

Federal Communications Commission

### (REFERENCE COPY - Not for submission)

### FCC Form 399: Reimbursement Request

Facility ID: File Number:	6124 000002	Service: <b>DTV</b> 28658	Call Sign:	KPBS	Channel: <b>19 (UHF)</b>
FRN: <b>00</b>	02968360	Date Submitted:	06/07 /2018		

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

### Applicant Information

Applicant	Address	Phone	Email	Applicant Type
BD. OF TRUSTEES, CAL. STATE UNIV. FOR SAN DIEGO STATE UNIV. Doing Business As: BD. OF TRUSTEES, CAL. STATE UNIV. FOR SAN DIEGO STATE UNIV.	Leon Messenie 5200 CAMPANILE DRIVE SAN DIEGO, CA 92182 United States	+1 (619) 594- 1515	lmessenie@kpbs. org	Government Entity

#### 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
	The Preparer is same as the reimbursement contact.			

Broadcaster	Question	Response
Information and Transition Plan	Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
	Briefly describe transition plan	See Attachment - "KPBS Repack Project Plan ver2"

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

### Primary Add Transmitter Information

#### Transmitter Section Question Response **Existing Transmitter** Type of change Retune Description Existing Use Primary (Main) Ownership Owned Owner N/A Is this transmitter currently shared with No another station? Yes Is this transmitter currently in operating condition? **Existing Transmitter** Manufacturer ROHDE Manufacturer and Type AND **SCHWARZ** Model NV8620V 2010 Year

Туре	Solid State
Solid State Cooling	Liquid Cooled
Solid State Power capacity	20 kW

### **Retuning Transmitter Costs** Primary Transmitter

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	30 kW
	Other Power	N/A
New Exciter	Is a new exciter needed?	No

#### **Other Transmitter Costs** Primary

Transmitter	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	
	Proof of Performance - Two Exciters	Transmitter Manufacturer to perform a Proof of Performance on the primary transmitter with two exciters operation on CH-19.	
	Inside RF System - Interconnection	Inside RF System interconnection components to connect transmitter to mask filter I/O, power monitor, and 4 port switch. Includes 4 port switch with switch controller.	

### Auxiliary Add Transmitter Information

Transmitter	Section	Question	Response
	Existing Transmitter Description	Type of change	Retune Existing
		Use Ownership Owner Is this transmitter currently shared with another station?	Auxiliary (Backup)
			Owned
			N/A
			No

	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	ROHDE AND SCHWARZ
	Model	NV8610V
	Year	2010
	Туре	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	10 kW

### **Retuning Transmitter Costs** Auxiliary Transmitte

ter	Section	Question	Response
	New IOT Tubes	Number of Tubes (including accessories) needed	N/A
	New Mask Filter	Power	30 kW
		Other Power	N/A
	New Exciter	Is a new exciter needed?	No

### **Other Transmitter Costs**

Auxiliary	Other Transmitter Costs			
Transmitter	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

Auxiliary	Other Transmitter Cost Not Listed		
Transmitter	Name	Description	
	Inside RF System - Interconnection	Inside RF System interconnection components to connect transmitter to mask filter I/O, RF Power Monitor, to 4 port switch.	
	Proof Of Performance - One Exciter	Transmitter Manufacturer to perform a Proof of Performance on the auxiliary transmitter with one exciter operating on CH-19.	

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	No	
		Is the existing antenna directional?	Yes	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	Yes	
	Existing Antenna	Class	Full Power	
	Manufacturer and Type	Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels	N/A	
		Design power capacity in use	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	350.0 kW	

Manufacturer
Model
ear

Primary	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna Description	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	Yes	
		Ownership	Owned	
New Antenna		Owner	N/A	
		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		
	Manufacturer and Types	Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels/Bays	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Design power capacity in use	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	285.0 kW	
		Manufacturer		

Model	TFU18GTH R C170SP CH19
Year	2017
Justification for New Antenna	The current DTV Antenna cannot be re-tuned from CH30 to CH19

### other Antenna Costs

### Primary Antenna

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	3 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No

Sweep Test	Do you require the sweep testing of	Yes
	transmission line and antenna?	

Primary	Other Antenna Cost Not Listed		
Antenna	Name	Description	
	Adapter plate to match tower top	Adapter plate need to mount new antenna to top of tower	

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

Primary	Existing Transmission Line			
Transmissio	n Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing transmission line shared with another station or stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission Line Manufacturer and Type	Manufacturer		
		Туре	Rigid	
		Diameter	3 1/8 inches	
		Other Diameter	N/A	
		Segment Length	19 1/2 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	185 feet per run	

Primary	New Transmission Line			
Transmissio	n Line Section	Question	Response	
	New Transmission Line Costs	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	Yes	
		Туре	Rigid	
		Diameter	3 1/8 inches	
		Other Diameter	N/A	
		Segment Length	20 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	185 feet per run	
		Justification for New Transmission Line	The current transmission line at 19'6" for CH30 is not recommended for use at CH19. 20 foot lengths is recommended	

# Primary Other Transmission Line Expenses Not Listed Transmission Line Description

Name	Description
Dehydrator System	Dehydrator needed to keep transmission line dry current system is limited in capacity and will not be able to keep new line pressurized.

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

marv	Existing	Tower
------	----------	-------

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	Owned	
		Is this tower consider Complex?	Candelabra	
		Is this tower currently shared with any other stations?	No	
		One or more FM, AM or TV radio broadcaster(s)	N/A	
		Others Types of Users	N/A	
		Is tower documented for structural analysis?	No	
		Is tower compliant with Rev G?	Unknown	
	Existing Tower Structure	Do you have a tower registration number?	Yes	
	Registration	ASR Number	1213483	
	Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	32° 41' 52.7" N-	
		Longitude (NAD83)	116° 56' 06.3" W-	
		Overall Structure Height	214.00 feet	
		Support Structure Height	150.00 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	2495.00 feet	

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	KPBS
Date Constructed	07/17/2001

### Primary Tower Section Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for tower with candelabra
Tower Reinforcements	Please select whether tower reinforcements are needed:	No reinforcements needed

## Primary Tower Rigging Costs

Tower

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

### Primary Other Tower Expenses Not Listed

**Tower** Information not provided.

Outside	Section	Question	Response
Professional	I Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	260
		Explanation	See Attachment " KPBS Further Justification for Form 399"
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare request for Special Temporary Authority	No
		Quantity	N/A
		Do you have Distributed Transmission System engineering services?	N/A
		Critical Facility	N/A
		Terrain-Shielded Facility	N/A
	Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes

	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside	Other Professional Services Expenses Not Listed			
Professional	Services Costs	Description		
	Additional Legal Expenses	Additional legal expenses for University- license public TV station		
	Quarterly Progress Reports	FCC-required Quarterly Progress Reports		

California Inspector	Site Inspection for compliance with California Building Code regulations
<b>Construction Project Management</b>	General Contractor Project Management
Project Management Consulting	SDSU Representative to interface between the University and General Contractor

Other	Section	Question	Response
Expenses	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	No
		Non-zoning permits	No
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	No
		FCC License to Cover Application	No
		FCC Special Temporary Authority Application	No
	Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
		Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
		Does this relocation require Equipment Storage?	Yes
		Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
		Does this relocation require MVPD Notification of a Channel Change?	Yes

### Other Expenses Not Listed

Other

Expenses	Name	Description
	California Sales Tax	California Sales Tax at 7.75 percent on all tangible items
	Shipping Freight	Shipping Antenna, Mask Filters, and other RF Componets to the WIS Storage Yard
	California State University System Charge	Required California State University Fee for Financial fund administration

### Transmitters

### Cost Information

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 NV8620V	\$168,226.00	\$195,866.00		\$126,939.00	
Inside RF System - Interconnection	\$21,826.00	\$21,826.00	Adjusted 6/6 /2018 by L. Messenie as a result of the Wireless Infrastructure Budgetary Proposal and Wireless Infrastructure Service Invoice 6124AS	\$19,643.00	N/A
Proof of Performance - Two Exciters	\$8,600.00	\$8,600.00	N/A	N/A	N/A
UHF and VHF - minor banding issues	\$105,200.00	\$104,000.00	Adjusted 6/6 /2018 by L. Messenie as a result of the Wireless Infrastructure Budgetary Proposal and Wireless Infrastructure Service Infrastructure 6124AS	\$52,000.00	50% Deposit for Complex Tower Rigging at time of order.

30 kW mask filter	\$32,600.00	\$61,440.00	Adjusted 6/6 /2018 by L. Messenie as a result of the Wireless Infrastructure Service Budgetary Proposal and Wireless Infrastructure Service Invoice 6124AS	\$55,296.00	N/A
Auxiliary Transmitter NV8610V	\$163,786.25	\$161,720.25		\$46,376.00	
30 kW mask filter	\$32,600.00	\$35,734.00	Adjusted 6/6 /2018 by L. Messenie as a result of the Wireless Infrastructure Service Budgetary Proposal and Wireless Infrastructure Service Invoice 6124AS	\$32,161.00	N/A
Proof Of Performance - One Exciter	\$4,300.00	\$4,300.00	N/A	N/A	N/A
Inside RF System - Interconnection	\$21,686.25	\$21,686.25	N/A	\$14,215.00	N/A
UHF and VHF - minor banding issues	\$105,200.00	\$100,000.00	N/A	N/A	N/A
Sub-total	\$332,012.25	\$357,586.25	N/A	\$173,315.00	N/A
Total for all systems	\$1,699,136.28	\$1,479,416.28	N/A	\$582,540.63	N/A

### Components

File Name	
Component Description:	See WIS Invoice 6124BS Item 3 for backup, 40% Payment due prior to mid June 2018 shipping date.
Amount:	\$8,730.00
Component Description:	See WIS Invoice 6124AS Item 3 for backup, 50% Deposit based on budgetary proposal \$10,913.00
Information not provided.	
Component Description:	See WIS Invoice 6124AS Item 6 for backup, 50% Deposit based on budgetary proposal.
	Component Description: Amount: Component Description: Amount: Information not provided.

30 kW mask filter		
	Component Description:	See WIS Invoice 6124BS Item 1 for backup, 40% Payment due prior to mid June 2018 shipping date.
	Amount:	\$24,576.00
	Component Description:	See WIS Invoice 6124AS Item 1; 50% Deposit based on budgetary proposal. \$30,720.00
30 kW mask filter	Component Description:	See WIS Invoice 6124BS Item 2 for backup, 40% Payment due prior to mid June 2018 shipping date.
	Amount:	\$14,294.00
	Component Description:	See WIS Invoice 6124AS Item 2 for backup, 50% Deposit based on budgetary
	Amount:	proposal \$17,867.00
Proof Of Performance - One Exciter	Information not provided.	

		Deposit based on budgetary proposal
	Component Description:	See WIS Invoice 6124AS Item 4 for backup, 50%
	Amount:	for backup, 40% Payment due prior to mid June 2018 shipping date. \$1,404.00
	Component Description:	See WIS Invoice 6124BS Item 4
	Amount:	for backup, 40% Payment due prior to mid June 2018 shipping date. \$4,914.00
Interconnection	Component Description:	See WIS Invoice 6124BS Item 5

### Antennas

### Cost Information

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

Description Primary	Predetermined Cost Estimate \$286,250.00	Estimated Cost \$325,434.00	Estimated Cost Justification	Actual Cost \$290,046.00	Actual Cost Justification
Antenna TFU18GTH- R C170SP CH19					
Sweep test of existing antenna	\$6,730.00	\$7,360.00	Adjusted 6/6 /2018 by L. Messenie as a result of the Wireless Infrastructure Budgetary Proposal and Wireless Infrastructure Service Invoice 6124AS	\$3,680.00	N/A
Adapter plate to match tower top	\$23,180.00	\$23,180.00	Adjusted 6/6 /2018 by L. Messenie as a result of the Wireless Infrastructure Budgetary Proposal and Wireless Infrastructure Service Infrastructure 6124AS	\$20,962.00	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$284,652.00	Adjusted 6/6 /2018 by L. Messenie as a result of the Wireless Infrastructure Service Budgetary Proposal and Wireless	\$256,187.00	N/A
			Infrastructure Service Invoice 6124AS		
Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	\$9,340.00	\$10,242.00	Adjusted 6/6 /2018 by L. Messenie as a result of the Wireless Infrastructure Service Budgetary Proposal and Wireless Infrastructure Service Invoice 6124AS	\$9,217.00	N/A
Sub-total	\$286,250.00	\$325,434.00	N/A	\$290,046.00	N/A
Total for all systems	\$1,699,136.28	\$1,479,416.28	N/A	\$582,540.63	N/A

### Components

Actual Information	
Description	File Name

Sweep test of existing antenna	Component Description: Amount:	See WIS Invoice 6124AS Item 8 for backup, 50% Deposit based on budgetary proposal \$3,680.00
Adapter plate to match tower top	Component Description:	See WIS Invoice 6124BS Item 8 for backup, 40% Payment due prior to mid June 2018 shipping date. \$9,372.00
	Amount:	See WIS Invoice 6124AS Item 10 for backup, 50% Deposit based on budgetary proposal \$11,590.00

UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	Component Description:	See WIS Invoice 6124BS Item 6 for backup, 40% Payment due prior to mid June 2018 shipping
	Amount:	date. \$113,861.00
	Component Description:	See WIS Invoice 6124AS Item 7 for backup, 50% Deposit based on budgetary proposal
	Amount:	\$142,326.00
Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	Component Description:	See WIS Invoice 6124BS Item 8 for
		backup, 40% Payment due prior to mid June 2018 shipping
	Amount:	date. \$4,096.00
	Component Description:	See WIS Invoice 6124AS Item 9 for backup, 50% Deposit based on
	Amount:	budgetary proposal \$5,121.00

#### **Transmission Line**

### Cost Information

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

Description Primary Transmission Line	Predetermined Cost Estimate \$24,054.25	Estimated Cost \$38,596.25	Estimated Cost Justification	Actual Cost \$30,404.00	Actual Cost Justification
Rigid Transmission Line - copper, 3 1/8"	\$19,240.00	\$33,782.00	Adjusted 6/6 /2018 by L. Messenie as a result of the Wireless Infrastructure Service Budgetary Proposal and Wireless Infrastructure Service Invoice 6124AS	\$30,404.00	N/A
Dehydrator System	\$4,814.25	\$4,814.25	Required to keep moisture out of inside the new transmission line.	N/A	N/A
Sub-total Total for all systems	\$24,054.25 \$1,699,136.28	\$38,596.25 \$1,479,416.28	N/A N/A	\$30,404.00 \$582,540.63	N/A N/A

### Components

Actual Information Description File

File Name

Rigid Transmission Line - copper, 3 1/8"	Component Description:	See WIS Invoice 6124BS Item 9 for backup, 40%
		Payment due prior to mid June 2018 shipping
	Amount:	date. \$13,513.00
	Component Description:	See WIS Invoice 6124AS Item 11 for backup, 50%
	Amount:	Deposit based on budgetary proposal \$16,891.00
Dehydrator System	Information not provided.	

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

#### Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$441,000.00	\$151,300.00		\$73,150.00	
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$19,000.00	N/A	\$7,000.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$132,300.00	Adjusted 6/6 /2018 by L. Messenie as a result of the Wireless Infrastructure Service Budgetary Proposal and Wireless Infrastructure Service Invoice 6124AS	\$66,150.00	N/A
Sub-total	\$441,000.00	\$151,300.00	N/A	\$73,150.00	N/A
Total for all systems	\$1,699,136.28	\$1,479,416.28	N/A	\$582,540.63	N/A

#### Components

Actual Information Description

**File Name** 

load study for a documented tower with candelabra	Component Description:	Line 2 Tower Mapping & Line 3 Structural
	Amount:	Analysis \$7,000.00
Complex Tower (includes, for		
example, those with	Component Description:	See WIS Invoice
candelabras and/or stacked		6124AS Item 12
antennas)		for backup, 50%
		Deposit based or
		budgetary
		proposal
	Amount:	\$66,150.00

### **Outside Professional Services**

### Cost Information

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	\$445,675.00	\$436,905.00		\$15,625.63	
Additional Legal Expenses	\$10,000.00	\$10,000.00	Legal cost for advice and consultation and assistance for University- owned public TV station at complex multi-tenant antenna farm site.	\$7,042.20	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A

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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$1,082.52	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,687.50	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$787.50	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$43.65	N/A

Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$314.28	N/A
Project management of the transition	\$41,080.00	\$39,000.00	N/A	\$4,150.00	N/A
Project Management Consulting	\$13,500.00	\$13,500.00	Project Management consulting services to interface between San Diego State University and the project General Contractor. Also looks out for SDSU interests during construction projects	N/A	N/A
Construction Project Management	\$236,255.00	\$236,255.00	This is for the General Contractor hired by the University for the Repack Project. General contractor	N/A	N/A

California	\$5,400.00	\$5,400.00	Required by	N/A	N/A
Inspector			the		
			California		
			State		
			University		
			system to		
			ensure		
			compliance		
			with		
			California		
			Building		
			codes		
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Quarterly Progress Reports	\$5,000.00	\$5,000.00	Prepare and file FCC- required progress reports for	\$517.98	N/A
			repacked		
			station		
			throughout		
			transition.		
Sub-total	\$445,675.00	\$436,905.00	N/A	\$15,625.63	N/A
Total for all systems	\$1,699,136.28	\$1,479,416.28	N/A	\$582,540.63	N/A

# Components

Actual Information Description	File Name	
Additional Legal Expenses	Component Description: Amount:	Line 1 & 3 - Telephone call with Leon Messenie re repack and Review FCC Public Notice on initial allocation of repack funds \$125.13

Component Description: Amount:	Line 3,4,5,6,8,9,10,11,13,14 - See invoice for details \$1,131.99
Component Description: Amount:	Line 1 - Prepare for Telephone call with KPBS team to discuss University procedures and amending the FCC Form 399 \$392.85
Component Description: Amount:	Legal services regarding reimbursement and amending the FCC 399 Form \$2,531.70
Component Description: Amount:	Line 1,3,4,5 - See invoice for details \$331.74
Component Description: Amount:	Line 1 & 2 Emails regarding Repack \$130.95
Component Description: Amount:	Line 1 - Email regarding FCC Auction Close \$43.65
Component Description: Amount:	Line 2 & 4 - Email regarding tower status and Work on Repack cost reimbursement filings \$439.41
	÷

	Component Description: Amount:	Line 1 - Work on KPB repack issues regarding University procurement processes. \$87.30
	Component Description: Amount:	Line 2,4,5,7,9,10,11 - See invoice for details \$1,827.48
RF Exposure Measurements	Information not provided.	
Comprehensive coverage verification via field study, if needed	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Line 1,3,6,12 - see invoice for details \$439.41
	Component Description: Amount:	Line 1,2,7,12 - See invoice for details \$453.96
	Component Description: Amount:	Line 1 - Prepare FCC Minor Change application \$189.15
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Line Item 2 - Develop ERP and parameters for initial CP applicatic \$1,687.50
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Various discussions regarding implementation of repack to ch-19 \$262.50
	Component Description:	Line Item 1 - Channel Assignment Review \$525.00

Address transition timing and coordination issues w/ other stations and wireless	Component Description: Amount:	Line 2 - issues regarding timing of notifications to MVPD's \$43.65
Prepare and or review reimbursement form	Component Description: Amount:	Line 8 - Review and correspondence re 1876 form \$113.49
	Component Description: Amount:	Line 2 - Review 1876 form and channel assignment \$87.30
	Component Description: Amount:	Line 3 - Telephone call re FCC Post auction Repack and 1876 Form \$113.49
Project management of the transition	Component Description: Amount:	Line 1 Project Management & Engineering \$4,150.00
Project Management Consulting	Information not provided.	
Construction Project Management	Information not provided.	
California Inspector	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	

Quarterly Progress Reports		
-1	Component Description:	Line 1 - Email
		regarding 2017 Third
		Quarter Progress
		Report
	Amount:	\$43.65
	Component Description:	Line 2 - Email
		Reminder of Quarterly
		Transition Progress
		Report due Jan 10,
		2018
	Amount:	\$43.65
	Component Description:	Line 2 - Analysis and
		review re repack
		transition quarterly
		progress report deadline and
		submission status for
		KPBS-TV
	Amount:	\$37.83
	Amount	\$37.03
	Component Description:	Line 2 - Work on
		Quarterly Progress
		Report for repack and
		review with Leon
		Messenie of KPBS
	Amount:	\$392.85

### **Other Expenses**

### Cost Information

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	\$170,144.78	\$169,594.78		\$0.00	
California State University System Charge	\$79,033.00	\$79,033.00	California State University required fee for project fund financial administration	N/A	N/A
Shipping Freight	\$16,000.00	\$16,000.00	Estimate Freight cost from Dielectric to deliver antenna, mask filters, transmission line and support items to tower rigger storage yard.	N/A	N/A
California Sales Tax	\$33,016.78	\$33,016.78	N/A	N/A	N/A
MVPD Notification of Channel Change	\$1,000.00	\$1,000.00	N/A	N/A	N/A

Develop and air announcement of upcoming channel change	\$2,545.00	\$2,545.00	Please see attached KPBS Rate Card, KPBS Production Estimate, and Calculation Document	N/A	N/A
Equipment Storage	\$7,500.00	\$7,500.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$7,500.00	\$7,500.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$12,000.00	\$12,000.00	N/A	N/A	N/A
Sub-total	\$170,144.78	\$169,594.78	N/A	\$0.00	N/A
Total for all systems	\$1,699,136.28	\$1,479,416.28	N/A	\$582,540.63	N/A

# Components

Information not provided.

Cost Information	Grand Total						
		Predetermined Cost Estimate	Estimated Cost	Actual Cost			
	Total for all systems	\$1,699,136.28	\$1,479,416.28	\$582,540.63			

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

Certification	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.	
		<ol> <li>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>The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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).
- 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 above- named applicant for the Authorization(s) specified above.	Leon Messenie Director of Engineering, KPBS 06/07/2018

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR 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).	
		<ol> <li>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> </ol>	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster **Relocation Fund are** necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 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.	
an a nan	eclare, under penalty of perjury, that I am authorized representative of the above- ned applicant for the Authorization(s) cified above.	Leon Messenie Director of Engineering, KPBS 06/07/2018

#### Attachments

.....