



(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
<b>CBS TELEVISION LICENSES LLC</b> 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
<b>Daniel G. Ryson</b> <i>Associate Director of Spectrum Management</i> CBS	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
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	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

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	Diamond
	Year	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.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary  
Transmitter**

**Other Transmitter Cost Not Listed**

Information not provided.

**Interim  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	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
<b>Electrical Service</b>	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.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	20 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A
<b>Inside RF System</b>	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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<b>Emergency Generator</b>	Primary site has an emergency generator. This cost replicates backup power at the interim site.
<b>New Sub Panels</b>	4 new sub panels at approximately 200 amps each, to power each additional transmitter, house power, HVAC, and ancillary equipment. See Exhibit 3.
<b>Transmitter Electrical</b>	Install Electrical for transmitter, pumps, racks, transformer, etc.
<b>4 Inch Conduit</b>	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
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	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
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	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
<b>New Antenna Description</b>	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
<b>New Antenna Manufacturer and Type</b>	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
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	7 3/16 inches



<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

## Interim Antenna

### Other Antenna Cost Not Listed

Name	Description
<b>Tower Rent</b>	One-time tower rental during repack. See Exhibit 3.
<b>Combiner Installation</b>	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?	Yes

**Primary Transmission Line****Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	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

**Primary Transmission Line** **Other Transmission Line Expenses Not Listed**

Name	Description
Nitrogen Generator	Nitrogen Generator. See Exhibit 14.

**Interim Transmission Line** **New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	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.
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Interim Transmission Line	<b>Other Transmission Line Expenses Not Listed</b> Information not provided.
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**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
<b>Engineering Study</b>	Please what type of engineering study is required, if any:	Study needed for documented tower
<b>Tower Reinforcements</b>	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

**Auxiliary  
Tower**

**Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	Candelabra

<b>Helicopter Services Required</b>	Are helicopter services required?	No
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**Auxiliary  
Tower**

**Other Tower Expenses Not Listed**

Name	Description
<b>Tower Permit Packages</b>	Tower and ground equipment drawing package. Required for local approvals. See Exhibit 3.
<b>Construction Management</b>	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
<b>Engineering Study</b>	Please what type of engineering study is required, if any:	Study needed for documented tower
<b>Tower Reinforcements</b>	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

**Primary  
Tower**

**Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	Candelabra
<b>Helicopter Services Required</b>	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**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	250
	Explanation	Company lacks internal resources.
<b>Outside RF consulting Engineering Services</b>	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
<b>Attorney and Other Outside Consulting Services</b>	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
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

**Outside Professional Services Costs**

**Other Professional Services Expenses Not Listed**

Name	Description
<b>RF System Test</b>	Testing of the combiner to ensure all frequencies are tuned for optimal patterns. See Exhibits 2 and 3.
<b>Site Coordination Meeting</b>	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
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
<b>Permit and Filing Costs</b>	Local Zoning	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	Yes
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	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
<b>Asbestos and Lead Paint Testing</b>	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.)
<b>Building Partition</b>	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.
<b>Ice Shield for HVAC</b>	Ice protection for HVAC compressor units near tower in areas prone to ice and snow. See Exhibit 3.
<b>Public Hearing</b>	Public hearing to alter height of primary tower by changing top antenna. See Exhibit 2.
<b>Site Coordination Meeting</b>	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.
<b>Site Security</b>	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.)
<b>Deinstall Old Transmitter</b>	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)	<b>\$22,000.00</b>	\$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.	<b>\$4,226.37</b>	\$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	<b>\$513,363.19</b>	\$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	<b>\$10,000.00</b>	\$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	<b>\$247,352.92</b>	\$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.
<b>Primary Transmitter UAXTE-24</b>	<b>\$261,930.23</b>	<b>\$261,930.23</b>		<b>\$238,820.96</b>	
Other Electrical Service: Surge suppressor	<b>\$5,552.76</b>	\$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	<b>\$161,634.06</b>	\$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	<b>\$94,743.41</b>	\$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
<b>Sub-total</b>	\$1,331,327.71	\$1,245,287.71	N/A	\$957,478.52	N/A
<b>Total for all systems</b>	\$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	

	<table> <tr> <td data-bbox="710 98 1141 504"><b>Component Description:</b></td><td data-bbox="1141 98 1426 504">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.</td></tr> <tr> <td data-bbox="710 504 1141 593"><b>Amount:</b></td><td data-bbox="1141 504 1426 593">\$960.00</td></tr> <tr> <td data-bbox="710 593 1141 996"><b>Component Description:</b></td><td data-bbox="1141 593 1426 996">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.</td></tr> <tr> <td data-bbox="710 996 1141 1106"><b>Amount:</b></td><td data-bbox="1141 996 1426 1106">\$480.00</td></tr> </table>	<b>Component Description:</b>	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.	<b>Amount:</b>	\$960.00	<b>Component Description:</b>	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.	<b>Amount:</b>	\$480.00
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$960.00								
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$480.00								
Transmitter Electrical	<table> <tr> <td data-bbox="710 1106 1141 1624"><b>Component Description:</b></td><td data-bbox="1141 1106 1426 1624">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.</td></tr> <tr> <td data-bbox="710 1624 1141 2134"><b>Amount:</b></td><td data-bbox="1141 1624 1426 2134">\$16,508.00</td></tr> </table>	<b>Component Description:</b>	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.	<b>Amount:</b>	\$16,508.00				
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$16,508.00								

	<b>Component Description:</b>	Work completed for original interim transmitter electrical minus 10% retainage. See Exhibit 30. The form won't permit entry of ampersand in company name.
	<b>Amount:</b>	\$19,800.00
	<b>Component Description:</b>	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.
	<b>Amount:</b>	\$4,397.00
	<b>Component Description:</b>	Work completed minus 10% retainage. See Exhibit 19. The form won't permit entry of ampersand in company name.
	<b>Amount:</b>	\$19,773.00
Emergency Generator	<b>Component Description:</b>	Generator Connection Fee. Please see lease provided as Exhibit 32.
	<b>Amount:</b>	\$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)

	<table> <tr> <td data-bbox="711 98 1134 510"> <p><b>Component Description:</b></p> </td><td data-bbox="1134 98 1430 510"> <p>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> </td></tr> <tr> <td data-bbox="711 510 1134 645"> <p><b>Amount:</b></p> </td><td data-bbox="1134 510 1430 645"> <p>\$250.00</p> </td></tr> <tr> <td data-bbox="711 645 1134 1106"> <p><b>Component Description:</b></p> </td><td data-bbox="1134 645 1430 1106"> <p>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> </td></tr> <tr> <td data-bbox="711 1106 1134 1240"> <p><b>Amount:</b></p> </td><td data-bbox="1134 1106 1430 1240"> <p>\$500.00</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>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><b>Amount:</b></p>	<p>\$250.00</p>	<p><b>Component Description:</b></p>	<p>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><b>Amount:</b></p>	<p>\$500.00</p>
<p><b>Component Description:</b></p>	<p>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><b>Amount:</b></p>	<p>\$250.00</p>								
<p><b>Component Description:</b></p>	<p>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><b>Amount:</b></p>	<p>\$500.00</p>								
<p>Transformer 3 phase/480v - 500 KVA</p>	<table> <tr> <td data-bbox="711 1106 1134 1653"> <p><b>Component Description:</b></p> </td><td data-bbox="1134 1106 1430 1653"> <p>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> </td></tr> <tr> <td data-bbox="711 1653 1134 1787"> <p><b>Amount:</b></p> </td><td data-bbox="1134 1653 1430 1787"> <p>\$2,300.00</p> </td></tr> <tr> <td data-bbox="711 1787 1134 2141"> <p><b>Component Description:</b></p> </td><td data-bbox="1134 1787 1430 2141"> <p>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> </td></tr> <tr> <td data-bbox="711 2141 1134 2231"> <p><b>Amount:</b></p> </td><td data-bbox="1134 2141 1430 2231"> <p>\$4,600.00</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>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><b>Amount:</b></p>	<p>\$2,300.00</p>	<p><b>Component Description:</b></p>	<p>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><b>Amount:</b></p>	<p>\$4,600.00</p>
<p><b>Component Description:</b></p>	<p>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><b>Amount:</b></p>	<p>\$2,300.00</p>								
<p><b>Component Description:</b></p>	<p>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><b>Amount:</b></p>	<p>\$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	<div> <div>Component Description:</div> <div>Interim Transmitter Upsize Progress Payment. See quote and statement in Exhibit 41 and justification in Exhibit 25. Freight listed separately.</div> </div> <div> <div>Amount:</div> <div>\$76,845.91</div> </div>
	<div> <div>Component Description:</div> <div>Down Payment for transmitter size increase. See quote in Exhibit 22 and explanation in Exhibit 25A.</div> </div> <div> <div>Amount:</div> <div>\$100,494.27</div> </div>
	<div> <div>Component Description:</div> <div>\$0 Requested amount because invoice was inadvertently uploaded to incorrect category. See Exhibit 31A.</div> </div> <div> <div>Amount:</div> <div>N/A</div> </div>
	<div> <div>Component Description:</div> <div>Interim Transmitter Upsize Progress Payment. See quote in Exhibit 22 and justification in Exhibit 25.</div> </div> <div> <div>Amount:</div> <div>\$88,670.09</div> </div>
New Sub Panels	

	<b>Component Description:</b>	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.
	<b>Amount:</b>	\$5,000.00
	<b>Component Description:</b>	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.
	<b>Amount:</b>	\$2,500.00
UHF - Air Cooled Solid State Transmitter 7.68 kW	<b>Component Description:</b>	Interim Transmitter Progress Payment.
	<b>Amount:</b>	\$89,185.78
	<b>Component Description:</b>	WSBK Interim Transmitter Down Payment.
	<b>Amount:</b>	\$91,252.45
	<b>Component Description:</b>	Invoice is for remainder due on interim transmitter. This invoice is split between this cost category and transmitter electrical.
	<b>Amount:</b>	\$66,914.69

Other Electrical Service: Surge suppressor and 75 kVa transformer. Required by primary transmitter. See Exhibit 1 Item D.	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Final 1/3 of primary transmitter electrical devices. Please see Exhibit 39A.</p> <p>\$1,850.92</p>
	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>2/3 of the primary transmitter electrical devices. Please see Exhibit 38A.</p> <p>\$3,701.84</p>
UHF - Air Cooled Solid State Transmitter 14.4 kW	<p><b>Component Description:</b></p> <p><b>Amount:</b></p> <p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>This is the primary transmitter payment #2. Cost excludes upgrade shown in Exhibit 31A. Please see Exhibit 38A.</p> <p>\$86,597.83</p> <p>Primary transmitter payment #3. Electrical costs shown separately. Please see Exhibit 39A.</p> <p>\$51,926.96</p>
	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Invoice is 100% for a transmitter upgrade that is not reimbursable under FCC policy. Please see Exhibit 31A.</p> <p>N/A</p>
UHF - Air Cooled Solid		

State Transmitter 7.2 kW

**Component Description:**

WSBK Primary  
Transmitter Down  
Payment. See  
Exhibit 8.

**Amount:**

\$94,743.41

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## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
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	<b>\$76,787.00</b>	\$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	<b>\$57,600.00</b>	\$57,600.00	One-time interim tower rental for repack period.	\$43,200.00	N/A
<b>Primary Antenna TUM-AP- O4-14/56H- 2-T</b>	<b>\$1,211,130.00</b>	<b>\$244,000.00</b>		<b>\$61,590.62</b>	
Combiner Installation	<b>\$11,250.00</b>	\$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
<b>Sub-total</b>	<b>\$1,463,297.00</b>	<b>\$533,447.00</b>	<b>N/A</b>	<b>\$230,357.87</b>	<b>N/A</b>

<b>Total for all systems</b>	\$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	<p><b>Component Description:</b> 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.</p> <p><b>Amount:</b> \$3,500.00</p> <p><b>Component Description:</b> 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.</p> <p><b>Amount:</b> \$1,750.00</p>
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	<p><b>Component Description:</b> 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.</p> <p><b>Amount:</b> \$3,600.00</p>



	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$1,800.00</p>
New combiner, cost per channel (without antenna)	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$16,750.00</p> <p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$33,500.00</p>
Sweep test of existing antenna	

	<table> <tr> <td data-bbox="711 98 1114 539"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 98 1428 539"> <p>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.</p> </td></tr> <tr> <td data-bbox="711 539 1114 674"> <p><b>Amount:</b></p> </td><td data-bbox="1114 539 1428 674"> <p>\$750.00</p> </td></tr> <tr> <td data-bbox="711 674 1114 1189"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 674 1428 1189"> <p>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.</p> </td></tr> <tr> <td data-bbox="711 1189 1114 1323"> <p><b>Amount:</b></p> </td><td data-bbox="1114 1189 1428 1323"> <p>\$1,500.00</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>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.</p>	<p><b>Amount:</b></p>	<p>\$750.00</p>	<p><b>Component Description:</b></p>	<p>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.</p>	<p><b>Amount:</b></p>	<p>\$1,500.00</p>
<p><b>Component Description:</b></p>	<p>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.</p>								
<p><b>Amount:</b></p>	<p>\$750.00</p>								
<p><b>Component Description:</b></p>	<p>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.</p>								
<p><b>Amount:</b></p>	<p>\$1,500.00</p>								
<p>UHF - High Power Top Mount Five Station broadband panel antenna elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="711 1189 1114 1637"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 1189 1428 1637"> <p>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.</p> </td></tr> <tr> <td data-bbox="711 1637 1114 2136"> <p><b>Amount:</b></p> </td><td data-bbox="1114 1637 1428 2136"> <p>\$20,805.75</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>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.</p>	<p><b>Amount:</b></p>	<p>\$20,805.75</p>				
<p><b>Component Description:</b></p>	<p>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.</p>								
<p><b>Amount:</b></p>	<p>\$20,805.75</p>								

	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$41,611.50</p>
Tower Rent	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$14,400.00</p> <p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$28,800.00</p>
Combiner Installation	

	<p><b>Component Description:</b></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-C-2.</p> <p><b>Amount:</b></p> <p>\$2,187.50</p>
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$2,250.00</p>
New combiner, cost per channel (without antenna)	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$18,750.00</p>
Sweep test of existing antenna	

	<p><b>Component Description:</b></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><b>Amount:</b></p> <p>\$1,250.00</p>
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	<p><b>Component Description:</b></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><b>Amount:</b></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
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Description	File Name
Rigid Transmission Line - copper, 8 3/16" broadband	<div data-bbox="715 226 1378 815"> <div data-bbox="715 226 1023 259"><b>Component Description:</b></div> <div data-bbox="1155 226 1378 775">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.</div> <div data-bbox="715 786 823 815"><b>Amount:</b></div> <div data-bbox="1155 786 1289 815">\$32,187.50</div> </div> <div data-bbox="715 925 1378 1514"> <div data-bbox="715 925 1023 958"><b>Component Description:</b></div> <div data-bbox="1155 925 1378 1469">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.</div> <div data-bbox="715 1485 823 1514"><b>Amount:</b></div> <div data-bbox="1155 1485 1289 1514">\$16,093.75</div> </div>
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
<b>Auxiliary Tower GTOWER</b>	<b>\$604,000.00</b>	<b>\$90,180.00</b>		<b>\$62,126.25</b>	
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
<b>Primary Tower GTOWER</b>	<b>\$608,250.00</b>	<b>\$124,660.00</b>		<b>\$28,311.87</b>	
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	<b>\$5,250.00</b>	\$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	<b>\$2,000.00</b>	\$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	<b>\$9,400.00</b>	\$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
<b>Sub-total</b>	\$1,212,250.00	\$214,840.00	N/A	\$90,438.12	N/A
<b>Total for all systems</b>	\$5,147,844.71	\$2,236,614.71	N/A	\$1,372,992.84	N/A

## Components

Actual Information Description	File Name
Construction Management	

	<table> <tr> <td data-bbox="707 159 1015 192"><b>Component Description:</b></td><td data-bbox="1150 159 1378 584">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.</td></tr> <tr> <td data-bbox="707 600 815 633"><b>Amount:</b></td><td data-bbox="1150 600 1246 633">\$750.00</td></tr> <tr> <td data-bbox="707 739 1015 772"><b>Component Description:</b></td><td data-bbox="1150 739 1378 1164">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.</td></tr> <tr> <td data-bbox="707 1180 815 1214"><b>Amount:</b></td><td data-bbox="1150 1180 1267 1214">\$1,500.00</td></tr> </table>	<b>Component Description:</b>	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.	<b>Amount:</b>	\$750.00	<b>Component Description:</b>	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.	<b>Amount:</b>	\$1,500.00
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$750.00								
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$1,500.00								
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	<table> <tr> <td data-bbox="707 1348 1015 1382"><b>Component Description:</b></td><td data-bbox="1150 1348 1366 1655">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.</td></tr> <tr> <td data-bbox="707 1671 815 1704"><b>Amount:</b></td><td data-bbox="1150 1671 1283 1704">\$14,000.00</td></tr> </table>	<b>Component Description:</b>	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.	<b>Amount:</b>	\$14,000.00				
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$14,000.00								

	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$28,000.00</p>
Minor tower reinforcement /modifications	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$2,500.00</p> <p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$5,000.00</p>
Tower Permit Packages	

	<table> <tr> <td data-bbox="707 159 1015 192"><b>Component Description:</b></td><td data-bbox="1147 159 1366 589">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).</td></tr> <tr> <td data-bbox="707 600 815 633"><b>Amount:</b></td><td data-bbox="1147 600 1267 633">\$2,350.00</td></tr> <tr> <td data-bbox="707 741 1015 775"><b>Component Description:</b></td><td data-bbox="1147 741 1366 1171">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).</td></tr> <tr> <td data-bbox="707 1182 815 1216"><b>Amount:</b></td><td data-bbox="1147 1182 1267 1216">\$4,700.00</td></tr> </table>	<b>Component Description:</b>	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).	<b>Amount:</b>	\$2,350.00	<b>Component Description:</b>	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).	<b>Amount:</b>	\$4,700.00
<b>Component Description:</b>	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).								
<b>Amount:</b>	\$2,350.00								
<b>Component Description:</b>	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).								
<b>Amount:</b>	\$4,700.00								
Structural engineering tower load study for well documented tower	<table> <tr> <td data-bbox="707 1350 1015 1384"><b>Component Description:</b></td><td data-bbox="1147 1350 1366 1821">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).</td></tr> <tr> <td data-bbox="707 1832 815 1865"><b>Amount:</b></td><td data-bbox="1147 1832 1267 1865">\$1,108.75</td></tr> </table>	<b>Component Description:</b>	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).	<b>Amount:</b>	\$1,108.75				
<b>Component Description:</b>	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).								
<b>Amount:</b>	\$1,108.75								

	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$2,217.50</p>
Structural engineering tower load study for well documented tower	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$2,771.87</p>
Construction Management	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$1,375.00</p>
Minor tower reinforcement /modifications	

	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$6,250.00</p>
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$15,125.00</p>
Site Coordination Meetings	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$440.00</p>
Tower Permit Packages	



**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
<b>Outside Professional Services</b>	<b>\$70,485.00</b>	<b>\$91,460.00</b>		<b>\$23,192.50</b>	
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
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
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
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
Attorney Fees - Negotiation of lease and other	\$4,210.00	\$4,000.00	N/A	N/A	N/A

matters for  
shared  
locations

<b>Sub-total</b>	\$70,485.00	\$91,460.00	N/A	\$23,192.50	N/A
<b>Total for all systems</b>	\$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	
	<b>Component Description:</b> 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.
	<b>Amount:</b> \$1,375.00
	<b>Component Description:</b> 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.
	<b>Amount:</b> \$1,250.00

	<p><b>Component Description:</b> 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><b>Amount:</b> \$625.00</p>
Prepare request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<p><b>Component Description:</b> Find "work around" to Canadian coordination. See Exhibit 13 for a revised invoice showing dates worked.</p> <p><b>Amount:</b> \$550.00</p> <p><b>Component Description:</b> Final interference study and CP Application - Engineering Section.</p> <p><b>Amount:</b> \$1,450.00</p>
Perform engineering study for new channel assignment and antenna development	<p><b>Component Description:</b> Preliminary Interference study of initial channel assignment.</p> <p><b>Amount:</b> \$775.00</p>

<b>Component Description:</b>	Prepare coverage map showing primary and interim antenna coverage options.
<b>Amount:</b>	\$187.50

<b>Component Description:</b>	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.
<b>Amount:</b>	\$1,375.00

<b>Component Description:</b>	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.
<b>Amount:</b>	\$2,500.00

<b>Component Description:</b>	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.
<b>Amount:</b>	\$1,250.00

Address transition timing  
and coordination issues w/  
other stations and wireless

**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.

**Amount:**

\$500.00

**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.

**Amount:**

\$1,250.00

**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.

**Amount:**

\$625.00

Project management of the  
transition

	<table> <tr> <td data-bbox="705 96 1141 593"><b>Component Description:</b></td><td data-bbox="1141 96 1428 593">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.</td></tr> <tr> <td data-bbox="705 593 1141 705"><b>Amount:</b></td><td data-bbox="1141 593 1428 705">\$2,370.00</td></tr> <tr> <td data-bbox="705 705 1141 1131"><b>Component Description:</b></td><td data-bbox="1141 705 1428 1131">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.</td></tr> <tr> <td data-bbox="705 1131 1141 1243"><b>Amount:</b></td><td data-bbox="1141 1131 1428 1243">\$4,740.00</td></tr> <tr> <td data-bbox="705 1243 1141 1765"><b>Component Description:</b></td><td data-bbox="1141 1243 1428 1765">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.</td></tr> <tr> <td data-bbox="705 1765 1141 1912"><b>Amount:</b></td><td data-bbox="1141 1765 1428 1912">\$2,370.00</td></tr> </table>	<b>Component Description:</b>	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.	<b>Amount:</b>	\$2,370.00	<b>Component Description:</b>	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.	<b>Amount:</b>	\$4,740.00	<b>Component Description:</b>	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.	<b>Amount:</b>	\$2,370.00
<b>Component Description:</b>	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.												
<b>Amount:</b>	\$2,370.00												
<b>Component Description:</b>	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.												
<b>Amount:</b>	\$4,740.00												
<b>Component Description:</b>	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.												
<b>Amount:</b>	\$2,370.00												
Attorney Fees - Negotiation of lease and other matters for shared locations	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
<b>Other Expenses</b>	<b>\$69,985.00</b>	<b>\$63,680.00</b>		<b>\$23,244.58</b>	
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	<b>\$880.00</b>	\$880.00	Public hearing cost (See Exhibits 2 and 14, line item 1-B-1.)	\$410.00	N/A
Ice Shield for HVAC	<b>\$4,000.00</b>	\$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	<b>\$1,800.00</b>	\$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	<b>\$1,800.00</b>	\$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	<b>\$1,000.00</b>	\$1,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<b>\$25,800.00</b>	\$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	<b>\$1,500.00</b>	\$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.)		
<b>Sub-total</b>	\$69,985.00	\$63,680.00	N/A	\$23,244.58	N/A
<b>Total for all systems</b>	\$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><b>Component Description:</b> 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><b>Amount:</b> \$1,800.00</p> <p><b>Component Description:</b> 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><b>Amount:</b> \$900.00</p>
Site Coordination Meeting	Information not provided.
Public Hearing	

	<table> <tr> <td data-bbox="711 98 1134 651"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1134 98 1430 651"> <p>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.</p> <p>\$110.00</p> </td></tr> <tr> <td data-bbox="711 651 1134 1205"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1134 651 1430 1205"> <p>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.</p> <p>\$200.00</p> </td></tr> <tr> <td data-bbox="711 1205 1134 1644"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1134 1205 1430 1644"> <p>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.</p> <p>\$100.00</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>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.</p> <p>\$110.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>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.</p> <p>\$200.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>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.</p> <p>\$100.00</p>
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>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.</p> <p>\$110.00</p>						
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>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.</p> <p>\$200.00</p>						
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>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.</p> <p>\$100.00</p>						
Ice Shield for HVAC							

	<table> <tr> <td data-bbox="711 98 1145 510"><b>Component Description:</b></td><td data-bbox="1145 98 1430 510">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.</td></tr> <tr> <td data-bbox="711 510 1145 600"><b>Amount:</b></td><td data-bbox="1145 510 1430 600">\$1,000.00</td></tr> <tr> <td data-bbox="711 600 1145 1106"><b>Component Description:</b></td><td data-bbox="1145 600 1430 1106">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.</td></tr> <tr> <td data-bbox="711 1106 1145 1196"><b>Amount:</b></td><td data-bbox="1145 1106 1430 1196">\$2,000.00</td></tr> </table>	<b>Component Description:</b>	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.	<b>Amount:</b>	\$1,000.00	<b>Component Description:</b>	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.	<b>Amount:</b>	\$2,000.00
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$1,000.00								
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$2,000.00								
Building Partition	<table> <tr> <td data-bbox="711 1106 1145 1644"><b>Component Description:</b></td><td data-bbox="1145 1106 1430 1644">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.</td></tr> <tr> <td data-bbox="711 1644 1145 1733"><b>Amount:</b></td><td data-bbox="1145 1644 1430 1733">\$900.00</td></tr> <tr> <td data-bbox="711 1733 1145 2141"><b>Component Description:</b></td><td data-bbox="1145 1733 1430 2141">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.</td></tr> <tr> <td data-bbox="711 2141 1145 2231"><b>Amount:</b></td><td data-bbox="1145 2141 1430 2231">\$450.00</td></tr> </table>	<b>Component Description:</b>	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.	<b>Amount:</b>	\$900.00	<b>Component Description:</b>	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.	<b>Amount:</b>	\$450.00
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$900.00								
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$450.00								

Asbestos and Lead Paint Testing	<p><b>Component Description:</b></p>	<p>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.</p>
	<p><b>Amount:</b></p>	<p>\$900.00</p>
	<p><b>Component Description:</b></p>	<p>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.</p>
	<p><b>Amount:</b></p>	<p>\$450.00</p>
MVPD Notification of Channel Change	Information not provided.	
Equipment Delivery and Handling Charges	<p><b>Component Description:</b></p>	<p>Freight - Relocate Interim Transmitter from storage to Interim Transmitter Site. Note: Form won't accept "&amp;" in Vendor Name.</p>
	<p><b>Amount:</b></p>	<p>\$1,050.00</p>

<b>Component Description:</b>	Freight - Relocate Additional Interim Transmitter Components from storage to Interim Transmitter Site. Note: Form won't accept "&" in Vendor Name.
<b>Amount:</b>	\$3,850.00

<b>Component Description:</b>	Freight for interim transmitter upsize. See explanation and quote /statement in Exhibit 41.
<b>Amount:</b>	\$5,159.58

<b>Component Description:</b>	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.
<b>Amount:</b>	\$1,375.00

<b>Component Description:</b>	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.
<b>Amount:</b>	\$750.00



	<p><b>Component Description:</b></p> <p>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.</p> <p><b>Amount:</b></p> <p>\$1,500.00</p>
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
DTV Medical Facility Notification	Information not provided.
Non-zoning permits	<p><b>Component Description:</b></p> <p>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><b>Amount:</b></p> <p>\$187.50</p> <p><b>Component Description:</b></p> <p>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.</p> <p><b>Amount:</b></p> <p>\$187.50</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  
Permits, Exhibit 3,  
1-A-3.

**Amount:**

\$375.00

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

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
	Submission of Actual Cost Documentation Statements	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).	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>4. The above-named entity acknowledges the submission of the information herein</li> </ol>	

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><b>Andrew J Siegel</b>  <i>Assistant Secretary</i></p> <p>02/21/2020</p>

## Attachments