

(REFERENCE COPY - Not for submission)

#### FCC Form 399: Reimbursement Request

Facility 35703 Service: DTV Call KTVU Channel: 31 (UHF)

Sign:

File **0000027693** 

Number:

ID:

FRN: **0005795067** Date **11/30** 

Submitted: /2020

## Applicant Information

#### **Applicant Name, Type, and Contact Information**

Applicant	Address	Phone	Email	Applicant Type
FOX TELEVISION STATIONS, LLC	Joseph M. Di Scipio 400 N. CAPITOL STREET, NW SUITE 890 WASHINGTON, DC 20001 United States	+1 (202) 824-6522	Joe. Discipio@fox. 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
Dennis Wallace Managing Partner Meintel, Sgrignoli & Wallace, LLC	Dennis Wallace 1282 Smallwood Drive Suite 372 Waldorf, MD 20603 United States	+1 (202) 251- 7589	Dennis. Wallace@mswdtv.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	KTVU will continue to use the existing master UHF Main and Upper Aux antennas at Sutro Tower. New Combiners for both antennas are required. Main TX will be retuned. Aux transmitter replaced. Sutro tower modifications are required.

#### **Transmitters**

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

#### Auxiliary Transmitter

#### **Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Aux Transmitter
	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	DHD60P2
	Year	2009
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	14 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?	No
	Manufacturer	
	Model	ULXTE-30
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	14 kW
	Justification for New Transmitter	Existing Diamond Aux transmitter is obsolete and no longer supported by its manufacturer. Replacement required.

#### 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	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	200.0 feet
		'

	Other Electrical Service	Yes
	Description	Aux Transmitter Electrical Installation
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	30 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	1000.0 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

#### Auxiliary Transmitter

#### **Other Transmitter Cost Not Listed**

Name	Description
Site Survey	Transmitter site survey
Remote Control Wiring	Wire up existing remote control to new transmitter
Transmitter Installation Planning and Installation Drawings	Develop transmitter room layout. Prepare installation drawings
Transmitter Heat Exchanger Coolant Piping	Labor, access, wall coring and ceiling tile replacement required to install cooling line
Removal of Existing Equipment	Removal of Existing Equipment

Seismic Engineering	and Modifications
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Seismic engineering analysis and modifications to comply with SF requirements

#### 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	PWR60D2
	Year	2009
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 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	ULXTE-72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	47.2 kW
	Justification for New Transmitter	Re-tuning of existing transmitter not possible due to vendor unable to secure parts and perform retuning.

#### Primary Transmitter

#### **Other Transmitter Costs**

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

	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	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

#### Primary Transmitter

#### **Other Transmitter Cost Not Listed**

Name	Description
Removal of Existing Equipment	Removal of existing primary transmitter

#### **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	Retune Existing
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	Sutro Tower Inc.
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Elliptical
	Туре	Broadband Panel
	Number of Stations Supported	3
	Number of Panels	60
	Design power capacity in use	100.0 %

Lower Limit	500.00 MHz
Upper Limit	656.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	775.0 kW
Manufacturer	Dielectric
Model	TUM-C5SP- 14/60H-2-T- R
Year	2009

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

Facility ID	Call Sign
25452	KPIX-TV
58912	KPJK

#### Primary Antenna

#### **Adjustment to Existing Antenna**

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

#### Primary Antenna

#### **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	RF channel
	Frequency	N/A

## Enter a list of RF channel numbers.

RF Channel Number		
31		
27		
29		

#### Primary Antenna

#### **Other Antenna Cost Not Listed**

Name	Description
Sutro Tower Antenna and Combiner Monitor System	KTVU allocated costs for Sutro Tower Antenna and Combiner. Power Monitoring System. See Spreadsheet.
Sutro Tower Fees	Sutro Tower Fees associated with Aux Antenna System. See Spreadsheet

#### Auxiliary Antenna

#### **Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Auxiliary (Backup)
	Description of Use	Upper Aux Antenna Sutro
	Ownership	Leased
	Owner	Sutro Tower Inc.
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	Is the existing antenna directional?	Yes

	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Horizontal
	Туре	Broadband Panel
	Number of Stations Supported	3
	Number of Panels	40
	Design power capacity in use	100.0 %
	Lower Limit	500.00 MHz
	Upper Limit	656.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	428.0 kW
	Manufacturer	Dielectric
	Model	TUA-C4SP- 12/40U-1-S
	Year	2009

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

Facility ID	Call Sign
58912	KPJK
25452	KPIX-TV

#### Auxiliary Antenna

#### **Adjustment to Existing Antenna**

Response

Sweep Test of Existing	Do you need a sweep test of existing	Yes
Antenna	antenna?	

#### Auxiliary Antenna

#### **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	RF channel
	Frequency	N/A

## Enter a list of RF channel numbers.

RF Channel Number
31
27
29

#### Auxiliary Antenna

#### **Other Antenna Cost Not Listed**

Name	Description
Sutro Tower Fees	Sutro Tower Fees associated with Main Antenna. See Spreadsheet.

#### Interim Antenna

#### **New Antenna Costs**

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A

Change Type	Rent Temporary
Ownership	Leased
Owner	Peter Eckmann Broadcast Consultants, Inc.
Is antenna shared?	No
Is antenna directional?	Yes
Will antenna be located on or in close proximity to an antenna farm?	Yes
Class	Full Power
Mounting	Side Mount
Antenna position in stack	Not in Stack
Polarization	Horizontal
Туре	Broadband Panel
Number of Stations Supported	1
Number of Panels/Bays	12
Lower Limit	572.00 MHz
Upper Limit	578.00 MHz
Design power capacity in use	100.0 %
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	470.0 kW
Manufacturer	
Model	TUP-C3-4-1
Year	1999

**New Antenna** 

**Manufacturer and Type** 

Justification for New Antenna	This is a
	temporary
	leased
	antenna to
	allow KTVU
	to transition
	to its post-
	repack
	channel
	while the
	permanent
	antenna is
	being
	configured
	to support
	permanent
	operation.
	See
	attached
	Sutro Tower
	quote.

#### Interim Antenna

#### **Other Antenna Costs**

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	No

#### Interim Antenna

**Other Antenna Cost Not Listed** 

Information not provided.

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

#### Primary Transmission

#### **Existing Transmission Line**

Section 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	Manufacturer	Dielectric
Line Manufacturer and Type	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	120 feet per run

#### Primary Transmission

#### Other Transmission Line Expenses Not Listed

on Line Name	Description
RF Optimization	Optimize line from transmitter room to combiner input

#### Auxiliary Transmissio

#### **Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	Aux Line to Combiner
	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	Dielectric
Line Manufacturer and Type	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	120 feet per run

#### Other Transmission Line Expenses Not Listed

Auxiliary

Transmission Line

RF Optimization

Optimize transmission line from transmitter to combiner input

#### Interim

#### **New Transmission Line**

Transmission	Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
	Туре	Rigid	
		Diameter	6 1/8 inches
		Segment Length	20'
		Other Segment Length	
		Number of parallel runs	1
		Length	100 feet per run
	Justification for New Transmission Line	Interim facility to facilitate transitioning to repack channel until final facility is ready. See attached quotation	

from Sutro Tower.

Interim Other Transmission Line Expenses Not Listed

Transmission Line Description

2	Proadband	DE	Transformers
_	Broadband	ĸr	Transformers

# 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?	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?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure	Do you have a tower registration number?	Yes
Registration	ASR Number	1001289
Coordinates (NAD83 ( North American Datum of	Latitude (NAD83)	37° 45' 19.0" N-
1983))	Longitude (NAD83)	122° 27' 10.0" W-
	Overall Structure Height	976.69 fee
	Support Structure Height	779.85 feet
	Ground Elevation Above Mean Sea Level (AMSL)	833.98 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	SUTRO TOWER INC
Date Constructed	03/27/1998

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
58912	KPJK	DTV
51429	KFSF-DT	DTV
35703	KTVU	DTV
34470	KGO-TV	DTV
35500	KQED	DTV
69619	KBCW	DTV
71586	KCNS	DTV
25452	KPIX-TV	DTV
65526	KRON-TV	DTV

#### Other Types of Users

Users	
Multi User Site	

#### Primary Tower

#### **Tower Modification Costs**

Section	Question	Response
		•

Engineering Study	Please what type of engineering study is required, if any:	No study needed
Tower Reinforcements	Please select whether tower reinforcements are needed:	No 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
Sutro Tower Feasibility Studies	Fees for Sutro tower to conduct feasibility studies on repack. KTVU Allocated Costs. See Spreadsheet.
Sutro Tower Fees	Tower Mapping and analysis fees. KTVU Allocated costs. See Spreadsheet.

#### Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	850
	Explanation	Sutro Tower Project Management Fees. And KTVU Outside Project Manager for internal KTVU Facilities. See Spreadsheet.
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	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	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	Yes
	Quantity	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	Yes
	ASR Modification	No
	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	Yes

RF exposure measurements

Number of Days

Additional Field Engineering Service

Yes

Yes

20

Justification	RF
	Engineering
	Supervision
	of KTVU
	Transmitter
	and
	Combiner
	Installation
	projects.

#### Outside Professional

#### Other Professional Services Expenses Not Listed

I Services Costs	Description
Legal Fees - Local SF	KTVU Allocated share of local legal fees associated with City of SF. See Spreadsheet.
Prepare and File FCC Progress Report	Prepare and file FCC Quarterly Progress Reports See quote from vendor.

## 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	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	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
Sales Tax	Sutro Tower Estimated KTVU allocation of sales tax. See Spreadsheet.

## **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	\$1,502,022.00	\$1,161,647.30		\$1,161,647.30	
Removal of Existing Equipment	\$29,022.00	\$29,022.00	N/A	\$29,022.00	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,132,625.30	N/A	\$1,132,625.30	N/A
Auxiliary Transmitter ULXTE-30	\$2,084,468.99	\$2,082,068.99		\$1,686,883.40	
Transmitter Heat Exchanger Coolant Piping	\$65,863.00	\$65,863.00	N/A	\$53,775.00	N/A
Seismic Engineering and Modifications	\$26,230.00	\$26,230.00	Seismic Engineering Studies and Modifications to TX Room. See Spreadsheet.	N/A	N/A
Removal of Existing Equipment	\$35,000.00	\$35,000.00	Remove existing equipment - Aux	\$22,140.00	N/A

Transmitter Installation Planning and Installation Drawings	\$50,000.00	\$50,000.00	Transmitter Room layout planning and development of installation drawings. Detail Seismic anchors and transmission line attachments. 3-D Scanning of existing room and equipment layout. CAD layout of new equipment in room.	N/A	N/A
Remote Control Wiring	\$3,500.00	\$3,500.00	Wire up remote control to new aux transmitter	N/A	N/A
Site Survey	\$7,884.00	\$7,884.00	Site Survey required prior to transmitter install	\$0.00	N/A
Other HVAC Service Type: C Size:30 (Other)	\$499,656.80	\$499,656.80	Turnkey purchase and install of two 15 ton HVAC units. Includes HVAC, install, testing, disposal of old refrigerant. Also all necessary roofing and iron work.	\$499,656.80	See Wadleigh Group Inc PO 0419- 18 attached to all invoices. Cost includes all equipment, install, testing, disposal of old refrigerant, etc.

Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$35,000.00	Catalog	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$10,400.00	\$9,800.00	Catalog	N/A	N/A
Other Electrical Service: Aux Transmitter Electrical Installation	\$110,000.00	\$110,000.00	Electrical Installation of new Aux Transmitter at Sutro Tower. Estimate from Wadleigh	\$12,447.00	N/A
Other Building Addition Size: 1000.0	\$522,540.00	\$522,540.00	Transmitter room modifications. Includes electrical, demo, abatement. See Wadleigh Quotes attached to all invoices.	\$522,540.00	N/A
UHF - Liquid Cooled Solid State Transmitter 14 kW	\$716,595.19	\$716,595.19	GatesAir revised quote number Q- 74250 with tax added.	\$576,324.60	N/A
Sub-total	\$3,586,490.99	\$3,243,716.29	N/A	\$2,848,530.70	N/A
Total for all systems	\$8,184,789.49	\$7,368,788.79	N/A	\$3,081,857.06	N/A

#### Components

<b>Actual Information</b>	
Description	File Name

Removal of Existing			
Equipment	Component Description:	Removal of existing primary transmitter/de-	
	Amount:	install \$29,022.00	
UHF - Liquid Cooled Solid			
State Transmitter 35 - 50 kW	Component Description:	Primary Transmitter turnkey. Includes RF system, electrical, installation and proof, freight and	
	Amount:	CA tax. \$1,132,625.30	
Transmitter Heat Exchanger Coolant Piping	Component Description:	Labor, access,	
	Component Description.	wall coring, ceiling tile replacement required to install cooling line	
	Amount:	\$53,775.00	
Seismic Engineering and Modifications	Information not provided.		
Removal of Existing Equipment	Component Description:	Aux transmitter	
	Amount:	equipment removal \$22,140.00	
Transmitter Installation Planning and Installation Drawings	Information not provided.		
Remote Control Wiring	Information not provided.		
Site Survey	Component Description:	Transmitter Site	
	Amount:	Survey \$7,884.00	

Other HVAC Service			
Type: C Size:30 (Other)	Component Description:	Progress payment on HVAC. Turnkey purchase and	
	Amount:	install. \$213,317.38	
	Component Description:	Progress payment on turnkey HVAC purchase and install.	
	Amount:	\$146,986.22	
	Component Description:	Progress payment on turnkey install and purchase of HVAC.	
	Amount:	\$139,353.20	
Transformer 3 phase/480v - 300 KVA	Information not provided.		
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.		
Other Electrical Service: Aux Transmitter Electrical			
Installation	Component Description:	Electrical and lighting required for new	
		transmission space. New	
		transmitter room layout created	
		several dark spots with insufficient	
	Amount:	lighting. \$12,447.00	

Other -- Building Addition

Size: 1000.0

Component Description: Scaffold, demo,

abatement of old transmitter space

**Amount:** \$26,941.60

Component Description: Scaffold, demo,

abatement of old

transmitter space

**Amount:** \$58,510.00

**Component Description:** Progress payment

on electrical work required for new transmitter space.

**Amount:** \$152,980.94

**Component Description:** Progress payment

on electrical work for new transmitter

space.

**Amount:** \$144,239.17

Component Description: Progress payment

on electrical work required for new transmitter space.

**Amount:** \$139,868.29

UHF - Liquid Cooled Solid State Transmitter 14 kW

Component Description: New attachment

amount includes cover letter as requested by the reviewer. Auxiliary

Transmitter
GatesAir Inc 1/3
down payment

due.

**Amount:** \$217,786.60

Component Description: New attachment

includes a cover letter as requested

by receiver.
Auxiliary
Transmitter
ULXTE-30 1/3
payment due
before shipment
(2nd payment

made).

**Amount:** \$217,786.60

Component Description: Transmitter-

Balance due on Shipments to date

**Amount:** \$140,751.40

## **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 TUP-C3-4-1	\$305,000.00	\$36,500.00		\$0.00	
UHF – Broadband Panel, Side Mount Auxiliary /Interim, 470 horizontally polarized	\$0.00	\$0.00	N/A	N/A	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$0.00	N/A	N/A	N/A
Interim antenna rental and installation - Cost will depend on antenna size and height and /or complexity of tower.	\$115,500.00	\$36,500.00	See attached Sutro Tower quote	N/A	N/A

Primary Antenna TUM-C5SP- 14/60H-2-T- R	\$414,515.00	\$556,525.00		\$0.00	
Sutro Tower Fees	\$82,500.00	\$82,500.00	Sutro Tower Project Fees. See Spreadsheet.	N/A	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	Catalog	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$13,000.00	Catalog	N/A	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$120,000.00	Catalog	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$233,500.00	Sutro Tower Estimate for KTVU Allocated costs for new Main Antenna combiner System	N/A	N/A

Sutro Tower Antenna and Combiner Monitor System	\$96,125.00	\$96,125.00	Sutro Tower - KTVU allocated cost for antenna /combiner monitoring system. See Spreadsheet.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Catalog	N/A	N/A
Auxiliary Antenna TUA-C4SP- 12/40U-1-S	\$235,890.00	\$252,400.00		\$0.00	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	Catalog	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$13,000.00	Catalog	N/A	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$120,000.00	Catalog	N/A	N/A

New combiner, cost per channel (without antenna)	\$84,200.00	\$108,000.00	Sutro Tower - KTVU Allocated cost esimate for Aux Antenna Combiner System.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Catalog	N/A	N/A
Sutro Tower Fees	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$955,405.00	\$845,425.00	N/A	\$0.00	N/A
Total for all systems	\$8,184,789.49	\$7,368,788.79	N/A	\$3,081,857.06	N/A

Information not provided.

### **Cost Information**

#### **Transmission Line**

			Estimated		
Description	Predetermined Cost Estimate	Estimated Cost	Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$24,822.00	\$67,622.00		\$0.00	
Transformers	\$4,622.00	\$4,622.00	See attached Sutro Tower quote	N/A	N/A
Rigid Transmission Line - copper, 6 1/8"	\$20,200.00	\$63,000.00	See attached Sutro Tower quote	N/A	N/A
Primary Transmission Line	\$18,000.00	\$18,000.00		\$0.00	
RF Optimization	\$18,000.00	\$18,000.00	Optimization of line from transmitter to combiner	N/A	N/A
Auxiliary Transmission Line	\$18,000.00	\$18,000.00		\$0.00	
RF Optimization	\$18,000.00	\$18,000.00	Optimization of transmission line from transmitter to aux combiner input.	N/A	N/A
Sub-total	\$60,822.00	\$103,622.00	N/A	\$0.00	N/A
Total for all systems	\$8,184,789.49	\$7,368,788.79	N/A	\$3,081,857.06	N/A

Information not provided.

### **Cost Information**

#### **Tower Equipment and Rigging Costs**

Description Primary Tower TOWER	Predetermined Cost Estimate \$2,559,225.00	Estimated Cost \$2,138,225.00	Estimated Cost Justification	Actual Cost \$129,868.04	Actual Cost Justification
Sutro Tower Feasibility Studies	\$0.00	\$0.00	Sutro Tower - KTVU Allocated costs for initial repack feasibility studies for Sutro Tower. See Spreadsheet. Included in the Sutro Tower Fees line.	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$0.00	N/A	N/A	N/A

Sutro Tower Fees	\$2,138,225.00	\$2,138,225.00	Sutro Tower	\$129,868.04	1.) subtotal overstated
rees			Allocated		by Invoices
			costs for		7959, 8009
			tower		8058 and
			mapping.		8063.
			See		Revised
			Spreadsheet.		inv's
			Revised		submitted
			based on		totaling
			current cost		\$166,640.65
			estimates		Previous
			oominatee .		submission
					of invoices
					totaling
					\$166,652.49
					needs to be
					deleted. 2.)
					Revised nev
					cost
					estimate
					\$250,000
Sub-total	\$2,559,225.00	\$2,138,225.00	N/A	\$129,868.04	N/A
Total for all systems	\$8,184,789.49	\$7,368,788.79	N/A	\$3,081,857.06	N/A

Actual Information Description	File Name	
Sutro Tower Feasibility Studies	Information not provided.	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	
Sutro Tower Fees	Component Description:	KTVU Share of Sutro Tower repack project.
	Amount:	\$126,115.75

Component Description: KTVU portion of

repack costs- 4th invoice received

/paid.

**Amount:** \$22,267.36

Component Description: KTVU portion of

repack costs- 6th invoice received

/paid.

**Amount:** \$11,029.25

Component Description: Shared Spectrum

repacking Costsrevised \$ amount and supporting invoice (Osborn Engineering) per

request of reviewer

**Amount:** \$14,930.20

Component Description: Shared Spectrum

repacking Costsrevised with supporting

invoices (KGA and Cooper White and Cooper) per request of reviewer.

**Amount:** \$3,339.18

Component Description: KTVU portion of

repack costs- 2nd invoice received. Resubmitted per reviewer to include correct amount (3,339.18 vs 3,477.14).

**Amount:** \$3,339.18

Component Description: Shared Spectrum

repacking Costsrevised \$ amount and supporting invoices per request of reviewer.

**Amount:** \$22,255.52

Component Description: Shared Spectrum

repacking Costs

**Amount:** \$13,849.68

Component Description: KTVU portion of

repack costs- 1st invoice received. Updated per reviewer to include correct amount on the

invoice

(126,115.75 vs. 126,198.84)

**Amount:** \$126,115.75

Component Description: Shared Spectrum

repacking Costsrevised invoice date and Osborn Engineering quote

for fixed fee portion of invoice along with along with remaining 69 invoices and support per request of reviewer.

**Amount:** \$126,115.75

**Component Description: Shared Spectrum** 

repacking Costs

\$19,908.51 Amount:

**Component Description:** KTVU portion of

> repack costs- 3rd invoice received

/paid.

Resubmitted per reviewer's request to correct \$ amt (14,930.20 vs 14,930.25) and include hours and rates per resource of Cooper White and Cooper invoice (see page

30 of attachment)

**Amount:** \$14,930.20

**Component Description:** KTVU portion of

> repack costs-7th invoice received

/paid.

**Amount:** \$3,752.29

**Component Description:** KTVU portion of

> repack costs-5th invoice received

/paid.

Resubmitted per reviewer for correct amt (3,551.50 vs. 3,554.46)

**Amount:** \$3,551.50

### **Cost Information**

#### **Outside Professional Services**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co Justificati
Outside Professional Services	\$385,809.50	\$400,944.50		\$80,667.32	
Additional Field Engineering Service, 20 Days	\$31,800.00	\$31,800.00	RF Engineer on site supervision of transmitter, transmission line, and combiner installations. See attached quote.	\$16,500.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	Catalog	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	Catalog	\$7,884.00	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,000.00	Catalog	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	Catalog	N/A	N/A

Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$30,000.00	Legal Fees for Modification of lease with Sutro Tower for new channels, new combiner.	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	Catalog	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	Catalog	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	Catalog	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	Catalog	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	Catalog	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	Catalog	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	Catalog	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	Catalog	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	Catalog	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$7,500.00	SFO Market / Daisy Chain Coordination for Testing and Transition Dates.	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	Catalog	N/A	N/A

Project management of the transition	\$134,300.00	\$127,500.00	Outside Project Management of transition of main and aux facilities.	\$56,283.32	N/A
Prepare and File FCC Progress Report	\$32,727.50	\$32,727.50	Prepare and file FCC Progress Reports Quarterly. See quote attached.	N/A	N/A
Legal Fees - Local SF	\$22,667.00	\$22,667.00	Sutro Tower - Estimated KTVU Allocated costs - local legal fees. See Spreadsheet.	N/A	N/A
Sub-total	\$385,809.50	\$400,944.50	N/A	\$80,667.32	N/A
Total for all systems	\$8,184,789.49	\$7,368,788.79	N/A	\$3,081,857.06	N/A

Actual Information Description	File Name	
Additional Field Engineering Service, 20 Days	Component Description: Amount:	RF engineering \$16,500.00
RF Exposure Measurements	Information not provided.	
Comprehensive coverage verification via field study, if needed	Component Description: Amount:	Site Survey \$7,884.00

Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	Component Description:	Project Management through 3/30/18. Progress payment on Transmission Space Alt Project Mmgt (quote included).
	Amount:	\$3,028.43
	Component Description:	Project Management services thru 7/27 /18
	Amount:	\$130.08
	Component Description:	Project Management/RF Consulting 1/1/19 - 12/31/19
	Amount:	\$6,110.00
	Component Description:	Project Management/RF Consulting 1/1/18 - 3/4/18
	Amount:	\$21,326.25

	Component Description:  Amount:	Project Management 1/1 /18 - 12/31/18 \$25,027.50
	Component Description:	Project Management services thru 3/30 /18
	Amount:	\$3,028.43
	Component Description:	Project Management services thru 4/27 /18
	Amount:	\$16,715.70
	Component Description:	Project Management services thru 6/29 /18
	Amount:	\$661.06
Prepare and File FCC Progress Report	Information not provided.	
Legal Fees - Local SF	Information not provided.	

### **Cost Information**

#### **Other Expenses**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos
Other Expenses	\$637,037.00	\$636,856.00		\$22,791.00	
Sales Tax	\$284,178.00	\$284,178.00	Sutro Tower and KTVU Estimate of KTVU Allocated Sales Tax and KTVU sales tax paid on its equipment purchases. See two attached Spreadsheets. Must add both together.	N/A	N/A
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$1,500.00	\$1,500.00	N/A	N/A	N/A
Equipment Storage	\$15,000.00	\$15,000.00	Off Site Storage of KTVU equipment until ready on site.	N/A	N/A

Equipment Delivery and Handling Charges	\$78,469.00	\$78,469.00	Sutro Tower Estimate of KTVU allocated costs for equipment delivery, storage, and handling of combiner. See Spreadsheet.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$11,367.00	\$11,367.00	Sutro Tower Estimate of KTVU Allocated costs for equipment removal / Disposal Combiner	\$11,367.00	N/A
Non-zoning permits	\$183,333.00	\$183,333.00	Sutro Tower Estimate of KTVU Allocated costs for building Permits. See Spreadsheet.	N/A	N/A
Local Zoning	\$45,000.00	\$45,000.00	Sutro Tower - Estimate of KTVU allocated costs for Zoning approvals.	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	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

FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,424.00	N/A	\$11,424.00	N/A
Sub-total	\$637,037.00	\$636,856.00	N/A	\$22,791.00	N/A
Total for all systems	\$8,184,789.49	\$7,368,788.79	N/A	\$3,081,857.06	N/A

Actual Information Description	File Name	
Sales Tax	Information not provided.	
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	Transfer and disposal of glycol and mineral oil. \$11,367.00
Non-zoning permits	Information not provided.	
Local Zoning	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	

FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
DTV Medical Facility Notification	Component Description:	DTV Notification of medical facilities
	Amount:	\$11,424.00

## Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$8,184,789.49	\$7,368,788.79	\$3,081,857.06

Reimbursem	entestiatus	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. Angelo Servedio SVP Controller

11/30/2020

Section Question Response

# Submission of Actual Cost Documentation Statements

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

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

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

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

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Angelo Servedio SVP Controller

11/30/2020

#### **Attachments**