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: **60555** | Service: **DTV** | Call Sign: **WFUT-DT** | Channel: **30 (UHF)**

File Number: **0000028637**

FRN: **0005414917** | Date Submitted: **05/14/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
UNIVISION NEW YORK LLC Doing Business As: UNIVISION NEW YORK LLC	Christopher G. Wood 5999 CENTER DRIVE LOS ANGELES, CA 90045 United States	+1 (310) 348-3600	CWOOD@UNIVISION.NET	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
Theodore Stoner *VP Distribution Technology Strategy* *Univision Management Company*	Theodore Stoner 9405 NW 41st Street Miami, FL 33178 United States	+1 (513) 608-0308	tstoner@univision.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.	No
Briefly describe transition plan	See attached explanation

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	Retune Existing
	Use	Primary (Main)
	Ownership	Owned
	Owner	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	Rohde & Schwarz
	Model	NV8620
	Year	2009
	Type	Solid State

	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	16.5 kW

Primary Transmitter

Retuning Transmitter Costs

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

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A

Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	2600.0
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

Information not provided.

Auxiliary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	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	Rohde & Schwarz
	Model	NV8608
	Year	2009
	Type	Solid State
	Solid State Cooling	Liquid Cooled

	Solid State Power capacity	7 kW

Auxiliary Transmitter

Retuning Transmitter Costs

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	7 kW
	Other Power	N/A
New Exciter	Is a new exciter needed?	No

Auxiliary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A

Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other 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 Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Antennas

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

Auxiliary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Auxiliary (Backup)
	Description of Use	Emergency, maintenance, and temporary
	Ownership	Leased
	Owner	4TS LLC
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Middle
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	64

Design power capacity in use	25.0 %
Lower Limit	530.00 MHz
Upper Limit	674.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	80.0 kW
Manufacturer	Dielectric
Model	TUA-08-8 /64U-2-B
Year	2003

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

Facility ID	Call Sign
6048	WNYE-TV

Auxiliary Antenna

Adjustment to Existing Antenna

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	No

Auxiliary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	Additional Module
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A

Enter a list of RF channel numbers.

RF Channel Number
24
26

Auxiliary Antenna

Other Antenna Cost Not Listed

Information not provided.

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?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	200.0 kW

Manufacturer	
Model	AL12-30-PM
Year	2008

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?	Yes
	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?	Yes
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)	155.0 kW
	Manufacturer	

	Model	TFU-16JSC /VP-R CT150
	Year	2018
	Justification for New Antenna	Existing single-channel antenna incapable of operation on newly assigned channel.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes

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

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Rent Temporary
	Ownership	Leased
	Owner	Empire State Realty Trust
	Is antenna shared?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	4
	Number of Panels/Bays	32
	Lower Limit	488.00 MHz
	Upper Limit	758.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	90.0 kW
	Manufacturer	
	Model	ESBTUF80
	Year	2008

	Justification for New Antenna	Maintain continuity of operation while upper tower is reconfigured, which requires removal of existing WFUT-DT antenna

Interim Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	Additional Module
	Number of channels supported	4
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Enter a list of RF channel numbers.

RF Channel Number
38
28
30
33

Interim 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

Auxiliary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	Emergency, maintenance, and temporary
	Ownership	Leased
	Owner	4TS LLC
	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	380 feet per run

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

Facility ID	Call Sign
6048	WNYE-TV

Auxiliary Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

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	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	340 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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	340 feet per run
	Justification for New Transmission Line	Existing line has excessive loss for dual-channel operation.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	19 ½ '
	Other Segment Length	
	Number of parallel runs	1
	Length	250 feet per run
	Justification for New Transmission Line	Connect 79th floor transmitter to combiner system on 85th floor to maintain continuity of operation during antenna change.

Interim 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

Auxiliary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Move Equipment
	Tower Use	Auxiliary (Backup)
	Description of Use	Emergency, maintenance, and temporary
	Ownership	Leased
	Is this tower consider Complex?	Located on Building
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1238745
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 45' 22.4" N-
	Longitude (NAD83)	073° 59' 10.5" W-
	Overall Structure Height	1147.30 feet
	Support Structure Height	1076.76 feet

Ground Elevation Above Mean Sea Level (AMSL)	49.87 feet
Structure Type	BTWR - Building with Tower
Tower Owner	4 TS II LLC
Date Constructed	10/01/2014

FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

Facility ID	Call Sign	Service
23004	WAXQ	FM
1328	WABC-TV	DTV
59953	WHTZ	FM
6373	WWPR-FM	FM
73355	WNYC-FM	FM
46978	WQXR-FM	FM
3539	WNYE	FM
86537	WJLP	DTV
61641	WSKQ-FM	FM
6595	WKTU	FM
74215	WXTV-DT	DTV
6048	WNYE-TV	DTV
56571	WLTW	FM
68270	WKCR-FM	FM
51663	WPAT-FM	FM
48699	WBGO	FM
29022	WXNY-FM	FM

Other Types of Users

Users
WASA-LD
W292DV
W220EJ
WFMU-FM1

Auxiliary Tower

Tower Rigging Costs

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

Auxiliary Tower

Other Tower Expenses Not Listed

Information not provided.

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Located on Building
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1007048
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 44' 54.0" N-
	Longitude (NAD83)	073° 59' 09.0" W-
	Overall Structure Height	1453.39 feet
	Support Structure Height	1249.98 feet
	Ground Elevation Above Mean Sea Level (AMSL)	50.85 feet
	Structure Type	B - Building
	Tower Owner	EMPIRE STATE BUILDING COMPANY

	Date Constructed	01/01/1931

FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

Facility ID	Call Sign	Service
46978	WQXR-FM	FM
19615	WQHT	FM
9611	WCBS-FM	FM
73881	WPIX	DTV
59953	WHTZ	FM
25442	WNEW-FM	FM
73887	WPLJ	FM
73355	WNYC-FM	FM
74197	WWOR-TV	DTV
22206	WNYW	DTV
67846	WFAN-FM	FM
73333	WNJU	DTV
28203	WBLS	FM
6373	WWPR-FM	FM
56571	WLTW	FM
1328	WABC-TV	DTV
168834	WDVB-CD	DTV
9610	WCBS-TV	DTV
6595	WKTU	FM
18795	WNET	DTV
47535	WNBC	DTV
63781	WEPN-FM	FM

61641	WSKQ-FM	FM
23004	WAXQ	FM
67866	WEBR-CD	DTV
73356	WPXN-TV	DTV
74215	WXTV-DT	DTV
43952	WMBC-TV	DTV
51249	WBAI	FM
29022	WXNY-FM	FM
58579	WBMP	FM

Other Types of Users

Users
WPXO-LD

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Site Safety	Safety inspector, engineering, RF safety, security guards, elevator operator
Sidewalk Sheds, General Construction	General contractor, laborers, sidewalk sheds, temporary protection
ESRT TRP tower modification Part 2	Half of ESRT actual costs shown on line 29 of attached list
ESRT TRP tower modification Part 1	Half of ESRT actual costs shown on line 29 of attached list

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	1286
	Explanation	Antenna project conducted and managed by ESRT, price noted separately; hours noted are for management of transmitter and interior transmission line installation; station is staffed to handle routine operation & maintenance only, not construction.
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	Yes

	Authority	
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	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	Yes
	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	No
	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

Information not provided.

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	Yes
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?	No
	Does this relocation require MVPD Notification of a Channel Change?	No

Other Expenses

Other Expenses Not Listed

Name	Description
FM Aux Antenna Installation	Installation of FM auxiliary antenna and combiner system for continuity of FM station operation during TV antenna replacements

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter NV8620	**$280,300.00**	**$241,000.00**		**$625.00**	
Other -- Building Addition Size: 2600.0	***$142,500.00***	$142,500.00	Combiner room supporting facilities modification costs per attached ESRT June cost estimate spreadsheet, $570,000 sum of lines 13, 15, and 18, divided by 4 (one station instead of the 4 assumed in June)	$625.00	N/A
UHF and VHF - minor banding issues	$105,200.00	$67,500.00	N/A	N/A	N/A
30 kW mask filter	$32,600.00	$31,000.00	N/A	N/A	N/A
Auxiliary Transmitter NV8608	**$111,410.00**	**$52,150.00**		**$0.00**	
7 kW mask filter	$6,210.00	$20,150.00	See attached RFS quote	N/A	N/A

			for 7.5 kW filter for sister station KFTV-DT		
UHF and VHF - minor banding issues	$105,200.00	$32,000.00	N/A	N/A	N/A
Sub-total	$391,710.00	$293,150.00	N/A	$625.00	N/A
Total for all systems	$37,829,215.00	$45,060,423.00	N/A	$13,948,428.22	N/A

Components

Actual Information Description	File Name
Other -- Building Addition Size: 2600.0	**Component Description:** 1st Primary Transmitter - Building Addition, 2600 Sq. Ft. **Amount:** $625.00
UHF and VHF - minor banding issues	Information not provided.
30 kW mask filter	Information not provided.
7 kW mask filter	Information not provided.
UHF and VHF - minor banding issues	Information not provided.

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justificatio
Interim Antenna ESBTUF80	**$206,430.00**	**$196,400.00**		**$32,113.60**	
UHF - High Power, Side Mount, broadband panel, 32 bay,, 90 kW input, elliptically or circularly polarized	***$0.00***	$0.00	No changes to existing antenna	N/A	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$2,180.00	N/A
Adding a module to existing combiner (without antenna)	$84,200.00	$80,000.00	N/A	$29,933.60	N/A
Interim antenna rental and installation - Cost will depend on antenna size and height and /or complexity of tower.	$115,500.00	$110,000.00	N/A	N/A	N/A
Primary	**$440,040.00**	**$310,724.00**		**$48,250.00**	

Antenna TFU-16JSC /VP-R CT150					
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	$5,260.00	$5,250.00	per Dielectric Quote 700444CMZ	$5,250.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	$289,500.00	$27,250.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***Horizontally-polarized, medium power antenna from Catalog of Costs, based on ERP and existing antenna power rating	$43,000.00	x
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$20,320.00	Dielectric Quote 900046CMZ	N/A	N/A
UHF - Lower Power Side Mount,	$103,100.00	$240,080.00	Dielectric Quote 900046CMZ	$0.00	N/A

One Station antenna . medium power (50-200 kW), elliptically or circularly polarized					
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$11,424.00	Dielectric Quote 900046CMZ	N/A	N/A
Auxiliary Antenna TUA-08-8 /64U-2-B	**$637,930.00**	**$86,400.00**		**$0.00**	
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, horizontally polarized	$547,000.00	$0.00	No antenna changes	N/A	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A
Adding a module to existing combiner (without antenna)	$84,200.00	$80,000.00	N/A	N/A	N/A

Sub-total	$1,284,400.00	$593,524.00	N/A	$80,363.60	N/A
Total for all systems	$37,829,215.00	$45,060,423.00	N/A	$13,948,428.22	N/A

Components

Actual Information Description	File Name
UHF - High Power, Side Mount, broadband panel, 32 bay,, 90 kW input, elliptically or circularly polarized	Information not provided.
Sweep test of existing antenna	**Component Description:** Professional service to support RF Sweep Testing /Tuning for WFUT on 84th Fl. **Amount:** $2,180.00
Adding a module to existing combiner (without antenna)	**Component Description:** Initial payment - 20% start-up WFUT-UHF combiner installation - Empire State Building Facility **Amount:** $29,933.60
Interim antenna rental and installation - Cost will depend on antenna size and height and/or complexity of tower.	Information not provided.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	**Component Description:** ANTENNA - SCATTER STUDY **Amount:** $5,250.00

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	**Component Description:** **Amount:** **Component Description:** **Amount:** **Component Description:** **Amount:**	Top mount and side mount $11,250.00 Top mount and Side Mount $15,750.00 Top mount and Side mount $16,000.00
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
UHF - Lower Power Side Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly polarized	Information not provided.	
Sweep test of existing antenna	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, horizontally polarized	Information not provided.	
Sweep test of existing antenna	Information not provided.	
Adding a module to existing combiner (without antenna)	Information not provided.	

Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	**$50,500.00**	**$48,000.00**		**$14,090.00**	
Rigid Transmission Line - copper, 6 1/8"	$50,500.00	$48,000.00	N/A	$14,090.00	N/A
Primary Transmission Line	**$78,880.00**	**$75,140.00**		**$0.00**	
Rigid Transmission Line - copper, 6 1 /8" broadband	$78,880.00	$75,140.00	N/A	N/A	N/A
Auxiliary Transmission Line	**$0.00**	**$0.00**		**$0.00**	
Sub-total	$129,380.00	$123,140.00	N/A	$14,090.00	N/A
Total for all systems	$37,829,215.00	$45,060,423.00	N/A	$13,948,428.22	N/A

Components

Actual Information Description	File Name	
Rigid Transmission Line - copper, 6 1/8"	**Component Description:**	Engineering Services; Transmission line sweep analysis for FCC repack.
	Amount:	$4,610.00

	Component Description: **Amount:**	REDUCER STEP TYPE, TRANSFORMER ASSY. $9,480.00
Rigid Transmission Line - copper, 6 1/8" broadband	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 Cos Justificati
Auxiliary Tower BTWR	**$421,000.00**	**$0.00**		**$0.00**	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	$421,000.00	$0.00	No tower modification required	N/A	N/A
Primary Tower B	**$25,999,383.00**	**$33,014,957.00**		**$13,734,266.71**	
ESRT TRP tower modification Part 1	***$8,457,152.00***	$8,457,152.00	Half of line 29 of attached ESRT cost list, for structural analysis and building/tower reinforcement (due to $10M /line limit)	$5,403,834.58	N/A
Structural engineering tower load study for well documented tower	$12,600.00	$829,320.00	ESRT TRP actual costs $739,320 per lines 12-15 & 23 of attached cost list, plus $65,000 attached Univision purchase order for WFUT structural analysis work	$296,702.30	N/A

			presently underway and $25,000 per attached RWDI proposal for wind study.		
Serious tower reinforcement /modifications	$1,052,000.00	$4,338,521.00	ESRT TRP actual cost $307,750 per line 24 of attached cost list, plus 1/3 of difference between attached ESRT June estimate ($29,314,366, lines 69,72,73,77 &78) and TRP actual costs of $17,222,054 (1 antenna instead of the 3 assumed in the estimate)	$3,490,794.27	N/A
Sidewalk Sheds, General Construction	***$6,811,357.00***	$6,811,357.00	ESRT TRP actual costs $2,887,892 per lines 22, 28, & 30 of attached cost list, plus 1/3 of difference between ESRT June estimate ($14,658,286, lines 65-68,70,71) and TRP actual costs (1 antenna instead of the 3 assumed in the estimate)	$1,326.76	N/A

ESRT TRP tower modification Part 2	***$8,457,152.00***	$8,457,152.00	Half of line 29 of attached ESRT cost list, for structural analysis and building/tower reinforcement (due to $10M /line limit)	$4,536,483.80	N/A
Site Safety	***$788,122.00***	$788,122.00	ESRT TRP actual costs $591,430 per lines 25-27 of attached cost list, plus 1/3 of difference between ESRT June estimate ($1,181,505, lines 74-76 & 79) and TRP actual costs (1 antenna instead of the 3 assumed in the estimate)	$0.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	$421,000.00	$3,333,333.00	1/3 of $10,000,000 from line 90 of attached ESRT June cost estimate spreadsheet, due to 1 antenna being installed instead of the 3 assumed in the estimate.	$5,125.00	N/A
Sub-total	$26,420,383.00	$33,014,957.00	N/A	$13,734,266.71	N/A
Total for all systems	$37,829,215.00	$45,060,423.00	N/A	$13,948,428.22	N/A

Components

Actual Information Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.
ESRT TRP tower modification Part 1	**Component Description:** Skanska shall provide structural reinforcement services as indicated by the Phase 1 structural drawings. **Amount:** $1,732,219.59 **Component Description:** RF safety services **Amount:** $1,200.00 **Component Description:** TRP Phase 1a - Abatement Scaffold Engineering Filing-Updated **Amount:** $225.00 **Component Description:** ESB TRP Phase 1 CA Service **Amount:** $811.25 **Component Description:** TRP Phase 1a - Abatement Scaffold Engineering Filing Updated **Amount:** $1,200.00 **Component Description:** Consulting **Amount:** $112.50

Component Description:	Review of FM Aux antenna mounting design and details submitted by antenna manufacturer.
Amount:	$8,215.00
Component Description:	Review of FM Aux antenna mounting design and details submitted by antenna manufacturer
Amount:	$9,677.50
Component Description:	TT will provide construction administration services for Phase 1B of the TRP on a Not-to-Exceed basis.
Amount:	$5,467.50
Component Description:	Review of FM Aux antenna mounting design and details submitted by antenna manufacturer
Amount:	$6,220.00
Component Description:	TT shall provide construction admin services for phase 1 for 12 months.
Amount:	$35.09
Component Description:	Filing fee
Amount:	$100.00

Component Description:	TRP Phase 1
Amount:	$11,040.00
Component Description:	ESB TRP Phase 1 Construction Support
Amount:	$2,157.50
Component Description:	Tower Reconfiguration - Structural Design
Amount:	$77,400.00
Component Description:	Review of FM Aux antenna mounting design & details submitted by antenna manufacturer
Amount:	$4,900.00
Component Description:	Consultation re: filing
Amount:	$675.00
Component Description:	ESB TRP Phase 1 Construction Support
Amount:	$771.25
Component Description:	Review of FM Aux antenna mounting design; Combiner and AC equipment
Amount:	$4,410.00

Component Description:	TRP Logistics Planning - Thornton Tomaseti is engaged to provide construction logistics, phased engineering support, review applicable building codes as it relates to broadcast tower (222-F vs 222-G)
Amount:	$76.02
Component Description:	Skanska shall provide structural reinforcement services as indicated by the Phase 1 structural drawings.
Amount:	$1,461,587.27
Component Description:	Broadcasting-TRP Phase 1
Amount:	$1,161.00
Component Description:	Broadcasting-TRP Phase 1
Amount:	$2,351.00
Component Description:	Broadcasting - TRP Phase 1, Dielectric shall provide consulting services to support the TRP project, design /develop temporary antennas.
Amount:	$9,640.00

Component Description:	TRP Phase 1b, New PO to account for ERI's new invoice
Amount:	$26,275.00
Component Description:	Services as part of the FM Aux Combiner Room build out; structural analysis of ERI's FM System.
Amount:	$3,500.00
Component Description:	Fred Geller Electrical will be supplying a site safety officer for ERI and Skanska's wor1c on TRP lb.
Amount:	$4,600.00
Component Description:	Tower Reconfiguration - Structural Design
Amount:	$9,675.00
Component Description:	Tower Reconfiguration - Structural Design
Amount:	$11,610.00
Component Description:	Fred Geller Electrical, Inc to perform electrical work per attached proposal
Amount:	$74,933.00

Component Description:	Tower Reconfiguration - Structural Design
Amount:	$77,400.00
Component Description:	ESB TRP2 Additional Engineering Services
Amount:	$13,500.02
Component Description:	ESB TRP2 Additional Engineering Services
Amount:	$7,499.97
Component Description:	ESB TRP Phase 1 Final Structural Design Services
Amount:	$20,499.97
Component Description:	TRP Phase 1 , EBS shall provide testing services to determine the existence of ACM in the work areas identified by the construction documents.
Amount:	$6,769.61
Component Description:	Skanska shall provide structural reinforcement services as indicated by the Phase 1 structural drawings.
Amount:	$1,379,584.86

Component Description:	RF safety services
Amount:	$1,745.81
Component Description:	PAL to conduct removal and disposal of ACPI on the 85th floor corridor.
Amount:	$3,048.50
Component Description:	on-site technical advisory services
Amount:	$43,890.00
Component Description:	MDB to maintain sidewalk sheds as part of the TRP Phase 1b installation work
Amount:	$5,044.32
Component Description:	Abatement Scaffold Engineering Filing-Updated
Amount:	$18,826.00
Component Description:	"TRP Phase 1a - Abatement Scaffold Engineering Filing-Updated"
Amount:	$350.00
Component Description:	TRP Phase 1
Amount:	$2,160.00

Component Description:	Filing forms and structural letter of completion; inspection fee
Amount:	$2,500.00
Component Description:	A new chiller will be installed on the 81st Floor (east) setback roof.
Amount:	$4,000.00
Component Description:	construction admini services for Phase 1B, FM Aux antenna mounting design,structural support on the new FM Aux Combiner & AC equipment on 85th fl., new chillers on 81st fl. setback
Amount:	$5,932.50
Component Description:	Review of FM Aux antenna mounting design; Aux Combiner and AC equipment
Amount:	$9,807.50
Component Description:	TRP Phase 1
Amount:	$51,971.25
Component Description:	Filing fee
Amount:	$102.49

Component Description:	TT shall provide construction admin services for phase 1 for 12 months.
Amount:	$105.27
Component Description:	Review of FM Aux antenna mounting design and details submitted by antenna manufacturer
Amount:	$2,450.00
Component Description:	Broadcasting-TRP Phase 1
Amount:	$2,835.00
Component Description:	TT will provide construction administration services for Phase 1B of the TRP on a Not-to-Exceed basis.
Amount:	$4,915.00
Component Description:	ESB TRP Phase 1 Construction Support
Amount:	$10,108.75
Component Description:	Engineering services - 50% Deposit with order
Amount:	$5,125.00

Component Description:	TRP - Phase 1B FM Aux/Broadcast Equipment
Amount:	$3,920.00
Component Description:	TRP Logistics Planning
Amount:	$20,000.01
Component Description:	TRP Phase 1
Amount:	$1,665.00
Component Description:	Consulting re: filing status
Amount:	$112.50
Component Description:	Code review and form filing
Amount:	$4,076.00
Component Description:	TRP Phase 1
Amount:	$6,240.00
Component Description:	TT shall provide construction admin services for phase 1 for 12 months. TT services shall include submittal review, construction meetings and site visits
Amount:	$4,500.00
Component Description:	ESB TRP Phase 1 CA Service
Amount:	$42,256.25

Component Description:	TRP Phase 1b
Amount:	$500.00
Component Description:	TT shall provide construction admin services for phase 1 for 12 months. TT services shall include submittal review, construction meetings and site visits
Amount:	$16,159.28
Component Description:	ESB TRP Phase 1 CA Services
Amount:	$22,226.25
Component Description:	Review of FM Aux antenna mounting design and details submitted by antenna manufacturer.
Amount:	$12,305.00
Component Description:	Review of FM Aux antenna mounting design and details submitted by antenna manufacturer.
Amount:	$4,410.00
Component Description:	Consultation re: filing status
Amount:	$900.00

	Component Description:	ESB TRP2 Construction Logistics/Phasing
	Amount:	$25,000.00
	Component Description:	TRP Phase 1a
	Amount:	$67,407.00
	Component Description:	A new chiller will be installed on the 81st Floor (east) setback roof.
	Amount:	$12,000.00
	Component Description:	Tower Reconfiguration - Structural Design
	Amount:	$7,740.00
Structural engineering tower load study for well documented tower	**Component Description:**	TRP Phase 1
	Amount:	$7,300.00
	Component Description:	TT to provide additional structural engineering services as part of the TRP Phase 1B project.
	Amount:	$7,500.00
	Component Description:	Structural Engineering Tower load study
	Amount:	$19,998.00

Component Description:	services to do a full-scale windload testing of the Temporary enclosure material
Amount:	$19,600.00
Component Description:	Tower Reconfiguration
Amount:	$114,700.00
Component Description:	TRP Phase 1
Amount:	$82.91
Component Description:	TRP Phase 1
Amount:	$19.37
Component Description:	TT shall provide construction admin services for phase 1 for 12 months. TT services shall include submittal review, construction meetings and site visits
Amount:	$12,416.30
Component Description:	Services to do a full-scale windload testing o
Amount:	$8,850.00

Component Description:	TRP Logistic Planning, Tom Silliman of ERI will attend a three day walk thru and meetings at ESB from 8/20 to 8/22.
Amount:	$9,038.00
Component Description:	structural review and analysis services
Amount:	$2,500.02
Component Description:	TRP Phase 1
Amount:	$2,640.00
Component Description:	TRP Phase 1
Amount:	$21,697.79
Component Description:	TRP Phase 1
Amount:	$164.36
Component Description:	Univision Antenna Installation
Amount:	$14,999.98
Component Description:	Please deny this invoice
Amount:	N/A
Component Description:	Please Deny this invoice.
Amount:	N/A

Component Description:	ESB TRP2 Additional Engineering Services
Amount:	$38.23
Component Description:	Initial Structural Design Services
Amount:	$50.33
Component Description:	Tower Reconfiguration
Amount:	$24,950.00
Component Description:	Please deny this invoice.
Amount:	N/A
Component Description:	Tower Reconfiguration - Structural Design
Amount:	$9,677.97
Component Description:	TRP Phase 1
Amount:	$44.63
Component Description:	Please Deny this invoice.
Amount:	N/A
Component Description:	TRP Phase 1
Amount:	$25,384.41
Component Description:	Structural study
Amount:	$20,000.00
Serious tower	

reinforcement/modifications

Component Description:	ESP TRP Phase 1 Construction Support
Amount:	$24,306.25
Component Description:	Broadcasting - TRP
Amount:	$1,197.62
Component Description:	TRP Phase 1
Amount:	$8,988.95
Component Description:	Expedited filing services for the structural work
Amount:	$3,365.00
Component Description:	Mancini Duffy shall prepare filing documents for Phase 1 and Phase 2. Mancini shall provide construction administration for the build out of the combiner room on 85.
Amount:	$1,891.36
Component Description:	Mancini Duffy shall prepare filing documents for Phase 1 and Phase 2. Mancini shall provide construction administration for the build out of the combiner room on 85.
Amount:	$570.49

Component Description:	Mancini Duffy shall prepare filing documents for Phase 1 and Phase 2. Mancini shall provide construction administration for the build out of the combiner room on 85.
Amount:	$1,755.45
Component Description:	ESB TRP Phase 1 Final Structural Design Services
Amount:	$22,000.01
Component Description:	Broadcast tower and 85th floor, FGE to furnish all labor and material to complete electrical work.
Amount:	$5,966.35
Component Description:	MDB to maintain sidewalk sheds as part of the TRP Phase 1b installation work
Amount:	$450.44
Component Description:	TRP Phase 1b - FM Aux, Electronics Research Inc. (ERI) will furnish and install a complete FM Aux system
Amount:	$1,126,291.37

Component Description:	TRP Phase 1b - FM Aux, Electronics Research Inc. (ERI) will furnish and install a complete FM Aux system
Amount:	$1,445,945.00
Component Description:	MDB to maintain sidewalk sheds as part of the TRP Phase 1b installation work.
Amount:	$1,970.89
Component Description:	TRP Phase 1B, Flagg Waterproofing and Restoration to perform water proofing work
Amount:	$63,774.00
Component Description:	TRP Phase 1B, Flagg Waterproofing and Restoration to perform water proofing work in accordance with CRS documents SK-A
Amount:	$88,330.00
Component Description:	TRP Phase 1, EverGreene Architectural Arts shall furnish and install the current murals
Amount:	$12,286.54

Component Description:	TRP Phase 1, TRP Phase 1
Amount:	$12,286.54
Component Description:	TRP Phase 1b - FM Aux, Electronics Research Inc. (ERI) will furnish and install a complete FM Aux system
Amount:	$601,201.30
Component Description:	Duggal to create replacement banner for State Bar and Grill to be attached on the new 33rd street side walk shed.
Amount:	$4,904.82
Component Description:	Preparation and filing of forms and structural letter of completion
Amount:	$1,526.00
Component Description:	TRP Phase 1
Amount:	$24,788.39
Component Description:	TRP Phase 1
Amount:	$11,627.50
Component Description:	TRP Phase 1
Amount:	$20,000.00

Component Description: ESB Tower Reconfiguration- revision of construction documents

Amount: $12,000.00

Component Description: ESB Tower Reconfiguration - professional architectural and interior design services for the revision of construction documents

Amount: $4,515.00

Component Description: ESB Tower Reconfiguration - professional architectural and interior design services for the revision of construction documents

Amount: $3,574.95

Component Description: ESB Tower Reconfiguration - professional architectural and interior design services for the revision of construction documents

Amount: $4,250.00

	Component Description: Tower reconfiguration **Amount:** $40,766.31 **Component Description:** TRP Phase 1 **Amount:** $5,370.00 **Component Description:** ESB Tower Reconfiguration - professional architectural and interior design services for the revision of construction documents **Amount:** $6,674.34 **Component Description:** Tower reconfiguration **Amount:** $10,036.81 **Component Description:** ESB Tower Reconfiguration - professional architectural and interior design services for the revision of construction documents **Amount:** $4,253.61 **Component Description:** Tower Reconfiguration **Amount:** $4,542.07
Sidewalk Sheds, General Construction	

	Component Description:	Existing Primary Tower - Sidewalk Sheds, General Construction
	Amount:	$1,326.76
ESRT TRP tower modification Part 2	**Component Description:**	Structural reinforcement services
	Amount:	$4,533,753.80
	Component Description:	TRP Phase 2&3
	Amount:	$2,730.00
	Component Description:	TRP Phase 2&3
	Amount:	$1,200.00
	Component Description:	TPR Phase 2&3
	Amount:	$630.00
Site Safety	Information not provided.	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	**Component Description:**	Engineering Services
	Amount:	$5,125.00

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 C Justifica
Outside Professional Services	**$264,423.00**	**$1,697,298.00**		**$113,832.91**	
Project management of the transition	$203,188.00	$1,631,875.00	Predetermined cost (Univision direct cost) plus ESRT TRP actual costs $1,585,075 per lines 79-82 of attached cost list	$109,745.41	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,375.00	See invoice du Treil, Lundin & Rackley, Inc #240621	$3,375.00	s
RF Exposure Measurements	$21,050.00	$38,548.00	Attached ESRT TRP cost line 92, for Auxiliary FM Master Antenna, previously installed, plus predetermined $20,000 for WFUT antenna	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 - Negotiation of lease and other matters for shared locations	$4,210.00	$4,000.00	N/A	$712.50	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	$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$2,500.00	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	N/A	N/A
Perform engineering study for new channel assignment and antenna development	$7,360.00	$250.00	Please see the attached invoice from dru Treil, Lundin & Rackley, Inc. # 240776	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	$2,105.00	$2,000.00	N/A	N/A	N/A
Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	N/A	N/A
Sub-total	$264,423.00	$1,697,298.00	N/A	$113,832.91	N/A
Total for all systems	$37,829,215.00	$45,060,423.00	N/A	$13,948,428.22	N/A

Components

Actual Information Description	File Name
Project management of the transition	

Component Description: Project Management and Repack Implementation Engineering Services
Amount: $1,987.50

Component Description: Project Management
Amount: $2,199.85

Component Description: Project Management
Amount: $2,021.05

Component Description: Antenna Upgrade Management Fees
Amount: $5,435.00

Component Description: Antenna Upgrade Management Fees
Amount: $5,435.00

Component Description: Travel time to/from field engineering work. On-site retuning of former WXTV channel 40 /41 transmission line to channel 30 for use by WFUT.
Amount: $4,872.69

Component Description: Project Management
Amount: $37.50

Component Description:	Antenna Upgrade Management Fees
Amount:	$5,435.00
Component Description:	Antenna Upgrade Management Fees
Amount:	$5,435.00
Component Description:	Antenna Upgrade Management Fees
Amount:	$5,435.00
Component Description:	Project Management and Repack Implementation Engineering Services
Amount:	$2,938.46
Component Description:	Project Management
Amount:	$3,525.05
Component Description:	Project Management and Repack Implementation Engineering Services
Amount:	$4,717.40
Component Description:	Project Management and Repack Implementation Engineering Services
Amount:	$6,712.50

	Component Description: **Amount:**	Project Management $8,541.90
	Component Description: **Amount:**	Project Management $30,734.55
	Component Description: **Amount:**	Project Management $24,589.65
	Component Description: **Amount:**	Antenna Upgrade Management Fees $10,870.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Engineering study. Preparation of the engineering section of FCC Form 2100. Professional Services $250.00
	Component Description: **Amount:**	Preparation of the engineering section of FCC Form 2100. $2,000.00
	Component Description: **Amount:**	Comparison of DA & omni antennas & service, Master antenna waveguide size review $1,125.00
RF Exposure Measurements	Information not provided.	

Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Negotiation of lease and other matters for shared locations	**Component Description:** **Amount:**	K. Lahm - Support of legal analysis of ESRT reimbursement claim, CBS combiner measurement planning $712.50
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Information not provided.	

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.
Prepare and or review reimbursement form	Information not provided.

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	**$9,338,919.00**	**$9,338,354.00**		**$5,250.00**	
FM Aux Antenna Installation	***$9,118,509.00***	$9,118,509.00	Line 58 of attached ESRT TRP cost list	N/A	N/A
Non-zoning permits	***$208,330.00***	$208,330.00	ESRT TRP actual costs $149,165 per lines 44-46 of attached cost list for FM and tower work completed to date, plus repeat of lines 44 & 45 ($59,165), estimated cost of permits for WFUT antenna & tower work going forward	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	N/A	N/A	N/A
FCC Filing Fees - Form	$335.00	$325.00	N/A	N/A	N/A

2100 license to cover application					
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	$5,250.00	N/A
Sub-total	$9,338,919.00	$9,338,354.00	N/A	$5,250.00	N/A
Total for all systems	$37,829,215.00	$45,060,423.00	N/A	$13,948,428.22	N/A

Components

Actual Information Description	File Name
FM Aux Antenna Installation	Information not provided.
Non-zoning permits	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
DTV Medical Facility Notification	**Component Description:** Medical Notification Mailing Complete per FCC Repack **Amount:** $5,250.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$37,829,215.00	$45,060,423.00	$13,948,428.22

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.	**Marcello Enriquez** *Senior Finance Analyst* 05/14/2019

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.	**Marcello Enriquez** *Senior Finance Analyst* 05/14/2019

Attachments