



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **74197** | Service: **DTV** | Call **WWOR-TV** | Channel: **25 (UHF)** |  
ID:  
File **0000027542**  
Number:  
FRN: **0005795067** | Date **07/10**  
Submitted: **/2017**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>FOX TELEVISION STATIONS, LLC</b>	Joseph M. Di Scipio 400 N. Capitol Street, NW Suite 890 WASHINGTON, DC 20001 United States	+1 (202) 824-6522	JDISCPIO@21CF.COM	Limited Liability Company

## Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>Dennis Wallace</b> <i>Managing Partner</i> <i>Meintel, Sgrignoli, &amp; Wallace, LLC</i>	Dennis Wallace 1282 Smallwood Drive Suite 372 Waldorf, MD 20603 United States	+1 (202) 251-7589	Dennis.Wallace@mswdtv.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		WWOR will install interim facilities, remove existing antennas, transmission line, and transmitters and replace them. NJ Aux site will require new transmitter and combiner. Empire State Building Site requires very serious structural modifications.

**Transmitters**

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

**Auxiliary  
Transmitter****Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Licensed Aux West Orange NJ
	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	DTT10SKU
	Year	2011
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	10 kW

**Auxiliary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	THU9EVO-8
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	10 kW
	Justification for New Transmitter	Existing transmitter is obsolete and no longer supported by its manufacturer which is no longer in business. Replacement transmitter required.

**Auxiliary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes

	Size	3 inches
	Length	400.0 feet
	Other Electrical Service	Yes
	Description	Aux Transmitter Electrical Installation West Orange NJ
<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?	Yes
	Size	500.0 square feet
<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

## Auxiliary Transmitter

### Other Transmitter Cost Not Listed

Name	Description
<b>Remote Control Wiring</b>	Wire up existing remote control to new transmitter
<b>Remove Existing Equipment</b>	Removal of existing equipment
<b>Installation Plan and Drawings</b>	Develop installation layout and drawings

**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	DTT15KSU
	Year	2011
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	15 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?	No
	Manufacturer	
	Model	THU9EVO-12
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	15 kW
	Justification for New Transmitter	Main transmitter is obsolete and no longer supported by its manufacturer. The manufacturer is no longer in business. A replacement transmitter is required.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	300 kVA

	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	400.0 feet
	Other Electrical Service	Yes
	Description	Main Transmitter Electrical Installation at Empire State Building. Local 3 Installation
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	25 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?	Yes
	Size	1000.0 square feet
<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**

Name	Description
<b>Wire Remote Control</b>	Wire up existing remote control to new transmitter.



<b>Installation Layout Drawings</b>	Prepare Installation layout and installation drawings
<b>Remove existing equipment</b>	Removal of existing equipment
<b>Empire State Building Fees</b>	Empire State Building Fees for Main Transmitter

**Interim  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	THU9EVO-12
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	15 kW
	Justification for New Transmitter	Interim transmitter required while existing facilities at Empire State Building are modified.

**Interim  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	200.0 feet

	Other Electrical Service	Yes
	Description	Interim Transmitter Electrical Installation at Empire State Building - Local 3
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	25 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?	Yes
	Size	500.0 square feet
<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?	Yes

**Interim Transmitter**      **Other Transmitter Cost Not Listed**

Name	Description
<b>Remove existing equipment</b>	Remove existing equipment in interim transmitter area
<b>Installation Layout and Drawings</b>	Develop installation layout and drawings
<b>Empire State Building Fees Interim</b>	Interim transmitter location Empire State Building Fees



**Antennas**

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

**Auxiliary  
Antenna****Add Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Auxiliary (Backup)
	Description of Use	Licensed Aux West Orange NJ
	Ownership	Leased
	Owner	American Tower
	Site	N/A
	Is this antenna currently shared with any other stations?	Yes
	Is this antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Type	Other
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A

Lower Limit	N/A
Upper Limit	N/A
Other Antenna Type	Broadband
ERP: (Effective Radiated Power)	338.0 kW
Manufacturer	Dielectric
Model	TUD-C5SP-10/34U-2-B
Year	2012

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

Facility ID	Call Sign
22206	WNYW
73333	WNJU
9610	WCBS-TV

**Auxiliary Antenna**

**Adjustment to Existing Antenna**

Section	Question	Response
<b>Sweep Test of Existing Antenna</b>	Do you need a sweep test of existing antenna?	Yes

**Auxiliary 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	RF channel
	Frequency	N/A

**Enter a list of RF channel numbers.**

RF Channel Number
35
25
26
27
36

**Auxiliary  
Antenna**

**Other Antenna Cost Not Listed**

Name	Description
American Tower Fees	American Tower Fees associated with modification of West Orange NJ Aux Facility
Optimization of Antenna	Optimization of antenna and line for new channels

## Auxiliary Antenna

### Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Empire State Building Aux Antenna
	Ownership	Leased
	Owner	Empire State Building
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Elliptical
	Type	Other
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A



Other Antenna Type	Composite Antenna ESB Special
ERP: (Effective Radiated Power) .....	182.0 kW
Manufacturer	
Model	ESBTUA80
Year	2011

## Auxiliary Antenna

### New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Licensed ESB Site Aux Antenna
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Leased
	Owner	Empire State Building
	Is antenna shared?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Elliptical
	Type	Other
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	Custom Broadband ESB Special
	ERP: (Effective Radiated Power) .....	182.0 kW

Manufacturer	
Model	ESBTBD
Year	2018
Justification for New Antenna	Replacement of existing Aux antenna may be required as changes to structure and station combiner necessitate antenna changes.

## Auxiliary 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	3
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	Yes
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	6 1/8 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes

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

Enter a list of RF channel numbers.

RF Channel Number
26
25
27

**Auxiliary Antenna**

**Other Antenna Cost Not Listed**

Name	Description
<b>Empire State Building Fees</b>	Empire State Building Fees associated with Aux Antenna
<b>Custom Antenna Design</b>	Custom Antenna design for ESB Aux Antenna

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Type	Other
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	Composite Antenna - Special ESB
	ERP: (Effective Radiated Power)	170.0 kW

Manufacturer	
Model	ESBTUF80
Year	2008

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Primary  
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	130.0 kW
	Manufacturer	

Model	ATW14H4-ETO25/26H
Year	2018
Justification for New Antenna	Existing antenna will not be functional for new channel. Antenna requires replacement.

## Primary Antenna

### Other Antenna Costs

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



<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes
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**Primary  
Antenna**

**Other Antenna Cost Not Listed**

<b>Name</b>	<b>Description</b>
<b>Empire State Building Fees</b>	Empire State Building Fees associated with new antenna
<b>Antenna Stack Design</b>	Complex 3 antenna stack design and development of mechanicals

**Transmission Line**

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

**Auxiliary Transmission Line****Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	Licensed West Orange NJ Aux Site
	Ownership	Leased
	Owner	American Tower
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	400 feet per run

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

Facility ID	Call Sign
22206	WNYW
73333	WNJU
9610	WCBS-TV

**Auxiliary  
Transmission Line**

**Other Transmission Line Expenses Not Listed**

Name	Description
Optimization RF Sweep	RF Sweep and Optimization of line for new channels. Install Matchers
American Tower Fees	American Tower Fees associated with modification of site for new channels

**Auxiliary  
Transmission Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Licensed ESB Aux
	Ownership	Leased
	Owner	Empire State Building
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	400 feet per run

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

Facility ID	Call Sign
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47535	WNBC
9610	WCBS-TV

**Auxiliary**      **New Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Auxiliary (Backup)
	Description of Use	Licensed ESB Aux
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	400 feet per run
	Justification for New Transmission Line	Change in aux antenna, combiner, and station configurations requires the replacement of this aux antenna transmission line.

**Auxiliary**      **Other Transmission Line Expenses Not Listed**  
**Transmission Line**

Name	Description
<b>Empire State Building Fees</b>	Empire State Building Fees related to Aux Line
<b>Transmission Line Layout and Install Drawings</b>	Transmission Line Layout and installation drawings



**Primary  
Transmission Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	400 feet per run



**Primary**  
**Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	400 feet per run
	Justification for New Transmission Line	Replacement of transmission line required due to modifications of the ESB Mast, Antennas, and structure. Transmission line will require replacement.

**Primary**  
**Transmission Line**

**Other Transmission Line Expenses Not Listed**

Name	Description
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<b>Empire State Building Fees</b>	Empire State Building Fees associated with new transmission line
<b>Layout and Installation Drawings</b>	Develop transmission line layouts and prepare installation drawings

**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	Licensed Aux Empire State Building
	Ownership	Leased
	Is this tower consider Complex?	Located on Building
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1007048
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	40° 44' 54.0" N-
	Longitude (NAD83)	073° 59' 09.0" W-
	Overall Structure Height	1453.39 feet

	Support Structure Height	1249.98 feet
	Ground Elevation Above Mean Sea Level (AMSL)	50.85 feet
	Structure Type	B - Building
	Tower Owner	EMPIRE STATE BUILDING COMPANY
	Date Constructed	01/01/1931

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

Facility ID	Call Sign	Service
22206	WNYW	DTV
60555	WFUT-DT	DTV

#### Other Types of Users

Users
See Main List

#### Auxiliary Tower

#### Tower Modification Costs

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

#### Auxiliary Tower

#### Tower Rigging Costs

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

**Auxiliary  
Tower**

**Other Tower Expenses Not Listed**

<b>Name</b>	<b>Description</b>
<b>Empire State Building Fees for Aux Antenna Structural</b>	Empire State Building Fees for Aux Antenna Structural Mods

## Auxiliary Tower

### Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	West Orange NJ Aux Site
	Ownership	Leased
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1060205
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 48' 07.6" N-
	Longitude (NAD83)	074° 14' 45.5" W-
	Overall Structure Height	339.89 feet
	Support Structure Height	299.87 feet
	Ground Elevation Above Mean Sea Level (AMSL)	622.04 feet
	Structure Type	LTOWER - Lattice Tower

	Tower Owner	American Tower, LLC
	Date Constructed	01/01/1974

**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
22206	WNYW	DTV
60555	WFUT-DT	DTV
73333	WNJU	DTV
47535	WNBC	DTV
9610	WCBS-TV	DTV
73881	WPIX	DTV

#### Other Types of Users

Users
Multi User Site

#### 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
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<b>Tower Rigging Costs</b>	Complex Tower	N/A
<b>Helicopter Services Required</b>	Are helicopter services required?	No

**Auxiliary  
Tower**

**Other Tower Expenses Not Listed**

<b>Name</b>	<b>Description</b>
<b>American Tower Fees Associated with Modificatins</b>	American Tower Fees associated with modification of site.



## Primary Tower

### Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Located on Building
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1007048
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 44' 54.0" N-
	Longitude (NAD83)	073° 59' 09.0" W-
	Overall Structure Height	1453.39 feet
	Support Structure Height	1249.98 feet
	Ground Elevation Above Mean Sea Level (AMSL)	50.85 feet
	Structure Type	B - Building
	Tower Owner	EMPIRE STATE BUILDING COMPANY

Date Constructed

01/01/1931

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

Facility ID	Call Sign	Service
25442	WNEW-FM	FM
6595	WKTU	FM
9611	WCBS-FM	FM
22206	WNYW	DTV
73881	WPIX	DTV
1328	WABC-TV	DTV
29022	WXNY-FM	FM
46978	WQXR-FM	FM
56571	WLTW	FM
67846	WFAN-FM	FM
73333	WNJU	DTV
73887	WPLJ	FM
59953	WHTZ	FM
73355	WNYC-FM	FM
6373	WWPR-FM	FM
23004	WAXQ	FM
63781	WEPN-FM	FM
73356	WPXN-TV	DTV
18795	WNET	DTV
28203	WBLS	FM
47535	WNBC	DTV

51249	WBAI	FM
74215	WXTV-DT	DTV
60555	WFUT-DT	DTV
19615	WQHT	FM
9610	WCBS-TV	DTV

### Other Types of Users

#### Users

Multi User Site

### Primary Tower

#### Tower Modification Costs

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

### Primary Tower

#### Tower Rigging Costs

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

### Primary Tower

#### Other Tower Expenses Not Listed

Name	Description
Empire State Building Structural Modifications 1	Empire State Building Structural Modifications for new antennas and REV. G Part 1

<b>Empire State Building Structural Modifications 2</b>	Empire State Building Structural Modifications for new antennas and REV. G Part 3
<b>Empire State Building Structural Modifications 3</b>	Empire State Building Structural Modifications for new antennas and REV. G Part 2

**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	2500
	Explanation	Outside project management of ESB and West Orange NJ site projects.
<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	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	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	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes

	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes
	Number of Days	30
	Justification	Supervision of project at Empire State Building - Supervise Local 3 labor.

Outside  
Professional

Other Professional Services Expenses Not Listed

Services Costs

Name	Description
Prepare and File FCC Progress Reports	Prepare and file FCC Progress Reports
Reimbursement Reviews with FCC Contractor	Review reimbursements with FCC Contractor and Technical Consultants

## 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	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	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)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes



**Other  
Expenses**

**Other Expenses Not Listed**

Name	Description
New York Sales Tax	Estimated New York Sales tax on equipment purchases.

## 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
<b>Interim Transmitter THU9EVO-12</b>	<b>\$2,008,400.00</b>	<b>\$2,270,000.00</b>		<b>\$0.00</b>	
Switchgear - industrial 800 amp	\$38,200.00	\$165,000.00	Empire State Building Electrical - Local 3	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$10,400.00	\$65,000.00	Empire State Building Electrical - Local 3	N/A	N/A
Other Electrical Service: Interim Transmitter Electrical Installation at Empire State Building - Local 3	<i>\$180,000.00</i>	\$180,000.00	Empire State Building Electrical - Local 3	N/A	N/A
Empire State Building Fees Interim	<i>\$300,000.00</i>	\$300,000.00	Empire State Building Fees for Interim Transmitter	N/A	N/A
Other -- Building Addition Size: 500.0	<i>\$175,000.00</i>	\$175,000.00	Empire State Building transmitter room modifications. NYC Labor	N/A	N/A

Remove existing equipment	<b>\$225,000.00</b>	\$225,000.00	Removal of existing equipment from interim transmitter space. NYC Labor, Elevator Considerations, ESB Loading Dock, Etc.	N/A	N/A
UHF inside RF system including switching	\$147,500.00	\$140,000.00	Catalog	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$650,000.00	Catalog	N/A	N/A
25 Ton system	\$91,500.00	\$165,000.00	ESB Mechanicals. Pipefitters, Fire Protection, HVAC Mods. NYC Labor	N/A	N/A
Installation Layout and Drawings	<b>\$120,000.00</b>	\$120,000.00	Installation Layout and development of installation drawings.	N/A	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$85,000.00	Empire State Building Electrical - Local 3	N/A	N/A
<b>Primary Transmitter THU9EVO-12</b>	<b>\$2,158,100.00</b>	<b>\$2,270,000.00</b>		<b>\$0.00</b>	
Other -- Building Addition Size: 1000.0	<b>\$325,000.00</b>	\$325,000.00	Empire State Building - Transmitter Room Modifications. NYC Labor	N/A	N/A

Wire Remote Control	<b>\$5,000.00</b>	\$5,000.00	Wire up existing remote control to new transmitter.	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$650,000.00	Catalog	N/A	N/A
Installation Layout Drawings	<b>\$125,000.00</b>	\$125,000.00	Transmitter installation layout and installation drawing development	N/A	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$65,000.00	Empire State Building Electrical - Local 3	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$20,800.00	\$65,000.00	Empire State Building Electrical - Local 3	N/A	N/A
Remove existing equipment	<b>\$225,000.00</b>	\$225,000.00	Remove existing equipment from transmitter area. NYC Labor - Elevator Logistics, Loading Dock, Teamsters, Rigging,	N/A	N/A
Empire State Building Fees	<b>\$450,000.00</b>	\$450,000.00	Empire State Building Fees associated with new main transmitter installation	N/A	N/A

25 Ton system	\$91,500.00	\$165,000.00	Empire State Building Mechanicals - pipefitters, fire protection, HVAC	N/A	N/A
Other Electrical Service: Main Transmitter Electrical Installation at Empire State Building. Local 3 Installation	\$195,000.00	\$195,000.00	Empire State Building Electrical - Local 3	N/A	N/A
<b>Auxiliary Transmitter THU9EVO-8</b>	<b>\$790,600.00</b>	<b>\$778,500.00</b>		<b>\$0.00</b>	
Other -- Building Addition Size: 500.0	\$25,000.00	\$25,000.00	Transmitter room modifications. West Orange NJ Site - NJ Labor	N/A	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$35,000.00	Catalog	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$20,800.00	\$35,000.00	West Orange NJ Site - NJ Labor	N/A	N/A
Other Electrical Service: Aux Transmitter Electrical Installation West Orange NJ	\$90,000.00	\$90,000.00	West Orange NJ Site - NJ Labor	N/A	N/A

Remove Existing Equipment	<b>\$45,000.00</b>	\$45,000.00	West Orange NJ Site - NJ Labor	N/A	N/A
Installation Plan and Drawings	<b>\$75,000.00</b>	\$75,000.00	Hanson Develop installation drawings and site layout	N/A	N/A
Remote Control Wiring	<b>\$3,500.00</b>	\$3,500.00	Wire Up remote control to new transmitter	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$470,000.00	Catalog	N/A	N/A
<b>Sub-total</b>	\$4,957,100.00	\$5,318,500.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$35,545,009.00	\$41,896,999.00	N/A	\$0.00	N/A

## Components

Information not provided.

## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Antenna ATW14H4-ETO25/26H</b>	<b>\$798,790.00</b>	<b>\$1,960,000.00</b>		<b>\$0.00</b>	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$1,300,000.00	Special Custom built antenna for three antenna stack on top of Empire State Building.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$45,000.00	RF Sweep and optimization of antenna/ transmission line at ESB. Using Local 3 labor.	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$95,000.00	Custom ESB Elbow complexes. Three antenna stack. Top of ESB Building.	N/A	N/A

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$35,000.00	Custom analysis of mast and antenna stack.	N/A	N/A
Empire State Building Fees	<b>\$450,000.00</b>	\$450,000.00	Empire State Building Fees associated with new main antenna.	N/A	N/A
Antenna Stack Design	<b>\$35,000.00</b>	\$35,000.00	Custom Antenna Stack Design and pattern development.	N/A	N/A
<b>Auxiliary Antenna ESBTBD</b>	<b>\$994,040.00</b>	<b>\$1,175,000.00</b>		<b>\$0.00</b>	
UHF - High Power Top Mount One Station antenna elliptically or circularly polarized	<b>\$350,000.00</b>	\$350,000.00	Custom designed ESB Aux Antenna - Composite Antenna Design	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$25,000.00	Custom Elbow Complex ESB Aux Antenna system	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$25,000.00	Custom Antenna RF Sweep and Optimization. Local 3 labor.	N/A	N/A



Empire State Building Fees	<b>\$350,000.00</b>	\$350,000.00	Empire State Building Fees associated with Aux antenna project.	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$95,000.00	Custom brackets for antenna mounting to mooring mast at ESB	N/A	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$25,000.00	Custom Scatter Study ESB Mast	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$150,000.00	Custom Combiner System and Installation at ESB	N/A	N/A
Custom Antenna Design	<b>\$35,000.00</b>	\$35,000.00	Custom design of composite Aux Antenna for ESB	N/A	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$120,000.00	Catalog	N/A	N/A

<b>Auxiliary Antenna TUD- C5SP-10/34U- 2-B</b>	<b>\$430,630.00</b>	<b>\$419,400.00</b>		<b>\$0.00</b>	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Catalog - document existing performance on new channels. Determine optimization	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$80,000.00	Catalog	N/A	N/A
Optimization of Antenna	<b>\$0.00</b>	\$0.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1 /8. feedline (if needed)	\$13,700.00	\$13,000.00	Catalog	N/A	N/A
UHF - High Power Top Mount One Station antenna horizontally polarized	<b>\$50,000.00</b>	\$50,000.00	Optimization and fine matcher for existing antenna.	N/A	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$120,000.00	Catalog	N/A	N/A

American Tower Fees	<b>\$150,000.00</b>	\$150,000.00	American Tower Fees associated with Aux Site modifications	N/A	N/A
<b>Sub-total</b>	\$2,223,460.00	\$3,554,400.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$35,545,009.00	\$41,896,999.00	N/A	\$0.00	N/A

## Components

Information not provided.

## Cost Information

### Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Transmission Line</b>	<b>\$576,600.00</b>	<b>\$910,000.00</b>		<b>\$0.00</b>	
Rigid Transmission Line - copper, 6 1/8"	\$161,600.00	\$495,000.00	Custom Transmission line lengths fabricated off site. installed by local 3	N/A	N/A
Empire State Building Fees	<i>\$250,000.00</i>	\$250,000.00	ESB fees associated with new main transmission line.	N/A	N/A
Layout and Installation Drawings	<i>\$165,000.00</i>	\$165,000.00	Layout transmission line, develop installation drawings, line length segments, hanger details.	N/A	N/A
<b>Auxiliary Transmission Line</b>	<b>\$387,800.00</b>	<b>\$575,000.00</b>		<b>\$0.00</b>	
Empire State Building Fees	<i>\$160,000.00</i>	\$160,000.00	Empire State Building Fees associated with new Aux antenna transmission line	N/A	N/A

Transmission Line Layout and Install Drawings	<b>\$135,000.00</b>	\$135,000.00	Layout aux transmission line installation details, develop line cut list, hanger details.	N/A	N/A
Rigid Transmission Line - copper, 6 1 /8" broadband	\$92,800.00	\$280,000.00	Custom transmission line lengths fabricated off site. installed by local 3	N/A	N/A
<b>Auxiliary Transmission Line</b>	<b>\$185,000.00</b>	<b>\$185,000.00</b>		<b>\$0.00</b>	
American Tower Fees	<b>\$150,000.00</b>	\$150,000.00	American Tower Fees associated with modifications of transmission line for new channels	N/A	N/A
Optimization RF Sweep	<b>\$35,000.00</b>	\$35,000.00	Optimize for new channels	N/A	N/A
<b>Sub-total</b>	\$1,149,400.00	\$1,670,000.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$35,545,009.00	\$41,896,999.00	N/A	\$0.00	N/A

## Components

Information not provided.

Cost  
Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower B	\$23,603,314.00	\$26,660,314.00		\$0.00	
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$300,000.00	ESB Structural Inspections	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$750,000.00	ESB Rigging Costs	N/A	N/A
Empire State Building Structural Modifications 3	<i>\$4,110,314.00</i>	\$4,110,314.00	Empire State Building Structural Modifications. WWOR Allocated cost estimate is total of \$21,110,314. of total project cost of ~ \$68M. Form will not allow total costs - so broken into three line items. Part 3	N/A	N/A

Empire State Building Structural Modifications 1	\$9,000,000.00	\$9,000,000.00	Empire State Building Structural Modifications. WWOR Allocated cost estimate is total of \$21,110,314. of total project cost of ~ \$68M. Form will not allow total costs - so broken into three line items. Part 1	N/A	N/A
Empire State Building Structural Modifications 2	\$9,000,000.00	\$9,000,000.00	Empire State Building Structural Modifications. WWOR Allocated cost estimate is total of \$21,110,314. of total project cost of ~ \$68M. Form will not allow total costs - so broken into three line items. Part 2	N/A	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$3,500,000.00	ESB Stack Antenna Installation Estimate	N/A	N/A
<b>Auxiliary Tower LTOWER</b>	<b>\$429,800.00</b>	<b>\$417,000.00</b>		<b>\$0.00</b>	
Short Tower (less than 500')	\$84,200.00	\$80,000.00	Catalog	N/A	N/A

American Tower Fees Associated with Modificatins	<b>\$175,000.00</b>	\$175,000.00	American Tower Fees Associated with tower modifications.	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	Catalog - West Orange NJ	N/A	N/A
<b>Auxiliary Tower B</b>	<b>\$711,000.00</b>	<b>\$1,790,000.00</b>		<b>\$0.00</b>	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$1,500,000.00	Aux Antenna Rigging Empire State Building	N/A	N/A
Empire State Building Fees for Aux Antenna Structural	<b>\$290,000.00</b>	\$290,000.00	Empire State Building Fees for Aux Antenna Structural	N/A	N/A
<b>Sub-total</b>	\$24,744,114.00	\$28,867,314.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$35,545,009.00	\$41,896,999.00	N/A	\$0.00	N/A

## Components

Information not provided.



## Cost Information

### Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Outside Professional Services</b>	<b>\$661,245.00</b>	<b>\$677,700.00</b>		<b>\$0.00</b>	
Reimbursement Reviews with FCC Contractor	<i>\$34,450.00</i>	\$34,450.00	Reimbursement Reviews with E&Y and Cavell.	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	Catalog	N/A	N/A
Project management of the transition	\$395,000.00	\$375,000.00	Project Management of Main and Aux sites.	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	Catalog	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	Catalog	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	Catalog	N/A	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$5,000.00	NYC market Coordination of testing phase and transition phase operations.	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$21,000.00	Development of custom antenna configuration for WWOR. Antenna design ESB Criteria. Three Antenna Stack	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$4,000.00	Two Aux facilities	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$3,000.00	Two Aux Facilities	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	Catalog	N/A	N/A

Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$8,000.00	Two Aux facilities	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	Catalog	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$25,000.00	Negotiate modification of ESB Lease for new channels and equipment	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	Catalog	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	Catalog	N/A	N/A
Additional Field Engineering Service, 30 Days	<b>\$54,000.00</b>	\$54,000.00	On Site Engineering Supervision of Local 3 installation labor.	N/A	N/A
Prepare and File FCC Progress Reports	<b>\$24,000.00</b>	\$24,000.00	Prepare and file FCC Progress Reports	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	Catalog	N/A	N/A
<b>Sub-total</b>	\$661,245.00	\$677,700.00	N/A	\$0.00	N/A

<b>Total for all systems</b>	\$35,545,009.00	\$41,896,999.00	N/A	\$0.00	N/A
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## Components

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>\$1,809,690.00</b>	<b>\$1,809,085.00</b>		<b>\$0.00</b>	
Develop and air announcement of upcoming channel change	<i>\$1,500.00</i>	\$1,500.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$180,000.00</i>	\$180,000.00	Disposal of equipment. NYC Labor, Rigging, Teamsters, Porters.	N/A	N/A
Local Zoning	<i>\$75,000.00</i>	\$75,000.00	Empire State Building - New York City Dept. of Buildings.	N/A	N/A
Non-zoning permits	<i>\$165,000.00</i>	\$165,000.00	Mechanical permits.	N/A	N/A
Equipment Storage	<i>\$150,000.00</i>	\$150,000.00	Off Site Equipment Staging and Storage until needed on site.	N/A	N/A
MVPD Notification of Channel Change	<i>\$11,000.00</i>	\$11,000.00	N/A	N/A	N/A

Equipment Delivery and Handling Charges	<b>\$275,000.00</b>	\$275,000.00	Staging Equipment Deliveries to ESB Loading Dock Teamsters, Elevator Logistics, Rigging. Night /Weekend work	N/A	N/A
New York Sales Tax	<b>\$939,000.00</b>	\$939,000.00	Estimated New York Sales Tax on equipment.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	Catalog	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	Catalog	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	Catalog	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	Catalog	N/A	N/A
<b>Sub-total</b>	\$1,809,690.00	\$1,809,085.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$35,545,009.00	\$41,896,999.00	N/A	\$0.00	N/A

## Components

Information not provided.

**Cost  
Information**

**Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$35,545,009.00	\$41,896,999.00	\$0.00

**Reimbursement Status**

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<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> </ol>	



4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
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.

	<p>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.</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>Joseph M. Di Scipio</b>  <i>SVP, Legal and FCC Compliance</i></p> <p>07/10/2017</p>

## Attachments

Information not provided.