

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID:	66786	Service:	LPD	Call Sign:	K17IZ-D	Channel:	26 (UHF)
File Number:	0000085026						
FRN:	0014361620	Eligibility Status:	Eligible	Date Submitted:	10/08 /2019		

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
KIRO-TV, INC. Doing Business As: KIRO-TV, INC.	Chief Engineer 2807 THIRD AVENUE SEATTLE, WA 98121 United States	+1 (206) 728-7777	knealey@k7.com	Corporation

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
Keith Nealey <i>Engineering Manager</i> <i>KIRO-TV, INC.</i>	2807 Third Ave Seattle, WA 98121 United States	+1 (206) 728-7808	knealey@k7.com

Broadcaster Information and Transition Plan

Question	Response
----------	----------

Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	New 220v power circuits will be installed with existing 110v circuits. We will install new transmitter and antenna alongside existing equipment. Once testing is completed we will move existing feed line onto new transmitter and antenna.

Transmitters

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

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Ownership	Owned
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	MX100
	Year	2010
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	.08 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?	No
	Manufacturer	
	Model	UAXTE-3P- C-600W
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	600 W
	Justification for New Transmitter	Location within the predicted noise- limited contour of and predicted interference greater than 0.5 percent to Post- Incentive- Auction Spectrum Repack facilities of Full-Service station KFFV on Channel 16, which itself is being repacked from Channel 44.

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Other Transmitter Costs	Does the transmitter installation require a Transmitter Building Site Survey /Installation?	No
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Rigid Conduit and Wiring	No
	Other Electrical Service	Yes
	Description	Add 220V breakers and outlets to existing service panel
HVAC Service	Does the replacement transmitter require HVAC Service?	No
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No

**Primary
Transmitter**

Other Transmitter Cost Not Listed

Information not provided.

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Ownership	Owned
	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?	No
Existing Antenna Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Top
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels	2
	Design power capacity in use	100.0 %
	Lower Limit	488.00 MHz
	Upper Limit	494.00 MHz
	ERP: (Effective Radiated Power)	0.5 kW
	Manufacturer	
	Model	1X2KBBU
	Year	2010

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Change Type	Purchase New
	Ownership	Owned
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Mounting	Side Mount
	Antenna position in stack	Top
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels/Bays	2
	Lower Limit	470.00 MHz
	Upper Limit	862.00 MHz
	Design power capacity in use	100.0 %
	ERP: (Effective Radiated Power)	4.0 kW
	Manufacturer	
	Model	K723147
	Year	2018

	Justification for New Antenna	Post-Incentive-auction repack required full-service station KFFV which is being repacked from channel 44 to Channel 16. This has a predicted interference greater than .5 percent. Current antenna cannot be retuned.
--	-------------------------------	---

**Primary
Antenna**

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	No
Power Dividers	Does the panel antenna require power dividers?	Yes
	Number of Power Dividers	1

Cable Harness	Does the panel antenna require cable harness?	No
----------------------	---	----

**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Scala Mounting Kits and Connectors	Antenna Mounting Kit, Power Divider Mounting Kit, 6I Jumper, Scala Adapter

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	No

Tower Equipment And Rigging Costs

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

Primary Tower**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Move Equipment
	Tower Use	Primary (Main)
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	No
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	48° 02' 00.4" N-
	Longitude (NAD83)	122° 08' 06.5" W-
	Overall Structure Height	157.00 feet
	Support Structure Height	157.00 feet
	Ground Elevation Above Mean Sea Level (AMSL)	292.00 feet

	Structure Type	POLE - Any type of Pole
	Tower Owner	KIRO-TV, INC
	Date Constructed	03/01/1985

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	No
Outside RF consulting Engineering Services	Perform engineering study for displacement application	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	No
	Prepare Form 601	No
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Form 399 assistance or other program management costs	No

RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**
Services not provided.

**Other
Expenses**

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Permit and Filing Costs	FCC Construction Permit Major Change	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	No
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	No
	Does this relocation require Equipment Storage?	No
Point to Point Microwave (STL/ICR)	Frequency Coordination for Unidirection System	No
	Frequency Coordination for Bi-Direction System	No
	New Point to Point Microwave System	No

**Other
Expenses**

Other Expenses Not Listed

Information not provided.

Cost
Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter UAXTE-3P-C-600W	\$30,700.00	\$26,975.28		\$27,141.20	
UHF - Air Cooled Solid State Transmitter 320 - 700 Watts	\$28,100.00	\$24,375.28	N/A	\$27,141.20	Washington State Sales Tax Added
Other Electrical Service: Add 220V breakers and outlets to existing service panel	\$2,600.00	\$2,600.00	N/A	N/A	N/A
Sub-total	\$30,700.00	\$26,975.28	N/A	\$27,141.20	N/A
Total for all systems	\$169,724.50	\$53,028.28	N/A	\$38,009.65	N/A

Components

Actual Information	
Description	File Name
UHF - Air Cooled Solid State Transmitter 320 - 700 Watts	<div>Component Description: Cox JW30004653 KIRO US0329515 - GatesAir Everett Translator Invoice. pdf</div> <div>Amount: \$27,141.20</div>

Other Electrical Service: Add 220V breakers and outlets to existing service panel	Information not provided.
--	---------------------------

Cost
Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna K723147	\$5,422.00	\$2,378.00		\$2,678.64	
Power Dividers (each, for panel antenna system, if not included in antenna cost)	\$1,300.00	\$752.00	N/A	\$752.00	N/A
UHF Broadband panel antenna (per panel), horizontally-polarized	\$3,500.00	\$1,004.00	N/A	\$1,304.64	Shipping costs added
Scala Mounting Kits and Connectors	\$622.00	\$622.00	N/A	\$622.00	N/A
Sub-total	\$5,422.00	\$2,378.00	N/A	\$2,678.64	N/A
Total for all systems	\$169,724.50	\$53,028.28	N/A	\$38,009.65	N/A

Components

Actual Information	
Description	File Name
Power Dividers (each, for panel antenna system, if not included in antenna cost)	<div>Component Description:Power Divider portion of Invoice</div> <div>Amount:\$752.00</div>

UHF Broadband panel antenna (per panel), horizontally-polarized	<div><div>Component Description:</div><div>Antenna and added shipping costs portion of invoice</div></div> <div><div>Amount:</div><div>\$1,304.64</div></div>
Scala Mounting Kits and Connectors	<div><div>Component Description:</div><div>Mounting Kits and Connectors portion of Invoice</div></div> <div><div>Amount:</div><div>\$622.00</div></div>

Cost Information

Transmission Line

Information not provided.

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower POLE	\$56,190.00	\$7,000.00		\$0.00	
Tower Rigging Short Tower (less than 500')	\$56,190.00	\$7,000.00	N/A	N/A	N/A
Sub-total	\$56,190.00	\$7,000.00	N/A	\$0.00	N/A
Total for all systems	\$169,724.50	\$53,028.28	N/A	\$38,009.65	N/A

Components

Information not provided.

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$75,967.50	\$15,700.00		\$8,189.81	
Comprehensive coverage verification via field study, if needed	\$52,600.00	\$6,000.00	N/A	\$4,037.15	N/A
RF Exposure Measurements	\$12,100.00	\$500.00	N/A	\$75.00	N/A
Prepare/ Review 399 reimbursement form	\$1,710.00	\$1,500.00	N/A	\$0.00	N/A
Perform engineering study for displacement application	\$1,800.00	\$1,800.00	N/A	\$1,430.38	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$2,102.50	\$1,200.00	N/A	\$1,017.86	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,052.50	\$500.00	N/A	\$300.00	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$3,025.00	\$3,000.00	N/A	\$1,329.42	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$1,577.50	\$1,200.00	N/A	N/A	N/A
Sub-total	\$75,967.50	\$15,700.00	N/A	\$8,189.81	N/A
Total for all systems	\$169,724.50	\$53,028.28	N/A	\$38,009.65	N/A

Components

Actual Information	
Description	File Name
Comprehensive coverage verification via field study, if needed	<p>Component Description: Engineering Coverage Study - Everett Translator portion</p> <p>Amount: \$4,037.15</p>
RF Exposure Measurements	<p>Component Description: RF Exposure Measurements - Everett portion of Invoice</p> <p>Amount: \$75.00</p>
Prepare/ Review 399 reimbursement form	Information not provided.

Perform engineering study for displacement application	Component Description: Engineering Study for Displacement - Everett Translator portion Amount: \$1,430.38
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Engineering for CP - Everett Translator Portion Amount: \$1,017.86
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Engineering for LTC - Everett Translator Portion Amount: \$300.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Preparation of CP for Everett portion of invoices Amount: \$1,329.42
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.

Cost
Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$1,445.00	\$975.00		\$0.00	
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$170.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$805.00	N/A	N/A	N/A
Sub-total	\$1,445.00	\$975.00	N/A	\$0.00	N/A
Total for all systems	\$169,724.50	\$53,028.28	N/A	\$38,009.65	N/A

Components

Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$169,724.50	\$53,028.28
			\$38,009.65

Reimbursement Status	Question	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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 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.

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Keith Nealey <i>Engineering Manager</i></p> <p>10/08/2019</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol style="list-style-type: none"> 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. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Keith Nealey <i>Engineering Manager</i></p> <p>10/08/2019</p>

Attachments