

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

			-		
Facility	22206	Service: DTV	Call	WNYW	Channel: 27 (UHF)
ID:			Sign:		
File	000002	7591			
Number:					
FRN: 00	05795067	Date	10/14		
		Submitted:	/2020		

Applicant Name, Type, and Contact Information

Information	Applicant	Address	Phone	Email	Applicant Type
	FOX TELEVISION	Joseph M. Di	+1 (202)	joe.	Limited
	STATIONS, LLC	Scipio	824-6522	discipio@fox.	Liability
		400 N. Capitol		com	Company
		Street, NW			
		Suite 890			
		WASHINGTON,			
		DC 20001			
		United States			

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information			
Contact Information	Applicant	Address	Phone	Email
	Dennis Wallace Managing Partner Meintel, Sgrignoli & Wallace, LLC	Dennis Wallace 1282 Smallwood Drive Suite 372 Waldorf, MD 20603	+1 (202) 251- 7589	Dennis. Wallace@mswdtv.com
		United States		

Broadcaster	Question	Response
Information and Transition Plan	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	WNYW will build an interim facility on CH 44 and transition to its final CH 27 at the One World Trade Center. The WNYW Aux site at West Orange NJ will require a new transmitter and combiner system.

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

Auxiliary	Existing Transmitter Information				
Transmitter	Section	Question	Response		
	Existing Transmitter Description	Type of change	Purchase New		
		Use	Auxiliary (Backup)		
		Description of Use	Licensed Aux Site 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		
	Existing Transmitter	Manufacturer			
	Manufacturer and Type	Model	DTT10KSU		
		Year	2005		
		Туре	Solid State		
		Solid State Cooling	Air Cooled		
		Solid State Power Capacity	10 kW		

Auxiliary	New Transmitter Costs		
Transmitter	Section	Question	Response
	New Transmitter	Use	Auxiliary (Backup)
		Change Type	Purchase New
		Is this a request for upgraded equipment?	Yes
		Manufacturer	
		Model	THU9-12 EVO
		Transmitter Type	Solid State
		Solid State Cooling	Liquid Cooled
		Solid State Power capacity	19 kW
		Justification for New Transmitter	Existing transmitter is obsolete and no longer supported. Manufacturer is out of business. Replacement required. Channel change and combiner change require new transmitter.

Auxiliary Transmitter	Other Transmitter Costs		
	Section	Question	
	Electrical Service	Service Entrance (3 pha	

tion	Question	Response
ctrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes

	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	200.0 feet
	Other Electrical Service	Yes
	Description	New Aux Transmitter Electrical Installation at West Orange NJ Site
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Auxiliary Other Transmitter Cost Not Listed

Transmitter	Name	Description
	Remote Control Wiring	Wire up existing remote control to new transmitter.

Primary	Existing Transmitter Information			
-	Section	Question	Response	
	Existing Transmitter Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
Existing Transmitter Manufacturer and Typ		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	
		Manufacturer		
	Manufacturer and Type	Model	DCX-3H	
		Year	1999	
		Туре	Inductive Output Tube	
		IOT Power Type	Three	
		Power Capacity	75 kW	

Existing Transmitter Information

Primary	New Transmitter Costs			
Transmitter	Section	Question	Response	
	New Transmitter	Use	Primary (Main)	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Manufacturer		
		Model	THU9-30 EVO	
		Transmitter Type	Solid State	
		Solid State Cooling	Liquid Cooled	
		Solid State Power capacity	46 kW	
		Justification for New Transmitter	Existing transmitter is obsolete and can not be channel changed per manufacturer. Transmitter replacement required.	

Other Transmitter Costs

Transmitter Section	Other Transmitter Costs		
	Section	Question	Response
	Electrical Service Service Entrance (3 phases 800A 208V)	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	300.0 feet
	Other Electrical Service	Yes
	Description	New transmitter electrical installation - OWT Local 3
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Other Transmitter Cost Not Listed Primary Transmitter Name Description **Removal of Existing Equipment** Removal of Existing Main Transmitter at **Empire State Building Broadcast Equipment Installation** Broadcast equipment install, install cooling and associated mechanical work, field testing Monitoring, Encoders, Decoders Monitoring, encoding, decoding, video monitors **Redundant Power Supply** Primary transmitter redundant power supply Transmitter layout drawings Hanson Engineering equipment layout

Remote Control Wiring	Wire up existing remote control to new
	transmitter

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

Auxiliary Existing Antenna Information

Antenna	Section	Question	Response
	Existing Antenna Description	Type of change	Retune Existing
		Antenna Use	Auxiliary (Backup)
		Description of Use	Aux Site West Orange NJ
		Ownership	Leased
		Owner	American Tower
		Site	N/A
		Is the existing antenna shared with another station or stations?	Yes
		Is the existing antenna directional?	Yes
		Is antenna in operating condition?	Yes
		Is antenna located on or in close proximity to an antenna farm?	No
	Existing Antenna	Class	American Tower N/A Yes Yes Yes
	Manufacturer and Type	Mounting	Top Mount
		Antenna position in stack	Middle
		Polarization	Horizontal
		Туре	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	Special Broadband Pylon
ERP: (Effective Radiated Power)	363.0 kW
Manufacturer	Dielectric
Model	TUD-C5SF 10/34U-2-E
Year	2011

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

Facility ID	Call Sign
73333	WNJU
74197	WWOR-TV
9610	WCBS-TV

Α Auxiliary

Antenna

Adjustment to	Existing	Antenna
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Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

Other Antenna Costs Auxiliary

Antenna			
	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
		Туре	New
		Number of channels supported	5
		Frequencies of channels supported	RF channel

Enter a list of RF channel numbers.

RF Channel Number		
25		
26		
27		
35		
36		

Auxiliary Antenna

Other Antenna Cost Not Listed Name Description American Tower Fees ATC Fees associated with combiner and site changes at West Orange NJ Aux Site

Primary Antenna	Existing Antenna Information			
	Section	Question	Response	
	Existing Antenna	Type of change	Lease New	
	Description	Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	No	
		Is the existing antenna directional?	Yes	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	Yes	
	Existing Antenna Class	Full Power		
	Manufacturer and Type	Mounting	Top Mount	
		Antenna position in stack	Bottom	
		Polarization	Circular	
		Туре	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 Custom Special	
		ERP: (Effective Radiated Power)	990.0 kW	

Manufacturer	
Model	ATW25HS3- SPECIAL- 44H
Year	2008

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?	No	
		Ownership	Leased	
		Owner	Durst	
		Is antenna shared?	Yes	
		Is antenna directional?	No	
		Will antenna be located on or in close proximity to an antenna farm?	No	
	New Antenna	Class	Full Power	
	Manufacturer and Types	Mounting	Top Mount	
		Antenna position in stack	Тор	
		Polarization	(Main)N/ALease NewNoLeasedDurstYesNoNoFull PowerTop Mount	
		Туре		
		Number of Stations Supported	4	
		Number of Panels/Bays	40	
		Lower Limit	470.00 MHz	
		Upper Limit	599.00 MHz	
		Design power capacity in use	100.0 %	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	900.0 kW	
		Manufacturer		
		Model	PEP40	

Year	2017
Justification for New Antenna	Use existing OWT Master UHF Panel Antennas PEP40 and PEP96 Main /Alternate Main Antennas. No antenna costs included.

Antenna Section Question Response **Combiner for Shared** Do you need a Combiner for a Shared Yes Antenna? Antenna Additional Туре Module Number of channels supported 5 **RF** channel Frequencies of channels supported Frequency N/A Do you need a combiner output splitter No /switcher for dual feed lines? **Elbow Complex** Do you require the separate purchase of No the Elbow Complex? N/A Broadband or Single Channel? Feed Line Size N/A **Side Mount Brackets** Do you require the separate purchase of side mount brackets for a high power antenna?

Do you require separate purchase of

high or medium power antenna?

pattern scatter analysis for a side mount

No

Other Antenna Costs

Pattern Scatter Analysis

Primary

Sweep Test	Do you require the sweep testing of	Yes
	transmission line and antenna?	

Enter a list of RF channel numbers.

RF Channel Number		
44		
25		
27		
35		
36		

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
CH 27 RFS Combiner System	RFS Combiner System for WNYW CH 27 (Post Repack)
CH 44 RFS Combiner System	RFS Combiner System for WNYW CH 44 (Interim Facility Pre-Repack)
CH 44 Combiner testing, commissioning	Tune, test and commission channel 44 combiner

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Existing Transmission Line

Auxiliary Transmission

nsmissior	Section	Question	Response
	Existing Transmission Line Description	Type of change	Utilize Existing
		Use	Auxiliary (Backup)
		Description of Use	Licensed Aux West Orange NJ
		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	Manufacturer	Dielectric
	Line Manufacturer and Type	Туре	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
73881	WPIX
73333	WNJU
74197	WWOR-TV
9610	WCBS-TV

Other Transmission Line Expenses Not Listed Transmission

n Nattle	Description
Optimize for New Channels	RF Sweep and Optimization for new channels
American Tower Fees	American Tower Fees for Aux Site Changes

ransmissio	Section	Question	Response
Existing Transmission Line Description		Type of change	Purchase New
	Use	Primary (Main)	
		Description of Use	N/A
	Ownership	Owned	
		Owner	N/A
		Site	N/A
		Is the existing transmission line shared with another station or stations?	No
		Is Transmission Line in operating condition?	Yes
	Existing Transmission	Manufacturer	
Line Manufacturer and Type		Туре	Rigid
		Diameter	6 1/8 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	2
		Length	500 feet per run

Primary Existing Transmission Line

Primary	New Transmission Line		
Transmissio	n Line Section	Question	Response
	New Transmission Line Costs	Use	Primary (Main)
		Description of Use	N/A
		Change Type	Purchase New
		Is this a request for upgraded equipment?	No
		Туре	Rigid
		Diameter	7 3/16 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	2
		Length	300 feet per run
		Justification for New Transmission Line	New transmission line to interconnect transmitter to combiner module inputs.

Other Transmission Line Expenses Not Listed Transmission Line

ransmissio	Name	Description
	Transmission line assembly, elbows	Transmission line assembly, elbows, mounts

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

Auxiliary	Add Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	Modify Existing	
		Tower Use	Auxiliary (Backup)	
		Description of Use	West Orange NJ Aux	
		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	Do you have a tower registration number?	Yes	
	Registration	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
74197	WWOR-TV	DTV
73881	WPIX	DTV
9610	WCBS-TV	DTV
73333	WNJU	DTV
60555	WFUT-DT	DTV

Other Types of Users

Users

Two Way

Tower Modification Costs Auxiliary

Tower

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 Rigging Costs

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

Auxiliary	Other Tower Expenses Not Listed		
Tower	Name	Description	
	American Tower Fees Aux	West Orange Aux Site - ATC Spreadsheet costs	

Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	Move Equipment	
		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?	Unknown	
		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	Latitude (NAD83)	40° 44' 54.0" N-	
	1983))	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	

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
73356	WPXN-TV	DTV
74197	WWOR-TV	DTV
73887	WPLJ	FM
18795	WNET	DTV
23004	WAXQ	FM
73333	WNJU	DTV
73881	WPIX	DTV
28203	WBLS	FM
63781	WEPN-FM	FM
29022	WXNY-FM	FM
46978	WQXR-FM	FM
47535	WNBC	DTV
59953	WHTZ	FM
19615	WQHT	FM
9610	WCBS-TV	DTV
73355	WNYC-FM	FM
6373	WWPR-FM	FM
1328	WABC-TV	DTV
9611	WCBS-FM	FM
56571	WLTW	FM
60555	WFUT-DT	DTV

25442	WNEW-FM	FM
74215	WXTV-DT	DTV
6595	WKTU	FM
67846	WFAN-FM	FM
51249	WBAI	FM

Other Types of Users

Users

Multi-user Site

Primary Tower Rigging Costs

Tower

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

Primary Other Tower Expenses Not Listed

Tower Information not provided.

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	2500
		Explanation	Outside Project Management of OWT and Interim Facilities. Project Management of West Orange Aux Site Modifications. On Site RF Engineering to supervise installation and verify performance.
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	Yes
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	Yes
		For Main Facility	Yes
		Prepare request for Special Temporary Authority	Yes
		Quantity	2
		Do you have Distributed Transmission System engineering services?	N/A

	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	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
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes

Outside Other Professional Services Expenses Not Listed

Professional	Services Costs	Description
	Reimbursement Reviews with FCC Contractor	Reimbursement Form Reviews and Revisions with FCC Contractor
	Prepare and File FCC Progress Reports	Prepare and File FCC Progress Reports

Other	Section	Question	Response
Expenses	AM Pattern Disturbance	Is an Impact Study needed?	No
		Is Remediation needed?	No
	Facility Expenses	Name	N/A
		Other Distributed Transmission System Expenses Not listed	N/A
		Name	N/A
		Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
	Permit and Filing Costs	Local Zoning	No
		Non-zoning permits	Yes
		BLM or NFS Coordination	N/A N/A Yes No
		FCC Construction Permit Minor Change	Yes
		FCC License to Cover Application	Yes
		FCC Special Temporary Authority Application	Yes
	Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	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 Not Listed

Other	Other Expenses Not Listed	
Expenses	Name	Description
	New York Sales Tax	Estimate for New York Sales Tax

Transmitters

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter THU9-30 EVO	\$2,630,728.03	\$2,030,130.14		\$1,276,234.80	
Remote Control Wiring	\$3,500.00	\$3,500.00	Wire up remote control to new transmitter.	\$0.00	N/A
Transmitter layout drawings	\$146,882.00	\$146,882.00	Hanson Engineering Quote for layout of equipment on 90th floor.	\$55,858.84	N/A
Redundant Power Supply	\$4,373.00	\$4,373.00	WNYW Main Transmitter redundant power supply	\$4,373.00	N/A
Monitoring, Encoders, Decoders	\$57,573.03	\$57,573.03	Monitoring, encoding /decoding equipment, video monitors. Costs from Sencore and Wohler.	\$34,400.85	N/A
Broadcast Equipment Installation	\$478,000.00	\$478,000.00	Turnkey install of broadcast equipment at WNYW by Hatzel and Buhler.	\$306,500.00	N/A

UHF -	\$1,473,000.00	\$875,102.11	See attached	\$875,102.11	N/A
Liquid Cooled Solid State Transmitter 35 - 50 kW			PDF Rohde Quote 802- 046091_0.pdf		
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$35,000.00	Catalog Cost	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$15,600.00	\$14,700.00	OWT Electrical - Local 3	N/A	N/A
Other Electrical Service: New transmitter electrical installation - OWT Local 3	\$165,000.00	\$165,000.00	Main Transmitter Electrical Installation at OWT. Local 3 IBEW Labor.	N/A	N/A
Removal of Existing Equipment	\$250,000.00	\$250,000.00	Removal of existing equipment, elevator logistics, rigging, riggers, loading dock labor. Glycol, Beam Supplies, Oil Removal, Night work / Overtime. Empire State Building. ESB Teamsters /IBEW Labor	N/A	N/A

Auxiliary Transmitter THU9-12 EVO	\$1,019,000.00	\$616,270.22		\$508,470.21	
Transmitter Demo and Install	\$225,750.00	\$225,750.00	Quote included with line item invoices. Includes demo of aux transmitter, install of new transmitter. Includes electrical, labor, supervision /management.	\$225,750.00	N/A
Remote Control Wiring	\$3,500.00	\$3,500.00	Wire up existing remote control to new transmitter.	N/A	N/A
Other Electrical Service: New Aux Transmitter Electrical Installation at West Orange NJ Site	\$75,000.00	\$75,000.00	Aux transmitter electrical installation at aux site West Orange, NJ.	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$5,000.00	West Orange - Electrical - NJ Local	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	Catalog	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$282,720.22	N/A	\$282,720.21	N/A
Sub-total	\$3,649,728.03	\$2,646,400.36	N/A	\$1,784,705.01	N/A
Total for all systems	\$8,018,653.03	\$5,330,133.36	N/A	\$3,002,104.92	N/A

Actual Information Description	File Name
Remote Control Wiring	Information not provided.

Transmitter layout drawings		
	Component Description:	New York Port Authority Construction
	Amount:	Review Fee \$15,000.00
	Component Description:	Design of Eng and Const Costs Main Transmitter- srvs through April 14 , 2018 90% complete.
	Amount:	\$30,478.16
	Component Description:	Design of Eng and Const Costs Main Transmitter- srvs through June 9 ,
	Amount:	2018 100% complete \$10,380.68
	Amount.	\$10,300.00
	Component Description:	Design of Eng and Const Costs Main Transmitter- srvs through January 27 ,2018 90% complete.
	Amount:	\$62,947.94
Redundant Power Supply		
	Component Description:	Main transmitter redundant power supply
	Amount:	\$4,373.00

Monitoring, Encoders, Decoders		
Decoders	Component Description:	Electronic
		Monitoring
		equipment
	Amount:	\$18,444.18
	Component Description:	Monitoring
		equipment
	Amount:	\$15,956.67
Broadcast Equipment		
Installation	Component Description:	Progress Payment
		on broadcast
		equipment install
	Amount:	\$40,100.00
	Component Description:	Progress payment
		for broadcast
		equipment install
	Amount:	\$59,400.00
	Component Description:	Progress payment
		on broadcast
		equipment install
	Amount:	\$37,800.00
	Component Description:	Progress payment
		on broadcast
		equipment install
	Amount:	\$38,250.00
	Component Description:	Progress payment
		on broadcast
		equipment install
		equipment install

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description: Amount:	Transmitter 10% successful proof of performance milestone \$87,510.20
	Component Description: Amount:	Transmitter 10% final payment completion of 21 day operation testing period \$87,510.22
	Component Description: Amount:	Transmitter 30% delivery of goods milestone \$262,530.63
	Component Description: Amount:	Transmitter 50% downpayment \$437,551.06
Transformer 3 phase/480v - 300 KVA	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Other Electrical Service: New transmitter electrical installation - OWT Local 3	Information not provided.	
Removal of Existing Equipment	Information not provided.	

Transmitter Demo and		
Install	Component Description:	Aux transmitter
		demo and install.
		Progress payment
		#3 on quote.
	Amount:	\$67,725.00
	Component Description:	Aux transmitter
	Component Description:	demo and install.
		Progress billing #2
		on quote.
	Amount:	\$45,150.00
	Amount.	ψ+0,100.00
	Component Description:	Aux transmitter
		demo and install.
		25% of base
		contract/quote
	Amount:	\$56,437.50
	Component Description:	Aux transmitter
	Component Description.	demo and install.
		Final progress
		payment on quote.
	Amount:	\$56,437.50
Remote Control Wiring	Information not provided.	
Other Electrical Service: New Aux Transmitter Electrical Installation at West Orange NJ Site	Information not provided.	
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transformer 3 phase/480v - 150 KVA	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	Component Description:	Final 20% of aux transmitter. Includes upgrade and variance sheet.
	Amount:	\$56,544.04
	Component Description:	30% downpayment for aux transmitter. Includes upgrade
	Amount:	/variance sheet. \$84,816.06
	Component Description:	50% downpayment on aux transmitter.
	Amount:	\$141,360.11
	Amount:	\$141,360.11

Antennas

Cost Information

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

Description Primary	Predetermined Cost Estimate \$2,232,450.00	Estimated Cost \$1,057,920.00	Estimated Cost Justification	Actual Cost \$958,087.26	Actual Cost Justificatio
Antenna PEP40					
CH 44 Combiner testing, commissioning	\$36,960.00	\$36,960.00	Channel 44 Combiner tune, test, commissioning	\$36,960.00	N/A
CH 44 RFS Combiner System	\$576,791.00	\$576,791.00	CH44 Interim Facility Combiner System per RFS Quote	\$483,358.26	N/A
CH 27 RFS Combiner System	\$437,769.00	\$437,769.00	CH 27 Post- Repack Combiner System See attached RFS Quote	\$437,769.00	N/A
Adding a module to existing combiner (without antenna)	\$84,200.00	\$0.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Catalog	N/A	N/A

UHF - High Power Top Mount (200- 1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	\$1,090,000.00	\$0.00	N/A	N/A	N/A
Auxiliary Antenna TUD- C5SP-10/34U- 2-B	\$231,930.00	\$224,068.00		\$61,667.00	
American Tower Fees	\$15,000.00	\$15,000.00	American Tower Fees for Modification of Aux Site at West Orange NJ.	\$5,000.00	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$120,000.00	Catalog	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$82,668.00	See attached ATC Spreadsheet for changes to Channel Combiner at West Orange NJ Aux Site	\$51,667.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	RF Sweep and Optimization. Local 3 labor.	\$5,000.00	N/A
Sub-total	\$2,464,380.00	\$1,281,988.00	N/A	\$1,019,754.26	N//
Total for all systems	\$8,018,653.03	\$5,330,133.36	N/A	\$3,002,104.92	N/A

Actual Information Description	File Name	
CH 44 Combiner testing, commissioning	Component Description: Amount:	Channel 44 combiner tune, testing, commissioning \$36,960.00
CH 44 RFS Combiner System	Component Description: Amount:	Combiner \$483,358.26
CH 27 RFS Combiner System	Component Description: Amount:	Combiner Modules 45% deposit \$196,996.05
	Component Description: Amount:	Combiner Modules remaining 55% due \$240,772.95
Adding a module to existing combiner (without antenna)	Information not provided.	
Sweep test of existing antenna	Information not provided.	
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	Information not provided.	
American Tower Fees	Component Description:	Combiner
		installation - American Tower
	Amount:	\$5,000.00

Component Description: Amount:	New combiner, cost per channel (without antenna \$51,667.00
Component Description:	Sweep test of transmission line and antenna \$5,000.00
	Amount:

Transmission Line

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$199,910.00	\$191,510.00		\$124,314.54	
Transmission line assembly, elbows	\$25,910.00	\$25,910.00	See Myat quote # 90004732 attached to invoices	\$8,351.68	N/A
Rigid Transmission Line - copper, 7 3 /16"	\$174,000.00	\$165,600.00	Catalog Cost. Two runs of Coax to interconnect WNYW transmitter to combiner modules.	\$115,962.86	N/A
Auxiliary Transmission Line	\$0.00	\$0.00		\$0.00	
American Tower Fees	\$0.00	\$0.00	N/A	N/A	N/A
Optimize for New Channels	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$199,910.00	\$191,510.00	N/A	\$124,314.54	N/A
Total for all systems	\$8,018,653.03	\$5,330,133.36	N/A	\$3,002,104.92	N/A

Components

Actual Information
Description File Name

Transmission line assembly,		
elbows	Component Description:	Transmission line
	Americante	assembly
	Amount:	\$4,041.02
	Component Description:	Transmission line
	Amount:	assembly mount \$450.00
	Component Description:	Transmission line elbow assembly
	Amount:	\$1,928.11
	Component Description:	Transmission line
	Amount:	elbow assembly \$1,932.55
Rigid Transmission Line - copper, 7 3/16"		
	Component Description:	WNYW transmission line switch
	Amount:	\$31,261.76
	Component Description:	45% deposit of
		Transmission Line Costs for WNYW
		on quote of 188,226. Quote
		later revised to
		141,829.20.
		57,128.10
		remaining to be paid.
	Amount:	\$84,701.10
American Tower Fees	Information not provided.	

Tower Equipment and Rigging Costs

Cost Information

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 Justification
Primary Tower B	\$421,000.00	\$0.00		\$0.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$0.00	No rigging planned.	N/A	N/A
Auxiliary Tower LTOWER	\$84,200.00	\$0.00		\$0.00	
Short Tower (less than 500')	\$84,200.00	\$0.00	No rigging / tower work planned at this time.	N/A	N/A
American Tower Fees Aux	\$0.00	\$0.00	No rigging /antenna work planned at this time.	N/A	N/A
Sub-total	\$505,200.00	\$0.00	N/A	\$0.00	N/A
Total for all systems	\$8,018,653.03	\$5,330,133.36	N/A	\$3,002,104.92	N/A

Components

Information not provided.

Outside Professional Services

Cost Information

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 (Justifica
Outside Professional Services	\$640,245.00	\$651,650.00		\$65,181.11	
Prepare and File FCC Progress Reports	\$19,950.00	\$19,950.00	Prepare and file FCC Progress reports - New York Issues	N/A	N/A
Reimbursement Reviews with FCC Contractor	\$17,500.00	\$17,500.00	Reimbursement Reviews w/ E&Y and Cavell.	N/A	N/A
Additional Field Engineering Service, 30 Days	\$54,000.00	\$54,000.00	On Site Supervision of installation work by local 3 labor at OWT. On Site RF Engineering services.	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	Catalog	\$5,000.00	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	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

Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$19,950.00	Negotiate Lease Modifications OWT / ATC	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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$8,000.00	Two Aux Applications - Catalog	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
Prepare request for Special Temporary Authorization	\$4,100.00	\$4,500.00	Catalog	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 - Catalog	N/A	N/A

Prepare engineering section of FCC	\$1,580.00	\$1,500.00	Catalog	N/A
Form 2100 (main), License to Cover Application				
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 - Catalog	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	Catalog	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$19,500.00	Development of Custom Antenna Patterns for WNYW DA studies related to move to OWT and interference studies to develop CP Mod parameters.	\$5,000.00
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$5,000.00	New York market Coordination - Phase 4 for testing and transition dates.	N/A

Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	Catalog	N/A	N/A
Project management of the transition	\$395,000.00	\$375,000.00	Outside Project Management of Main/Aux projects at OWT and Aux facility changes at West Orange.	\$55,181.11	N/A
Sub-total	\$640,245.00	\$651,650.00	N/A	\$65,181.11	N/A
Total for all systems	\$8,018,653.03	\$5,330,133.36	N/A	\$3,002,104.92	N/A

Actual Information Description	File Name	
Prepare and File FCC Progress Reports	Information not provided.	
Reimbursement Reviews with FCC Contractor	Information not provided.	
Additional Field Engineering Service, 30 Days	Information not provided.	
RF Exposure Measurements	Component Description: Amount:	RF System Test \$5,000.00
Comprehensive coverage verification via field study, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.	

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Component Description:	Engineering study for new channel assignment and antenna development

Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
Project management of the transition		
	Component Description:	Project Management 1/1
		/19 - 12/31/19
	Amount:	\$1,077.08
	Component Description:	Project
		Management 1/5
		/17 - 12/31/17
	Amount:	\$3,583.75
	Component Description:	Project
		Management 12/1
	Amount:	/18 - 12/31/18
	Amount:	\$27,083.75
	Component Description:	Project
		Management 1/3
	•	/18 - 12/31/18
	Amount:	\$594.03
	Component Description:	American Tower
	Amounti	Project Mgmt.
	Amount:	\$9,480.00
	Component Description:	Project
		Management 1/1
	Amounti	/19 - 12/31/19
	Amount:	\$13,362.50

Other Expenses

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$559,190.00	\$558,585.00		\$8,150.00	
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	Catalog	N/A	N/A
New York Sales Tax	\$355,000.00	\$355,000.00	NYC Sales Tax 8.875%. Estimate Sales Tax on ~\$4M equipment.	N/A	N/A
MVPD Notification of Channel Change	\$11,000.00	\$11,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$1,500.00	\$1,500.00	N/A	N/A	N/A
Equipment Storage	\$19,000.00	\$19,000.00	Myat Storage and Equipment staging and storage off site until ready for on site delivery.	N/A	N/A

Equipment	\$19,500.00	\$19,500.00	Staging	\$8,150.00	N/A
Delivery and Handling			equipment delivery to		
Charges			OWT		
g			Loading		
			Dock. Night		
			/ Weekend		
			hours.		
			Teamsters.		
			Myat Inc.		
Disposal	\$95,000.00	\$95,000.00	Remove	N/A	N/A
Costs (for			and dispose		
equipment and			of transformer		
other waste, net of any					
salvage value)			oil, glycol, and various		
carrage value/			transmitter		
			components		
			from ESB		
			Loading		
			Dock.		
Non-zoning	\$45,000.00	\$45,000.00	City of New	N/A	N/A
permits			York,		
			Building		
			Permits for		
			Mechanical,		
			HVAC, Fire Protection,		
			Electrical		
			and		
			submittals.		
FCC Filing	\$335.00	\$325.00	Catalog	N/A	N/A
Fees - Form					
2100 license					
to cover					
application					
FCC Filing	\$1,110.00	\$1,070.00	Change CP	N/A	N/A
Fees - Form			location		
2100 minor			from ESB to		
change CP application			OWT		
	• • •				
DTV Medical	\$11,550.00	\$11,000.00	Catalog	N/A	N/A
Facility					
Notification					
Sub-total			N/A	\$8,150.00	N/A

Total for all	\$8,018,653.03	\$5,330,133.36	N/A	\$3,002,104.92	N/A
systems					

Actual Information Description	File Name	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
New York Sales Tax	Information not provided.	
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	Component Description: Amount:	Combiner freight, dock labor \$8,150.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Non-zoning permits	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
DTV Medical Facility Notification	Information not provided.	

Cost	Grand Total			
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$8,018,653.03	\$5,330,133.36	\$3,002,104.92

Reimbursem	entestiatus	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	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.	
		 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. The above-named 	
		entity acknowledges that all certifications and attached documentation are considered material representations.	
		3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

- 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 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.	Angelo Servedio SVP Controller
	10/14/2020

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 IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		 The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster **Relocation Fund are** necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 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.

	The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 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.	
an au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) fied above.	Angelo Servedio SVP Controller
		10/14/2020

Attachments