



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **66781** | Service: **DTV** | Call **KIRO-TV** | Channel: **23 (UHF)** |
ID: | Sign:
File **0000028117**
Number:
FRN: **0014361620** | Date **08/15**
Submitted: **/2017**

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	dshaw@kIRO7. 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
Donald Shaw <i>Director Of Engineering KIRO TV INC KIRO-TV, Inc.</i>	Don Shaw 2807 Third Avenue Seattle, WA 98121 United States	+1 (206) 728- 8240	dshaw@kiroTV. 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	Phase 1 requires installation of an Interim TX and antenna. A current transmission line will be extended and antenna raised to help match existing coverage. In Phase 2 KIRO replaces its Main transmitter, filters, antenna and electrical system.

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)
	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 and Type	Manufacturer	
	Model	Sigma CD-40P1
	Year	1999
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	28.2 kW

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	Current transmitter cannot be retuned to channel 23. See attached supporting docs from Gates and Comark to substantiate solid state vs. IOT. See Gates Air Main Transmitter quote (ULXTE-50 Main TX) for cost breakdowns.

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
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Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Electrician will remove existing electrical and install new transformer, conduits, and heat exchanger feeds for primary transmitter. See quote from Schneider for cost breakdowns.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	200.0 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 **Other Transmitter Cost Not Listed**
Transmitter Information not provided.

**Interim
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	38 kW
	Justification for New Transmitter	Current Aux Transmitter cannot be retuned and does not provide enough power to meet ERP requirements during the transition /interim phase-See Gates Air Interim quote for costs.

**Interim
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	Yes
	Size	3 inches
	Length	240.0 feet
	Other Electrical Service	Yes
	Description	Electrician will remove existing service connections and dispose. New Transformer, conduits and heat exchanger will be installed for interim Transmitter- See Schneider Proposal, Queen Anne for costs.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No
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Interim 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)
	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?	No
Existing Antenna Manufacturer and Type	Class	Class A
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	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-32DSC C164
Year	1999

**Primary
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Class A
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	715.0 kW
	Manufacturer	

Model	TFU-26JSC /R C164
Year	2018
Justification for New Antenna	Current MAIN antenna cannot be retuned to Ch-23. KIRO will require TFU-26JSC /R C164 to meet repack assignments. See Dielectric MAIN ANT quote for cost details

**Primary
Antenna**

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches

Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Dielectric Custom Flanges	Custom flanges needed to connect current transmission lines to new main antenna
Main antenna Support Brackets	Custom support brackets needed for new primary antenna installation.
Main Antenna Freight	Primary antenna Freight charges.

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Class A
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	715.0 kW
	Manufacturer	
	Model	TFU-26JSC /R C164
	Year	2018

	Justification for New Antenna	Existing transmission line will be extended to higher elevation of tower where new interim Antenna will be installed. Higher elevation needed to enable coverage demands while main antenna is installed.
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Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Antenna Support Brackets	Custom Support Brackets for Interim antenna

Freight Charges	Freight Charges for Interim Antenna
Dielectric Custom Flanges	Flanges and fittings needed to connect current transmission line to extension

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
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	27
	Length	20 feet per run

Primary

Other Transmission Line Expenses Not Listed

Transmission Line

Information not provided.

Interim

New Transmission Line

Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	20'
	Other Segment Length	
	Number of parallel runs	9
	Length	20 feet per run
	Justification for New Transmission Line	To meet ERP during transition, KIRO will extend existing Aux transmission 9 sections to elevate new Interim antenna.

Interim

Other Transmission Line Expenses Not Listed

Transmission Line

Information not provided.

**Tower
Equipment
And
Rigging
Costs**

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

**Primary
Tower**

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1011408
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	47° 37' 58.9" N-
	Longitude (NAD83)	122° 21' 23.9" W-
	Overall Structure Height	607.93 feet
	Support Structure Height	529.85 feet
	Ground Elevation Above Mean Sea Level (AMSL)	399.93 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	IWG Towers Assets II, LLC
Date Constructed	07/22/1957

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	No
	Number of Hours	N/A
	Explanation	N/A
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	No
RF Field Engineering Services	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

Name	Description
DTV Medical Notifications	Hire external service to conduct Medical Notifications related to repack

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	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Merrill Weiss Group	Perform RF studies pre and post repack. Assist with CPO applications.

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
Interim Transmitter ULXTE-60	\$1,522,980.00	\$1,400,201.00		\$0.00	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,352,191.00	Gates air ULXTE 60 for interim transmission.	N/A	N/A
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$12,480.00	\$11,760.00	N/A	N/A	N/A
Other Electrical Service: Electrician will remove existing service connections and dispose. New Transformer, conduits and heat exchanger will be installed for interim Transmitter- See Schneider Proposal, Queen Anne for costs.	<i>\$11,950.00</i>	\$11,950.00	Labor to remove existing electrical feeds and install new for interim transmitter	N/A	N/A
Primary Transmitter ULXTE-50	\$1,046,855.00	\$1,045,105.00		\$0.00	

UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$989,755.00	\$989,755.00	Gates Air ULXTE-50 for primary transmitter.	N/A	N/A
Other -- Building Addition Size: 200.0	\$9,500.00	\$9,500.00	Remove existing wall to allow primary install. relocate duct work for aux transmitter room.	N/A	N/A
Other Electrical Service: Electrician will remove existing electrical and install new transformer, conduits, and heat exchanger feeds for primary transmitter. See quote from Schneider for cost breakdowns.	\$11,950.00	\$11,950.00	Labor to remove existing electrical feeds and install new for primary transmitter. SEE Schneider Proposal Queen Anne for cost details.	N/A	N/A
4" Rigid Conduit and Wiring (Cost per foot)	\$10,100.00	\$9,600.00	New main conduit runs. See Schneider Proposal Queen Anne for cost details.	N/A	N/A
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
Sub-total	\$2,569,835.00	\$2,445,306.00	N/A	\$0.00	N/A

Total for all systems	\$3,678,077.50	\$3,516,309.00	N/A	\$0.00	N/A
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Components

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
Interim Antenna TFU-26JSC/R C164	\$205,396.25	\$204,736.25		\$0.00	
Dielectric Custom Flanges	<i>\$1,841.25</i>	\$1,841.25	Custom flanges and transmission line sections to extend current transmission line for interim antenna-see Dielectric Interim quote (Item 23) for costs and verifications.	N/A	N/A
Antenna Support Brackets	<i>\$21,750.00</i>	\$21,750.00	N/A	N/A	N/A
UHF - Lower Power, Side Mount, Class A, basic slot antenna, 715 kW input, directional,, horizontally polarized	<i>\$145,275.00</i>	\$145,275.00	See Dielectric Interim antenna quote for cost details.	N/A	N/A

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,970.00	See attached quote-Dielectric Interim antenna for costs and details	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Freight Charges	\$17,500.00	\$17,500.00	See Dielectric Interim antenna quote for cost details and verifications	N/A	N/A
Primary Antenna TFU-26JSC/R C164	\$205,396.25	\$203,063.75		\$0.00	
Dielectric Custom Flanges	\$1,841.25	\$1,841.25	Custom flanges and transmission lines needed to connect current transmission line to new antenna. See Dielectric Main antenna quote,(Line 23) for costs and verifications.	N/A	N/A

Main antenna Support Brackets	\$21,750.00	\$21,750.00	See Dielectric MAIN ANT quote for support bracket cost details.	N/A	N/A
UHF - Lower Power, Side Mount, Class A, basic slot antenna, 715 kW input, directional,, horizontally polarized	\$145,275.00	\$145,275.00	New primary antenna for repack. See Dielectric MAIN ANTENNA quote for cost details.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,297.50	See Dielectric MAIN ANT quote for elbow cost details.	N/A	N/A
Main Antenna Freight	\$17,500.00	\$17,500.00	See Dielectric MAIN Antenna quote for cost details on Freight.	N/A	N/A
Sub-total	\$410,792.50	\$407,800.00	N/A	\$0.00	N/A
Total for all systems	\$3,678,077.50	\$3,516,309.00	N/A	\$0.00	N/A

Components

Information not provided.

Cost
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$36,360.00	\$20,973.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$36,360.00	\$20,973.00	Transmission line extension for interim antenna. see attached Dielectric Interim Trans extension quote for details.	N/A	N/A
Primary Transmission Line	\$0.00	\$0.00		\$0.00	
Sub-total	\$36,360.00	\$20,973.00	N/A	\$0.00	N/A
Total for all systems	\$3,678,077.50	\$3,516,309.00	N/A	\$0.00	N/A

Components

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 GTOWER	\$381,100.00	\$370,480.00		\$0.00	
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	Rigging and equipment to remove current Main&Aux antennas, transmission lines. Install new repack antennas and transmission lines.	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$20,480.00	TEC Engineering repack tower load study-see TEC Quote for details.	N/A	N/A

Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	To meet new wind load stress induced by new repack antennas new Mid-Bay horizontals will need to be added to the KIRO Tower. See attached, TEC repack analysis for specifics.	N/A	N/A
Sub-total	\$381,100.00	\$370,480.00	N/A	\$0.00	N/A
Total for all systems	\$3,678,077.50	\$3,516,309.00	N/A	\$0.00	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	\$161,930.00	\$154,250.00		\$0.00	
DTV Medical Notifications	<i>\$7,500.00</i>	\$7,500.00	Hire external company to perform DTV Medical notifications for Repack.	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
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	N/A	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	\$6,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A

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	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Sub-total	\$161,930.00	\$154,250.00	N/A	\$0.00	N/A
Total for all systems	\$3,678,077.50	\$3,516,309.00	N/A	\$0.00	N/A

Components

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	\$118,060.00	\$117,500.00		\$0.00	
MVPD Notification of Channel Change	<i>\$11,750.00</i>	\$11,750.00	MVPD notifications	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$15,000.00</i>	\$15,000.00	Develop internal and external awareness campaign for repack.	N/A	N/A
Equipment Storage	<i>\$5,000.00</i>	\$5,000.00	up to 8 weeks antenna storage in Dielectric warehouse.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
Local Zoning	<i>\$2,000.00</i>	\$2,000.00	Seattle local zoning- Estimates based on previous projects in this area.	N/A	N/A

Non-zoning permits	\$800.00	\$800.00	Seattle street closure permits.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$6,500.00	\$6,500.00	Costs to dispose of high voltage cabinets, current transmitters, transmission line and misc. equipment related to repack.	N/A	N/A
Equipment Delivery and Handling Charges	\$32,300.00	\$32,300.00	N/A	N/A	N/A
Merrill Weiss Group	\$32,825.00	\$32,825.00	RF studies pre-post repack. See Merrill Weiss group quote for specifics.	N/A	N/A
Sub-total	\$118,060.00	\$117,500.00	N/A	\$0.00	N/A
Total for all systems	\$3,678,077.50	\$3,516,309.00	N/A	\$0.00	N/A

Components

Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$3,678,077.50	\$3,516,309.00
			\$0.00

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>Jane Williams <i>Vice President</i></p> <p>08/15/2017</p>

Attachments