



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **58912** | Service: **DTX** | Call **KCSM-TV** | Channel: **27 (UHF)** |  
ID: | Sign:  
File **0000028092**  
Number:  
FRN: **0004367397** | Date **04/09**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT</b> Doing Business As: SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT	KCSM - TV 1700 W HILLSDALE BLVD SAN MATEO, CA 94402 United States	+1 (650) 524-6908	michele_muller@kcsml.net	Not-for-Profit

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>Michele Muller</b> <i>Station Manager</i> <i>KCSM-TV</i>	Michele Muller 1700 W Hillside Blvd San Mateo, CA 94402 United States	+1 (650) 524-6908	michele_muller@kcsml.net

**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	As is done currently we will share the Sutro Facility several stations. At the conclusion of repacking, three TV stations, KCSM, KTUV, and KPIX, will share the combiner, tower, antenna and transmission lines associated with Antenna Stack A.

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase 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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	Diamond
	Year	2003
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	19.2 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?	No
	Manufacturer	
	Model	Maxiva ULXTE 30
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	19.2 kW
	Justification for New Transmitter	Letter from Gates says:" GatesAir will no longer offer analog to digital conversions, channel change services, or support in field channel changes on the following transmitters: ... Diamond CD."

**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	Yes
	Size	2 inches
	Length	150.0 feet
	Other Electrical Service	Yes
	Description	Add switch gear, circuits to main panel, add breakers, to transformer. Add lines to new transmitter and cooling system as required by Gates Air.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	500.0 square feet
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary  
Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
<b>Sutro Tower removal and disposal</b>	Removal and disposal of shared equipment and infrastructure
<b>fork lift rental</b>	rental of forklift for construction for use at the facility
<b>RF switching</b>	Allows switching between load aux antenna and main antenna- must have for Sutro's control system
<b>seismic kit</b>	Required by California State law all rack must have seismic mounting
<b>redundant exciter switchover</b>	KCSM has two exciters with a switch over device
<b>seismic installation</b>	using seismic kit provided by Gates contractor installation as required by law for KCSM Transmitter
<b>removal and disposal</b>	KCSM transmitter removal and disposal

**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
	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	Side Mount
	Antenna position in stack	Middle
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	3
	Number of Panels	40
	Design power capacity in use	80.0 %
	Lower Limit	470.00 MHz

Upper Limit	689.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power) .....	80.0 kW
Manufacturer	dielectric
Model	tum-c5sp-14 /60h-2-t-r
Year	2003

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

Facility ID	Call Sign
25452	kpix-tv
35500	kqed
35703	ktvu
71586	kcns

**Primary  
Antenna**

**Adjustment to Existing Antenna**

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

**Primary  
Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	3
	Frequencies of channels supported	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
remove and replace switches	Remove and replace 6 inch switches for shared combiner
reconnect lines	connect lines to shared combiner
removal and disposal	remove and dispose of shared old combiner and transmission line
complex RF testing	Complex RF testing to verify operation of shared combiner
Transmission line and switch	transmission line and switch for shared combiner
xray core drill patch	xray and drill for transmission lines and fill old holes for shared combiner location

**Auxiliary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Auxiliary (Backup)
	Description of Use	Back up antenna
	Ownership	Leased
	Owner	Sutro

	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Middle
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	5
	Number of Panels	40
	Design power capacity in use	80.0 %
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	80.0 kW
	Manufacturer	Dielectric
	Model	tua-c4sp-12 /40u-1-s
	Year	2007

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

Facility ID	Call Sign
25452	kpix-tv

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35703ktvu

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**Auxiliary  
Antenna****Adjustment to Existing Antenna**

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

**Auxiliary  
Antenna****Other Antenna Costs**

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	3
	Frequencies of channels supported	RF channel
	Frequency	N/A

**Enter a list of RF channel numbers.**

**RF Channel Number**

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27

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29

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31

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**Auxiliary  
Antenna****Other Antenna Cost Not Listed**

Name	Description
<b>Remove old combiner line</b>	Remove old shared combiner lines
<b>Complex testing</b>	Complex testing to verify operation
<b>Remove and Replace switches</b>	Remove and replace 6 inch switches for shared combiner

<b>xray core drill patch</b>	xray and drill holes for transmission line for shared combiner. Fill old holes.
<b>Reconnect lines</b>	reconnect lines to shared combiner
<b>Remove old combiner</b>	Remove old shared combiner
<b>transmission line kit</b>	transmission line kit for shared combiner

**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	Leased
	Owner	Sutro Tower
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	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	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	400 feet per run

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

Facility ID	Call Sign
69619	kbcw
25452	kpix-tv
35500	kqed
35703	ktvu
71586	kcns

Primary  
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
retuning transmission line	Transmission line will require retuning for new channel. this cost is for existing transmission line to shared antennas

Auxiliary  
Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	Line to Backup antenna
	Ownership	Leased
	Owner	Sutro Tower
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid

Diameter	8 3/16 inches
Other Diameter	N/A
Segment Length	Broadband
Other Segment Length	N/A
Number of parallel runs	1
Length	400 feet per run

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

Facility ID	Call Sign
25452	kpix-tv
35500	kqed
35703	ktvu
69619	kbcw
71586	kcns

**Auxiliary Transmission Line** **Other Transmission Line Expenses Not Listed**

Name	Description
retuning transmission line	transmission line will require retuning for new channel

**Tower  
Equipment  
And  
Rigging  
Costs**

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	No

**Outside  
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	100
	Explanation	Project management is needed to coordinate between Sutro vendors, the transmitter vendor and the College District. The College District will be involved to make sure construction meets or exceeds state and local standards.
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	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	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	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	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	Yes

<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

**Outside Professional Services Costs**

**Other Professional Services Expenses Not Listed**

<b>Name</b>	<b>Description</b>
<b>Tower mapping</b>	Tower mapping
<b>Alternative site study</b>	A study done by Sutro to investigate other locations should SF not approve permit
<b>Architectural plans</b>	Architectural plans of Sutro Tower building used to submit building plans for permit
<b>Licensee board legal support</b>	Station Licensee is governed by a publicly elected board without expertise in broadcast matters and must adhere to procurement laws; needs external legal support
<b>Neighborhood survey</b>	Sutro to conduct a Neighborhood Survey for permit
<b>Building permit</b>	Sutro building permit costs for SF permitting process
<b>Post-assignment study</b>	Sutro study to see how each channel would fit best on the existing tower and how to distribute them to the existing antennas
<b>Preliminary repacking study</b>	Sutro study done to prep for repacking stations
<b>Station consultant</b>	Limited station staff is working to keep the station on the air and needs substantial outside assistance working specifically on KCSM issues in repacking
<b>Sutro Project management</b>	Project management for all work on the tower and related facilities

<b>Legal fees - Sutro repack project</b>	Legal fees by Sutro for repacking project
<b>Pemit public relations</b>	Cost to share the permitting information with the SF public

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
<b>Permit and Filing Costs</b>	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other  
Expenses**

**Other Expenses Not Listed**

Name	Description
<b>Contractor project costs</b>	Costs for construction company to manage the trades work at Sutro
<b>Sales tax</b>	Sales tax for all Sutro items and KCSM equipment tax
<b>VSWR monitor</b>	VSWR monitor and Tower worker lockout system
<b>KCSM Space drawing</b>	Costs for Osborn Eng to modify the existing plans to reflect the new construction for repacking
<b>RF exposure</b>	RF exposure measurements internal to the facility

## 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
<b>Primary Transmitter Maxiva ULXTE 30</b>	<b>\$1,006,130.68</b>	<b>\$1,450,711.04</b>		<b>\$255,926.79</b>	
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$767,780.36	This is the cost estimate after the site survey	\$255,926.79	After the site Survey, the cost of the transmitter will be 767780.36
fork lift rental	<i>\$25,636.00</i>	\$25,636.00	N/A	N/A	N/A
Sutro Tower removal and disposal	<i>\$8,333.00</i>	\$8,333.00	N/A	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$3,900.00	\$3,750.00	N/A	N/A	N/A

Other Electrical Service: Add switch gear, circuits to main panel, add breakers, to transformer. Add lines to new transmitter and cooling system as required by Gates Air.	<b>\$150,000.00</b>	\$150,000.00	Add switch gear, circuits to main panel, add breakers, to transformer. Add lines to new transmitter and cooling system as required by Gates Air	N/A	N/A
5 Ton system	\$20,250.00	\$381,200.00	The current HVAC system is an air cooled system. It takes a large portion of the room. In order to operate both stations for the testing time, the existing system will have to be modified to let the transmitter and liquid cooling be installed	N/A	N/A

Other -- Building Addition Size: 500.0	<b>\$24,260.00</b>	\$24,260.00	Demolition of existing infrastructure to be improved, Fire stop penetrations in our tenant space. Paint spaces that have been impacted by this work	N/A	N/A
removal and disposal	<b>\$37,905.00</b>	\$37,905.00	Gates air included this in their quote to us. Sutro Tower is a complicated site with little space to temporarily store item for disposal, requiring an almost daily removal of items. This is KCSM cost for disposal	N/A	N/A
redundant exciter switchover	<b>\$17,250.00</b>	\$17,250.00	N/A	N/A	N/A
seismic installation	<b>\$9,300.00</b>	\$9,300.00	Seismic installation as quoted by Wadleigh contruction	N/A	N/A
RF switching	<b>\$22,028.43</b>	\$22,028.43	N/A	N/A	N/A
seismic kit	<b>\$3,268.25</b>	\$3,268.25	required in the state of California Cost of kit from Gates	N/A	N/A



<b>Sub-total</b>	\$1,006,130.68	\$1,450,711.04	N/A	\$255,926.79	N/A
<b>Total for all systems</b>	\$2,710,818.68	\$3,090,784.04	N/A	\$510,554.23	N/A

## Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<p><b>Component Description:</b> cost for site survey paid via credit card</p> <p><b>Amount:</b> \$3,162.00</p> <p><b>Component Description:</b> 1/3 down payment</p> <p><b>Amount:</b> \$255,926.79</p>
fork lift rental	Information not provided.
Sutro Tower removal and disposal	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Other Electrical Service: Add switch gear, circuits to main panel, add breakers, to transformer. Add lines to new transmitter and cooling system as required by Gates Air.	Information not provided.
5 Ton system	Information not provided.
Other -- Building Addition Size: 500.0	Information not provided.
removal and disposal	Information not provided.
redundant exciter switchover	Information not provided.
seismic installation	Information not provided.
RF switching	Information not provided.

seismic kit	Information not provided.
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## 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
<b>Primary Antenna tum-c5sp-14 /60h-2-t-r</b>	<b>\$192,327.00</b>	<b>\$164,657.00</b>		<b>\$6,710.91</b>	
Tranmission line and switch	<i>\$35,147.00</i>	\$35,147.00	N/A	\$6,710.91	N/A
removal and disposal	<i>\$12,240.00</i>	\$12,240.00	Removal of old combiner and transmission lines for the shared system	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - High Power, Side Mount, broadband panel, 40 bay,, 80 kW input, directional,, horizontally polarized	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$56,860.00	Combiner costs and installation	N/A	N/A

remove and replace switches	<b>\$6,120.00</b>	\$6,120.00	N/A	N/A	N/A
reconnect lines	<b>\$18,360.00</b>	\$18,360.00	N/A	N/A	N/A
complex RF testing	<b>\$18,360.00</b>	\$18,360.00	N/A	N/A	N/A
xray core drill patch	<b>\$11,170.00</b>	\$11,170.00	Core drill Holes. Fill holes in floor and walls.	N/A	N/A
<b>Auxiliary Antenna tua-c4sp-12/40u-1-s</b>	<b>\$186,509.00</b>	<b>\$149,659.00</b>		<b>\$0.00</b>	
transmission line kit	<b>\$46,453.00</b>	\$46,453.00	N/A	N/A	N/A
Remove old combiner	<b>\$6,120.00</b>	\$6,120.00	N/A	N/A	N/A
Reconnect lines	<b>\$9,180.00</b>	\$9,180.00	N/A	N/A	N/A
xray core drill patch	<b>\$12,406.00</b>	\$12,406.00	N/A	N/A	N/A
Remove and Replace switches	<b>\$6,120.00</b>	\$6,120.00	N/A	N/A	N/A
UHF – Broadband Panel, Side Mount Auxiliary /Interim, 80 horizontally polarized	<b>\$0.00</b>	\$0.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A

New combiner, cost per channel (without antenna)	\$84,200.00	\$47,680.00	Purchase and Install shared combiner	N/A	N/A
Remove old combiner line	<b>\$6,120.00</b>	\$6,120.00	N/A	N/A	N/A
Complex testing	<b>\$9,180.00</b>	\$9,180.00	N/A	N/A	N/A
<b>Sub-total</b>	\$378,836.00	\$314,316.00	N/A	\$6,710.91	N/A
<b>Total for all systems</b>	\$2,710,818.68	\$3,090,784.04	N/A	\$510,554.23	N/A

## Components

Actual Information	
Description	File Name
Transmission line and switch	<p><b>Component Description:</b> transmission line components</p> <p><b>Amount:</b> \$4,241.91</p> <p><b>Component Description:</b> Sutro Towere Transmission line parts for the combiner</p> <p><b>Amount:</b> \$4,249.73</p> <p><b>Component Description:</b> Cost of reconfiguring the combiners</p> <p><b>Amount:</b> \$2,469.00</p>
removal and disposal	Information not provided.
Sweep test of existing antenna	Information not provided.

UHF - High Power, Side Mount, broadband panel, 40 bay,, 80 kW input, directional,, horizontally polarized	Information not provided.
New combiner, cost per channel (without antenna)	Information not provided.
remove and replace switches	Information not provided.
reconnect lines	Information not provided.
complex RF testing	Information not provided.
xray core drill patch	Information not provided.
transmission line kit	Information not provided.
Remove old combiner	Information not provided.
Reconnect lines	Information not provided.
xray core drill patch	Information not provided.
Remove and Replace switches	Information not provided.
UHF – Broadband Panel, Side Mount Auxiliary /Interim, 80 horizontally polarized	Information not provided.
Sweep test of existing antenna	Information not provided.
New combiner, cost per channel (without antenna)	Information not provided.
Remove old combiner line	Information not provided.
Complex testing	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
Primary Transmission Line	\$63,000.00	\$63,000.00		\$0.00	
retuning transmission line	<i>\$63,000.00</i>	\$63,000.00	This cost is for retuning both main and aux transmission lines 1190 ft of transmission lline	N/A	N/A
Auxiliary Transmission Line	\$0.00	\$0.00		\$0.00	
retuning transmission line	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Sub-total	\$63,000.00	\$63,000.00	N/A	\$0.00	N/A
Total for all systems	\$2,710,818.68	\$3,090,784.04	N/A	\$510,554.23	N/A

Components

Information not provided.

Cost Information

Tower Equipment and Rigging Costs

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	\$719,177.00	\$721,272.00		\$247,916.53	
P permit public relations	\$19,108.00	\$19,108.00	N/A	\$1,225.00	N/A
Legal fees - Sutro repack project	\$22,667.00	\$22,667.00	KCSM's portion of Sutro Tower's legal fees	\$17,857.57	N/A
Sutro Project management	\$82,500.00	\$82,500.00	Sutro management of the projects on the tower and in the facility that is not managed by the lessee; based on estimates from Sutro; in addition to KCSM outside project management	\$8,536.73	N/A



Station consultant	<b>\$40,000.00</b>	\$40,000.00	Additional support is needed to manage the repacking project and work with the staff as they keep the existing facility operational	\$6,587.52	N/A
Preliminary repacking study	<b>\$24,482.00</b>	\$24,482.00	Study made before the stations were determined to see how to best use what was existing, and its operational standing.	\$24,570.09	Due to the anticipated channels not being the same as the repacked channels there was additional rework that needed to be done
Post-assignment study	<b>\$15,563.00</b>	\$15,563.00	This cost is for the study to determine best use of the existing stations after the auction was complete. This is KCSM's portion of that study	\$4,166.66	N/A
Building permit	<b>\$183,333.00</b>	\$183,333.00	This represents KCSM portion of the building permit costs in San Francisco	\$28,580.74	N/A

Neighborhood survey	<b>\$3,333.00</b>	\$3,333.00	Perform a survey of the neighbors to submit with the permit application	N/A	N/A
Licensee board legal support	<b>\$40,000.00</b>	\$40,000.00	Licensee is owned by a community college district with a publicly elected board that does not have expertise in broadcasting matters. Because of large expenditures, Board will require ongoing engagement with outside counsel.	\$48,707.00	The College board required more expertise and ongoing support than expected.
Architectural plans	<b>\$56,040.00</b>	\$56,040.00	Create existing facility plans for the permit process. This is KCSM's portion of the costs	\$31,253.05	N/A
Alternative site study	<b>\$58,619.00</b>	\$58,619.00	study to see if there would be an alternative site if SF does not approve permit for this project	\$64,691.12	The costs for this study exceeded the estimate as it took longer than expected
Tower mapping	<b>\$13,877.00</b>	\$13,877.00	N/A	\$3,741.05	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	\$75,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	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
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	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	\$0.00	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	\$0.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$15,800.00	\$15,000.00	College District Construction and Planning department will need to verify that construction is done to state law and education code.	N/A	N/A

Prepare and or review reimbursement form	\$2,630.00	\$15,000.00	Final costs TBD (all invoices not yet received); form has required many meetings, telecons, and extensive review and coordination by legal counsel and outside project manager because of complexity of Sutro site	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$7,000.00	The firm was extremely busy and charged a higher price than expected
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$6,000.00	Hammet and Edison charge for Study and preparation of form 2100 was \$13000 in total (\$7000 for the channel study and the balance here)	\$1,000.00	N/A
<b>Sub-total</b>	\$719,177.00	\$721,272.00	N/A	\$247,916.53	N/A
<b>Total for all systems</b>	\$2,710,818.68	\$3,090,784.04	N/A	\$510,554.23	N/A

## Components

Actual Information	
Description	File Name
Pemit public relations	<b>Component Description:</b> Public Relations <b>Amount:</b> \$237.50
	<b>Component Description:</b> public relations for building permit <b>Amount:</b> \$516.50
	<b>Component Description:</b> public relations <b>Amount:</b> \$516.49
	<b>Component Description:</b> public relations for Sutro tower permit process <b>Amount:</b> \$212.50
	<b>Component Description:</b> Permit public relations <b>Amount:</b> \$62.50
	<b>Component Description:</b> Public Relations for permit <b>Amount:</b> \$712.50
	<b>Component Description:</b> Public relations for SF permit process <b>Amount:</b> \$237.50

Legal fees - Sutro repack project	<b>Component Description:</b>	legal fees
	<b>Amount:</b>	\$12,651.89
	<b>Component Description:</b>	legal services for multi-station proj
	<b>Amount:</b>	\$100.54
	<b>Component Description:</b>	Legal Fees
	<b>Amount:</b>	\$100.54
	<b>Component Description:</b>	Legal fees
	<b>Amount:</b>	\$283.49
	<b>Component Description:</b>	Legal fees for multi station repacking project
	<b>Amount:</b>	\$537.94
	<b>Component Description:</b>	Legal fees for multi channel repacking
	<b>Amount:</b>	\$2,001.97
	<b>Component Description:</b>	Sutro legal fee for repacking project
	<b>Amount:</b>	\$2,281.74
	<b>Component Description:</b>	Sutro Tower multi station legal costs
	<b>Amount:</b>	\$12,651.94
	<b>Component Description:</b>	multi station legal costs
	<b>Amount:</b>	\$283.50
Sutro Project management		

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$5,240.62

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$146.87

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$125.00

<b>Component Description:</b>	Sutro Tower Project management
<b>Amount:</b>	\$889.58

<b>Component Description:</b>	Sutro Tower Project management
<b>Amount:</b>	\$1,396.42

<b>Component Description:</b>	Sutro tower project management
<b>Amount:</b>	\$738.24

<b>Component Description:</b>	Sutro Tower Project Management
<b>Amount:</b>	\$5,315.63

<b>Component Description:</b>	Sutro Proj. management
<b>Amount:</b>	\$125.00



	<b>Component Description:</b> Sutro project management <b>Amount:</b> \$146.87
Station consultant	<b>Component Description:</b> Station Consultant for repacking <b>Amount:</b> \$2,943.36  <b>Component Description:</b> Station Consultant for repacking <b>Amount:</b> \$3,644.16  <b>Component Description:</b> Consulting work <b>Amount:</b> \$3,504.00  <b>Component Description:</b> Station Consultant for repacking <b>Amount:</b> \$3,036.80
Preliminary repacking study	<b>Component Description:</b> Repack Study <b>Amount:</b> \$24,570.09  <b>Component Description:</b> Preliminary study for repacking planning <b>Amount:</b> \$24,570.11

Post-assignment study		
	<b>Component Description:</b>	Post Assignment Study
	<b>Amount:</b>	\$3,890.83
	<b>Component Description:</b>	Post assignment antenna study
	<b>Amount:</b>	\$275.83
	<b>Component Description:</b>	Preliminary study for channels left on Sutro Tower. Channels changed from the expected channels, so the cost is slightly higher than estimated.
	<b>Amount:</b>	\$3,890.83

Building permit	<b>Component Description:</b> <b>Amount:</b>	starting the building permit process with San Francisco \$10,478.17
	<b>Component Description:</b> <b>Amount:</b>	Building permit \$10,478.13
	<b>Component Description:</b> <b>Amount:</b>	building permit work \$197.84
	<b>Component Description:</b> <b>Amount:</b>	Building permit \$197.83
	<b>Component Description:</b> <b>Amount:</b>	Building permit \$705.37
	<b>Component Description:</b> <b>Amount:</b>	Building permits SF \$4,666.94
	<b>Component Description:</b> <b>Amount:</b>	Building permit process continuing \$2,054.30
	<b>Component Description:</b> <b>Amount:</b>	Building permit costs \$705.37
Neighborhood survey	Information not provided.	

Licensee board legal support		
	<b>Component Description:</b>	Legal fees for consulting the College board on how to navigate the repacking
	<b>Amount:</b>	\$20,082.00
	<b>Component Description:</b>	Legal fees for consulting the College board on how to navigate the repacking
	<b>Amount:</b>	\$17,359.00
	<b>Component Description:</b>	Legal fees for consulting the College board on how to navigate the repacking
	<b>Amount:</b>	\$11,266.00

Architectural plans	<b>Component Description:</b>	Architectural plans
	<b>Amount:</b>	\$10,067.50
	<b>Component Description:</b>	Arch. Plans
	<b>Amount:</b>	\$10,067.49
	<b>Component Description:</b>	Arch. Plans
	<b>Amount:</b>	\$2,285.23
	<b>Component Description:</b>	Tower mapping work
	<b>Amount:</b>	\$2,288.17
	<b>Component Description:</b>	Architectural plans
	<b>Amount:</b>	\$8,439.89
	<b>Component Description:</b>	Begin making architectural plans of the Sutro facility
	<b>Amount:</b>	\$10,460.44
Alternative site study	<b>Component Description:</b>	Alternative site planning
	<b>Amount:</b>	\$64,691.12
	<b>Component Description:</b>	Sutro Tower initiated a study for an alternative site location if Sutro Tower could not be used.
	<b>Amount:</b>	\$64,691.26

Tower mapping	<b>Component Description:</b> tower mapping <b>Amount:</b> \$152.41
	<b>Component Description:</b> tower mapping <b>Amount:</b> \$113.66
	<b>Component Description:</b> tower mapping <b>Amount:</b> \$152.42
	<b>Component Description:</b> Tower mapping <b>Amount:</b> \$118.83
	<b>Component Description:</b> Tower mapping for Sutro Tower <b>Amount:</b> \$113.67
	<b>Component Description:</b> Tower mapping <b>Amount:</b> \$268.67
	<b>Component Description:</b> Tower mapping <b>Amount:</b> \$3,087.48
RF Exposure Measurements	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	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	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> H &amp; E preparing eng portion of 2100  \$1,000.00 </div> </div>
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Project management of the transition	Information not provided.
Prepare and or review reimbursement form	Information not provided.

Perform engineering study for new channel assignment and antenna development	<table> <tr> <td data-bbox="713 174 1023 210"><b>Component Description:</b></td><td data-bbox="1155 174 1362 324">This invoice is for the channel study and filling out the form 2100</td></tr> <tr> <td data-bbox="713 338 823 367"><b>Amount:</b></td><td data-bbox="1155 338 1273 367">\$7,000.00</td></tr> <tr> <td data-bbox="713 477 1023 512"><b>Component Description:</b></td><td data-bbox="1155 477 1362 546">channel study for channel 27</td></tr> <tr> <td data-bbox="713 560 823 589"><b>Amount:</b></td><td data-bbox="1155 560 1273 589">\$7,000.00</td></tr> </table>	<b>Component Description:</b>	This invoice is for the channel study and filling out the form 2100	<b>Amount:</b>	\$7,000.00	<b>Component Description:</b>	channel study for channel 27	<b>Amount:</b>	\$7,000.00
<b>Component Description:</b>	This invoice is for the channel study and filling out the form 2100								
<b>Amount:</b>	\$7,000.00								
<b>Component Description:</b>	channel study for channel 27								
<b>Amount:</b>	\$7,000.00								
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<table> <tr> <td data-bbox="713 725 1023 761"><b>Component Description:</b></td><td data-bbox="1155 725 1362 875">This invoice is for the eng study and filling out the form 2100</td></tr> <tr> <td data-bbox="713 889 823 918"><b>Amount:</b></td><td data-bbox="1155 889 1273 918">\$1,000.00</td></tr> <tr> <td data-bbox="713 1028 1023 1064"><b>Component Description:</b></td><td data-bbox="1155 1028 1310 1097">H&amp;E bill for Maximization</td></tr> <tr> <td data-bbox="713 1111 823 1140"><b>Amount:</b></td><td data-bbox="1155 1111 1273 1140">\$1,650.00</td></tr> </table>	<b>Component Description:</b>	This invoice is for the eng study and filling out the form 2100	<b>Amount:</b>	\$1,000.00	<b>Component Description:</b>	H&E bill for Maximization	<b>Amount:</b>	\$1,650.00
<b>Component Description:</b>	This invoice is for the eng study and filling out the form 2100								
<b>Amount:</b>	\$1,000.00								
<b>Component Description:</b>	H&E bill for Maximization								
<b>Amount:</b>	\$1,650.00								



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	\$543,675.00	\$541,485.00		\$0.00	
RF exposure	\$3,333.00	\$3,333.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$10,000.00	\$10,000.00	A cost to notify MVPD's of channel changes	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$8,333.00	\$8,333.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$0.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$0.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$0.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A

Equipment Delivery and Handling Charges	<b>\$52,833.00</b>	\$52,833.00	This includes KCSM's share of a rental space to store and deliver equipment until ready to install	N/A	N/A
Equipment Storage	<b>\$2,500.00</b>	\$2,500.00	Storage for KCSM equipment for the repacking project	N/A	N/A
KCSM Space drawing	<b>\$17,490.00</b>	\$17,490.00	This cost is for a planning document for KCSM, Wadleigh and Gates as to where to put the new equipment as well as maintain the operational status of the existing equipment,	N/A	N/A
Sales tax	<b>\$118,500.00</b>	\$118,500.00	California sales tax	N/A	N/A
Contractor project costs	<b>\$214,371.00</b>	\$214,371.00	Contractor project management, profit and overhead, and general conditions for the KCSM leased space as quoted by Wadleigh Group (attached)	N/A	N/A

Develop and air announcement of upcoming channel change	<b>\$7,000.00</b>	\$7,000.00	This cost is to make on air announcements and messages for Web and print	N/A	N/A
VSWR monitor	<b>\$96,125.00</b>	\$96,125.00	N/A	N/A	N/A
<b>Sub-total</b>	\$543,675.00	\$541,485.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$2,710,818.68	\$3,090,784.04	N/A	\$510,554.23	N/A

## Components

Information not provided.

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$2,710,818.68	\$3,090,784.04
			\$510,554.23

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

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><b>Kathy Blackwood</b> <i>Executive Vice Chancellor</i></p> <p>04/09/2018</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>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).</p>	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	



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><b>Kathy Blackwood</b>  <i>Executive Vice Chancellor</i></p> <p>04/09/2018</p>

## Attachments