchgear - industrial 800 amp	O	KZ II. dat Drive en
	Component Description:	KZJL 1st Primary Transmitter- 800
		Amp Switchgear
	Amount:	\$6,050.00
	Component Description:	Reference KZJL- 110-1st Primary
		Transmitter - 25 Ton HVAC System American Tower LLC 460200428
	Amount:	\$3,025.00
Transformer 3 phase/480v - 300 KVA	Information not provided.	
2" Rigid Conduit and Wiring (Cost per foot)	Component Description:	Capital
		contribution- Missouri City/30285 /Asset#30285-BTI /OAA718460/
		KZJL Channel 21 Phase 2/ Milestone 1/
	Amount:	Broadcast Repack \$2,083.33
	Component Description:	Relocate conduits
		on office wall
	Amount:	\$1,500.00
	Component Description:	Capital
		contribution -
		Missouri City

Other Electrical Service:		
The new main transmitter will require reconfiguration of the electrical service on	Component Description:	KZJL 1st Primary Transmitter- Other
site. The electrical work cost has been estimated based on verbal guidance	Amount:	Electrical Service \$833.34
from local electrical contractors.	Component Description:	New Electrical Sub
	Amount:	\$416.67
Other HVAC Service Type: C Size:20 (Other)	Component Description:	Install new 20T
		condenser 460- 480v 3 Phase and AHU
	Amount:	\$42,204.03
5 Ton system	Information not provided.	
Transformer 3 phase/480v - 150 KVA	Information not provided.	
Other Electrical Service: The new auxiliary transmitter will require reconfiguration of the	Information not provided.	
electrical service on site. The electrical work cost has		
been estimated based on verbal guidance from local electrical contractors.		

UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW

Component Description: Ist Auxiliary

Transmitter- UHF Air Cooled Solid

State

Amount: \$22,634.03

Component Description: UAXTE-2

Transmitter

Amount: \$26,172.78

Component Description: New Auxiliary

Transmitter Down

Payment

Amount: \$28,332.03

Component Description: Installation

Services

Amount: \$11,011.45

Antennas

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna PEPL42C	\$419,780.00	\$245,809.00		\$159,356.46	
Combiner HVAC	\$24,667.00	\$24,667.00	N/A	\$18,500.01	N/A
Combiner Space	\$33,333.00	\$33,333.00	N/A	\$2,083.33	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$8,580.00	N/A	\$6,435.00	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$0.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$44,562.00	N/A	\$31,338.11	N/A

broadband panel					
antenna elliptically or					
circularly polarized					
Sweep test of existing antenna	\$6,730.00	\$6,667.00	See attached Cost sheets	\$5,000.01	N/A
Sub-total	\$419,780.00	\$245,809.00	N/A	\$159,356.46	N/A
Total for all systems	\$5,136,123.57	\$2,766,490.30	N/A	\$2,061,536.58	N/A

Actual Information Description	File Name	
Combiner HVAC		
	Component Description:	KZJL Primary Antenna- Combiner HVAC
	Amount:	\$12,333.34
	Component Description: Amount:	Combiner HVAC \$6,166.67
Combiner Space		
	Component Description:	Combiner Installation
	Amount:	\$2,083.33

Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Component Description: Amount:	KZJL Primary Antenna- Elbow Complex 7 3/16in \$4,290.00
	Component Description:	Elbow Complex 7
		3/16"
	Amount:	\$2,145.00
Combiner output splitting /switching for dual feed lines, if applicable	Information not provided.	
New combiner, cost per channel (without antenna)	Component Description:	KZJL Primary
	Component Description.	Antenna-
		Combiner
	Amount:	\$22,280.96
	Component Description:	Combiner and
		Installation
	Amount:	\$9,057.15
UHF - High Power Top Mount Three Station		
broadband panel antenna	Component Description:	KZJL Primary Antenna- UHF
elliptically or circularly		High Power Top
polarized		Mount Broadband
		Antenna
	Amount:	\$64,000.00
	Component Description:	UHF High Power
		Top Mount
	Amazonto	broadband
	Amount:	\$32,000.00

Sweep test of existing antenna

Component Description:

Amount:

Sweep Test

\$1,666.67

Component Description:

KZJL Primary Antenna- Sweep

Test

Amount:

\$3,333.34

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$1,403,600.00	\$308,030.00		\$231,022.50	
Nitrogen Generator	\$5,000.00	\$5,000.00	Per ATC Invoice 460208944	\$3,750.00	N/A
Rigid Transmission Line - copper, 7 3 /16" broadband	\$1,398,600.00	\$303,030.00	N/A	\$227,272.50	N/A
Sub-total	\$1,403,600.00	\$308,030.00	N/A	\$231,022.50	N/A
Total for all systems	\$5,136,123.57	\$2,766,490.30	N/A	\$2,061,536.58	N/A

ne	Actual Information Description File N
	Nitrogen Generator
onent Description: KZJL Rigid	Com
Transmission	
Line- copper, 7 3	
/16in Nitrogen	
Generator	
ht: \$2,500.00	Amo
onent Description: Nitrogen Generator	Com
ht: \$1,250.00	Amo
•	

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

Component Description: KZJL Rigid

Transmission

Line- copper, 7 3 /16in broadband

Amount: \$151,515.00

Component Description: Rigid

Transmission Line

- copper, 7 3/16"

broadband

Amount: \$75,757.50

Tower Equipment and Rigging Costs

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower GTOWER	\$892,945.00	\$252,572.57		\$117,053.18	
Construction Management	\$10,495.00	\$10,495.00	American Tower 460208944	\$10,495.00	invoices
Tower Permit Drawings	\$4,700.00	\$4,700.00	N/A	\$3,525.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$6,200.00	See attached KZJL Main Transmitter Cost Estimate	\$4,650.00	N/A
Structural Analysis	\$4,750.00	\$4,750.00	See attached KZJL Main Transmitter Cost Estimate	\$3,562.50	N/A
Ground Permit Drawings	\$4,700.00	\$4,700.00	N/A	\$3,525.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$121,727.57	Per ATC Invoice 460208944	\$91,295.68	N/A

\$210,500.00	\$0.00	N/A	N/A	N/A
\$1,103,445.00	\$252,572.57	N/A	\$117,053.18	N/A
	\$210,500.00		\$210,500.00 \$0.00 N/A	\$210,500.00 \$0.00 N/A N/A

\$100,000.00

\$421,000.00

See

N/A

N/A

Components

Major tower

Actual Information Description	File Name	
Construction Management		
	Component Description:	KZJL Primary
		Tower-
		Construction
		Management
	Amount:	\$5,000.00
	Component Description:	Construction
		Management
	Amount:	\$5,495.00

Tower Permit Drawings		
	Component Description:	KZJL Primary
		Tower- Tower
		Permit Drawings
	Amount:	\$2,350.00
	Component Description:	Tower Permit
		Drawings
	Amount:	\$1,175.00
Tower mapping for an		
undocumented/poorly documented tower and	Component Description:	KZJL Primary
preparation of		Tower- Tower
documentation necessary		Mapping for an
for tower load study		Undocumented
ior towor load stady		/Poorly
		Documented
		Tower
	Amount:	\$3,100.00
	Component Description:	Tower Mapping for
		an Undocumented
		/Poorly
	Amount:	Documented Tower \$1,550.00
Structural Analysis		
	Component Description:	KZJL Primary
		Tower- Structural
		Analysis
	Amount:	\$2,375.00
	Component Description:	Structural Analysis
	•	, -

Ground Permit Drawings		
	Component Description:	KZJL Primary
		Tower- Ground
		Permit Drawings
	Amount:	\$2,350.00
	Component Description:	Ground Permit
		Drawings
	Amount:	\$1,175.00
Complex Tower (includes,		
for example, those with	Component Description:	KZJL Primary
candelabras and/or stacked		Tower- Complex
antennas)		Tower, Tower
		Equipment and
		Rigging
	Amount:	\$60,863.79
	Component Description:	Complex Tower,
	Compension 2 obstipulation	Tower Equipment
		and Rigging Costs
	Amount:	\$30,431.89
Major tower reinforcement /modifications	Information not provided.	
Tall Tower (greater than 500')	Information not provided.	

Outside Professional Services

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$242,659.00	\$230,579.42		\$87,747.28	
Migratory Bird Assessment	\$438.00	\$438.00	N/A	\$328.13	N/A
RF System Test	\$12,830.00	\$12,830.00	see Estimated Cost Justification KZJL-580- Field Engineering Services - Interim Site RF System Test v0	\$11,580.00	N/A
Site Coordination Meeting	\$1,250.00	\$1,250.00	N/A	\$937.50	N/A
Additional Field Engineering Service, 10 Days	\$20,000.00	\$20,000.00	N/A	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$2,812.50	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$166.67	Tower owner is passing this cost to the station	\$125.00	N/A

Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,000.00	N/A	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$1,350.00	Tower owner is passing this cost to the Station	\$1,012.50	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	\$0.00	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$14,514.75	see Estimated Cost Justification KZJL-550- Attorney - Negotiation of Lease and Other Matters v0	\$14,514.75	invoices
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$702.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A

Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	\$350.00	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	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,750.00	N/A
Project management of the transition	\$127,506.00	\$116,280.00	\$106,800 Overall project Management + \$9,480 Additional per Towers owner See attached KZJL Cost Estimate	\$49,748.15	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$319.50	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$1,567.25	N/A
Sub-total	\$242,659.00	\$230,579.42	N/A	\$87,747.28	N/A
Total for all systems	\$5,136,123.57	\$2,766,490.30	N/A	\$2,061,536.58	N/A

Actual Information Description	File Name	
Migratory Bird Assessment	Component Description:	KZJL Field Engineering
	Amount:	Services- Migratory Bird Assessment \$218.75
	Component Description:	Migratory Bird Assessment \$109.38
	Amount.	\$10 3 .30

RF System Test		
	Component Description:	KZJL Field
		Engineering
		Services- RF
		System Test
	Amount:	\$2,500.00
	Component Description:	RF System Test
	Amount:	\$1,250.00
	Component Description:	Plus-X VSWR RF
		Fault Protection
	Amount:	\$7,830.00
	Component Description:	N/A
	Amount:	N/A
Site Coordination Meeting		
	Component Description:	KZJL Site
		Coordination
	Amount:	Meeting \$625.00
	Amount.	Ф 023.00
	Component Description:	Site Coordination
		Meeting
	Amount:	\$312.50
Additional Field Engineering Service, 10 Days	Information not provided.	

Measurements	Component Description: Amount:	RF Exposure Measurements \$937.50
	Component Description:	KZJL Field Engineering Services- RF Exposure
	Amount:	Measurements \$1,875.00
ASR modification (prepare FCC Form 854)		
1 00 1 0iiii 00+)	Component Description: Amount:	ASR Modification \$41.67
	Component Description:	KZJL Attorney- ASR Modification
	Amount:	\$83.33
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.	
NEPA Section 106 environmental review, if needed	Component Description:	KZJL Attorney- NEPA Section 106 Environmental
	Amount:	Review \$675.00
	Component Description:	NEPA Section 106 environmental review
	Amount:	\$337.50
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	

		Total Professional Services
	Amount:	\$4,625.10
	Component Description: Amount:	Legal Services \$1,398.60
	Component Description:	Email corr w/ M. Todd and C. Buchanan re: KZJL repack
	Amount:	requirements. \$350.10
	Component Description:	Total Professional Services
	Amount:	\$5,824.35
	Component Description: Amount:	Legal services \$2,316.60
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description:	KZJL-550-Attorney - Prepare and File License to Cover
	Amount:	(Main) \$702.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Component Description:	Consulting Engineer - J. Davis - Hourly (@ \$250
	Amount:	/hr) \$350.00

Information not provided.	
Information not provided.	
Component Description: Amount:	Engineering Study for New Channel Assignment \$1,250.00
Component Description:	KZJL RF Eng- Engineering Study for New Channel Assignment \$2,500.00
Component Description:	Project Management
Amount:	\$1,144.50
Component Description: Amount:	Project Management \$2,615.30
Component Description:	Project Management
Amount:	\$3,522.10
	Information not provided. Component Description: Amount: Component Description: Amount: Component Description: Amount: Component Description: Amount: Component Description:

Component Description: Project

Management

Amount: \$3,137.35

Component Description: Project

Management

Amount: \$3,282.10

Component Description: Project

Management

Amount: \$4,272.80

Component Description: KZJL Project

Management

Amount: \$4,740.00

Component Description: Project

Management

Amount: \$262.50

Component Description: Project

Management

Amount: \$3,167.75

Component Description: Project

Management

Amount: \$4,251.30

Component Description: Project

Management

Amount: \$2,026.80

Component Description: Project

Management

Amount: \$1,297.05

Component Description: Project

Management

Amount:

\$1,197.35

Component Description:

Project Management

Amount:

\$2,058.15

Component Description:

Project

Amount:

Management \$1,955.70

Component Description:

Project

Amount:

Management \$6,640.55

Component Description:

Project

Management

Amount:

\$57.00

Prepare and or review reimbursement form

Component Description:

Amount:

Legal services

\$319.50

Address transition timing and coordination issues w/ other stations and wireless

Component Description:

KZJL Transition

Timing and Coordination

Amount: \$1,250.00

Component Description:

 $KZJL,\,Houston,\,TX$

Channel Repack

Amount: \$317.25

Other Expenses

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$116,619.00	\$116,264.00		\$25,672.73	
MVPD Notification of Channel Change	\$2,289.00	\$2,289.00	Please see 12.6.19 ECJ v0	N/A	N/A
Main Site Upgrades	\$11,375.00	\$11,375.00	See attached KZJL Main Transmitter Cost Estimate.	\$200.00	N/A
Site Security	\$7,875.00	\$7,875.00	Per ATC Invoice 460208944	\$5,906.25	N/A
Develop and air announcement of upcoming channel change	\$15,000.00	\$15,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	\$5,124.99	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	Station Estimate	\$3,430.00	N/A
Non-zoning permits	\$8,000.00	\$8,000.00	N/A	\$999.99	N/A

DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$8,914.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$535.00	see Estimated Cost Justification KZJL-610- FCC Filing Fee - License to Cover v0	\$535.00	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Local Zoning	\$10,000.00	\$10,000.00	N/A	\$562.50	N/A
Sub-total	\$116,619.00	\$116,264.00	N/A	\$25,672.73	N/A
Total for all systems	\$5,136,123.57	\$2,766,490.30	N/A	\$2,061,536.58	N/A

Actual Information Description	File Name	
MVPD Notification of Channel Change	Component Description: Amount:	MVPD Notification Services \$2,289.00
Main Site Upgrades	Component Description:	Consulting Engineer - J. Davis - Hourly (@ \$250/hr)
	Amount:	\$200.00

Site Security		
	Component Description: Amount:	KZJL Site Security \$3,937.50
	Component Description: Amount:	Site Security \$1,968.75
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Delivery and		
Handling Charges	Component Description:	Equipment
	Amount:	Delivery
	Amount:	\$1,708.33
	Component Description:	KZJL Equipment
		Delivery
	Amount:	\$3,416.66
Disposal Costs (for		
equipment and other waste, net of any salvage value)	Component Description:	Demolition of
not of any carrage value,	Amazunt	Electrical Gear
	Amount:	\$3,430.00
Non-zoning permits		
	Component Description:	KZJL Non-Zoning
	Amount:	Permits \$666.66
	Amount.	φυσυ.συ
	Component Description:	Non-Zoning
		Permits
	Amount:	\$333.33
DTV Medical Facility		
Notification	Component Description:	DTV Notification
		Service
	Amount:	\$8,914.00

FCC Filing Fees - Form 2100 license to cover application	Component Description: Amount:	KZJL-610-FCC Filing Fee - License to Cover \$200.00
	Component Description:	Total Professional Services
	Amount:	\$335.00
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
Local Zoning		
	Component Description:	Local Zoning
	Amount:	\$187.50
	Component Description:	KZJL Local
		Zoning
	Amount:	\$375.00

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,136,123.57	\$2,766,490.30	\$2,061,536.58

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

Section Question Response

Submission of Estimated Expenses Statements

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

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

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

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

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Michael Everett Todd Chief Engineer

12/17/2019

Attachments