



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **73982** | Service: **DTV** | Call **WSBK-TV** | Channel: **21 (UHF)**
ID: | Sign:
File **0000027826**
Number:
FRN: **0021079769** | Date **02/21**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
CBS TELEVISION LICENSES LLC Doing Business As: CBS TELEVISION LICENSES LLC	Daniel G. Ryson 1725 DeSales St. NW Suite 501 Washington, DC 20036 United States	+1 (202) 457-4505	dryson@cbs.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
Daniel G. Ryson <i>Associate Director of Spectrum Management</i> <i>CBS</i>	Daniel G. Ryson 1725 DeSales St. NW Suite 501 Washington, DC 20036 United States	+1 (202) 457-4074	dryson@cbs.com

Broadcaster Information and Transition Plan

Question	Response
<p>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.</p>	<p>Yes</p>
<p>Briefly describe transition plan</p>	<p>American Tower will build an interim site in Needham, MA with broadband ant and tx bldg to be used by WSBK-TV and all stations listed above. Main site will be built in Needham Heights, MA</p>

Transmitters

Section	Question	Response
<p>Transmitter Related Expenses</p>	<p>Do you have transmitter related expenses?</p>	<p>Yes</p>

**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	Diamond
	Year	2002
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	7 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	UAXTE-24
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	14.4 kW
	Justification for New Transmitter	Existing transmitter cannot be re-tuned to the new channel.

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	Yes

	Description	Surge suppressor and 75 kVa transformer. Required by primary transmitter. See Exhibit 1 Item D.
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 leasehold 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**
Information not provided.

**Interim
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	UAXTE-32 WB
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	15.36 kW
	Justification for New Transmitter	Interim transmitter needed while construction at the main site is in progress. A wideband transmitter is required for interim operation on both channels 39 and 21. See Exhibit 25.

**Interim
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	500 kVA
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	200.0 feet
	Other Electrical Service	Yes
	Description	Transformer and surge suppressor required for transmitter operation. See Exhibit 7, Item D.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold 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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No

**Interim
Transmitter**

Other Transmitter Cost Not Listed

Name	Description
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Emergency Generator	Primary site has an emergency generator. This cost replicates backup power at the interim site.
New Sub Panels	4 new sub panels at approximately 200 amps each, to power each additional transmitter, house power, HVAC, and ancillary equipment. See Exhibit 3.
Transmitter Electrical	Install Electrical for transmitter, pumps, racks, transformer, etc.
4 Inch Conduit	100' L/F of 4" conduit and larger conductor to power new transmitters, HVAC, Air handlers and house power. The existing power supply is for the additional power demands of the new repack equipment. See Exhibit 3.

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	Lease New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	American Tower
	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?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	4
	Number of Panels	99
	Design power capacity in use	87.0 %
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	135.0 kW

Manufacturer	
Model	TAD-24UDA-5/60-MR
Year	1999

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

Facility ID	Call Sign
72098	WGBX-TV
25456	WBZ-TV
65684	WCVB-TV

**Primary
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Lease New
	Is this a request for upgraded equipment?	Yes
	Ownership	Leased
	Owner	American Tower Corporation
	Is antenna shared?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	4
	Number of Panels/Bays	56
	Lower Limit	470.00 MHz
	Upper Limit	608.00 MHz
	Design power capacity in use	99.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	92.2 kW
	Manufacturer	

Model	TUM-AP-O4-14/56H-2-T
Year	2020
Justification for New Antenna	Top Mount 14 bay Broadband antenna required to accommodate the new repack frequencies. This antenna will be a four-sided assembly mast. In use power capacity is unknown. Pre-transition antenna has 120 panels. See Exhibit 2.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	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?	Yes
	Broadband or Single Channel?	Broadband

	Feed Line Size	8 3/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Enter a list of RF channel numbers.

RF Channel Number
20
21
32
33

**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Combiner Installation	Installation cost of the new dual chain combiner with 8 modules; replacing existing combiner. See Exhibit 2.

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Lease New
	Ownership	Leased
	Owner	American Tower Corporation
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	5
	Number of Panels/Bays	56
	Lower Limit	470.00 MHz
	Upper Limit	650.00 MHz
	Design power capacity in use	99.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	99.2 kW
	Manufacturer	
Model	TUM-AP-O4-14/56H-2-T 14	

Year	2018
Justification for New Antenna	Top Mount 14 bay Broadband antenna required to accommodate the new repack frequencies. This antenna will be a four-sided assembly mast. In use power capacity is unknown. See Exhibit 3.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	5
	Frequencies of channels supported	Upper and lower frequency
	Frequency	470.0 MHz - 650.0 MHz
	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?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	7 3/16 inches

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

**Interim
Antenna**

Other Antenna Cost Not Listed

Name	Description
Tower Rent	One-time tower rental during repack. See Exhibit 3.
Combiner Installation	Installation of combiner; Single chain of 5 high power constant impedance waveguide modules, and/or dual chains of 5 directional filter modules per Dielectric layout. required for broadband antenna system. See Exhibit 3.

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

Primary Transmission Line
Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	American Tower Corporation
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1440 feet per run

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

Facility ID	Call Sign
72098	WGBX-TV
25456	WBZ-TV
65684	WCVB-TV

Other Transmission Line Expenses Not Listed

Primary Transmission Line

Name	Description
Nitrogen Generator	Nitrogen Generator. See Exhibit 14.

New Transmission Line

Interim Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Lease New
	Type	Rigid
	Diameter	8 3/16 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	2
	Length	1250 feet per run
	Justification for New Transmission Line	Two (2) 8-inch broadband rigid transmission lines, six (6) elbows (3 each line). Because this line size is an

upgrade, we will only seek reimbursement for 7-inch line.

Interim **Other Transmission Line Expenses Not Listed**
Transmission information not provided.
Line

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

Add Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Interim
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1004233
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	42° 18' 10.7" N-
	Longitude (NAD83)	071° 13' 04.9" W-
	Overall Structure Height	1200.77 feet
	Support Structure Height	1101.04 feet
	Ground Elevation Above Mean Sea Level (AMSL)	150.92 feet
	Structure Type	GTOWER - Guyed

	Structure Used for Communication Purposes
Tower Owner	American Towers, LLC
Date Constructed	04/19/2005

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
26897	WWBX	FM
73238	WLVI	DTV
1901	WBZ-FM	FM
9639	WODS	FM
23439	WBOS	FM
6463	WFXT	DTV

Auxiliary 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:	Minor Reinforcements needed

Auxiliary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	Candelabra

Helicopter Services Required	Are helicopter services required?	No
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Auxiliary Tower

Other Tower Expenses Not Listed

Name	Description
Tower Permit Packages	Tower and ground equipment drawing package. Required for local approvals. See Exhibit 3.
Construction Management	Nine hours on Modification project management and fifteen hours for RF installation project management for a total of twenty days. See Exhibit 3.

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	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	1003433
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	42° 18' 37.0" N-
	Longitude (NAD83)	071° 14' 12.0" W-
	Overall Structure Height	1296.24 feet
	Support Structure Height	1192.24 feet
	Ground Elevation Above Mean Sea Level (AMSL)	152.89 feet
	Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
	Tower Owner	American Tower, LLC
	Date Constructed	01/01/1957

**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
72098	WGBX-TV	DTV
68241	WBUR-FM	FM
18783	WYDN	DTV
72099	WGBH-TV	DTV
65684	WCVB-TV	DTV
25456	WBZ-TV	DTV
10542	WKLB-FM	FM

**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:	Minor Reinforcements needed

**Primary
Tower**

Tower Rigging Costs

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

**Primary
Tower**

Other Tower Expenses Not Listed

Name	Description
Tower Permit Packages	Construction drawing packages for tower, building, and ground. See Exhibit 14.
Construction Management	(44) hours on Modification project management and RF installation project management. See Exhibit 14.
Site Coordination Meetings	Coordination and transition planning with all parties onsite. See Exhibit 14.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	250
	Explanation	Company lacks internal resources.
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	Yes
	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	No
	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare and file Form FCC License to Cover Application	No
	For Auxiliary Facility	N/A

	For Main Facility	N/A
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	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	No
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Other Professional Services Expenses Not Listed

Outside Professional Services Costs

Name	Description
RF System Test	Testing of the combiner to ensure all frequencies are tuned for optimal patterns. See Exhibits 2 and 3.
Site Coordination Meeting	Site coordination meetings with all broadcasters, contractors and vendors involved with the site deliveries and construction. This cost is for travel and logistics expenses accrued. (See Exhibit 2.)

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	No
	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?	Yes
	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?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Asbestos and Lead Paint Testing	Asbestos testing, removal and abatement for walls which could contain lead paint and /or the flooring may contain asbestos, because of the age of the facility and the era when the original construction took place. (See Exhibit 3.)
Building Partition	This cost is to provide permitting for building partition and electrical service installation in the shared space. This install is to provide security for broadcasters and sufficient power for transmitters. See Exhibit 3.
Ice Shield for HVAC	Ice protection for HVAC compressor units near tower in areas prone to ice and snow. See Exhibit 3.
Public Hearing	Public hearing to alter height of primary tower by changing top antenna. See Exhibit 2.
Site Coordination Meeting	Site coordination meetings with all broadcasters, contractors and vendors involved with the site deliveries and construction. This cost is for travel and logistics expenses accrued. See Exhibits 2 and 3.
Site Security	Site security for installation and storage of Transmission line and materials for 30 days X 12 hours. These materials are a high risk of theft due to the material makeup such as copper, brass and aluminum. (See Exhibit 3.)
Deinstall Old Transmitter	Complete removal and deinstallation of existing WSBK transmitter. See Exhibit 1 Item F.

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
Interim Transmitter UAXTE-32 WB	\$1,069,397.48	\$983,357.48		\$718,657.56	
4 Inch Conduit	<i>\$1,920.00</i>	\$1,920.00	100' L/F of 4" conduit and larger conductor for 500 KVA power needed for the new transmitters, HVAC, Air handlers and house power. The existing power supply is for the additional power demands of the new repack equipment. See Exhibit 3.	\$1,440.00	N/A
Transmitter Electrical	<i>\$60,478.00</i>	\$60,478.00	Install electrical for GatesAir UAXTE-32 transmitter, pumps, heat exchangers, transformer, racks, etc. See Exhibits 18 (for initial UAXTE-16) and 23 (for additional work required by UAXTE-32 transmitter).	\$60,478.00	N/A
Emergency Generator	<i>\$103,857.00</i>	\$103,857.00	Cost includes the connection fee and an assumed	\$100,000.00	N/A

			7-months of rent at \$551/month for interim operation. Please see lease provided as Exhibit 32.		
Other -- HVAC Service Type: C Size:20 (Other)	<i>\$22,000.00</i>	\$22,000.00	Two 20 ton HVAC units required to maintain operational temperatures for repack transmitters. This is to supplement existing HVAC units already in place. See Exhibit 3.	\$16,500.00	N/A
Other Electrical Service: Transformer and surge suppressor required for transmitter operation. See Exhibit 7, Item D.	<i>\$4,226.37</i>	\$4,226.37	Transformer and surge suppressor. Required for proper operation of transmitter. See Exhibit 7 Item D.	\$4,226.37	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$1,000.00	200 L/F of 2" conduit and conductor to adequately supply the HVAC, Air handlers and House power. The existing power supply is inadequate for the additional power demands of the new repack equipment. See Exhibit 3.	\$750.00	N/A

Transformer 3 phase /480v - 500 KVA	\$48,400.00	\$9,200.00	Install additional power, 500 KVA transformer, for new tenant space so customer can operate transmitter, heat exchangers and other equipment on the new repack frequency into the broadband antenna. See Exhibit 3.	\$6,900.00	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$7,260.00	Switchgear accommodates repack equipment and support the new 500 KVA transformer. The existing service does not have sufficient capacity to support multiple transmitters. See Exhibit 3.	\$5,445.00	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$2,700.00	New Switchgear required for the additional repack equipment. The switch will support the new 500 KVA transformer. The existing service does not have sufficient capacity to support multiple transmitters. See Exhibit 3.	\$2,055.00	N/A
UHF - Air Cooled Solid State	\$513,363.19	\$513,363.19	Includes UAXTE-16 (\$247,352.92) plus transmitter	\$266,010.27	N/A

Transmitter 15.36 kW			field upgrade to UAXTE-32 (\$266,010.27). Includes transformer and installation but not freight or tax. See Explanation in Exhibit 25.		
New Sub Panels	<i>\$10,000.00</i>	\$10,000.00	Four new 200 amp sub panels to power additional transmitter, house power, HVAC, and ancillary equipment. See Exhibit 3.	\$7,500.00	N/A
UHF - Air Cooled Solid State Transmitter 7.68 kW	<i>\$247,352.92</i>	\$247,352.92	***System Notice: Estimate adjusted and locked because line has been superseded. ***Originally proposed UAXTE-12R44 is said to be incapable of operating on both pre- transition and post-transition channels. See Exhibit 12 for justification. See also Exhibit 7 Items A, B, C, and E.	\$247,352.92	Corrected metadata (invoice and due dates) March 1, 2018.
Primary Transmitter UAXTE-24	\$261,930.23	\$261,930.23		\$238,820.96	
Other Electrical Service: Surge suppressor	<i>\$5,552.76</i>	\$5,552.76	75 KVA transformer and parallel surge suppressor. Required for	\$5,552.76	N/A

and 75 kVa transformer. Required by primary transmitter. See Exhibit 1 Item D.			proper operation of the transmitter.		
UHF - Air Cooled Solid State Transmitter 14.4 kW	<i>\$161,634.06</i>	\$161,634.06	Please see Exhibit 1 for non-upgraded transmitter quotation. This estimate is for Exhibit 1 items A, B, C, and D minus the down payment shown in another (locked) cost category. Upgrade estimate is Exhibit 34.	\$138,524.79	N/A
UHF - Air Cooled Solid State Transmitter 7.2 kW	<i>\$94,743.41</i>	\$94,743.41	***System Notice: Estimate adjusted and locked because line has been superseded. ***Primary transmitter required for repack. See Exhibit 1, items A, B, C, and E.	\$94,743.41	N/A
Sub-total	\$1,331,327.71	\$1,245,287.71	N/A	\$957,478.52	N/A
Total for all systems	\$5,147,844.71	\$2,236,614.71	N/A	\$1,372,992.84	N/A

Components

Actual Information Description	File Name
4 Inch Conduit	

Component Description:

Invoice is 50%
Down Payment for
\$230,591.50 ATC
total estimated
cost. (See Exhibit
3). This amount is
50% of 4-inch rigid
conduit, Exhibit 3,
3-C-1.

Amount:

\$960.00

Component Description:

Invoice is 25%
Down Payment for
\$115,297.75 ATC
total estimated
cost. (See Exhibit
3). This amount is
25% of 4-inch rigid
conduit, Exhibit 3,
3-C-1.

Amount:

\$480.00

Transmitter Electrical

Component Description:

Work completed to
increase power
capacity for larger
(but not upgraded)
interim transmitter.
See quote in
Exhibit 29. The
form won't permit
entry of
ampersand in
company name.

Amount:

\$16,508.00

Component Description: Work completed for original interim transmitter electrical. Invoice is for 10% retainage deducted earlier. See Exhibit 35. The form won't permit entry of ampersand in company name.

Amount: \$4,397.00

Component Description: Work completed for original interim transmitter electrical minus 10% retainage. See Exhibit 30. The form won't permit entry of ampersand in company name.

Amount: \$19,800.00

Component Description: Work completed minus 10% retainage. See Exhibit 19. The form won't permit entry of ampersand in company name.

Amount: \$19,773.00

Emergency Generator

Component Description: Generator Connection Fee. Please see lease provided as Exhibit 32.

Amount: \$100,000.00

Other -- HVAC Service
Type: C Size:20 (Other)

Component Description:

Invoice is 50%
Down Payment for
\$230,591.50 ATC
total estimated
cost. (See Exhibit
3). This amount is
50% of 20-Ton
HVAC, Exhibit 3, 3-
C-2.

Amount:

\$11,000.00

Component Description:

Invoice is 25%
Down Payment for
\$115,297.75 ATC
total estimated
cost. (See Exhibit
3). This amount is
25% of 20-Ton
HVAC, Exhibit 3, 3-
C-2.

Amount:

\$5,500.00

Other Electrical Service:
Transformer and surge
suppressor required for
transmitter operation. See
Exhibit 7, Item D.

Component Description:

Invoice is for
Balance Due on
Interim
Transmitter,
including item D -
Electrical. This
invoice is split
between this
category and the
transmitter
category.

Amount:

\$4,226.37

2" Rigid Conduit and Wiring
(Cost per foot)

	<p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of 2-inch rigid conduit, Exhibit 3, 3-C-1.</p> <p>Amount: \$250.00</p>
	<p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of 2-inch rigid conduit, Exhibit 3, 3-C-1.</p> <p>Amount: \$500.00</p>
<p>Transformer 3 phase/480v - 500 KVA</p>	<p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of 500 KVA Transformer, Exhibit 3, 3-C-1.</p> <p>Amount: \$2,300.00</p> <p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of 500 KVA Transformer, Exhibit 3, 3-C-1.</p> <p>Amount: \$4,600.00</p>

Switchgear - industrial 800 amp

Component Description:

Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Switch Gear, Exhibit 3, 3-C-1.

Amount:

\$3,630.00

Component Description:

Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Switch Gear, Exhibit 3, 3-C-1.

Amount:

\$1,815.00

Service entrance 3 phase /800 amp/208 volt

Component Description:

Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Service Entrance, Exhibit 3, 3-C-1.

Amount:

\$685.00

Component Description:

Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Service Entrance, Exhibit 3, 3-C-1.

Amount:

\$1,370.00

UHF - Air Cooled Solid
State Transmitter 15.36 kW

Component Description:

Interim
Transmitter
Upsize Progress
Payment. See
quote and
statement in
Exhibit 41 and
justification in
Exhibit 25. Freight
listed separately.

Amount:

\$76,845.91

Component Description:

Down Payment for
transmitter size
increase. See
quote in Exhibit 22
and explanation in
Exhibit 25A.

Amount:

\$100,494.27

Component Description:

\$0 Requested
amount because
invoice was
inadvertently
uploaded to
incorrect category.
See Exhibit 31A.

Amount:

N/A

Component Description:

Interim
Transmitter
Upsize Progress
Payment. See
quote in Exhibit 22
and justification in
Exhibit 25.

Amount:

\$88,670.09

New Sub Panels

	<p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Electrical Sub Panels, Exhibit 3, 3-C-6.</p> <p>Amount: \$5,000.00</p> <p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Electrical Sub Panels, Exhibit 3, 3-C-6.</p> <p>Amount: \$2,500.00</p>
<p>UHF - Air Cooled Solid State Transmitter 7.68 kW</p>	<p>Component Description: WSBK Interim Transmitter Down Payment.</p> <p>Amount: \$91,252.45</p> <p>Component Description: Interim Transmitter Progress Payment.</p> <p>Amount: \$89,185.78</p> <p>Component Description: Invoice is for remainder due on interim transmitter. This invoice is split between this cost category and transmitter electrical.</p> <p>Amount: \$66,914.69</p>

Other Electrical Service:
Surge suppressor and 75
kVa transformer. Required
by primary transmitter. See
Exhibit 1 Item D.

Component Description: 2/3 of the primary
transmitter
electrical devices.
Please see Exhibit
38A.

Amount: \$3,701.84

Component Description: Final 1/3 of
primary transmitter
electrical devices.
Please see Exhibit
39A.

Amount: \$1,850.92

UHF - Air Cooled Solid
State Transmitter 14.4 kW

Component Description: Primary
transmitter
payment #3.
Electrical costs
shown separately.
Please see Exhibit
39A.

Amount: \$51,926.96

Component Description: This is the primary
transmitter
payment #2. Cost
excludes upgrade
shown in Exhibit
31A. Please see
Exhibit 38A.

Amount: \$86,597.83

Component Description: Invoice is 100%
for a transmitter
upgrade that is not
reimbursable
under FCC policy.
Please see Exhibit
31A.

Amount: N/A

UHF - Air Cooled Solid

State Transmitter 7.2 kW

Component Description:

WSBK Primary
Transmitter Down
Payment. See
Exhibit 8.

Amount:

\$94,743.41

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TUM-AP-O4-14/56H-2-T 14	\$252,167.00	\$289,447.00		\$168,767.25	
Combiner Installation	<i>\$10,000.00</i>	\$10,000.00	Installation of combiner; Single chain of 5 high power constant impedance waveguide modules, and /or dual chains of 5 directional filter modules per Dielectric layout. See Exhibit 15.	\$5,250.00	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$6,660.00	Two (2) Elbow complex for the input of the new Broadband antenna. See Exhibit 14.	\$5,400.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$135,400.00	Dual chains of mask filter /combiner modules per Dielectric layout. Includes input power dividers and output	\$50,250.00	N/A

switching to allow transmitter alignment /testing not otherwise available. Eliminates need for mask filter. See Exhibit 15.

Sweep test of existing antenna	\$6,730.00	\$3,000.00	RF system testing for two (2) lines and one (1) antenna. See Exhibit 3.	\$2,250.00	N/A
UHF - High Power Top Mount Five Station broadband panel antenna elliptically or circularly polarized	\$76,787.00	\$76,787.00	New Antenna and assembly mast. Stack will be placed directly onto existing center tower section and require a short pedestal of height. See Exhibit 15.	\$62,417.25	N/A
Tower Rent	\$57,600.00	\$57,600.00	One-time interim tower rental for repack period.	\$43,200.00	N/A
Primary Antenna TUM-AP-O4-14/56H-2-T	\$1,211,130.00	\$244,000.00		\$61,590.62	
Combiner Installation	\$11,250.00	\$11,250.00	Installation of dual chain combiner. See Exhibit 14.	\$2,187.50	N/A
Elbow	\$18,950.00	\$10,000.00	Elbow	\$2,250.00	N/A

complex, broadband, at antenna input, per 8 3/16. feedline (if needed)			complex for top mount antenna being used for repacked stations aux antenna. See Exhibit 14.		
New combiner, cost per channel (without antenna)	\$84,200.00	\$91,500.00	Constant impedance waveguide modules, and /or dual chains of 4 directional filter modules per Dielectric layout. Eliminates need for transmitter mask filter. See Exhibit 14.	\$18,750.00	N/A
Sweep test of existing antenna	\$6,730.00	\$5,000.00	RF System Testing. See Exhibit 2.	\$1,250.00	N/A
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	\$1,090,000.00	\$126,250.00	TUM-AP-O4-14/56H-2-T Top Mount 14 bay Broadband antenna, with 56 elements total, required to accommodate the new repack frequencies. This antenna will be a four-sided assembly mast. See Exhibit 14.	\$37,153.12	N/A
Sub-total	\$1,463,297.00	\$533,447.00	N/A	\$230,357.87	N/A

Total for all systems	\$5,147,844.71	\$2,236,614.71	N/A	\$1,372,992.84	N/A
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Components

Actual Information		
Description	File Name	
Combiner Installation	Component Description:	Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Interim Combiner Installation, Exhibit 3, 3-C-2.
	Amount:	\$3,500.00
	Component Description:	Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Interim Combiner Installation, Exhibit 3, 3-C-2.
	Amount:	\$1,750.00
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Component Description:	Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Interim Elbow Complex, Exhibit 3, 3-C-2.
	Amount:	\$3,600.00

	<p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Interim Elbow Complex, Exhibit 3, 3-C-2.</p> <p>Amount: \$1,800.00</p>
<p>New combiner, cost per channel (without antenna)</p>	<p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Interim Combiner, Exhibit 3, 3-C-1.</p> <p>Amount: \$33,500.00</p> <p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Interim Combiner, Exhibit 3, 3-C-1.</p> <p>Amount: \$16,750.00</p>
<p>Sweep test of existing antenna</p>	

Component Description:

Invoice is 25%
Down Payment for
\$115,297.75 ATC
total estimated
cost. (See Exhibit
3). This amount is
25% of Interim
Antenna and Line
Sweep Test,
Exhibit 3, 3-C-2.
\$750.00

Amount:**Component Description:**

Invoice is 50%
Down Payment for
\$230,591.50 ATC
total estimated
cost. (See Exhibit
3). This amount is
50% of Interim
Antenna and Line
Sweep Test,
Exhibit 3, 3-C-2.
\$1,500.00

Amount:

UHF - High Power Top
Mount Five Station
broadband panel antenna
elliptically or circularly
polarized

Component Description:

Invoice is 25%
Down Payment for
\$115,297.75 ATC
total estimated
cost. (See Exhibit
3). This amount is
25% of Interim
Antenna, Exhibit
3, 3-B.
\$20,805.75

Amount:

	<p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Interim Antenna, Exhibit 3, 3-B.</p> <p>Amount: \$41,611.50</p>
Tower Rent	<p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Interim Tower Rent, Exhibit 3, 1-B-1.</p> <p>Amount: \$14,400.00</p> <p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Interim Tower Rent, Exhibit 3, 1-B-1.</p> <p>Amount: \$28,800.00</p>
Combiner Installation	

	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary antenna. See Exhibit 36A item 3-C-2.</p> <p>Amount: \$2,187.50</p>
<p>Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)</p>	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary antenna elbow complex. See Exhibit 36A item 3-C-2.</p> <p>Amount: \$2,250.00</p>
<p>New combiner, cost per channel (without antenna)</p>	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary antenna combiner. See Exhibit 36A item 3-C-1.</p> <p>Amount: \$18,750.00</p>
<p>Sweep test of existing antenna</p>	

	<p>Component Description:</p>	<p>This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the sweep test of the primary antenna. See Exhibit 36A item 3-C-2.</p>
	<p>Amount:</p>	<p>\$1,250.00</p>
<p>UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized</p>	<p>Component Description:</p>	<p>This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary antenna. See Exhibit 36A item 3-B.</p>
	<p>Amount:</p>	<p>\$37,153.12</p>

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	\$997,500.00	\$84,900.00		\$48,281.25	
Rigid Transmission Line - copper, 8 3 /16" broadband	\$997,500.00	\$84,900.00	Material cost for two (2) 8 3 /16" Broadband rigid transmission lines, six (6) elbows (3 each line) and a nitrogen generator for pressurization control on the dual lines. Cost shared with other stations. See Exhibit 15.	\$48,281.25	N/A
Primary Transmission Line	\$3,000.00	\$3,000.00		\$0.00	
Nitrogen Generator	<i>\$3,000.00</i>	\$3,000.00	Nitrogen Generator Upgrade. See Exhibit 14.	N/A	N/A
Sub-total	\$1,000,500.00	\$87,900.00	N/A	\$48,281.25	N/A
Total for all systems	\$5,147,844.71	\$2,236,614.71	N/A	\$1,372,992.84	N/A

Components

Actual Information

Description	File Name
Rigid Transmission Line - copper, 8 3/16" broadband	<p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Interim Transmission Line, Exhibit 3, 3-A. This is the comparable 7-inch, not upgraded 8-inch line cost. Includes nitrogen generator.</p> <p>Amount: \$32,187.50</p> <p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Interim Transmission Line, Exhibit 3, 3-A. This is the comparable 7-inch, not upgraded 8-inch line cost. Includes nitrogen generator.</p> <p>Amount: \$16,093.75</p>
Nitrogen Generator	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
Auxiliary Tower GTOWER	\$604,000.00	\$90,180.00		\$62,126.25	
Construction Management	<i>\$3,000.00</i>	\$3,000.00	9 hours on Modification project management and 15 hours for RF installation project management for a total of 20 days. See Exhibit 3.	\$2,250.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$55,900.00	This candelabra is classified as complex structure. The cost includes the installation of the new antenna, two transmission lines and all the required tower brackets. See Exhibit 15.	\$42,000.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$17,500.00	It is expected that the additional loads imposed on the tower by the new appurtenances required for the repack	\$7,500.00	N/A

project will cause the tower to fail. The structural failure is expected to be in the minor category. See Exhibit 15.

Tower Permit Packages	\$9,400.00	\$9,400.00	Prepare tower, building, and ground drawings for local permits and approvals. Required to support required modifications needed for repack. See Exhibit 3.	\$7,050.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$4,380.00	Structural tower mapping to ensure the proper structural information is relayed to engineering for proposed repack equipment. Rigorous Structural analysis to access the structural capacity and modifications needed. See Exhibit 15.	\$3,326.25	N/A
Primary Tower GTOWER	\$608,250.00	\$124,660.00		\$28,311.87	
Structural engineering tower load	\$12,600.00	\$8,760.00	Structural mapping, analysis, and	\$2,771.87	N/A

study for well documented tower

engineering needed to accommodate the repacked equipment. See Exhibit 14.

Construction Management	<i>\$5,250.00</i>	\$5,250.00	(44) hours on Modification project management and RF installation project management. See Exhibit 14.	\$1,375.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$25,000.00	Additional loads imposed on the tower by the new appurtenances required for the repack project will cause the tower to fail. The structural failure is expected to be in the minor category. See Exhibit 2.	\$6,250.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$74,250.00	Tower has stacked antennas and is thus a complex structure. (Disregard other parts of form would accept that answer.) Cost includes antenna installation, transmission lines and	\$15,125.00	N/A

transmission
line brackets.
See Exhibit 14.

Site Coordination Meetings	<i>\$2,000.00</i>	\$2,000.00	Site coordination meetings with all broadcasters, contractors and vendors involved with the site deliveries and construction. This cost is for travel and logistics expenses accrued. See Exhibit 14 Line 1-B-1.	\$440.00	N/A
Tower Permit Packages	<i>\$9,400.00</i>	\$9,400.00	Generation of tower, building, and ground drawing packages required for local permits. See Exhibit 14, items 3-D- 1.	\$2,350.00	N/A
Sub-total	\$1,212,250.00	\$214,840.00	N/A	\$90,438.12	N/A
Total for all systems	\$5,147,844.71	\$2,236,614.71	N/A	\$1,372,992.84	N/A

Components

Actual Information	
Description	File Name
Construction Management	

Component Description:

Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Interim Tower Construction Project Management, Exhibit 3, 3-D-1.

Amount:

\$750.00

Component Description:

Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Interim Tower Construction Project Management, Exhibit 3, 3-D-1.

Amount:

\$1,500.00

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)

Component Description:

Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Rigging, Exhibit 3, 3-C-1.

Amount:

\$14,000.00

	<p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Rigging, Exhibit 3, 3-C-1.</p> <p>Amount: \$28,000.00</p>
<p>Minor tower reinforcement /modifications</p>	<p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Tower Reinforcement, Exhibit 3, 3-A-2.</p> <p>Amount: \$2,500.00</p> <p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Tower Reinforcement, Exhibit 3, 3-A-2.</p> <p>Amount: \$5,000.00</p>
<p>Tower Permit Packages</p>	

Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Tower and Building Permits, Exhibit 3, 3-D-1 (\$4,700 plus \$4,700).

Amount: \$2,350.00

Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Tower and Building Permits, Exhibit 3, 3-D-1 (\$4,700 plus \$4,700).

Amount: \$4,700.00

Structural engineering tower load study for well documented tower

Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Tower Mapping (Exhibit 3, 3-A-1) and Structural Engineering (Exhibit 3, 3-A-1).

Amount: \$1,108.75

	<p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Tower Mapping (Exhibit 3, 3-A-1) and Structural Engineering (Exhibit 3, 3-A-1).</p> <p>Amount: \$2,217.50</p>
<p>Structural engineering tower load study for well documented tower</p>	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is mapping and structural engineering. See Exhibit 36A item 3-A-1.</p> <p>Amount: \$2,771.87</p>
<p>Construction Management</p>	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the construction project management. See Exhibit 36A item 3-D-1.</p> <p>Amount: \$1,375.00</p>
<p>Minor tower reinforcement /modifications</p>	

	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary tower reinforcement. See Exhibit 36A item 3-A-2.</p> <p>Amount: \$6,250.00</p>
<p>Complex Tower (includes, for example, those with candelabras and/or stacked antennas)</p>	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary tower reinforcement. See Exhibit 36A item 3-C-1.</p> <p>Amount: \$15,125.00</p>
<p>Site Coordination Meetings</p>	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is site coordination meetings. See Exhibit 36A item 1-A-1.</p> <p>Amount: \$440.00</p>
<p>Tower Permit Packages</p>	

Component Description:

This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the tower and building permit drawings. See Exhibit 36A item 3-D-1.

Amount:

\$2,350.00

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 Cost Justification
Outside Professional Services	\$70,485.00	\$91,460.00		\$23,192.50	
Site Coordination Meeting	<i>\$2,000.00</i>	\$2,000.00	Site coordination meetings with all broadcasters, contractors and vendors involved with the site deliveries and construction. This cost is for travel and logistics expenses accrued. (See Exhibit 14.)	N/A	N/A
RF System Test	<i>\$8,000.00</i>	\$8,000.00	Testing of the combiner to ensure all frequencies are tuned for optimal patterns. (See Exhibits 2 and 3.)	\$3,250.00	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering	\$1,580.00	\$1,500.00	N/A	N/A	N/A

section of
FCC Form
2100 (main),
License to
Cover
Application

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,000.00	N/A
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Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$10,500.00	Perform engineering study for new channel assignment and antenna development. (See Exhibits 2 and 3.)	\$6,087.50	N/A
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Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$4,500.00	Coordination and transition planning with all parties onsite. (See Exhibits 2 and 3)	\$2,375.00	N/A
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Project management of the transition	\$39,500.00	\$56,460.00	Company lacks sufficient resources. Also includes American Tower project management. See Exhibits 2 and 3, 1-A-1.	\$9,480.00	N/A
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Attorney Fees - Negotiation of lease and other	\$4,210.00	\$4,000.00	N/A	N/A	N/A
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matters for
shared
locations

Sub-total	\$70,485.00	\$91,460.00	N/A	\$23,192.50	N/A
Total for all systems	\$5,147,844.71	\$2,236,614.71	N/A	\$1,372,992.84	N/A

Components

Actual Information	
Description	File Name
Site Coordination Meeting	Information not provided.
RF System Test	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary antenna RF System Test. See Exhibit 36A item 1-B-1.</p> <p>Amount: \$1,375.00</p> <p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of RF System Test, Exhibit 3, 1-B-1.</p> <p>Amount: \$1,250.00</p>

	<p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of RF System Test, Exhibit 3, 1-B-1.</p> <p>Amount: \$625.00</p>
<p>Prepare request for Special Temporary Authorization</p>	<p>Information not provided.</p>
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>
<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<p>Component Description: Find "work around" to Canadian coordination. See Exhibit 13 for a revised invoice showing dates worked.</p> <p>Amount: \$550.00</p> <p>Component Description: Final interference study and CP Application - Engineering Section.</p> <p>Amount: \$1,450.00</p>
<p>Perform engineering study for new channel assignment and antenna development</p>	

Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary antenna development. See Exhibit 36A item 1-A-2.

Amount: \$1,375.00

Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Antenna Development Engineering, Exhibit 3, 1-A-2.

Amount: \$2,500.00

Component Description: Prepare coverage map showing primary and interim antenna coverage options.

Amount: \$187.50

Component Description: Preliminary Interference study of initial channel assignment.

Amount: \$775.00

	<p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Antenna Development Engineering, Exhibit 3, 1-A-2.</p> <p>Amount: \$1,250.00</p>
<p>Address transition timing and coordination issues w/ other stations and wireless</p>	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the project management for addressing transition timing. See Exhibit 36A item 1-A-1.</p> <p>Amount: \$500.00</p> <p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Address Transition Timing, Exhibit 3, 1-A-1.</p> <p>Amount: \$1,250.00</p>

	<p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Address Transition Timing, Exhibit 3, 1-A-1.</p> <p>Amount: \$625.00</p>
<p>Project management of the transition</p>	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary site project management. See Exhibit 36A item 1-A-2.</p> <p>Amount: \$2,370.00</p> <p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Interim Site Project Management, Exhibit 3, 1-A-1.</p> <p>Amount: \$4,740.00</p>

	<p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Interim Site Project Management, Exhibit 3, 1-A-1.</p> <p>Amount: \$2,370.00</p>
<p>Attorney Fees - Negotiation of lease and other matters for shared locations</p>	<p>Information not provided.</p>

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	\$69,985.00	\$63,680.00		\$23,244.58	
Deinstall Old Transmitter	<i>\$16,100.00</i>	\$16,100.00	Deinstall and remove old WSBK transmitter. See Exhibit 1 Item F.	N/A	N/A
Site Security	<i>\$3,600.00</i>	\$3,600.00	Site security for installation and storage of Transmission line and materials for 30 days X 12 hours. These materials are a high risk of theft due to the material makeup such as copper, brass and aluminum. (See Exhibit 3.)	\$2,700.00	N/A
Site Coordination Meeting	<i>\$1,760.00</i>	\$1,760.00	Site coordination meetings with tower owner, all broadcasters, contractors and vendors involved with the site deliveries and construction.	N/A	N/A

			This cost is for travel and logistics expenses accrued. See Exhibit 2.		
Public Hearing	<i>\$880.00</i>	\$880.00	Public hearing cost (See Exhibits 2 and 14, line item 1-B-1.)	\$410.00	N/A
Ice Shield for HVAC	<i>\$4,000.00</i>	\$4,000.00	Ice protection for HVAC compressor split units placed in close proximity of tower in areas prone to ice and snow. See Exhibit 3.	\$3,000.00	N/A
Building Partition	<i>\$1,800.00</i>	\$1,800.00	This cost is to provide permitting for building partition and electrical service installation in the shared space. This install is to provide security for broadcasters and sufficient power for transmitters. See Exhibit 3.	\$1,350.00	N/A
Asbestos and Lead Paint Testing	<i>\$1,800.00</i>	\$1,800.00	Asbestos testing, removal and abatement for walls which	\$1,350.00	N/A

			could contain lead paint and /or the flooring may contain asbestos, because of the age of the facility and the era when the original construction took place. (See Exhibit 3.)		
MVPD Notification of Channel Change	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,800.00</i>	\$25,800.00	This cost is for the material /equipment, delivery and offloading by transmitter manufacturer, and third party contractors. (See Exhibits 1, 2, 3, 7, 27, and 28.)	\$13,684.58	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$5,250.00	See Exhibit 5	N/A	N/A
Non-zoning permits	<i>\$1,500.00</i>	\$1,500.00	The cost of preparation and submission of the needed	\$750.00	N/A

forms for permits required for electrical, building permits. (See Exhibits 2 and 3.)

Sub-total	\$69,985.00	\$63,680.00	N/A	\$23,244.58	N/A
Total for all systems	\$5,147,844.71	\$2,236,614.71	N/A	\$1,372,992.84	N/A

Components

Actual Information	
Description	File Name
Deinstall Old Transmitter	Information not provided.
Site Security	<p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Site Security, Exhibit 3, 1-B-1.</p> <p>Amount: \$1,800.00</p> <p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Site Security, Exhibit 3, 1-B-1.</p> <p>Amount: \$900.00</p>
Site Coordination Meeting	Information not provided.
Public Hearing	

Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary site public hearing. See Exhibit 36A item 1-B-1.

Amount: \$110.00

Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Public Hearing, Exhibit 3, 1-B-1.

Amount: \$200.00

Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Public Hearing, Exhibit 3, 1-B-1.

Amount: \$100.00

Ice Shield for HVAC

	<p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of HVAC Ice Shield, Exhibit 3, 3-C-6.</p> <p>Amount: \$1,000.00</p> <p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of HVAC Ice Shield, Exhibit 3, 3-C-6.</p> <p>Amount: \$2,000.00</p>
Building Partition	<p>Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Building Addition, Exhibit 3, 3-C-3.</p> <p>Amount: \$900.00</p> <p>Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Building Addition, Exhibit 3, 3-C-3.</p> <p>Amount: \$450.00</p>

Asbestos and Lead Paint Testing

Component Description:

Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Asbestos and Lead Paint Testing, Exhibit 3, 1-B-1.

Amount:

\$900.00

Component Description:

Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Asbestos and Lead Paint Testing, Exhibit 3, 1-B-1.

Amount:

\$450.00

MVPD Notification of Channel Change

Information not provided.

Equipment Delivery and Handling Charges

Component Description:

Freight for interim transmitter upsize. See explanation and quote /statement in Exhibit 41.

Amount:

\$5,159.58

Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary tower equipment and delivery. See Exhibit 36A item 1-A-4.

Amount: \$1,375.00

Component Description: Invoice is 25% Down Payment for \$115,297.75 ATC total estimated cost. (See Exhibit 3). This amount is 25% of Tower Equipment and Delivery Costs, Exhibit 3, 1-A-4.

Amount: \$750.00

Component Description: Invoice is 50% Down Payment for \$230,591.50 ATC total estimated cost. (See Exhibit 3). This amount is 50% of Tower Equipment and Delivery Costs, Exhibit 3, 1-A-4.

Amount: \$1,500.00

	<p>Component Description: Freight - Relocate Additional Interim Transmitter Components from storage to Interim Transmitter Site. Note: Form won't accept "&" in Vendor Name.</p> <p>Amount: \$3,850.00</p> <p>Component Description: Freight - Relocate Interim Transmitter from storage to Interim Transmitter Site. Note: Form won't accept "&" in Vendor Name.</p> <p>Amount: \$1,050.00</p>
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
DTV Medical Facility Notification	Information not provided.
Non-zoning permits	<p>Component Description: This invoice is the Milestone 1 down payment for work done at the primary WSBK site. This item is the primary building permits. See Exhibit 36A item 1-A-3.</p> <p>Amount: \$187.50</p>

Component Description:

Invoice is 25%
Down Payment for
\$115,297.75 ATC
total estimated
cost. (See Exhibit
3). This amount is
25% of Building
Permits, Exhibit 3,
1-A-3.

Amount:

\$187.50

Component Description:

Invoice is 50%
Down Payment for
\$230,591.50 ATC
total estimated
cost. (See Exhibit
3). This amount is
50% of Building
Permits, Exhibit 3,
1-A-3.

Amount:

\$375.00

Cost Information **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,147,844.71	\$2,236,614.71	\$1,372,992.84

Reimbursement Status

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 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.

Andrew J Siegel
Assistant Secretary

02/21/2020

Certification	Section	Question	Response
	<p>Submission of Actual Cost Documentation Statements</p>	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 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

<p>must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Andrew J Siegel <i>Assistant Secretary</i></p> <p>02/21/2020</p>

Attachments