Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **59014** | Service: **DTV** | Call Sign: **KOAA-TV** | Channel: **25 (UHF)**

File Number: **0000028162**

FRN: **0002710192** | Date Submitted: **10/29/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
SCRIPPS BROADCASTING HOLDINGS LLC Doing Business As: SANGRE DE CRISTO COMMUNICATIONS, LLC	CHIEF ENGINEER C/O SCRIPPS MEDIA, INC. 312 Walnut ST 28th Floor Cincinnati, OH 45202 United States	+1 (513) 977-3000	DAVE.GILES@SCRIPPS.COM	Limited Liability Company

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

Quentin Henry *Chief Engineer* *Sangre de Christo Communications, LLC*	Quentin Henry 2200 7th Avenue Pueblo, CO 81003 United States	+1 (719) 671-9013	qh@koaa.com

Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	Continue operation on existing tower, transmission line and antenna. Build a new tower and install new transmission line and antenna. Modification of the existing tower is more expensive than the new tower construction.

Transmitters

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

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	SigmaCD
	Year	2004
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	23.6 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	Existing transmitter will not re-tune to new frequency.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	4. inches
	Length	200.0 feet
	Other Electrical Service	Yes

	Description	The replacement of power company pole transformers and power lines between power pole transformers and the building is needed to accommodate the added load during the transition period.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 tons
	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
Old transmitter DE-INSTALL	DE-INSTALL of old transmitter and all associated equipment.

Antennas

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

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Middle
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	880.0 kW

Manufacturer	
Model	TFU 24DSB C270 (SP) (C)
Year	2006

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

	Model	TFU-23JSC /VP-R C270 D25 PER C-70120-4
	Year	2017
	Justification for New Antenna	The existing antenna can not be re tuned to the new frequency.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	4 1/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes

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

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

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	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	
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	260 feet per run

Primary Transmission Line

New Transmission 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?	No
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	22
	Length	20 feet per run
	Justification for New Transmission Line	Both transmitters have to be on the air at the same time for the transition period. Continued operation of current transmitter on current tower, and new transmitter on new tower.

Primary Transmission Line	Other Transmission Line Expenses Not Listed
	Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Construct New
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Terrain Constrained
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	38° 44' 42.0" N-
	Longitude (NAD83)	104° 51' 41.0" W-
	Overall Structure Height	220.00 feet
	Support Structure Height	150.00 feet
	Ground Elevation Above Mean Sea Level (AMSL)	9430.00 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	Cheyenne Propagation
Date Constructed	06/01/1978

Primary Tower

Tower Construction Costs

Section	Question	Response
Construct New Tower	Use	Primary (Main)
	Description of Use	N/A
	Is this a request for upgraded equipment?	No
	Height	199.00 feet
	Justification for New Tower	New tower construction cost less than modifications needed to the existing 1978 tower.

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	595
	Explanation	reimbursement filing, expense tracking, vendor coordination, progress reporting, budget creation, budget review, budget tracking, daisy-chain monitoring and all other activities necessary
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	Yes
	Quantity	1
	NEPA Section 106 environmental review	Yes
	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	No
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Engineering study	coverage mapping of new channel assignment and equipment
KOAA repack 28 to repack 25 by Entravision	Entravision in Denver wants to be placed on channel 28. This move forces KOAA to move to channel 25. Co-channel to channel 24 KRDO. Additional studies are required.
New Tower design analysis	Tower load analysis and deign for new tower

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	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	No
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	No
	Does this relocation require Equipment Storage?	No
	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

Information not provided.

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justificatio
Primary Transmitter ULXTE-50	**$1,125,715.43**	**$1,148,110.43**		**$705,208.90**	
Old transmitter DE-INSTALL	***$18,280.85***	$18,280.85	DE-INSTALL of the old transmitter, lines, electrical power supplies, and all associated equipment to a staging area for disposal.	$0.00	N/A
Switchgear - industrial 800 amp	$38,200.00	$67,479.00	Both transmitters must be ran on the same electrical service at the same time, requiring added capacity..	$46,332.00	N/A
10 Ton system	$38,900.00	$37,000.00	N/A	N/A	N/A

Other Electrical Service: The replacement of power company pole transformers and power lines between power pole transformers and the building is needed to accommodate the added load during the transition period.	***$65,000.00***	$65,000.00	replacing transformers, feedline to building, and pole install.	N/A	N/A
4." Rigid Conduit and Wiring	***$12,000.00***	$12,000.00	N/A	N/A	N/A
Transformer 3 phase/480v - 300 KVA	$36,800.00	$0.00	Colorado Springs Utility is not charging for this "Transformer 3 phase/480V-300KVA" upgrade. This expense went from $35,850.00 to $0	N/A	N/A

Service entrance 3 phase/800 amp/208 volt	$14,400.00	$46,216.00	Both transmitters must be ran on the same electrical service at the same time requiring additional capacity. predetermined values are correct now	$46,216.00	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	***$902,134.58***	$902,134.58	Maximized from the Entravision displacement of KOAA to channel 25 from FCC assigned repack channel 28.	$612,660.90	N/A
Sub-total	$1,125,715.43	$1,148,110.43	N/A	$705,208.90	N/A
Total for all systems	$2,770,776.58	$2,409,010.72	N/A	$1,384,107.69	N/A

Components

Actual Information Description	File Name

Old transmitter DE-INSTALL	**Component Description:**	Deinstall of CD3070p1. Includes canceled check showing payment made.
	Amount:	$18,280.85
	Component Description:	De-install of Sigma CD Transmitter model CD3070P1. Now includes a cancelled check for proof of payment.
	Amount:	$18,280.85

Switchgear - industrial 800 amp	**Component Description:** **Amount:**	Switch gear for transmitter project. $33,614.00
	Component Description: **Amount:**	Please deny this invoice. Invoice has been resubmitted N/A
	Component Description: **Amount:**	partial invoicing and payment of switch gear at KOAA 6236 Transmitter Lane Site. $12,718.00
	Component Description: **Amount:**	partial invoicing & payment for switchgear at KOAA 6236 Transmitter Lane Site $33,614.00
10 Ton system	Information not provided.	
Other Electrical Service: The replacement of power company pole transformers and power lines between power pole transformers and the building is needed to accommodate the added load during the transition period.	Information not provided.	
4." Rigid Conduit and Wiring	Information not provided.	
Transformer 3 phase/480v - 300 KVA	Information not provided.	

Service entrance 3 phase /800 amp/208 volt	**Component Description:**	1 of 2 invoices for service on KOAA 6236 Transmitter Lane site
	Amount:	$40,294.00
	Component Description:	1 of 2 invoices for service of KOAA 6236 Transmitter lane site
	Amount:	$5,922.00
	Component Description:	Install new electrical service for transmitter.
	Amount:	$5,922.00
	Component Description:	Install new electric service for transmitter.
	Amount:	$40,294.00
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	**Component Description:**	1/3 payment on ULXTE-50 Transmitter prior to shipment
	Amount:	$309,426.19
	Component Description:	1/3 down payment on ULXTE-50 Transmitter package
	Amount:	$303,234.71

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna TFU-23JSC /VP-R C270 D25 PER C-70120-4	**$272,377.10**	**$269,159.10**		**$204,909.40**	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	$5,260.00	$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$21,500.00	N/A	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, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	***$227,667.10***	$227,667.10	Previous antenna could not be retuned to new frequency.	$204,909.40	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	$9,570.00	$8,592.00	N/A	N/A	N/A
Sub-total	$272,377.10	$269,159.10	N/A	$204,909.40	N/A
Total for all systems	$2,770,776.58	$2,409,010.72	N/A	$1,384,107.69	N/A

Components

Actual Information Description	File Name
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Sweep test of existing antenna	Information not provided.

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	**Component Description:** **Amount:** **Component Description:** **Amount:**	2nd 45% payment prior to shipment on antenna purchase. $102,454.70 UHF antenna and accessories-45% deposit with order $102,454.70
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	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	**$62,480.00**	**$55,047.60**		**$0.00**	
Rigid Transmission Line - copper, 4 1 /16"	$62,480.00	$55,047.60	N/A	N/A	N/A
Sub-total	$62,480.00	$55,047.60	N/A	$0.00	N/A
Total for all systems	$2,770,776.58	$2,409,010.72	N/A	$1,384,107.69	N/A

Components

Information not provided.

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower GTOWER	**$0.00**	**$0.00**		**$0.00**	
Primary Tower	**$970,748.00**	**$549,748.00**		**$333,838.80**	
New tower	***$549,748.00***	$549,748.00	Additional $16,000 added due to increase price for foundation installation.	$333,838.80	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
Sub-total	$970,748.00	$549,748.00	N/A	$333,838.80	N/A
Total for all systems	$2,770,776.58	$2,409,010.72	N/A	$1,384,107.69	N/A

Components

Actual Information Description	File Name

New tower	**Component Description:**	One of several invoices for this line. This is specific for geotechnical survey & report with reimbursement of $4875 being requested.
	Amount:	$4,875.00
	Component Description:	One invoice of many for this line. This specifically is for structural analysis & report, add'l loading configurations & PE sealed docs
	Amount:	$5,100.00
	Component Description:	30% pmt. 60 days from date of order for tower and installation. Includes 30% on deposit increase also.
	Amount:	$166,731.90
	Component Description:	30% deposit with order of replacement tower.
	Amount:	$157,131.90
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	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 Co Justificati
Outside Professional Services	**$318,721.05**	**$366,770.59**		**$140,150.59**	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	$2,105.00	$7,223.80	Original estimate was low, but now corrected.	$7,223.80	Actuals a coming due to addition studies needed f FAA determina request
Project management of the transition	$94,010.00	$99,675.00	Widelity Strategic Support Quote	N/A	N/A
New Tower design analysis	***$6,000.00***	$6,000.00	Engineering analysis of tower loading and design of the new tower.	$0.00	due to mountai terrain act is coming higher th origina estimat

KOAA repack 28 to repack 25 by Entravision	***$60,328.55***	$60,328.55	Additional consulting engineering expense due to Entravision wanting to occupy the KOAA repack channel 28. That would displace KOAA to channel 25 that is co-channel to KRDO 24.	$60,328.55	addition invoices be added this estimate cost line $50,000 this is one severa
Engineering study	***$16,582.50***	$16,582.50	Under estimated consulting engineering services needed for further review of feasibility to remain on Channel 30.	$16,582.50	An additic survey needed tower installati construct
Comprehensive coverage verification via field study, if needed	$84,200.00	$75,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	$2,105.00	$2,032.60	The original predetermined cost was incorrect, it is correct now.	$2,032.60	N/A

NEPA Section 106 environmental review, if needed	$6,310.00	$6,318.00	NEPA study for the new tower construction located 50 foot away from the existing tower.	$6,318.00	Actual co came in little mo than origi estimat based o billings fr provider. adjustme will be ma to match actual co
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	$25,000.00	KOAA had to run the legal services twice due to the KCEC Denver Entravision being assigned channel 14 and the FCC requesting KOAA move from repack 28 to repack 25	$2,055.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$6,860.50	Actual attorney fees for normal repack construction permit process for form 2100 and 399 came in higher than the estimated cost.	$6,860.50	Addition fees due FCC requeste move o KOAA rep channel 2 channel due to Entravisi channel Denver is

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 and or review reimbursement form	$2,630.00	$22,253.30	Had to have 2 repack processes due to FCCs request for KOAA to repack a second time due to channel 14 Denver being assigned to Entravision.	$22,253.30	This may be the fir for this section Costs ar coming much hig than origi estimate various issues includin amendme to the applicatic
Perform engineering study for new channel assignment and antenna development	$7,360.00	$13,996.34	consulting engineering services needed for further review of feasibility to remain on Channel 30.	$13,996.34	total mo than pr determin entered a now stan at $11,492.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	N/A	N/A	N/A
RF Exposure Measurements	$21,050.00	$17,500.00	N/A	$2,500.00	N/A
Sub-total	$318,721.05	$366,770.59	N/A	$140,150.59	N/A
Total for all systems	$2,770,776.58	$2,409,010.72	N/A	$1,384,107.69	N/A

Components

Actual Information	
Description	**File Name**

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	**Component Description:** **Amount:**	Correspondence & telephone discussion for FAA determinations for new tower. $1,586.00
	Component Description: **Amount:**	review issues /materials for tower coordinates & modification of FAA determination for new tower. $1,418.40
	Component Description: **Amount:**	Repack public notice email, review & respond to FAA filings for new tower. $868.00
	Component Description: **Amount:**	Please deny this invoice N/A
	Component Description: **Amount:**	FAA & environmental approvals/study. $729.00
	Component Description: **Amount:**	FAA determination & study requests. $594.40
	Component Description: **Amount:**	FAA analysis for proposed tower. $2,028.00

Project management of the transition	Information not provided.
New Tower design analysis	**Component Description:** Structural analysis & report for tower. **Amount:** $5,100.00 **Component Description:** Geotechnical survey & report. **Amount:** $4,875.00
KOAA repack 28 to repack 25 by Entravision	**Component Description:** review request for add'l info from fund administrators **Amount:** N/A **Component Description:** review of alternate channel for KOAA as proposed by KCEC, research at FCC reference room & prep of draft C.25 in lieu of C. 28 per attorney **Amount:** $10,616.00 **Component Description:** Consulting engr services thru Mar 2018 prelim review of transmitter tower inconsistency for license & contruct permit c28 to c25 change **Amount:** $1,613.90

Component Description:	Review of draft channel change agreement provided by Entravision as part of resolution.
Amount:	$20,548.20
Component Description:	FCC grant of channel change repack application.
Amount:	$264.50
Component Description:	Qtrly progress report, environmental assessment for new tower.
Amount:	$587.40
Component Description:	Numerous calls and emails with regards to a proposed resolution of Channel 14 issue and possible impact on KOAA repack channel
Amount:	$20,930.00
Component Description:	assembling technical items to support application to construct repacked facilities. pursuant to Channel 28
Amount:	$3,322.25

	Component Description:	Consulting engr services Oct/Nov 2017 preliminary analysis for TVstudy 2.2 of K30JM-D related to channel change from 28 to 25
	Amount:	$2,446.30
Engineering study	**Component Description:**	tower installation construction staking "revised" survey proposal.
	Amount:	$2,582.50
	Component Description:	Initial site survey for transmitter antenna components
	Amount:	$14,000.00
Comprehensive coverage verification via field study, if needed	Information not provided.	
ASR modification (prepare FCC Form 854)	**Component Description:**	begin draft ASR application and review 2012 ASR.
	Amount:	$2,032.60
NEPA Section 106 environmental review, if needed	**Component Description:**	Environmental approvals for new tower.
	Amount:	$6,318.00
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	**Component Description:** **Amount:**	create form 399 & form 2100. correspondence re FCC reimbursement process. $2,055.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	revise & file FCC form 2100 construction permit. $6,860.50
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare and or review reimbursement form	**Component Description:** **Amount:**	begin initial research relating to preparation of repack applications. $177.50
	Component Description: **Amount:**	review & respond to consulting engineer regarding TV repack applications. $964.00
	Component Description: **Amount:**	email with engr staff for second tranche of repack funding $81.00

Component Description: Email for new FCC repack reimbursement process.
Amount: $171.00

Component Description: email re repack reimbursement issues.
Amount: $162.00

Component Description: Qtrly progress report & FCC reimbursement process.
Amount: $648.00

Component Description: review & correspondence regarding amendment for repack application.
Amount: $14,619.50

Component Description: fund administrator-request add'l info. Discussion regarding amendment to Form 399.
Amount: $1,792.80

Component Description: review FCC repack letter, preparing emails for same, repack reimbursement process.
Amount: $1,424.00

	Component Description:	Research & correspondence on repack reimbursement process
	Amount:	$286.50
	Component Description:	review FCC forms & emails regarding FCC repack reimbursement issues & applications.
	Amount:	$1,360.00
	Component Description:	Review quarterly progress report & email for reimbursement process
	Amount:	$648.00
	Component Description:	FCC repack quarterly progress report, release of add'l repack funding, reimbursement issues.
	Amount:	$567.00
Perform engineering study for new channel assignment and antenna development	**Component Description:**	services concerning recheck of allocation for K30JM & KOAA-TV (Woodland Park) C. 16. further review of K30JM to remain C. 30
	Amount:	$601.50

Component Description:	consulting engr services for further review to remain on C. 30.
Amount:	$2,425.91
Component Description:	Consulting & Engineering Services thru 4/27 /17 for analysis on TVStudy 2.2 of curr. C. 42 oper. and repack C.28
Amount:	$1,058.40
Component Description:	Consult eng serv thru Aug 17 for prelim analysis on TVStudy 2.2 of K30JM-D issues to incentive auction repack & prep of eng response to FCC inquiry on numerous discuss persuant to appl to construct repack facilities DA17-314 C. 28 horiz. and vert. specs
Amount:	$3,267.24
Component Description:	consulting engr services for further review of feasibility to remain on C.30.
Amount:	$2,504.05

	Component Description:	Consulting engineering thru July 2017 to assemble technical issues for prep of engr stmt for application to construct repack facilities for C.28 & prelim study for fill in translator K30JM coverage
	Amount:	$3,629.74
	Component Description:	Consulting engineering thru 5 /31/17 on Longley-Rice analysis for TVStudy 2.2 of repacked C.28
	Amount:	$509.50
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
RF Exposure Measurements	**Component Description:**	NEPA review
	Amount:	$2,500.00

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	**$20,735.00**	**$20,175.00**		**$0.00**	
MVPD Notification of Channel Change	***$4,500.00***	$4,500.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	***$850.00***	$850.00	N/A	N/A	N/A
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$325.00	N/A	N/A	N/A
Non-zoning permits	***$3,500.00***	$3,500.00	N/A	N/A	N/A
Sub-total	$20,735.00	$20,175.00	N/A	$0.00	N/A
Total for all systems	$2,770,776.58	$2,409,010.72	N/A	$1,384,107.69	N/A

Components

Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$2,770,776.58	$2,409,010.72	$1,384,107.69

Reimbursement Status

Question	Response
The facility has ceased operating on its pre-auction channel.	No
Construction of final facilities or all necessary modifications are complete.	No
All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification

Section	Question	Response
Submission of Estimated Expenses Statements	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 above-named applicant for the Authorization(s) specified above.	**Sravan Reddy , Reddy .** *Senior Director, General Accounting* 10/29/2019

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).	
	1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

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

	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 above-named applicant for the Authorization(s) specified above.	**Sravan Reddy , Reddy .** *Senior Director, General Accounting* 10/29/2019

Attachments